

CURRENT TITLES AND AFFILIATIONS:

Academic Appointments:

Primary Appointment: Professor, Emory Department of Rehabilitation Medicine, School of Medicine
Director of Research, Emory Department of Rehabilitation Medicine, 1989-2000

Joint and Secondary Appointments:

Professor of Geriatrics, Emory Department of Medicine
Associate Professor, Emory Department of Cell Biology
Assistant Professor, Emory Department of Surgery, School of Medicine
Professor, Department of Adult and Elder Health, Nell Hodgson Woodruff School of Nursing at Emory University
Research Health Scientist (GS 14), Atlanta VA Medical Center, Rehabilitation Research & Development Center, July 1991-Present

Clinical Appointment: Director, Program in Restorative Neurology (PROREN), Emory University Clinic, 1996-2000

Place of Birth: Chicago, Illinois, USA

Date of Birth: May 15, 1944

Citizenship: USA

Office Address: Center for Rehabilitation Medicine
Department of Rehabilitation Medicine; Rm 212
1441 Clifton Road, NE, Atlanta, GA 30322

Email address: swolf@emory.edu

Licensure/Boards: Physical Therapy: Massachusetts #625; Georgia #728

Education: A.B., Biology, Clark University, 1965
Class President
Biology and Psychology Clubs
Dramatic Society
Listed in Who's Who Among Students in American Colleges and Universities
Gryphon, Senior Men's Honor Society
Varsity Baseball

Certificate of Advanced Standing in Physical Therapy Columbia University, 1966, Salutatorian of Class

Licensed Physical Therapist, Massachusetts, 1967

Licensed Physical Therapist, Georgia, 1974

Commissioned Officer and Senior Assistant Therapist, U.S. Public Health Services, Division of Hospitals, Boston, M.A., 1966-1968.

M.S., Physical Therapy, Boston University, 1969

Instructor, Anatomy and Physiology, Boston University, 1969

CURRICULUM VITA- Steven L. Wolf

Ph.D. student in Anatomy, Advanced Standing, Emory University, 1970

M.S., Anatomy, Emory University, 1972

Ph.D., Anatomy, Emory University, 1973 (Advisors: J.V. Basmajian, M.D.;
W.D. Letbetter, Ph.D.)

Title: "The effect of a specific cutaneous cold stimulus on underlying gastrocnemius muscle motor activity."

Post-graduate Training: Muscular Dystrophy Associations of American Postdoctoral Fellowship, 1973-74
(Karolinska Institute, Stockholm, Sweden; Advisor: Evert Knutsson, M.D.)

Muscular Dystrophy Associations of America Postdoctoral Fellowship, 1974-75
(Emory University Regional Rehabilitation Research and Training Center,
Atlanta, GA.; Advisor: J.V. Basmajian, M.D.)

Previous Academic and Professional Appointments:

Director of Physical Therapy, Townsend Nursing Home, Roxbury, MA, 1967-68

Instructor, Sargent College of Allied Health Professions, School of Physical
Therapy, Boston University, 1969-70.

University Clinical faculty appointment, Department of Physical Medicine, Emory
School of Medicine, June 1975-August 1975

SPECIAL APPOINTMENTS:

1. Editorial Boards and Journal Reviews

Manuscript reviewer, Physical Therapy, 1975-1976

Associate Editor, Physical Therapy, 1977-1982

Chairman, Associate Editors, Physical Therapy, 1980-1981

Manuscript Reviewer, Archives of Physical Medicine and Rehabilitation, 1976-85

Alternate Editor, Archives of Physical Medicine and Rehabilitation, 1985-91

Manuscript Reviewer, Biofeedback and Self-Regulation, 1978-79

Manuscript Reviewer, Physician and Sports Medicine, 1981-85

Associate Editor, Biofeedback and Self-Regulation, 1979-91

Associate Editor, Applied Psychophysiology and Biofeedback, 1991-2003

Associate Editor, Physiotherapy Research International, 1995-2000

Consulting Editor, Physiotherapy (Canada), 1981-

Editorial Board, Pain Management Practice, 1986-90

Associate Editor, Journal of Rehabilitation and Health, 1993- 2002.

Associate Editor, Journal of Head Injury Rehabilitation, 1987- 1998.

Associate Editor, Clinics in Physical Therapy (15 Volume Series, Churchill-Livingston, 1979-82.

Current

CURRICULUM VITA- Steven L. Wolf

Series Editor, Contemporary Perspectives in Rehabilitation, F.A. Davis Company, Philadelphia, PA, 1985-
Advisory Board Member, Internat Physiotherapy Research Journal, 1995-
Advisory Board, Journal of Electromyography and Kinesiology, 1990 -
Associate Editor, Journal of Neurorehabilitation and Neural Repair, 2002 -
Associate Editor, Journal of Neuro-engineering and Rehabilitation (electronic), 2004-
Associate Editor, Restorative Neurology and Neuroscience, 2006-
Associate Editor, Topics in Stroke Rehabilitation, 1988-
Editorial Board, Physical Therapy Reviews, 1996-
Associate Editor, Canadian J. Rehabilitation, 1994-2002
Associate Editor, Physical Therapy Practice, 1990-95
Manuscript Reviewer, Physical Therapy, 1982-
Manuscript Reviewer, Experimental Neurology, 1979-
Manuscript Reviewer, Journal American Geriatrics Society, 1995-
Manuscript Reviewer, Experimental Brain Research, 1996-
Manuscript Reviewer, J. Gerontology, 1996-
Manuscript Reviewer, Amer J. Epidemiology, 1996-
Manuscript Reviewer, J. Neurophysiology, 1998-
Manuscript Reviewer, Gerontologist, 1997-
Manuscript Reviewer, New England Journal of Medicine, 2001-
Manuscript Reviewer, J American Med Assoc., 2002-
Manuscript Reviewer, Gait and Posture, 20032
Manuscript Reviewer, British Journal of Sports Medicine, 2002-
Manuscript Reviewer, Brain, 2003-
Manuscript Reviewer, J Rehab Med, 2003-
Manuscript Reviewer, J Aging and Phys Activity, 2003-
Manuscript Reviewer, J Neuroscience, 2004-
Manuscript Reviewer, J Clinical Neurophysiol, 2004-

2. Consultantships, Selected Chairs and Executive Offices

Consultant to Social Rehabilitation Service, Division of Demonstration Aids and Grants,
Medical Research Study Section, July 1971-July 1975
Chairperson, Medical Advisory Committee, Atlanta, Chapter, Muscular Dystrophy Association of America,
Inc., 1975-1976
Admissions Committee, Emory University Certificate Program in Physical Therapy, 1974-1983
Rehabilitation Services National Advisory Committee of Office Human Development, 1975-1981
Medical Research Committee, National Institute of Handicapped Research, Washington, D.C., 1982-1987
Vice-Chairman, Section on Research, American Physical Therapy Association, 1975-1979
Alternate Delegate, State of Georgia, to APTA National Convention, Anaheim, CA 1975
Delegate, State of Georgia to APTA National Convention, New Orleans, LA, 1976
Writer for Professional Examination Service (Physical Therapy Component) 1977
Coordinator, Biofeedback Research Program, Emory University Regional Rehabilitation Research and Training
Center, Atlanta, GA, 1977-1982
Consultant, EMPI, Inc., Minneapolis, MN, 1982-86
Consultant, Cyborg, Inc., Chicago, IL, 1982-1984
Chairman, Section on Research, American Physical Therapy Association, 1978-1980
Membership Committee, American Congress of Physical Medicine, 1979-88
Vice President, Georgia Chapter, American Physical Therapy Association, 1982

CURRICULUM VITA- Steven L. Wolf

Chairman, Grant Review Committee, Foundation for Research, Amer. Phys. Therapy Association, 1979-81
Delegate, State of Georgia, American Physical Therapy National Convention, Washington, DC, 1981
Program Chairman, Biofeedback Society of America, 1982
Board of Directors, Biofeedback Society of America, 1983-86
President-elect, Council of State Societies, Biofeedback Society of America, 1983
Secretary, Biofeedback Certification Institute of America, 1981-83
Vice-President, Biofeedback Certification Institute of America, 1983-86
Chairman, Biofeedback Certification Institute of America, 1987-89
Co-chairperson (with B. Blossom), Toward Excellence in Physical Therapy Practice, Atlanta, GA.
September 22-26, 1982
Chairman, Scientific Advisory Council, Foundation for Physical Therapy, 1981-83
Consultant to the Ontario Council of Graduate Education, 1981
Grant Reviewer, Allied Health Division, Arthritis Foundation, 1981
Member, Special Elite Athlete Project, Sports Medicine Council, US Olympic Committee, 1981-83
Member, Specialty Council on Clinical Electrophysiological Physical Therapy of Board of Certification of
Advanced Clinical Competency, 1982-86
Consultant, Medtronics Inc., Minneapolis, MN, 1982-85
Consultant, Verimed Inc., Ft. Lauderdale, FL, 1986-89
Visiting Professor of Caring Health Sciences, University of Gothenburg, Department of Rehabilitation
Medicine, Gothenburg, Sweden, 1987
Tenure and Promotion Ad Hoc Committee, Emory University, School of Medicine, 1982-Present
Chairperson, Medical Library Committee, Emory University, 1988-90
Chairman, Task Force on Extramural Research Funding, American Physical Therapy Association, 1989-94.
Consultant, Naval Biomedical Research Laboratory Pensacola, FL, 1989-91
Consultant, NORTECH-Medtronic, 1989-92
President-elect, Association for Applied Psychophysiology and Biofeedback, 1990-91
President, Association for Applied Psychophysiology and Biofeedback, 1991-92
Chairman, Advisory Council on Research to the Board of Directors, American Physical Therapy Assoc.
MGH Institute of Health Professions, Advisory Committee, Boston, MA, 1993-96
Board of Directors, International Society of Electrokinesiology, 1992-
Chairman, Scientific Abstracts Committee, World Confederation of Physical Therapy, 1995
External Reviewer for Rehabilitation Graduate Programs, University of Toronto, and Massachusetts General
Hospital (Harvard University), 1992-93.
Consultant, MYO Diagnostics, Ltd., Culver City, CA, 1993-1999
Board of Directors, Foundation for Biofeedback, 1993-1999
Consultant, Extramural Evaluator: Foundation for Physical Therapy, 1994-98
Awards Committee, American Physical Therapy Association, 1996-97
Consultant, NORAXON Ltd, 1999-01
Consultant, Kinetic Muscles, Inc. 2003 –
Consultant, Impact Medical Solutions, 2004 –
Consultant, SAEBO, 2004 -
Catherine Worthingham Fellows Selection Committee, American Physical Therapy Association, 2000-2003
Chair, Catherine Worthingham Fellows Council , 2004-2007.
International Advisory Board, School of Physiotherapy, Otago University, Dunedin, New Zealand, 2005-
Section on Research, Awards Committee, 2005-2007

STUDY SECTIONS:

NIHR (Med. Rehab.) 1976-1979

CURRICULUM VITA- Steven L. Wolf

NIDDR (Biomed. Eng.) 1981-1984
Foundation for Physical Therapy (Res. Review Panel) 1980-1984
NIDCD (Ad Hoc) 1993-
NCMRR (NIH, Ad Hoc) 1994-97
NIH National Center for Rehabilitation Research, National Institute of Child Health and Human Development
Initial Review Group, Medical Rehabilitation Research Subcommittee, 1996- 2001
Committee to Establish Practice Guidelines for the Hemiplegic Arm and Hand, Canadian Heart Association, 2001
NIH-NINDS, Study Section A (Ad hoc reviewer), 2001-
Ad hoc reviewer, Musculoskeletal and Rehab Medicine Study Section, (NIH-NCMRR), 2003-04
Musculoskeletal and Rehab Medicine Study Section, (NIH-NCMRR), 2004-06
Advisory Committee to NCMRR -2006-2010.
Chair, Ad Hoc NIH-NCMRR Study Section to Review Infrastructural Research Network grants, 04-14-05.
Data Safety and Monitoring Board (David G, Sherman, MD; Michael Parides, Ph.D., Elizabeth Noser, MD, Steven L. Wolf, Ph.D., PT, FAPTA, Board Members); Locomotor Experience Applied Post-Stroke (LEAPS) Multi-site Randomized Clinical Trial (Pamela Duncan, PI); NINDS, Jan 2006- Dec 2011.
Taiwan Medical Research Council, grant reviews, 2006 –
Michael Smith Foundation for Health Research (British Columbia, Canada) grant reviews, 2006-

GRANT REVIEWER:

Heritage Foundation (Canada) 1994-
Medical Research Council of Canada 1995-
External Scientific Review Committee, Canadian Stroke Network, 2002-
Swiss National Science Foundation, 2003-
Canadian Stroke Network, 2002-

EXTERNAL REVIEWER FOR PROMOTION (BY INSTITUTION)

United States:

Washington University	University of Iowa
University of Miami	University of Washington
University of Delaware	University of Pittsburgh
Boston University	University of Southern California
University of California – San Francisco	Northwestern University
University of Minnesota	University of Illinois at Chicago
University of Wisconsin	Creighton University
Duke University	Case Western Reserve University
University of Maryland	University of Alabama at Birmingham

Foreign:

Karolinska Institute (Sweden)
Laval University (Canada)
McGill University (Canada)
McMaster University (Canada)
University of Montreal (Canada)
University of Toronto (Canada)
Umea University (Sweden)

AWARDS AND HONORS:

CURRICULUM VITA- Steven L. Wolf

Marian Williams Award for Research, APTA, 1980
Golden Pen Award, APTA, 1983
Georgia Merit Award, Physical Therapy Association of Georgia, 1983
Men of Achievement, 1984
Who's Who in the Behavioral Sciences, 1985
Catherine Worthingham Fellow of the American Physical Therapy Association, 1987
Robert C. Bartlett Recognition Award, Foundation for Physical Therapy, 1989
Distinguished Service Award, Section on Clinical Electrophysiology, American Physical Therapy Association, 1990
President, Association of Applied Psychophysiology and Biofeedback, 1991-92
Helen J. Hislop Award for Excellence in Contributions to Professional Literature, American Physical Therapy Association, 1993
Steven J. Rose Memorial Lectureship, Washington University, St. Louis, Missouri, 1994
Co-chairman, Tenth Congress of the International Society of Electrokinesiology, 1994
Chairman, Scientific Abstract Review Committee, World Confederation for Physical Therapy, 1995
Lucy Blair Service Award, APTA, 1996
Section on Geriatrics, APTA, Outstanding published paper award, 1997
Neurology Section, APTA, Outstanding Researcher Award, 1998
Dr. Steven Wolf Appreciation Day, February 11, 1998, Warner-Robbins, Georgia: Outstanding Contributions to Rehabilitation in Georgia
Lester A. Duplechan Award for Outstanding Mentoring of PM &R residents, Emory University, 1999
Stroke Council, American Heart Association, 1999-2005
Ad hoc international search committee member for Chairperson of Physical Therapy, University of Umea, Sweden, 1999
Ad hoc international search committee member for Chairperson of Physical Therapy, University of Goteborg, Sweden, 2000
Mary McMillan Lecturer, APTA 2002
Abstract reviewer, American Stroke Association, 2001-
Fellow of the Otago-Southland Trust (New Zealand), 2003
Wolf SL, Barnhart HX, Kutner NG, et al: Exercise training and subsequent falls among older persons: Comparison of Tai Chi and computerized balance training. JAGS, 44:489-497, 1996. (VOTED JAGS PAPER OF THE DECADE [1990'S] AND REPRINTED, DECEMBER 2003).
Who's Who in Medical Sciences Education, 2005
Senior Research Fellowship, Institute for Advanced Study, Latrobe University, Melbourne Australia, 2005

KEY NOTE SPEAKER:

Florida Biofeedback Society Annual Meeting, 1980
Emory University, Graduation of Masters Physical Therapy Students, 1983
Georgia State University, Graduation of undergraduate physical therapy students, 1984
Biofeedback Society of Georgia annual meeting (with Lois Wolf) Emory University, Graduation of Masters Physical Therapy students, 1987
Biofeedback Society of Japan, Tokyo, Japan May 13, 1990
Graduation speaker, University of West Virginia Physical Therapy Educational Program, 1991
Presidential Address. Association for Applied Psychophysiology and Biofeedback, 1992
International Society of Electrokinesiology, Florence, Italy 1992

CURRICULUM VITA- Steven L. Wolf

Invited Key Note Speaker, Fiftieth Anniversary, College of Physicians and Surgeons, Physical Therapy Program, Columbia University, New York, NY, October 1992
Invited Key Note Speaker, Biofeedback Society of California, November 1992
First John V. Basmajian Lectureship, International Society of Electrokinesiology, 1996
Biofeedback Society of Florida, 1997
Health Care Professions Seminars on Aging, 1997
Harvard/Radcliffe Tai Chi Club, Harvard Medical School, 1998
PT Doctoral Student graduation, University of Southern California, 1998
Hong Kong Physical Therapy Association, 1998
Lillian Pollard Memorial Lectureship, University of Toronto Physical Therapy Education Program, 1999
University of Mississippi Physical Therapy Educational Program, 1999
University of Umea (Sweden), Department of Physical Therapy (20th anniversary)
Stanley Lecturer, University of Florida, College of Health and Human Performance, 2000
University of Maryland, Program in Physical Therapy, 2000
6th Annual Rosemary Skully Visiting Lecturer, University of Pittsburgh, 2000
First Annual Physical Therapy Alumni Lecturer, University of Delaware, 2000
Margaret L. Moore Distinguished Lecturer, University of North Carolina, 2000
Mary McMillan Lecture (33rd), American Physical Therapy Association, 2002
2nd World Congress of the International Society of Physical and Rehabilitation Medicine, Prague, Czech Republic
International Society of Biomechanics, Dunedin, New Zealand, 2003
Emory University, Division of Physical Therapy Education, Commencement Speaker, First DPT Class, 2003
The Sanford, Daurine and Barbara Noll Symposium Lecturer, Department of Rehabilitation Medicine, Cleveland Clinic Foundation, 2004
Keynote graduation speaker, Arcadia University, May 2004
Special Lecture upon the dedication of the Evert Knutsson Research Laboratory at the Centre Inerdisciplinaire de recherche en readaptation et integration sociale, Lavale University, Quebec City, Quebec Canada, May 2004.
Outstanding Physical Therapists, State of Georgia, (Physical Therapy Association of Georgia), 2004.
Keynote Speaker, Research Day, Louisiana State University Allied Health Program, New Orleans, LA, 2004
Annual Hyman Dervitz Lecture, Temple University College of Health Professions, 2005
Columbia University, Program in Physical Therapy, College of Physicians and Surgeons, Distinguished Alumnus Award, 2006.
Keynote Speaker: The 5th Pan-Pacific Conference on Rehabilitation and the Pre-FIMS World Congress of Sports Medicine, 2006. Hong Kong, 2006
Sattin RW, Easley KA, Wolf SL, Chen Y, Kutner MH: Reduction in fear of falling through intense Tai Chi exercise training in older, transitionally frail adults. J Amer Geriatr Assoc, 2005, 53: 1168-1178. (**NOMINEE**: Charles C. Shepard Science Award 2006 (Prevention and Control category, Centers for Disease Control and Prevention), Atlanta, GA.

CLINICAL EXPERIENCE:

- 1966-68 Staff Physical Therapist, U.S. Public Health Service Hospital, Brighton, MA. Treat general acute and chronic patients.
- 1969-70 Consulting physical therapist - Townsend Nursing Home, Roxbury, MA. Treat chronic geriatric patients, primarily with neuromuscular disorders.

CURRICULUM VITA- Steven L. Wolf

- 1980-95 Private Practitioner (20-25% time). Interface chronic neuromuscular and musculoskeletal clients with instrumented interfaces including therapeutic exercise, biofeedback and electrical stimulation.
- 1996-present Director, Program in Restorative Neurology (PROREN), a collaborative data base and clinical service, Departments of Rehabilitation Medicine and Neurology, Emory University Clinic, Atlanta, GA

FINANCIAL SUPPORT:

A. Scholarships/Fellowships:

1. Allied Health Professional Training Fellowship Awarded to Steven L. Wolf via grant to Sargent College of Allied Health Professionals, Boston University, from Rehabilitation Services Administration, DHEW, for Master's degree study in Physical Therapy, 1968-69. Full tuition and \$250 per month stipend.
2. Pre-doctoral fellowship awarded to Steven L. Wolf from Social Rehabilitation Services, DHEW, Grant No. 24-P56921/403 to research the topic "The effect of cutaneous cooling upon human single motor unit control in medial gastrocnemius muscle" and to complete doctoral studies under the direction of J.V. Basmajian, M.D. Department of Anatomy, Emory University School of Medicine, Atlanta, GA. 1970-73. Full tuition and \$300 per month stipend.
3. Postdoctoral fellowship from the Muscular Dystrophy Association of America awarded to Steven L. Wolf to study, "Microneurographic recording techniques to access human muscle spindle afferent responses to cutaneous cooling" under the direction of Evert Knutsson, MD, Karolinska Institute and Hospital, Stockholm, Sweden, 1973-75. \$14,000 support per annum.

B. Grants:

Funded

1. "The use of motor unit potentials as a measure of neuromuscular integrity", Steven L. Wolf, Principal Investigator, Grant No. 16-P-56808/4-12-R-55, Rehabilitation Services Administration, DHEW, 1975-76, \$38,452; 1976-77, \$16,489
2. "A re-evaluation of sensory testing in neurological patients", Steven L. Wolf and Faod Nahai, MD Co-Principal investigators, Grant No. 16-P-56808/412-R-56, Rehabilitation Services Administration, DHEW, 1975-76, \$22,606; 1976-77, \$13, 869
3. "Effects of TENS on pain perception in healthy subjects", Steven L. Wolf Principal Investigator, Staodyne Inc., Beaumont, CO, 1976, \$1,914
4. "Peripheral neural excitation with TENS applications", Steven L. Wolf, Principal Investigator, Med General Inc., Minneapolis, MN 1979, \$17,288
5. "Biofeedback applications to the incomplete spinal cord patient: Steven L. Wolf, Principal Investigator, Grant No. 16-P-56808/414-R-63, Rehabilitation Services Administration, DHEW, 19-81, \$151,585

CURRICULUM VITA- Steven L. Wolf

6. "Developing strategies for muscle biofeedback in stroke patients", Steven L. Wolf, Principal Investigator, Grant No. 16-P-56808/4-14-R-64, Rehabilitation Services Administration, DHEW, 19-82, \$255,239
7. "Assessment of sensibility in the hand following peripheral nerve injury", Luis O. Vasconez, MD, Principal Investigator, Steven L. Wolf, Co-Investigator, Veterans Administration Merit Review Grant, 19-890, \$50,000 per year (approximate)
8. "The effect of electrode placements and stimulating parameters on TENS applications to patients with specific acute and chronic diagnoses", Stim Tech Corp., Minneapolis MN, 1979, \$23,294
9. "Effect of a "forced use" paradigm on recovery of upper extremity function in stroke and closed head injured patients", NIDRR, 1983-88, \$146,000
10. "A 'motor copy' procedure to restore upper extremity function", NIDRR, 1983-88, \$250,000
11. Effectiveness of Spinal Stretch Reflex Conditioning for Chronic Traumatic Brain Injured and for stroke patients. Physical Therapy Association of Georgia. Grant: 1 year, \$3000 STATUS: Funded 11/1/88 - 10/31/89
12. Muscle retraining to enhance function at high G straining. US Navy. 1989-1990. \$10,000 per year. STATUS: Funded
13. "Operant conditioning of spinal reflex in chronic spinal cord injured patients. American Paralysis Association, R. Segal, Principal Investigator; Steven L. Wolf, Co-Investigator. STATUS: Funded 3/1/90 - 2/29/92, \$60,000 per year
14. "Reducing Frailty in Elders - Two Exercise Intervention National Institute of Aging; Steven L. Wolf, Principal Investigator, STATUS: Approved for 3 years, 1990-93, \$259,000 per year.
15. 5 years Geriatric Center Grant.(VA Rehab R&D Unit, Atlanta) S.L. Wolf, Director of Musculoskeletal Section. \$1.5 million a year. 1990-95, VA Review. STATUS: Funded
16. Equipment request for FICSIT grant awarded through the Emory University Biomedical Research Support Grant Committee, 1990-91, \$5,595 STATUS: Funded
17. "Balance Training in Elderly Fallers and Non-Fallers" (with CE Coogler) VA Merit Review, \$100,000 year for each of 1 year, 1991-92, \$66,400 STATUS: Funded
18. "Down-training Human Spinal Stretch Reflexes", National Institute of Neurological Disease and Stroke, Steven L. Wolf, Principal Investigator, 3 years, 1991-94, \$180,015 direct costs year 1, STATUS: Funded
19. Age-related Changes in The Triceps Surae Stretch Reflex and Postural Control, VA Merit Review, Rehab R&D Grant, Steven L. Wolf, Principal Investigator; 18 months, 1992-94, \$111,000; continuation for Part II, 18 months, 1994-96 STATUS: Funded
20. FICSIT Collaborative Analyses, National Institute on Aging, Steven L. Wolf, Principal Investigator, 1 year, 1993-1994, \$51,000, STATUS: Funded

CURRICULUM VITA- Steven L. Wolf

21. "Spinal Circuits and the Musculoskeletal System". NCMRR-NIH, Arthur W. English(PI), Steven L.Wolf, (Co-PI), 1995-2000, \$495,000 (approximate) per annum, STATUS: Funded
22. "Establishing a research base for PROREN (Program in Restorative Neurology), Steven Wolf (Director), Krish Sathian MD, Ph.D. (Medical Director). 1995-96, \$80,000 (Rehab Medicine), \$65,000 (Neurology)
STATUS: Funded
23. "Training Rehab Scientists: A Multidisciplinary Approach" NCMRR-NIH T-32 HD07504-01, Pamela Catlin (PI), Steven L. Wolf (Co-PI), 1997, (\$1,216,109 total, \$168,219, year 01, STATUS: Funded
24. "The Effect the Tai Chi Exercise on Frail Older Subjects", Principal Investigator, Steven L. Wolf) 1R01- AG14767-01 1997-2001, \$347,778 per annum STATUS: Funded
25. Pilot study on Constraint-Induced Movement Therapy for Sub-acute Stroke Subjects in preparation for a national clinical trial application., Section on Neurology, APTA, February, 1997-August, 1998, \$6000 (funded)
26. "Biomechanical Analyses of Tai Chi Instructors during Execution of Movements and Gait" (RJ Gregor and SL Wolf, Co-PIs), VA Developmental Funds, November, 1998 – October, 1999 (\$20,000 total)
STATUS: Funded
27. Effects of low intensity strength training and androgen administration on skeletal muscle quality and functional capacity in older men, Hartford Foundation, Southeast Center of Excellence in Geriatric Medicine, (Michael O'Grady, M.D., PI), November, 1998 – October 1999, \$216,059 Status: Funded
28. "Center for Complementary and Alternative Medicine in Neurodegenerative Disorders (Mahlon R. DeLong, M.D., Director; Steven L. Wolf, Ph.D., FAPTA, Associate Director) Center on Complementary and Alternative Medicine, NIH, 1 R30 AT00610, August 2000- July 2005, \$ 7.9 million, Status: Funded
29. "Extremity Constraint-Induced Training Evaluation (EXCITE)" Steven L. Wolf, Ph.D., FAPTA, Principal Investigator; Edward Taub, Ph.D., Co- Principal Investigator, NCMRR, HD 37606-01 and NINDS, NIH, April 2000- March 2005, \$7.5 million, Status: Funded
30. Family Function Stroke Recovery and Caregiver Outcomes, (Patricia C. Clark, RN, Ph.D., PI), NINR, R01 NR07612, October 1, 2000 – September 30, 2003. \$829,930. STATUS: Funded
31. "Forced control impairments in older adults during dexterous manipulations:, J. Alberts (Principal Investigator), SL Wolf (Co-Investigator), VA Developmental Funds, November, 2000 – October, 2001 (\$20,000 total) STATUS: Funded
32. "Motor Map in Constraint Therapy for Stroke" (David Good, M.D., PI, Wake Forest University; Krish Sathian, M.D. PI, Andrew Butler, Co-PI, Emory University; Deborah Nichols, Ph.D., PT, Ohio State University); January 2002 – December 2006, NIH-NICHHD HD R01 40984-01 (\$1,878,000 total direct costs, \$232,000 year 01 direct costs to Emory). STATUS: Funded.
33. "Constraint-induced Therapy with CP Children" (Andrew Gordon, PI; SL Wolf, **Consultant**) June 2001 – May 2003, NIH-NICHHD 40961 (\$120,000 per year): STATUS: Funded.

CURRICULUM VITA- Steven L. Wolf

34. "Tai Chi for Patients with Vestibular Disorders", (David Krebs, PI; SL Wolf, **Consultant**) March 2001-February 2003, NIH-NCACM, Grant No AT 00553: (\$150,000 per year): STATUS: Funded.
35. "Constraint Therapy for Hemiplegia after Pediatric TBI", (Linda J. Michaud, M.D., PI; SL Wolf **Consultant**) January 2002 – December 2003 NIH-NICHHD, Grant No R21 HD41646 (\$110,000 direct costs): STATUS: Funded.
36. Very Early Constraint-Induced Movement Therapy: Stroke (Alex Dromerick, M.D., PI; SL Wolf, **Consultant**), 04/01/2002 - 01/31/2005, RO1 NS41261-01A1.
37. Complementary and Alternative Medicine Use in African Americans." (Bennett Lee, MD, PI; SL Wolf **Consultant**), 10/01/02- 09/30/03, EMCF Research Committee, Grady Memorial Hospital, \$23,000.
38. Air Muscle for Upper Limb Rehab in Stroke (Jay Alberts, PI, Steven Wolf, Co-PI), 4/01/04-3/31/06), NCMRR, R-21 HD 045514, \$150,000 per year, direct costs.
39. Mental Imagery to Reduce Motor Impairments in Stroke (Andrew J. Butler, Ph.D., PI; Steven L. Wolf, Ph.D., PT, co-Investigator) AT 002138 R21, NIH-NCCAM, \$125,000 (Direct Costs), October 2004-September 2006 .
40. Direct Cortical Stimulation in Patients with Stroke (Robert Gross, MD, Steven L. Wolf, Ph.D., Co-PIs at Emory University beta site), Northstar Neuroscience (Seattle), Baker study, sub-contract, \$....., October 2003 –04
41. Direct Cortical Stimulation in Patients with Stroke (Robert Gross, MD, Steven L. Wolf, Ph.D., Co-PIs at Emory University beta site), Northstar Neuroscience (Seattle), Everest study, sub-contract, \$....., October 2004-
42. Interdisciplinary Comprehensive Arm Rehab Evaluation (I-CARE) for Stroke Initiative. Carolee J. Winstein (USC), PI, Steven L. Wolf (Emory University), Co-PI, Alexander Dromerick (National Rehabilitation Hospital and Georgetown University), Co-PI; NINDS (\$12.5M), July 2006 – June 2011.
43. "Neuromechanical Determinants of Muscle Activity during Human Postural Responses" Lena Ting, Ph.D.(Ga Tech), PI, Steven L. Wolf (Emory University) Co-PI; NINDS, (\$1M), October 2006-September 2010.

Not Funded

1. Application of a Modified Forced Use Paradigm to Acutely Head Injured Patients. NIDRR, \$105,000 for each of 3 years, 1988, STATUS: Not funded
2. Voice Recognition Rehabilitation for the Speech Impaired (with K. Davey), VA Merit Review, \$104,900 for each for 2 years. 1989, STATUS: Not funded
3. "Application of a Modified Force Use Paradigm to Acute Stroke and Head-injured Patients, NIDRR: Steven L. Wolf, Principal Investigator; 3 years. STATUS: Not funded

CURRICULUM VITA- Steven L. Wolf

4. "Frailty Among African American Elders in the Southeast." Steven L. Wolf, Co-Principal Investigator, 5 years; \$199,972 year 1, STATUS: Not funded.
5. "ACTIVE: American Collaborative Trial on Interventions to Reduce Injuries Via Exercise, NIA: Steven L. Wolf, Principal Investigator, 5 years; \$1.1 million year 1, STATUS: Not funded
6. " Response to COP Feedback to Achieve Postural Control" Steven L. Wolf, Ph.D., Principal Investigator, NCMR R/NIA, 5 years; \$ 982,867, STATUS: Not Funded
7. "Exercise and Motor Control in Parkinsonism" (Jorge Juncos, Principal Investigator; Steven L. Wolf, Co- Principal Investigator) 1R01/HD/NS33159-01A1, July, 1996 (\$376,888 year 01), STATUS: Not funded
8. "Constraint Induced Extremity Movement Therapy Evaluation (EXCITE) national clinical trial", (S.L.Wolf, PI), National Center for Medical Rehabilitation Research, NICHD, 1999-2002, \$5600000, not funded
9. "Motor Map in Constraint Therapy for Stroke" (David Good, M.D., PI, Wake Forest University; Krish Sathian, M.D. PI, Emory University; Deborah Nichols, Ph.D., PT, Ohio State University); June, 2001 – June, 2005, (\$665,669 direct costs, year 01). STATUS: Not funded.
10. Biomechanical and cortical mechanisms of motor learning in healthy individuals and patients with stroke", Boris I. Prilutsky, Principal Investigator (Ga Tech); Kok-Meng Lee, Co-Investigator (GA Tech); Robert Gregor, Co-investigator, (Ga Tech); Hui Mao, Co-investigator (Emory University); Steven L. Wolf, Co-investigator (Emory University), Collaborative Research Grant, Ga Tech-Emory (Seed Grant Program), September 2001 – August 2003; (\$50,000). STATUS: Not funded.
11. Tai Chi and Fall Risk in Community Elders, (Steven L. Wolf, Ph.D., PI; Elizabeth Capezuti, Ph.D., Co-PI), National Center on Complementary and Alternative Medicine (NIH, AT001514), November 2002 – October 2006, (\$1,686,878, direct costs). Submitted, June 1, 2002; STATUS: Not funded.
12. Tai Chi and Fall Risk in Community Elders, (Steven L. Wolf, Ph.D., PI; Elizabeth Capezuti, Ph.D., Co-PI), National Center on Complementary and Alternative Medicine (NIH, AT001514), November 2003 – October 2007, (\$1,686,878, direct costs). Resubmitted, March 1,2003. Not funded.
13. Air Muscle for Upper Limb Rehab in Stroke (Jay Alberts, PI, Steven Wolf, Co-PI), 9/01/03-8/31/05), NCMRR, R-21 HD 045514, \$150,000 per year, direct costs. STATUS: Not funded (Score 180).
14. Tai Chi and Fall Risk in Community Elders, (Steven L. Wolf, Ph.D., PI; Elizabeth Capezuti, Ph.D., Co-PI), National Center on Complementary and Alternative Medicine (NIH, AT001514-01A), November 2003 – October 2007, (\$2,000,000, direct costs). STATUS: Resubmitted, March 1, 2003, Not funded (Score 210).
15. Mental Imagery to Reduce Motor Impairments in Stroke (Andrew J. Butler, Ph.D., PI; Steven L. Wolf, Ph.D., PT, co-Investigator) AT 002138 R21, NIH-NCCAM, \$125,000 (Direct Costs), March 2004-February 2006, Not funded (Score 192)

CURRICULUM VITA- Steven L. Wolf

16. Neuromechanical Adaptations to Ta Chi in Older Adults (Robert J. Gregor, Ph.D., PI) R01, NIH-NCCAM, \$250,000 (Direct Costs), March 2004 – February 2008.
17. Biomedical Research Partnership: Robotics and VE Technologies for Stroke Rehabilitation (Emilio Bizzi, MD, PI, MIT; Steven L. Wolf, Co-PI, Emory University), R01-NIH-NICHHD, R01 HD 047153, \$5,000,000 (Direct Costs), April 2004 – March 2009
18. “Diffusion tensor imaging to assess structural and functional mechanism following constraint induced therapy.” (Andrew J. Butler, Ph.D. PT, PI), American Heart Association, (SL Wolf, unpaid investigator), June 2004 – May 2005,

MEMBERSHIPS:

American Physical Therapy Association
Association of Schools of Allied Health Professions
American Association of University Professors
American Association of Anatomists, student member
Geriatrics Society of America
Society for Behavioral Kinesiology
Society for Neuroscience
Southern Society of Anatomists, student member
Scandinavian Physiological Society, 1973-1974
Sigma Xi, Scientific Research Society of North American
American Association for the Advancement of Science
American Congress of Rehabilitation Medicine, 1975-90
International Society of Electrokinesiology
Biofeedback Society of America
New York Academy of Sciences
American Academy of Clinical Neurophysiology
American Society of Neurorehabilitation

EMORY UNIVERSITY SERVICE:

School of Medicine
Library Committee (chairman, 1983-1985)
Promotions and Tenure, ad hoc (1990-2004)
Admissions Committee (2004-)

Department of Rehabilitation Medicine
Director of Research Division (1990-2003)
Advisory Board, 1997-2003
Strategic Planning Committee (2002-)

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Patricia C. Clark, PhD, RN, Sandra B. Dunbar, RN, DSN, FAAN, Dawn Aycock, RN, BSN & **Steven L. Wolf**, PhD, PT, FAPTA., Pros and Challenges of Research Collaboration with a National Clinical Trial, The Sigma Theta Tau International conference, Toronto, Canada Nov 1, 2003.

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BOOKS:

1. **Wolf SL** (ed.): Electrotherapy, Vol. 2, Clinics in Physical Therapy, Churchill Livingstone, Inc., New York, 1981.
2. **Wolf SL** (Ed): Clinical Decision Making in Physical Therapy. F.A. Davis: Philadelphia, 1983.
3. **Wolf SL**, Sandweiss J (Eds.): Biofeedback and Sports Science, Plenum Press, 1985.
4. Basmajian JV, **Wolf SL** (eds.): Therapeutic Exercise, 5th Ed., Williams and Wilkins: Baltimore, 1990.
5. Rothstein JR, Roy S, **Wolf SL:** The Handbook for Rehabilitation Specialists. FA Davis: Philadelphia, 1991; second edition, 1997.
6. Fletcher GF, Jann B, Banja J, **Wolf SL** (Eds): Rehabilitation Medicine: State of the Art, Lea & Febiger, 1992.
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9. Rothstein JR, Roy S, **Wolf SL**: The Handbook for Rehabilitation Specialists. FA Davis: Philadelphia, 1991; second edition, 1997, third edition, 2005.

BOOKS OR SPECIAL VOLUMES EDITED:

Guest editor, Special Issue on TENS, Physical Therapy, 1978.

Biofeedback Certification Item Writing Committee, Biofeedback Society of America, 1980.

Wolf SL, Editor, Vol. 5, Handbook of Physiological Feedback, Pacific Institute, Biomedical Services Division, San Francisco, 1980, pp.164.

Wolf SL(ed.) Special Issue: Management of Motor Dysfunction. Journal of Head Trauma Rehabilitation, 1990.

Wolf SL (guest ed.) Biofeedback in Rehabilitation. Physical Therapy Practice, 1993.

Wolf SL (guest ed.) Approaches to Facilitating Motor Control. Topics in Stroke Rehabilitation, Fall, 1996.

Wolf, SL, Contemporary Perspectives in Rehabilitation, (**Editor-in-Chief**), F.A. Davis; Philadelphia. Vol. 1. Thermal Agents in Rehabilitation, 1987, 1990, 1995; Vol. 2. Cardiac Rehabilitation, 1988, 1992, 1997; Vol. 3. Foot and Ankle, 1990, 1995, 2005; Vol. 4. Pharmacology, 1990, 1995, 1999, 2003; Vol. 5. Wound Healing, 1991, 1995, 1999; Vol. 6. Electrotherapy, 1992, Vol. 7. Dynamics of Human Tissue, 1992; Vol. 8. Rehabilitation of the Hand, 1992, Vol. 9. Rehabilitation of the Knee, 1993; Vol. 10. Rehabilitation for the Burned Patient, 1994; Vol. 11. Rehabilitation for Vestibular Disorders, 1994, 1999; Vol. 12. Radiology and Imaging for Physical Therapists, 1996, ed. 2, 2005; Vol. 13. Evaluation and Treatment of the Shoulder: An Integration of The Guide to Physical Therapy Practice. 2001.

Wolf SL (guest ed.) Contemporary Perspectives on Movement Disturbances, Neurology Reports, 21:69-93, 1997.

WEB SITES

(2000) www.myprofile.cos.com/wolfs32

(2001) www.excite.emory.edu (with A. Butler)

PRESENTATIONS:

U.S. Public Health Service Second Annual Meeting, San Francisco, CA, March 1968. "New pylons for immediate ambulation of lower extremity amputees".

APTA 49th Annual Conference, Las Vegas, NV, June 1972. "Controlled rapid cooling device." Discussant for paper by Ronald Bugaj, "The cooling, analgesic and rewarming effects of ice massage." In APTA, Las Vegas, NV, June 1972.

CURRICULUM VITA- Steven L. Wolf

American Association of Anatomists 86th Session, New York, NY, April 1973. "The effect of a specific cold stimulus on single motor unit control in human medial gastrocnemius muscle".

Letbetter WD, and **Wolf SL**, "Third A localized skin" presented at 49th Annual Meeting, Society for Neuroscience, San Diego, California, CA, November 1973. "Influence of intramuscular nerve branching on sensory-motor organization in spinal alpha motoneurons."

Guest lecture to first year medical students, physiology section, Karolinska Institute, Stockholm, Sweden, November 1973. "Interactions of cooling stimuli with motor activity in the neuropathologic state: a neurophysiologic approach."

Seminar sponsored jointly by Fysiologiska Institution II and Neurofysiologiska, Nobel Institution, Stockholm, Sweden, November 1973. "The effect of a specific cold stimulus on underlying gastrocnemius muscle motor activity in the decerebrate cat."

Seminar, Department of Clinical Neurophysiology, Academic Hospital, Uppsala, Sweden, April 1974. "The effect of skin cooling upon motor muscle activity and decerebrate and spinal feline preparations."

Seminar, Physical Therapy Graduate program, Emory University, Atlanta, GA. "Microelectro-neurography: possible applications to rehabilitation." January 9, 1975.

Educational programs in Department of Physical Medicine, Emory University Medical School, Atlanta, GA. (with W.D. Letbetter, Ph.D.). "Neurophysiological basis of electro diagnosis." February 11, 1975.

Guest speaker, Muscular Dystrophy Association of America, Inc., Columbus, Georgia Chapter. "Muscular dystrophy: Some current research approaches." February 19, 1975.

Tape for WRAS Radio, Atlanta, GA. "Research trends in Muscular Dystrophy," April 10, 1975, aired April 12 and 13, 1975.

Seminar, neurophysiology Labs, National Institute of Mental Health, USDHEW, Bethesda, MD, May 7, 1975, "Recent advances in microelectroneurography."

Discussant for paper by Harry Nafpliotis, "Biofeedback: A new concept of treatment in rehabilitation," presented at 52nd Annual Conference of APTA, Anaheim, CA, June 1975.

Chairman, Concurrent Scientific Session, 52nd Annual Conference of APTA, Anaheim, CA, June 1975.

"Research Advisors to P.T. Students and Clinicians," sent to all APTA Sections, State Chapters and Schools, August 19, 1975.

Guest lecturer, Georgia Chapter, APTA Augusta, GA, "Neurophysiologic rationale for the therapeutic use of cold." September 20, 1975.

Seminar (with G. DeBacher, Ph.D.) Pennsylvania Chapter, APTA, University of Pittsburgh, "Muscle biofeedback applications to physical therapy," December 1, 1975.

Seminar (with J.V. Basmajian, G. DeBacher, M. Brown), "EMG Biofeedback for the physical therapist." Georgia Chapter, APTA, Atlanta, GA, December 5, 1975.

CURRICULUM VITA- Steven L. Wolf

Organizer and Moderator of "Research Design and Applications in Physical Therapy" presented to all APTA sections at First Mid-Winter Conference of APTA, Washington, DC., February 6, 1976.

(With F. Nahai, M.D.) "Microneurographic evaluation of peripheral nerve integrity," Plastic Surgery Research Council, Denver, CO, February 3, 1976.

"Microneurographic Applications" presented to Section on Electrophysiological and Electrokinesthesiological Measurements, APTA, First Annual Combined Sections Meeting of APTA, Washington, DC., February 5, 1976.

Faculty participant, Biofeedback Workshop, Emory University, Atlanta, GA. February 20-25, 1976.

Faculty, Biofeedback Symposium, American Occupational Therapy Association, Atlanta, GA. April 7, 1976.

In-service, "Factors to consider in evaluating sensory conduction velocities," Department of Rehabilitation Medicine, Emory University, Atlanta, GA. April 15, 1976.

Ninth Annual Lecture Series on Surgery of the Upper Extremity, Virginia Commonwealth University, Medical College of Virginia, "Microneurographic evaluation of the upper extremity injury." Richmond, Va, May 21, 1976.

(With M. Brown), Biofeedback Workshop. Medical College of Virginia, Richmond, VA, May 21, 1976.

(With B. Blossom and B.J. May), "Current APTA Issues Panel," Georgia Chapter, APTA Savannah, GA, May 22, 1976.

(With G. DeBacher), Factors to consider in research applications of muscle biofeedback, Section on Research, 53rd Annual Convention, APTA, New Orleans, LA, June 27, 1976.

Chairman, Concurrent Scientific Session, National Convention, APTA, New Orleans, LA, June 30, 1976.

Discussant of paper by R. Johnston and K.H. Lee on Myofeedback, National Convention, APTA, New Orleans, LA, July 1, 1976.

(With M. Baker and E. Regenos), Biofeedback Workshop, Columbus, GA, August 28, 1976.

In-Service, Grady Memorial Hospital, Department of Rehabilitation Medicine, "Objective Measurements of Sensation in Patients with Upper Extremity Nerve Lesions," Atlanta, GA, September 9, 1976.

"The Physical Therapist as an Agent for Change: The Role of Muscle Biofeedback and Transcutaneous Nerve Stimulation," Illinois Annual APTA Meeting, Chicago, IL, October 30, 1976.

"Problem in Data Analysis of Objective Measurements of Sensation," Department of Biometry, Emory University, Atlanta, GA. November 12, 1976.

Emory University Research and Training Center Biofeedback Workshop, faculty member and clinical demonstrator, November 30 - December 3, 1976.

CURRICULUM VITA- Steven L. Wolf

"Introduction to Kinesiology" (In-service to nursing staff) Center for Rehabilitation Medicine, Emory University, Atlanta, GA. January 4, 1977.

"Grantsmanship Workshop," Coordinator and Moderator, Second Annual Combined Sections Meeting, APTA, Phoenix, AZ. February 7 and 8, 1977.

Round Table Discussion of Research Concerns in Physical Therapy Education. (For Section on Education) Second Annual Combined Sections Meeting, APTA, Phoenix, AZ, February 9, 1977.

Organizer and Chairman of Section on Research. Presentation of papers, Second Annual Combined Sections Meeting, APTA, Phoenix, AZ. February 9, 1977.

"Variables in Sensory Conduction Velocity Measurements," Section on Electrophysiological and Electrokinesthetic Measurements, Second Annual combined section meeting APTA, Phoenix February 1, 1977.

"Objective Measurements of Sensation in the Hand," Fifth Annual Instructional Course on the Sensational Hand, Emory University, Atlanta, GA. February 17, 1977.

"Factors to Consider in Selecting Instrumentation for Measuring Sensory Thresholds." (With B Cohen), AAMI, 12th Annual Meeting and Exhibit Program, San Francisco, CA. March 12, 1977.

Moderator for "The Total Case of the Total Hip Patient," (presented by J.R. Deandrade), Second Dogwood Festival, Atlanta, GA. April 2, 1977.

"Transcutaneous Electrical Stimulation: Possible Mechanism and Modes of Action," Second Annual Dogwood Festival Conference, Atlanta, GA. April 3, 1977.

"Factors to Consider in Performing Clinical Conduction of Velocity Measurements," Northside Hospital, Department of Physical Therapy, Atlanta, GA. April 11, 1977.

Workshop on Muscle Biofeedback, Georgia State University, Atlanta, GA., April 11-17, 1977.

Workshop on Muscle Biofeedback (with M. Brown), Virginia Chapter, APTA, Richmond, VA, May 1, 1977.

"Basic Concepts in EMG Biofeedback," at Seminar "Current Concepts in Electrodiagnosis," Emory University School of Medicine, Department of Rehabilitation Medicine, Atlanta, GA, May 13, 1977

Workshop on Muscle Biofeedback (with G. DeBacher and M. Brown), Cleveland State University, Cleveland, OH, May 31, 1977.

Coordinator and director of "Signal Processing Seminar," combined SOR-SEEM Presentation, St. Louis, MO. June 29, 1977.

"Biofeedback as a Teaching Method in Physical Therapy," National Annual Conference, APTA, St. Louis, MO, June 29, 1977.

"Assessment of Paraspinal Electromyographic Activity in Normal Subjects and Chronic Back Pain Patients Using a Muscle Biofeedback Device," (With J.V. Basmajian), Sixth International Congress of Biomechanics, Copenhagen, Denmark, July 11, 1977.

CURRICULUM VITA- Steven L. Wolf

"Kinesiology and Anatomy of the Lower Extremity," at Workshop on EMG for the Podiatrist, Emory University Department of Rehabilitation Medicine, Atlanta, GA. August 26, 1977.

Organizer and presenter of Emory University Clinical Biofeedback Workshop, Emory University School of Medicine, Atlanta, GA. October 26-29, 1977.

"Proposed Modes of Action of TENS and Modification of Pain Perception," (with M. Roth), American Congress of Rehabilitation Medicine, Miami, FL, October 31, 1977.

"EMG Biofeedback and Its Applicability to Clinical Research Design," South Carolina Chapter, APTA, Myrtle Beach, SC, November 12, 1977.

Organizer, "Advanced Grantsmanship Workshop," Section on Research, APTA Mid-Year Meeting, Orlando, FL. February 6-07, 1978.

Organizer, Workshop on "Research Competencies in Physical Therapy, Section on Research, APTA Midyear Meeting, Orlando, FL. February 7-8, 1978.

"Self-assessment Quiz in EMG Biofeedback," SEEM, APTA Midyear Meeting, Orlando, FL. February 9, 1978.

(With M Baker and E Regenos), EMG Biofeedback Workshop LaFayette, La. February 25, 1978.

Organizer and presenter, "Research Design and Applications in EMG Biofeedback," Society for Behavioral Kinesiology, Annual Meeting, Atlanta, GA. March 1, 1978.

EMG Biofeedback Workshop and Lectures. Traveling Lecturer, sponsored by Med General Company, San Francisco, Ca, March 15-16, 1978.

"Biofeedback: Myth or Fact," Today in Georgia, WSB-TV, Atlanta, GA. March 23, 1978.

"Perspective and Applications in EMG Biofeedback," South New Jersey Chapter, APTA, Randolph, NJ, March 25, 1978.

"Anatomy and Physiology of Therapeutic Exercise," in "Seminar on Therapeutic Exercise", Maryland Chapter, APTA, Silver Springs, MD, March 31, 1978.

(With M Baker), Biofeedback Workshop, University of Florida, Gainesville, FL. April 15, 1978.

Organizer and Director, Emory University Clinical Biofeedback Course, Emory University School of Medicine, Atlanta, GA. April 25-28, 1978.

"Uses of EMG Biofeedback in Therapeutic Exercise," New Jersey Annual APTA Meeting, Piscataway, NJ, April 29, 1978.

"Mobility and EMG Assessment in Chronic Low Back Pain," State Second Annual Pain Symposium, Emory University, Atlanta, GA. May 4, 1978.

Biofeedback Workshop, Dallas, TX. May 5-6, 1978.

CURRICULUM VITA- Steven L. Wolf

Biofeedback Workshop, Birmingham, AL. May 20, 1978.

"Receptive Aphasia and EMG Biofeedback, Georgia Aphasia Society, Atlanta, GA. June 1, 1978.

Objective Determinants of Sensory Return in the injured Hand," Sixth Annual Hand Symposium, Emory University, Atlanta, GA. June 4, 1978.

"EMG Biofeedback Strategies in Hemiplegia," Annual Meeting of APTA Association, Las Vegas, NV, June 18, 1978.

(With T Okamoto), "A Method for Underwater Recording of Electromyographic Activity Using Fine-Wire Electrodes," International Congress of Sports Sciences, Edmonton, Alberta, Canada, July 25, 1978.

(With SF Brena, S Chapman, and W Hammond), "Chronic Back Pain: Electromyographic, Motion and Behavioral Assessments Following Sympathetic Nerve Blocks and Placebos." Second World Congress on Pain. Montreal, Quebec, Canada, August 27, 1978.

Biofeedback Symposium, Autogenics Systems, Inc. San Francisco, Ca. September 25-30, 1978.

Director, EMG Biofeedback Training Course, Emory University Regional Rehabilitation Research and Training Center, Atlanta, GA. October 24-27, 1978.

"Assessing and Documenting EMG Biofeedback Training," presented at Georgia APTA Meeting, Unicoi, GA. October 29, 1978.

"EMG Biofeedback Applications in Physical Therapy," presented to Connecticut Chapter, APTA, Meridian CT, November 4, 1978.

(With E Regenos, MP Baker, JL Kelly and JB Edwards) "EMG Biofeedback Training Strategies for the Upper Extremities of Stroke Patients," (Poster Session), American Congress of Rehabilitation Medicine, New Orleans, La. November 15, 1978.

(With SF Brena, S Chapman, and W Hammonds), "Chronic Back Pain: Electromyographic Motion and Behavioral Assessments Following Sympathetic Nerve Blocks and Placebos", American Congress of Rehabilitation Medicine, New Orleans, La. November 16, 1978.

Neurophysiological mechanisms in TENS. TENS Workshop (SL Wolf, MG Gersh, VR Rao, coordinators). Dept. of Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA. 1979.

"Biofeedback Applications in Stroke", Friendship House, Moscow, USSR March 16, 1979.

"EMG Biofeedback: An Overview", Institute for Physiotherapy Research and Spa Treatment. Yerevan, Armenia, USSR. March 20, 1979.

"Biofeedback in Neurological Disorders", Institute for Physiotherapy and Spa Treatment. Yerevan, Armenia, USSR. March 21, 1979.

"An Overview of EMG Biofeedback", Institute and Polyclinic for Physiotherapy. Baku, USSR, March 23, 1979.

CURRICULUM VITA- Steven L. Wolf

"EMG Biofeedback Applications", Institute for Balneology and Physiotherapy Research, Moscow, USSR. March 26, 1979.

"A Comprehensive Approach to Management of Chronic Pain", Southern District, Maryland Chapter, APTA Silver Spring, MD, March 28, 1979.

"Transcutaneous Electrical Nerve Stimulation", Annual meeting of Emory Medical Student Association. Symposium on Pain. Emory University School of Medicine, Atlanta, GA. April 7, 1979.

"Research Design in the Clinic", Department of Occupational Therapy, Center for Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA. April 10, 1979.

(With M Watkins and D Boone) "Reporting Clinical Experiences: A Step Toward Professional Accountability", American Physical Therapy Association Annual Conference, Atlanta, GA. June 1979.

"Biofeedback Applications in Rehabilitation Medicine", Physical Therapy Department, Center for Rehabilitation Medicine Emory University School of Medicine, Atlanta, GA. July 1979.

(With J Kelly and MP Baker) "EMG Biofeedback Workshop", Chicago Institute of Rehabilitation, Chicago, IL, November 8-9, 1979.

"Applications of Biofeedback in Neuromuscular Disorders", North Carolina Academy of Family Physicians. Raleigh, NC, November 30, 1979.

Newsmaker Line "Biofeedback Application in Stroke", WGST Radio, Atlanta, GA. December 10, 1979.

"An Overview of Biofeedback Application in Rehabilitation", Massachusetts General Hospital, Boston, MA. December 20, 1979.

"Value of Biofeedback Training for Rehabilitation Counselors", Nevada Rehabilitation Association, Reno, NV, January 17, 1980.

(With CE Coogler and E Wilder) "Physiotherapy in the Soviet Union", Georgia Chapter, APTA, Atlanta, GA. January 18, 1980.

"A Layman's View of Biofeedback", Atlanta Jewish Community Center, Atlanta, GA. February 26, 1980.

"Biofeedback in Neuromuscular Reeducation: Perspectives on Current Clinical Applications", Biofeedback Society of America, Colorado Springs, CO. March 12, 1980.

(With P Fair) "Biofeedback Applications in Physical Rehabilitation", Biofeedback Society of America, Colorado Springs, CO. March 13, 1980.

(With M Gersh and V Rao) "TENS Workshop: Principles and Applications for the Clinician", Department Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA. March 14-16, 1980.

"Biofeedback Applications in Low Back Disorders", Oregon Biofeedback Society, Portland, OR. April 12, 1980.

CURRICULUM VITA- Steven L. Wolf

"TENS: Review of Potential Mechanisms and Clinical Applications", Fifth Annual Dogwood Festival Conference, Atlanta, GA. April 13, 1980.

(With P Fair and M Nacht) Biofeedback Applications. Florida Vocational Rehabilitation Counselors, Tampa, FL. April 16-17, 1980.

(With M Nacht) Biofeedback Applications to Spinal Cord Injured Patients. Shepherd Spinal Center, Atlanta, GA. April 15 and 22, 1980.

(With J Kelly) EMG Biofeedback Workshop. Arizona Chapter APTA, Flagstaff, AZ. April 19-20, 1980.

Biofeedback Training Course (director) Emory University Research and Training Center, Emory University School of Medicine, Atlanta, GA. April 24-16, 1980.

"An Overview of Biofeedback in Stroke." College of Physicians and Surgeons, Columbia University School of Medicine, New York, NY, May 1, 1980.

Discussant at Workshop, "Biofeedback: Clinical Efficacy, Mechanisms and New Developments", Health Sciences Center, State University of New York at Stony Brook; Stony Brook, Long Island, NY, May 14-18, 1980.

"Biofeedback in Neuromuscular Retraining: Follow-up Studies", Annual Conference, APTA, Phoenix, AZ, June 18, 1980.

"Biofeedback: A Program for Financial Reimbursement in Physical Therapy." Annual Conference, APTA, Phoenix, AZ, June 18, 1980.

"The Meaning of Biofeedback", B'nai B'rith, Atlanta, GA. June 16, 1980.

(With SA Binder) Biofeedback Workshop. Good Samaritan Hospital, Cincinnati, OH. June 28-29, 1980.

"Assessing the Efficacy of Electromyographic Biofeedback in the Treatment of Neuromuscular Disorders", SL Wolf P.L. Fair, Twenty-second International Congress of Psychology, Leipzig, East Germany. July 6-12, 1980.

"Biofeedback Application in Spinal Cord Injury", Biofeedback Workshop, Schwab Medical Center, Chicago, IL. July 19, 1980.

Eighth Congress of International Federation of Physical Medicine and Rehabilitation, "Relationship Between Electromyographic Activity and Functional Changes Using EMG Biofeedback to Treat Chronic Stroke Patients", Stockholm, Sweden, August 25, 1980.

Journal Club, Department of Rehabilitation Medicine, "One-year Follow-up on the Effects of EMG Biofeedback on Stroke Patients." Atlanta, GA. August 27, 1980.

Neurology Grand-Round, Emory University School of Medicine, "Use of Biofeedback in Pain Control, " Atlanta, GA. August 29, 1980.

"Biofeedback Applications and Their Meaning for Social Workers", Division of Social Work, Center for Rehabilitation Medicine, Emory University, September 18, 1980.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, Research in Electromyographic Feedback. University of Pennsylvania Research Seminar Series, Philadelphia, PA, January 21, 1981.

"Biofeedback Applications for Physical Therapists", St. Mary's Hospital, Athens, GA. January 24, 1981.

(With M Gersh and V Rao) "Grant Concepts in Pain Management Utilizing TENS", Chicago Institute of Rehabilitation, Chicago, IL, February 2-3, 1981.

Wolf SL, Special Methods of Management: Surgery, Acupuncture, Biofeedback and Pain Rehabilitation, Workshops on Rehabilitation Orthopedic and Operating Room Nursing, Center for Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA. March 7, 1981.

Wolf SL, Feedback in Physical Rehabilitation. Update in Electrotherapy Workshop, Southeastern District of the Pennsylvania Physical Therapy Association, Philadelphia, PA. March 15, 1981.

Wolf SL, "Biofeedback Applications to Chronic Low Back Pain Patients During Dynamic Movements", Biofeedback Society of America, Louisville, KY. March 16, 1981.

(With P Fair) Biofeedback in Physical Rehabilitation Workshop, Biofeedback Society of America, Louisville, KY, March 18, 1981.

Wolf SL, Biofeedback in Hand Rehabilitation. Workshop for American Society for Surgery of the Hand. Philadelphia, PA. March 25-27, 1981.

Wolf SL, Recent Advances in Positional and Electromyographic Feedback in the Management of the Upper Extremity Disorders. Workshop for American Society for Surgery of the Hand. Philadelphia, PA. March 28, 1981.

Wolf SL, "Biofeedback Applications in Musculoskeletal Disorder", Dogwood Sports Medicine Conference, Atlanta, GA. April 4, 1981.

Director, Emory University Research and Training Center Biofeedback Workshop, Atlanta, GA. April 22-24, 1981.

(With M Nacht) EMG Biofeedback Workshop, Ohio State University, Columbus, OH. May 2-3, 1981.

Wolf SL, "Biofeedback Applications. An Update on Stroke: Diagnosis, Prevention and Management", Lutheran General Hospital, Park Ridge, IL, May 6, 1981.

Wolf SL, "Biofeedback Applications in Stroke and Spinal Cord Injury", Schwab Medical Center, Chicago, IL, May 7, 1981.

Wolf SL, "Use of TENS to Alleviate Pain from Peripheral Nerve Injury", Georgia APTA, Savannah, GA. May 10, 1981.

Wolf SL, "Statistical Designs and Problems of Data Analysis in EMG Biofeedback Research", Biometry Department, Emory University School of Medicine, Atlanta, GA. May 19, 1981.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "Biofeedback Applications in Rehabilitation Medicine", McMaster University, Hamilton, Ontario Canada, May 28-29, 1981.

(With J Kelly and M Nacht) "Principles and Applications of Biofeedback for Physiotherapists", Canadian Physical Therapy Association, Quebec City, Quebec, May 31, June 1-2, 1981.

Wolf SL, "Electrode placements and stimulating parameters for TENS Applications to Chronic Pain Patients", Canadian Physical Therapy Association, Quebec City, Quebec, June 5, 1981.

Wolf SL, Open Forum: A Multi-Disciplinary Assessment of Pain Management. American Physical Therapy Association, June 28, 1981.

Wolf SL, "Is there a Neurophysiological Rationale for the Efficacy of TENS or Electroacupuncture in Therapeutic Electromodulation of Pain: Does It Really Work?", APTA, Washington, DC, June 29, 1981.

Binder SA, **Wolf SL**, "Use of a Portable Transducer to Objectively Analyze Temporal and Force Components of the Gait Cycle", APTA, Washington, DC. July 1981.

Wolf SL, "Biofeedback Applications to Patients With Spinal Cord Injury", Georgia State University, School of Physical Therapy, Atlanta, GA. July 28, 1981.

Wolf SL, "Overview of Biofeedback Applications in Physical Rehabilitation", Patricia Neal Rehabilitation Center, Fort Sanders Hospital, Knoxville, TN, August 29, 1981.

Wolf SL, "The Use of Feedback Applications in the Treatment of Chronic Pain and Stress", Kettering Medical Center, Dayton, OH, September 16, 1981.

Wolf SL, Workshop on low back examination and feedback applications. Kettering Medical Center, Dayton, OH, September 16-17, 1981.

Wolf SL, Biofeedback workshop for physical therapists. Kentucky Chapter, APTA, Louisville, KY. September 26-27, 1981.

Wolf SL, "The Role of Biofeedback in the Rehabilitation Process", Rehabilitation: State of the Art. (Symposium), St. Louis University, St. Louis, MO. October 1, 1981.

Wolf SL, "Biofeedback Principles for Physical Therapists", St. Louis University, School of Physical Therapy, St. Louis, MO. October 1, 1981.

Wolf SL, "Comprehensive Evaluation and Feedback Applications to Chronic Back Pain Patients", American Congress of Rehabilitation Medicine, San Diego, Ca. November 5, 1981.

(With P Fair) Workshop on Behavioral Medicine. Applications in Rehabilitation, Biofeedback Society of America, Orlando, FL. November 7-9, 1981.

Wolf SL, "Principles of EMG biofeedback", The Institute of Electrical and Electronics Engineers, Atlanta Section, Emory University School of Medicine, Atlanta, GA. November 12, 1981.

Director, Behavioral Medicine Applications in Rehabilitation: A Biofeedback-Oriented Workshop, Emory University Regional Rehabilitation Research and Training Center, Atlanta, GA. November 18-21, 1981.

CURRICULUM VITA- Steven L. Wolf

(With P Fair and M van Lunteren) Biofeedback workshop for rehabilitation personnel. Harmarville Rehabilitation Center, Pittsburgh, PA. December 4-6, 1981.

Workshop on Principles of the Research Process, Eastern Michigan Chapter APTA, Detroit, MI. February 5-6, 1982.

Wolf SL, "Quantification of Electromyographic Data: Effects of Electrode Placement and Filtering Characteristics", First Eugene Michels Research Forum. Section on Research, APTA, Annual Mid-Year Conference, San Diego, CA. February 14, 1982.

Biofeedback Workshop (with M van Lunteren) Mercy Hospital, Miami, Florida, February 26-28, 1982.

(With F Keefe and A Block) Symposium on efficacy and mechanisms of biofeedback applications to chronic pain patients. Thirteenth Annual Meeting, Biofeedback Society of America, Chicago, IL. March 7, 1982.

(With P Fair) Biofeedback Applications in Rehabilitation Workshop. Thirteenth Annual Meeting, Biofeedback Society of America, Chicago, IL. March 9, 1982.

Wolf SL, "Clinical Assessment of Sensory-motor Integration Using Feedback Among Hemiplegic Patients", Fifth Annual Spring Conference in the Movement Sciences, Columbia University, New NY, March 16, 1982.

Wolf SL, "EMG Biofeedback for Chronic Low Back Pain", Seventh Annual Dogwood Conference, Atlanta, GA. April 4, 1982.

Wolf SL, "Efficacy of Feedback in The Treatment of The Upper Extremity in Chronic Stroke Patients", Fourth International Rehabilitation Medicine Association Conference, San Juan, P.R. April 21, 1982.

Wolf SL, Keynote Address: "Toward an Understanding of Chronic Pain", presented to Biofeedback Society of Florida, Orlando, FL. April 30, 1982.

Wolf SL, "Biofeedback and its relevance to rehabilitation (workshop)", Biofeedback Society of Florida, Orlando, FL. May 1, 1982.

Wolf SL, "Use of EMG Biofeedback to Treat Chronic Low Back Pain: An Application During Dynamic Movements", Eastern Pain Society, University North Carolina, Chapel Hill, NC. May 5, 1982.

Wolf SL, "Development of Research Protocols for Control Clinical Studies", Pennsylvania Physical Therapy Association Conference, Champion, PA. May 8, 1982.

Wolf SL, "Mode of Action of TENS and The Importance of Stimulating Parameters and Electrode Placements With Respect to Special Diseases", Pennsylvania Physical Therapy Association Conference, Champion, PA. May 9, 1982.

Wolf SL, (Course Director) Biofeedback Clinical Internship. Emory University Regional Rehabilitation Research and Training Center, Atlanta, GA. May 10-14, 1982.

Wolf SL, "Effect of Stimulating Parameters and Electrode Placements on Treatment Outcomes Using Conventional TENS", World Confederation for Physical Therapy, Stockholm, Sweden. May 27, 1982.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "Basic Principles of Feedback for Remediation of Stroke", Karolinska Hospital, Stockholm, Sweden, June 1, 1982.

Wolf SL, "Non-pharmaceutical Techniques of Pain Management", Seventh Pan-American Congress of Rheumatology, Washington, DC. June 10, 1982.

Wolf SL, (With S Binder-Macleod and M van Lunteren). Biofeedback Workshop for physical therapists, Texas Woman's University, Houston, TX. July 16-18, 1982.

Wolf SL, "An Overview of Biofeedback Instrumentation and Applications in Physical Rehabilitation", sponsored by Cordis Corporation, Tampa, FL. August 28, 1982.

Wolf SL, "Use of EMG Biofeedback to Ameliorate Low Back Pain", First National Pain Symposium, Indianapolis, IN. September 13, 1982.

Wolf SL, Workshop for biofeedback applications to chronic pain patients. First National Pain Symposium, Indianapolis, IN. September 14, 1982.

Wolf SL, In-service on EMG biofeedback application to neurological patients. Community Hospital of Indianapolis, Indianapolis, IN. September 15, 1982.

Wolf SL, (Keynote Speaker). "A Review of Neurophysiological Principles Underlying Modulation of Pain", Rhode Island Hospital, Providence, RI. October 7, 1982.

Wolf SL, Biofeedback workshop for neuromuscular reeducation. Harmarville Rehabilitation Center, Pittsburgh, PA. October 8-9, 1982.

Wolf SL, Participant in biofeedback symposium panel. American Congress of Rehabilitation Medicine, Houston, TX. November 1, 1982.

Wolf SL, "An Overview of Biofeedback in Rehabilitation", Biofeedback in Rehabilitation Medicine, Royal Ottawa Regional Rehabilitation Center, Ottawa, Ontario Canada. November 12, 1982

Wolf SL, "Biofeedback Strategies for Upper Extremity Rehabilitation", Biofeedback in Rehabilitation Medicine, Royal Ottawa Regional Rehabilitation Center, Ottawa, Ontario, Canada. November 12, 1982.

Wolf SL, "EMG Biofeedback - Theory and Clinical Practicum", Private Practice Special Interest Group, New Jersey APTA, Edison, NJ. November 13-14, 1982.

Wolf SL, "Effects of Electrical Stimulation on Muscle Strength and Endurance", Sports Medicine Council, US Olympic Committee, Colorado Springs, CO. December 11, 1982.

Wolf SL, (Workshop) Uses of TENS in rehabilitation. Physical Therapy Association of Georgia, Stone Mountain, GA. January 23-24, 1983.

Wolf SL, "Applications of TENS for Labor and Post Operative Pain", Association of Obstetrical Nurses, DeKalb General Hospital, Atlanta, GA. February 23, 1982.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "How to Initiate Clinical Research in a Physical Therapy Setting", Athens General Hospital, Athens, GA. March 9, 1983.

Wolf SL, "Biomechanical and Neuromuscular Evaluations of Elite Archers", US Olympic Committee, Sports Medicine Council, Tempe, AZ. March 15, 1983.

Wolf SL, "Quantification of EMG and the Effectiveness of Specific Filtering", Biofeedback Society of America Annual Meeting, Electromyography Symposium, Denver, CO, March 19, 1983.

Wolf SL, (Workshop) Biofeedback applications in physical rehabilitation. Biofeedback Society of America Annual Meeting, Denver, CO. March 20, 1983.

Wolf SL, (With SA Binder-Macleod) Biofeedback applications in physical therapy workshop. Mobile Area Physical Therapy Organization, Mobile, AL. April 8-10, 1983.

Wolf SL, Biofeedback Applications in Rehabilitation Workshop, Hyperion Corp., Miami, FL. April 14-16, 1983.

Wolf SL, "EMG Biofeedback Instrumentation Application to Musculoskeletal and Neuromuscular Patients", Ohio Chapter, Inc., APTA, Columbus, OH. April 23, 1983.

Wolf SL, "Outcome Studies on EMG Biofeedback Application to Stroke Patients", Department Physical Medicine and Rehabilitation, Mayo Clinic, Rochester, MN. May 2, 1983.

Participant, Committee on Future Medical Research Priorities; National Institute of Handicapped Research, Bethesda, MD. June 6-7, 1983.

Wolf SL, "Contemporary Concepts of Neural Plasticity", Georgia Baptist Hospital, Atlanta, GA. June 21, 1983.

Commencement Speaker, certificate physical therapy class of 1983, Emory University Department of Community Health Science, Atlanta, GA. June 26, 1983.

Wolf SL, (Workshop) Contemporary Applications of Biofeedback in Rehabilitation, Biofeedback Society of Washington, Seattle, WA. September 10-11, 1983.

Wolf SL, "An Overview of Biofeedback Uses in Physical Rehabilitation", Baptist Memorial Hospital, Memphis, TN. October 7, 1983.

Wolf SL, "Neuromuscular Characteristics Predicting Successful Intervention of EMG Biofeedback for Chronic Stroke Patients: Functional Upper Extremity Changes", American Congress of Rehabilitation Medicine, Los Angeles, CA. November 8, 1983.

Wolf SL, (Workshop) Contemporary modalities for alleviation of pain. Sunnyview Rehabilitation Hospital, Schenectady, NY. November 10-11, 1983.

Wolf SL, Biofeedback Applications for Patients with Chronic Low Back Pain. First Annual Meeting, Biofeedback Regional Association of Southeastern States, Atlanta, GA. November 13, 1983.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, (Workshop with D Edwards) Biofeedback applications in behavioral medicine and rehabilitation. Roosevelt Foundation, Warm Springs, GA. December 19-20, 1983.

Wolf SL, (Workshop with D Edwards) Biofeedback applications for physical therapists. Canadian Physiotherapy Association, Nova Scotia, Canada. January 25-28, 1984.

Wolf SL, "Biofeedback: Applications in Rehabilitation", Sponsored by Curative Rehabilitation Center, Madison, WI. February 11, 1984.

Wolf SL, (Workshop) Biofeedback Approaches to Rehabilitation Clients, Hartje Clinic, Jacksonville, FL. February 24-25, 1984.

Wolf SL, "Electromyographic Feedback Applications to Neurologic Patients: Fact or Fallacy", Anatomy Seminar, Emory University School of Medicine, Atlanta, GA. March 14, 1984.

Wolf SL, (Workshop) Advanced Applications of Biofeedback in Rehabilitation. Biofeedback Society of America annual meeting, Albuquerque, NM. March 24, 1984.

Wolf SL, (Workshop) Principles of Biofeedback Treatment in Physical Rehabilitation. Michigan Biofeedback Society, Ann Arbor, MI. April 28, 1984.

Wolf SL, "Neural Mechanisms Underlying the Use of Transcutaneous Electrical Nerve Stimulation", South Alabama Physical Therapy Association, Mobile, AL. May 25, 1984.

Wolf SL, "The Future Direction of Physical Therapy Practice", commencement speech to graduating physical therapy students. Georgia State University, Atlanta, GA. June 7, 1984.

Wolf SL, "The Application of Biofeedback to Improve Athletic Performance", Conference; Sports Medicine in the Eighties, Canadian Physiotherapy Association, Ottawa, Ontario, Canada, June 11, 1984.

Wolf SL, Workshop (with Lori Shutter) Biofeedback applications for physical therapists. Jackson Memorial Hospital, Miami, FL. June 29-30, 1984.

Wolf SL, "Modality and Behavioral Intervention in the Treatment of Low Back Pain", New Scientific Approaches in the Management of Low Back Pain Symposium, Chicago, IL. September 29, 1984.

Wolf SL, "Biofeedback Applications for Patients with Musculoskeletal and Neuromuscular Disorders", Symposium: Biofeedback and Behavioral Health, Washington, DC. October 26-27, 1984.

Wolf SL, "Enhancing Functional Behavior Among Neurological Patients Using Sensory Feedback Therapy", Introduction to Human Behavioral Neuroscience Seminar, Emory University School of Medicine, Atlanta, GA. March 21, 1985.

Wolf SL, (Workshop) Advanced Concepts of Biofeedback Applications in Physical Rehabilitation, Sixteenth Annual Meeting, Biofeedback Society of America, New Orleans, LA. April 13, 1985.

Wolf SL, "Pain Mechanisms and Modulation", Georgia State University; Physical Therapy Program, Atlanta, GA. April 24, 1985.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, (with D Edwards) "Biofeedback in the Clinical Rehabilitation Setting", Moss Rehabilitation Hospital, Philadelphia, PA. May 3-4, 1985.

Wolf SL, "Concurrent Assessment of Muscle Activity: A New Approach to Treatment Evaluation", Montreal Rehabilitation Hospital, Montreal, Quebec, Canada. May 13, 1985.

Wolf SL, "Improving Hemiparetic Upper Extremity Function Through Forced Use and Motor Copy Procedures", Montreal Rehabilitation Hospital, Montreal, Quebec, Canada. May 14, 1985.

Wolf SL, "Biofeedback to Enhance Athletic Performance", Zinman College of Physical Education, Wingate Institute, Netanya, Israel, May 19, 1985.

Wolf SL, "Biofeedback Application for Chronic Rehabilitation Patients", Beth Loewenstein Rehabilitation Hospital, Tel Aviv, Israel. May 27, 1985.

Wolf SL, "Concurrent Assessment of Muscle Activity (CAMA)", Annual Meeting of the APTA, New Orleans, LA, June 19, 1985.

Wolf SL, "Innovative Approaches in Physical Rehabilitation of Stroke Patients", Stroke management update symposium, Memorial Medical Center of Jacksonville, Jacksonville, FL. June 26, 1985.

(With LA Shutter) Biofeedback: Assessment and application in neuromuscular retraining. St. John's Rehabilitation and Health Care Center, Lauderdale Lakes, FL. August 3-4, 1985.

Wolf SL, "Examining Neurophysiological Mechanisms and Treatment of Pain Modulation", Florida chapter, APTA, Orlando, FL. September 20-21, 1985.

Wolf SL, "Contemporary Perspectives on Biofeedback Applications for Stroke Patients", In Stroke-Update -1985 Symposium. American Academy of Rehabilitation Medicine annual meeting, Kansas City, MO. October 2, 1985.

Wolf SL, "Functional Electrical Stimulation", Tennessee Chapter, APTA, Knoxville, TN. November 8, 1985.

(With B Brown and AW English) "A Cadaveric Review of Functional Anatomy", Rehabilitation Nursing Association annual conference, Atlanta, GA. November 13, 1985.

(With DI Edwards) "Assessment of Muscle Activity During Application of Neuromuscular Retraining Procedures", Woodrow Wilson Rehabilitation Center, Fischerville, VA. November 16-17, 1985.

(With P Vine, D Edwards, and L Shutter) "Online Assessment of Physical Therapy Applications to Stroke Patients", Stroke Rehabilitation: Clinical Trends and Controversial Issues Conference, Department of Rehabilitation Medicine, Emory University, Atlanta, GA. December 13, 1985.

Wolf SL, "Overcoming the 'Learned Disuse' Phenomenon Through Forced Use", Stroke Rehabilitation: Clinical Trends and Controversial Issues Conference, Department of Rehabilitation Medicine, Emory University, Atlanta, GA. December 14, 1985.

(With DI Edwards and LA Shutter) "Contemporary Instrumentation in Biofeedback Applications for Physical Therapists", Workshop for Physical Therapy Association of Georgia, Inc., Atlanta, GA. January 18, 1986.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "Non-Physician Scientists and Clinicians in Rehabilitation Research", Paper read by J.V. Basmajian, M.D., Fifth World Congress International Rehabilitation Medicine Assoc., First Session: Rehabilitation-Research or Atrophy, February, 1986.

Wolf SL, "An Overview of Muscle Biofeedback in Rehabilitation", Senior class science course, Stone Mountain High School, Stone Mountain, GA. February 7, 1986.

Wolf SL, Biofeedback Applications for Patients with Musculoskeletal and Neuromuscular Disorders workshop, Biofeedback Society of American annual meeting, San Francisco, CA. March 22, 1986.

Wolf SL, "The Application of a Forced Use Paradigm to Chronic Head Injured and Stroke Patients. Symposium on Overcoming 'Learned Non-use'", Biofeedback Society of America annual meeting, San Francisco, CA. March 23, 1986.

Wolf SL, "The Application of Forced Use Treatment to Traumatic Head Injured Patients", Gwinnett General Hospital Head Injury Conference, Lawrenceville, GA. April 1, 1986.

Wolf SL, "Enhancing Functional Behavior Among Neurological Patients Using Sensory Feedback Theory", Introduction to Human Behavioral Neuroscience course, Emory University School of Medicine, Atlanta, GA. April 2, 1986.

Altering treatment by on-line assessment of muscle responses. Workshop for Colorado Chapter, APTA, Silver Creek, CO. May 17-18, 1986.

(With DI Edwards) Use of Hyperion biofeedback machine. Workshop for occupational therapists, Center for Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA. May 29 and June 5, 1986.

Wolf SL, "Electrical stimulation update", Annual meeting APTA, Chicago, IL. June 9, 1986.

Wolf SL, "Biofeedback: Assessment and Application Workshop for Rehabilitation Specialists", New England Medical Center, Boston, MA. June 26-27, 1986.

Wolf SL, Biofeedback, Electrotherapy/Electrophysiology workshop for physical therapy educators. Marquette University, Milwaukee, WI. August 1, 1986.

Wolf SL, "An Overview of neuromuscular stimulation", North Carolina Chapter of APTA, Williamsburg, VA. October 9, 1986.

Wolf SL, "Future Research Needs of Physical Therapists", Student Conclave of the APTA, Eagle Rock, GA. October 18, 1986.

(With E Taub and J Melvin) Seminar: "Contemporary Approaches to Diagnosis and Treatment of Neurological Impairment and Application of Forced Use Treatment Technique", American Congress of Rehabilitation Medicine, Baltimore, MD. October 22, 1986.

(With S Sarhmann) Clinically Relevant Quantification of Muscle Activity workshop for the Utah Chapter of the APTA, Snowbird, UT. December 6-7, 1986.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "An Overview of Biofeedback Application in Rehabilitation", Josef Kajfes Hospital, Zagreb, Yugoslavia, December 16, 1986.

Wolf SL, "Predicting Outcome for Biofeedback Interventions to Stroke Patients", University of Gothenburg, Department of Rehabilitation Medicine, Gothenburg, Sweden. April 23, 1987.

Workshop on Introduction to EMG Feedback Applications, School of Physical Therapy, Gothenburg University, Gothenburg, Sweden. April 24, 1987.

Wolf SL, "Use of Instrumentation of Improve Rehabilitation of Patients with Musculoskeletal and Neuromuscular Problem", Open Lecture, University of Umea, Sweden, May 11, 1987.

(With L Wolf) "Treatment Alternatives for THI Patients: Transitional Facilities", Department of Rehabilitation Medicine, Gothenburg University, Gothenburg, Sweden, May 13, 1987.

Wolf SL, "Research: Bet You Didn't Know You Were Doing it Already?" South Carolina Chapter, APTA, Myrtle Beach, SC. May 29, 1987.

EMG Biofeedback Application Workshop, Pennsylvania Society of Behavioral Medicine and Biofeedback, Philadelphia, PA. June 6, 1987.

Wolf SL, "Developing Strategies for Feedback Applications in Rehabilitation", The STENS Corporation, Atlanta, GA. June 9, 1987.

Wolf SL, "A Critical Look at Clinical Efficacy of Biofeedback Applications in Rehabilitation", Annual Conference of the APTA, San Antonio, TX. June 28, 1987.

Wolf SL, "Use of Audiovisual Neuromuscular Reeducation to Enhance Function In Spinal Cord Injured Patients. Lucerne Spinal Center, Orlando, FL. July 25, 1987.

Wolf SL, The Use of Cyrotherapy to Reduce Spasticity and Enhance Muscle Function. Course on Physical Agents for Physical Therapy Educator, Hahnemann Medical Center. August 2, 1987.

(Workshop) Biofeedback Applications in Rehabilitation sponsored by Tufts and Emory Medical Research and Training Center, Boston, MA. September 21-22, 1987

(Workshop with L Barton) Quantification of Muscle Function During Therapeutic Exercise. Washington Chapter of APTA, Vancouver, WA. October 17-18, 1987.

(Workshop) Biofeedback Applications to Patients with Neuromuscular and Musculoskeletal Disorders. Broward General Hospital, Ft. Lauderdale, FL. October 30-31, 1987.

(with DI Edwards), "Comparing Targeted Feedback and Motor Copy Training Procedures in the Restoration of Upper Extremity Function among Chronic Neurologic Patients", 13th Annual Society for Neuroscience meeting, New Orleans, LA. November 20, 1987.

(Workshop) Biofeedback Applications in Rehabilitation Medicine, First International Conference on Bio-behavior and Self-Regulation, Honolulu, HI. November 21, 1987.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "Long-term Follow-up Results From Forced Use Application to Neurological Patients", Gwinnett Medical Center, Lawrenceville, GA. January 21, 1988.

Wolf SL, "EMG Biofeedback Applications in Rehabilitation Medicine", STENS Corporation, Boca Raton, FL. January 23, 1988.

Wolf SL, "Combining Electrical Stimulation With Biofeedback in the Treatment of Neurologic and Orthopedic Patients", Spotlight in Research, Georgia Institute of Technology, Atlanta, GA. April 13, 1988.

Wolf SL, "Novel Approaches to the Use of EMG Biofeedback", Forbes Medical Center, Pittsburgh, PA. May 5, 1988.

Wolf SL, "Electromodulation for the Treatment of Arthritic Pain: an Update", 23rd Annual Arthritis Health Profession Annual Meeting. Houston, TX. May 24, 1988.

Wolf SL, "Forced Use as a Theoretical Basis for Patient Treatment", Annual Meeting of the APTA, Las Vegas, Nevada. June 15, 1988.

Wolf SL, LeCraw DE, Novel Uses of Feedback in Rehabilitation (workshop). Georgia Warm Springs Foundation, June 21, 1988.

Wolf SL, "Biofeedback Application for Physical Therapists: Use of Microprocessor Equipment", Sharp Rehab Hospital. San Diego, CA. October 1-2, 1988.

Wolf SL, LeCraw DE, Contemporary User in Biofeedback for Rehab Clinicians (Workshop): Nebraska chapter APTA, Lincoln, N.E. October 21-23, 1988.

Wolf SL, "The Effects of 'Forced Use' on Chronic Neurological Patient Upper Extremity Function", American Congress Rehab Medicine, Seattle, WA. November 3, 1988.

Wolf SL, "Behavioral Techniques to Enhance Upper Extremity Function", Pennsylvania American Physical Therapy annual meeting, Philadelphia, PA. November 11, 1988.

Wolf SL, "An Introduction to Stretch Reflex Conditioning", Pennsylvania APTA Annual Meeting, Philadelphia, PA. November 12, 1988.

Wolf SL, "EMG Biofeedback Applications in Rehabilitation Medicine", STENS Corporation, Boca Raton, FL. January 23, 1988.

Wolf SL, "Novel Approaches to the Use of EMG Biofeedback", Forbes Medical Center, Pittsburgh, PA. May 5, 1988.

Wolf SL, "Concurrent Assessment of Muscle Activity as a Vehicle for Rehab Services", Cleo Company, Cleveland, OH. May 4, 1988.

(with DE LeCraw, LA Barton and B Jann), "Effect of Upper Extremity Forced Use on Enhanced Function in Chronic Stroke and Traumatic Brain Injured Patients", Soc-Neuroscience, Toronto, Ontario, Canada. November 15, 1988.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "EMG Measures of Low Back Pain During Dynamic Movement", Behavioral Medicine Institute of Providence, Providence, Rhode Island. November 16, 1988.

Wolf SL, "The Effect of Forced Use on Neurological Patient Upper Extremity Function", Physical Therapy Association of Georgia, Helen, GA. November 19, 1988.

Wolf SL, "The Hemiparetic Upper Extremity: Use it or lose it?", University of Pittsburgh, Pittsburgh, PA. January 25, 1989.

Wolf SL, "Principle of Biofeedback Applied to Sensory-motor Integration", UCLA. October 29, 1989.

Wolf SL, "The Future of Biofeedback Applications in Rehabilitation", 20th Meeting Association of Applied Psychophysiology and Biofeedback, San Diego, CA. March 19, 1989.

Wolf SL, Advanced Workshop for Biofeedback applications in rehabilitation. 20th meeting association of applied Psychophysiology and Biofeedback, San Diego, CA. March 20, 1989.

Wolf SL, "Advanced Applications of Neuromuscular Retraining", Rancho Los Amigos Rehabilitation Center, Downey, CA. April 29-30, 1989.

Wolf SL, "Contemporary Biofeedback Application in Rehabilitation", Montana Chapter APTA, Missoula, MT. May 19-20, 1989.

Wolf SL, "Objectives Measures of Pain From a Rehab-pain Clinic Perspective", Biofeedback Society of Florida, Tampa, FL. June 3, 1989.(pre-recorded)

Wolf SL, "Long-term Follow-up Results from Forced Use Applications to Neurological Patients", Gwinnett Medical Center, Lawrenceville, GA. January 21, 1988.

Wolf SL, "Combining Electrical Stimulation with Biofeedback in the Treatment of Neurological and Orthopedic Patients: Spotlight in Research", Georgia Institute of Technology, Atlanta, GA. April 13, 1988.

Wolf SL, "Concurrent Assessment of Muscle Activity as a Vehicle for Rehab Services", Cleo Company Cleveland, OH. May 4, 1988.

Wolf SL, "Electromodulation for the Treatment of Arthritic Pain: An Update", 23rd Annual Arthritis Health Profession Annual Meeting. Houston, TX. May 24, 1988.

Wolf SL, "Forced Use as a Theoretical Basis for Patient Treatment", Annual meeting of the APTA, Las Vegas, Nevada. June 15, 1988.

Wolf SL, Craik B, Leiper C, Fetters L, "How to Constructively Evaluate Poster and Platform Presentations", APTA Annual Meeting. Nashville, TN. June 11, 1989.

Wolf SL (participant speaker), A national symposium, "Methodological Issues in Stroke Outcome Research", State University of New York at Buffalo. July 10-12, 1989.

CURRICULUM VITA- Steven L. Wolf

Wolf SL (Workshop with L. Barton) EMG biofeedback workshop, Warm Springs Rehabilitation Hospital, San Antonio, TX. July 21-22, 1989.

Wolf SL, "Treating movement disorders' Biofeedback Interventions and Novel Behavioral Approaches", ESA Seminars. New York, NY. September 9-10, 1989.

Wolf SL, "Assessing Paraspinal Lumbar Muscle Activity During Dynamic Activity", American Pain Society. Phoenix, AZ. October 28, 1989.

DeCamp MJ, Chopp MT, **Wolf SL**, Segal RL, English AW, "Preliminary Morphological Studies Examining Compartments of Two-joint Human Muscles", Society for Neuroscience, Phoenix, AZ. October 31, 1989.

Wolf SL, Evatt ML, Segal RL, "Preliminary Studies on Modification of Human Spinal Stretch Reflexes", Society for Neuroscience, Phoenix, AZ. November 2, 1989.

Segal RL, Catlin PA, Cooke R, Johnson L, McCallum A, Murzin D, Rubel K, **Wolf SL**, "Preliminary Studies on Modification of Hyperactive Spinal Stretch Reflexes in Stroke Patients", Society for neuroscience, Phoenix, AZ. November 1, 1989.

Wolf SL, "Biofeedback and Low Back Pain", Biofeedback Regional Association of Southeastern Status, Atlanta, GA. November 13, 1989.

Wolf SL, "Musculoskeletal Pain Management", Medical management of repetitive motion injuries and low back pain symposium Poultry Industry, Atlanta, GA. January 12-13, 1990.

(with CE Coogler), "Balance in Late Life: Current Concepts and Biofeedback Interventions", Geriatrics Consortium, Emory University, Atlanta, GA. February 16, 1990.

Wolf SL, Biofeedback Applications in Rehabilitation workshop, STENS Corporation, Atlanta, GA. February 23-24, 1990.

Wolf SL and Segal RL, "Applications of Spinal Stretch Reflex Conditioning to Man", State of New York, Dept. of Health, Albany, NY. March 6, 1990.

Wolf SL, "Biofeedback Applications to Pain Patients", DeKalb Medical Center, Pain Clinic, Atlanta, GA. March 19, 1990.

Wolf SL, Novel uses of biofeedback in rehabilitation medicine workshop. Association for Applied Psychophysiology and Biofeedback Annual Meeting. Washington, DC. March 24, 1990.

Wolf SL, "Biofeedback Applications for Rehabilitation of Upper Extremity Problem", Kessler Institute, West Orange, NJ. March 29, 1990.

Wolf SL Moderator, "Looking Over My Shoulder" clinical expert symposium. Dogwood Conference, Atlanta, GA. March 30-31, 1990.

Wolf SL, "Forced Use: A Behavioral Intervention to Enhance Motor Function Among Neurological Patients", Columbia University, Dept. Movement Sciences and Education, New York, N.Y. April 8, 1990.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "A Comprehensive Biofeedback Approach to Reduce Pain and Enhance Function Among Orthopedic and Neurologic Patients", University of Calgary, Calgary, Alberta Canada. April 21-22, 1990.

Wolf SL, "Novel Behavioral Interventions to Reduce Spasticity", University of Alberta/Edmonton, Canada. April 23, 1990.

Wolf SL, "Compartmentalization of Human Muscles: Functional Implication", Kansai Medical University, Kyoto, Japan. May 10, 1990.

Wolf SL, Workshop: Biofeedback application in rehabilitation. Keio University Medical Center, Tokyo, Japan. May 12, 1990.

Wolf SL, "Recent Trends in Biofeedback for Rehabilitation", Japanese Biofeedback Society, Tokyo, Japan. May 13, 1990.

Wolf SL, "Biofeedback as a Treatment Modality for Improving Motor Control", 14th annual postgraduate course on the rehabilitation of the brain injured adult and child. Williamsburg, VA. June 7-8, 1990.

Wolf SL, (Moderate): "Measurement in the Physical Therapy Clinic", APTA Annual Meeting, Anaheim, CA. June 27, 1990.

Segal RL, **Wolf SL**, "Modulation of the Spinal Stretch Reflex in Neurological Patients", APTA Annual Meeting, Anaheim, CA. June 28, 1990.

Wolf SL, "EMG Biofeedback for Physical Therapy Educators", Section on Clinical Electrophysiology meeting. University of Vermont Burlington, VT. August 4, 1990.

Wolf SL, "The Quantification of Clinically Relevant EMG Signals", 8th International Congress of ISEK, Baltimore, MD. August 12-16, 1990.

Workshop, Biofeedback Advances in Rehabilitation. Biofeedback Society of Wisconsin, Milwaukee, WI, October 5-6, 1990.

(with RL Segal RL): "Operant Conditioning of Human Spinal Reflexes", American Neurology Association, Atlanta, GA, October 13, 1990.

Wolf SL (With L Barton) Workshop, Application of Feedback Techniques with Musculoskeletal and Neuromuscular Patients. Massachusetts Chapter, APTA, Sturbridge Village, MA, November 2, 1990.

Open Forum (with A Jette and D Krebs): "Research Opportunities for Physical Therapists", Massachusetts Chapter, APTA, Sturbridge Village, MA, November 3, 1990.

Wolf SL, "Reducing Frailty in Elders: Two Exercise Interventions", Seminar "Exercise Compliance in Older Adults. Georgia Consortium on the Psychology of Aging. Atlanta, GA, December 7, 1990.

Wolf SL, Workshop, Recent Advances in Biofeedback Applications for Rehabilitation Clients. Harris Count Biofeedback Society, Houston, TX, January 26, 1991.

CURRICULUM VITA- Steven L. Wolf

(With M Nolan, S Stralka, M Gersh) "Forum on the Future of Transcutaneous Electrical Nerve Stimulation", Clinical Electrophysiology Section, American Physical Therapy Combined Section Meeting, Orlando, FL, February 1, 1991.

Workshop, Novel Uses of Biofeedback in Rehabilitation Medicine, Twenty-second annual meeting of the Association of Applied Psychophysiology and Biofeedback, Dallas, TX, March 15, 1991.

Moderator, Open Forum (with J Cram, J Thompson, S Donaldson, D Ahern), "Quantification of EMG During Low Back Pain Treatment", 22nd Annual Meeting of the Association for AAPB, Dallas, TX, March 16, 1991

Symposium (With V Desai, J Tries, E Taub), "Mechanisms to Overcome Learned Non-use", Twenty- second annual meeting of the Association of Applied Psychophysiology and Biofeedback, Dallas, TX, March 17, 1991.

McNeely E, Clements S, **Wolf SL**, "A program to reduce frailty in the elderly", Aging Conference on, "Key Aspects of Elder Care: Managing Falls, Incontinence and Cognitive Impairment" Duke University, Durham, NC, April 11, 1991.

Seminar (With Frank Palermo, MD): "EMG-Triggered Stimulation and EMG-Patterned Electrical Stimulation Applications in Rehabilitation of Neuromuscular and Musculoskeletal Patients", Annual Meeting of the APTA, Boston, MA, June 24, 1991.

Wolf SL, "Surface EMG Feedback in Evaluation and Treatment of Musculoskeletal and Neuromuscular Disorders", Sharp Memorial Hospital, San Diego, CA, August 1-3, 1991.

Wolf SL, Segal RL, "Physiological Evidence for Partitioning of Human Two-Joint Muscles", Research Section of the APTA, "Muscle Function in Normal and Pathological States: A Research Retreat", New Hampton, NH, August 19, 1991.

Wolf SL, "Novel Interventions to Prevent Falls in the Elderly", Tenth Annual Symposium on Gerontology and Geriatrics: Aging, Musculoskeletal Disorders and Care of the Frail Elderly. Dept. Veterans Affairs Medical Center, St. Louis, MO, September 23, 1991.

Wolf SL, Coogler CE, Green R, Xu T, "Tai Chi and Static Balance Exercise To Enhance Postural Stability", Gerontological Society of America Annual Meeting, San Francisco, CA, November 22-26, 1991.

Wolf SL, "An Introduction to the Use of Feedback in Neuromuscular Retraining", Hillside Rehabilitation Hospital, Warren, OH, September 6-8, 1991.

Wolf SL, "Feedback Application to Musculoskeletal Patients", Orthopedic Section of Northwest Canadian Physiotherapy Association; Vancouver, BC Canada, October 19-20, 1991.

Wolf SL, Rehabilitation in neuromuscular and musculoskeletal disorders workshop, AAPB, Lake Louise, Alberta, Canada, November 15, 1991.

Wolf SL, (with Buchner DM, Whipple RH, Mulrow CD, Fiatarone MA, deLateur BJ, Hornbrook MC): "Improving Balance and Gait in Frail Adults: Issues in Intervention Design and Evaluation", Gerontological Society of America, San Francisco, CA, November 26, 1991.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, "EMG Biofeedback: Understanding Concepts and Application", Bi-State Medical Meeting, Kansas City, MO, December 14, 1991.

Wolf SL, "The Potential Role of Stretch Reflex Modulation as a Rehabilitation Technique", Texas Women's University, Houston, TX, January 16, 1992.

Wolf SL, Novel uses of biofeedback in rehabilitation medicine (workshop), Assoc. Appl. Psychophysiology and Biofeedback Colorado Springs, CO, March 20, 1992.

Wolf SL, et al, "On-task training: Achieving Success", (seminar) Assoc. Appl. Psychophysiology and Biofeedback, Colorado Springs, CO, March 21, 1992.

Wolf SL, et al, "Geriatric Medicine: Novel Opportunities for Prevention and Intervention", (seminar) Assoc. Appl. Psychophysiology and Biofeedback, Colorado Springs, CO, March 22, 1992

Wolf SL, "Integrating Muscle Feedback into Isokinetic Exercise Programs", International Isokinetic and Isometrics Society, Sarasota, FL, May 9, 1992.

Wolf SL, "An Overview of Biofeedback Applications in the Management of Chronic Back Pain Patients", Southeastern Pain Society, Atlanta, GA, May 24, 1992.

Wolf SL, Biofeedback Applications in Rehabilitation Medicine (workshop) The STENS Corp., Atlanta, GA, June 11, 1992.

Wolf SL, "Muscle Reeducation for Neurological Patients", Bethany Medical Center, Kansas City, KS, June 13, 1992.

Wolf SL, "Falls in the Elderly", APTA, Denver, CO, June 15, 1992.

Wolf SL, (moderator) "The Federal Research Agenda", APTA, June 17, 1992.

Wolf SL, "New Dimensions in Clinical Electromyography". International Society for Electrokinesiology, Florence, Italy, June 30, 1992.

Wolf SL, "Pain Modulation Through the Use of Muscle Feedback", Future Health Corporation Seminar, Philadelphia, PA, August 7, 1992.

Wolf SL, Workshop (with B Brucker) "New Applications of Muscle Feedback in Rehabilitation", Assoc. Applied Psychophysiology and Biofeedback, San Antonio, TX, September 12, 1992.

Wolf SL, Workshop: Predicting Outcomes in hand function using muscle feedback among TBI patients, Braintree Head Injury Conference, Boston, MA, September 24, 1992.

Wolf SL, Lecture: "Operant Conditioning of Spinal Reflexes: A Novel Approach to the Assessment of Spasticity", Braintree Head Injury Conference, Boston, MA, September 24, 1992.

Wolf SL, Workshop: An introduction to biofeedback applications in physical rehabilitation, STENS Corporation, Atlanta, GA, October 18, 1992.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, Workshop: Clinical Applications of Biofeedback. The Second International Seminar on Aspects of Physical and Orthopedic Medicine, Tel-Aviv, Israel, November 2, 1992.

Wolf SL, Lecture: "Reassessing the Principles Underlying Neuromuscular Reeducation Treatments Among Neurological Patients: The Case for Agonist Recruitment", Tel-Aviv University, Sackler Faculty of Medicine, Tel-Aviv, Israel, November 2, 1992.

Wolf SL, Lecture: "Novel Uses of Biofeedback in Rehabilitation", Biofeedback Society of Israel, Tel-Aviv, Israel, November 3, 1992.

Wolf SL, "Novel Exercise Interventions to Prevent Falls Among Older Individuals", American Association of Orthopedic Surgeons, Chicago, IL, January 21, 1993.

Wolf SL, Lecture: "Contemporary Applications of Muscle Monitoring To Treat Musculoskeletal Disorders", Svendsen Rehab. Consultants, Lansing, MI, January 22-24, 1993.

Wolf SL, (with S Middaugh and B Headley) Lecture: "A reassessment of muscle feedback for pain patients", Section on Clinical Electrophysiology, APTA, San Antonio, TX, February 6, 1993.

Wolf SL, (with L Barton) Workshop: EMG feedback: past, present and future, Neurology Section, APTA, San Antonio, TX, February 7, 1993.

Wolf SL, (with L Barton), "Biofeedback: An Update", Neurology Section, APTA, Combined Sections Meeting, San Antonio, TX, February 14, 1993.

Wolf SL, Course Director: "Functional Assessments and Quality of Life Issues in Aging", Emory University, Department of Rehab. Medicine, Atlanta, GA, March 19-20, 1993.

Wolf SL, "Professional Responsibility With Regard to Appropriate Use of CPT Coding in Symposium: Risk Management in Today's Environment of Accountability", AAPB, Los Angeles, CA, March 27, 1993.

Wolf SL, "Feedback for Balance Control in Older Fallers", in Symposium "Stability and Balance: State of the Art". AAPB, Los Angeles, CA, March 28, 1993.

Wolf SL, Workshop: "Novel Interventions for Biofeedback in Rehabilitation Medicine. AAPB, Los Angeles, CA, March 29, 1993.

Wolf SL, Contributions of Central and Peripheral Factors to Movement Control in "The Role of The Motor System in Rehabilitation", JFK Johnson Rehabilitation Institute, Edison, NJ, May 7, 1993.

Wolf SL, Workshop: "Perfecting Treatment Techniques by Monitoring Patient Responses", JFK Johnson Rehabilitation Institute, Edison, NJ, May 8, 1993.

Wolf SL, (with L Wolf), Workshop: Use of Muscle Retraining Instrumentation in the Treatment of Musculoskeletal Patients. The Learning Center, Knoxville, TN, May 21-23, 1993.

Wolf SL: "Novel Exercises to Reduce Frailty in the Elderly", Medical Grand Rounds, Emory University Hospital, Atlanta, GA, May 25, 1993.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: "Pain Modulatory Pathways", Physical Therapy Program, North Georgia College, Dahlonega, GA, May 25, 1993.

Wolf SL (Moderator): "Paper (platform) Session on Cerebrovascular Accidents", APTA Annual Conference, Cincinnati, OH, June 13, 1993.

Wolf SL (Moderator): "Bridging the Gap Between Science and Belief", (Catherine Worthingham Fellow Forum), APTA, Cincinnati, OH, June 14, 1993.

Wolf SL (Moderator): Research Forum: "How To Get Funded", APTA, Cincinnati, OH, June 15, 1993.

Wolf SL, Workshop: "Falls Prevention in the Elderly", Shadyside Hospital, Jewish Healthcare Foundation, Pittsburgh, PA, September 20, 1993.

Wolf SL (with LB Wolf LA Barton and RL Segal) Workshop: "Surface EMG Applications and Certification for Physical Therapists", Tel-Aviv, Israel, October 10-14, 1993.

Wolf SL: "Surface EMG for Neuromuscular Retraining", Israeli Medical Association, Jerusalem, Israel, October 19, 1993.

Wolf SL: "An Analysis of the FICSIT 5 Outcome Studies", U.A.B. Center for Aging, Birmingham, AL, January 14, 1994.

Wolf SL: "Surface EMG: A rehabilitation tool for the neurologic patient." Combined Section on Clinical Electrophysiology, APTA, New Orleans, LA, February 4, 1994.

Wolf SL, Workshop: "Problem Solving In Rehabilitation With sEMG", University of California at Fresno; Fresno, CA, February 25-26, 1994.

Wolf SL, Segal RL, DeLuca CJ: "Revisiting the surface EMG recording: Implications for muscle compartments in clinical practice. AAPB, Atlanta, GA, March 5, 1994.

Wolf SL, Workshop: "Novel Uses of EMG Biofeedback for Musculoskeletal and Neuromuscular Disorders", Current Technology and North Memorial Medical Center, Minneapolis, MN, March 19, 1994.

Wolf SL, Workshop: "Using Behavioral Medicine in Rehabilitation, International Rehabilitation Medicine Association, Washington, DC, April 12, 1994.

Wolf SL, Basmajian JV, Workshop: "EMG/Biofeedback: Results-Oriented Therapy", International Rehabilitation Medicine Association, Washington, DC, April 13, 1994.

Wolf SL: Steven J. Rose Memorial Lecture: "Re-examining the Mutability of Spinal Stretch Reflexes: Implications for Rehabilitation", Washington University, St. Louis, MO, April 28, 1994.

Wolf SL: "Forced Use of the Hemiplegic Upper Extremity: History and Application", Stroke Conference, National Rehabilitation Hospital, Rockville, MD, May 20, 1994.

CURRICULUM VITA- Steven L. Wolf

Wolf SL, Craik R, Walker A: "How to Critique a Platform Presentation", American/Canadian Physical Therapy Associations, Toronto, Ontario, Canada, June 5, 1994.

Wolf SL, Segal RL: "Muscle Compartmentalization: Its Relevance to Therapy", 10th meeting International Society for Electrokinesiology, Charleston, SC, June 23, 1994.

Wolf SL: "The Role of Tai Chi and Balance Training in Postural Stability of Older People", Medical University of South Carolina, Charleston, SC, June 27, 1994.

Wolf SL, (Facilitator): "Role of Skeletal Muscle in Health and Disease", APTA/Section on Research "Muscle Retreat", Hampton, NH, August 22-26, 1994.

Wolf SL, Rogers MR (Facilitators): "Physical Therapy Interventions to Effect Gait and Balance", Project Focus '94: Physical Therapy Treatment Effectiveness for Older Persons, Foundation for Physical Therapy Research, Alexandria, VA, September 28-30, 1994.

Wolf SL, Catlin PA, Segal RL, et al: "Determining Consistency in Elbow Joint Threshold Angle in Spastic Muscles." Soc. Neurosci., Miami, FL, November 16, 1994.

Mann MH, **Wolf SL**, Segal RL: "Neuromuscular Partitioning of the Human Biceps Brachii Long Head." Soc. Neuroscience, Miami, FL, November 18, 1994.

Wolf SL, Taylor W, Donaldson S, Holtz J, Clifford A, Cram JR (Workshop): "Surface EMG: Eves-drop on the Experts." Clinical Resources, Lake Tahoe, CA, December 9-11, 1994.

Wolf SL, Research Based Interventions for Balance Disorders. Geriatric Rehabilitation: Outcomes Measurement, Evaluation and Clinical Implementation Program, Department of Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA, February 10-11, 1995.

Wolf SL, Xu T (Facilitators): "East Meets West: Non-traditional preventative Medicine." DeKalb College, Atlanta, GA, February 17, 1995.

Wolf SL: "Can the Human Spinal Stretch Reflex be Conditioned?" Department of Physiological Sciences, University of California at Los Angeles, Los Angeles, CA, March 1, 1995.

Wolf SL (Seminar): "Conditioning the human spinal stretch reflex." University of Montreal, Montreal, Canada, April 24, 1995.

Wolf SL (with G. Kasman): Advanced course on surface EMG for physical therapists. Sakoursky Rehabilitation Center, Tel Aviv, Israel, May 1-3, 1995.

Wolf SL (with G. Kasman): Introductory course on surface EMG for physical therapists. Sakoursky Rehabilitation Center, Tel Aviv, Israel, May 7-11, 1995.

Wolf SL (lecture): Applications of Surface EMG to patient treatment and assessment. Sackler Medical School, Tel Aviv University, Tel Aviv, Israel, May 12, 1995.

CURRICULUM VITA- Steven L. Wolf

Wolf SL (with R. Segal and TR Nichols): "Mechanisms and Measurement of Spasticity," Course: Spasticity: Its Treatment and Measurement in Managed Care. Department of Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA, May 24-25, 1995.

Wolf SL (Moderator) "Care of the Patient Following Stroke: Differentiating Spasticity From Weakness to Achieve Function" World Confederation for Physical Therapy, Washington, DC, June 27, 1995.

Wolf SL: Surface EMG applications for treatment and documentation. Third International Symposium for Electrotherapy. Section on Clinical Electrophysiology, Marquette University, Milwaukee, WI, July 30-31, 1995.

Wolf SL: Operant conditioning of spinal stretch reflexes: Implications for the management of spasticity. Grand Rounds, Neurology Department, Emory University School of Medicine, Atlanta, GA, September 15, 1995.

Wolf, SL: Conditioning the Spinal Stretch Reflex: Implications for Movement Control, World's First Clinical Applied Surface EMG Meeting, Key West, FL February 3, 1996.

Wolf, SL: Operant Conditioning of Spinal Stretch Reflexes: Implications for Understanding Spasticity, Combined Sections Meeting of the American Physical Therapy Association, Atlanta, GA February 16, 1996.

(With Edward Taub) **Wolf, SL:** Does Constraining the Contralateral Limb Enhance Functional Use of the Hemiparetic Arm and Hand?, Combined Sections Meeting of the American Physical Therapy Association, Atlanta, GA, February 16, 1996.

Wolf, SL: Novel Uses of Feedback in Rehabilitation. Association for Applied Psychophysiology and Biofeedback. Albuquerque, NM, March 21, 1996.

Wolf SL (with RL Segal and CE Coogler): Physiological monitoring for enhanced control of movement and posture. Georgia-Tennessee Physical Therapy Association joint meeting, Gatlinburg, TN, April 12-14, 1996.

Wolf SL: New Concepts on Movement Control As They Apply to Patients with Musculoskeletal Disorders and the Elderly. Ohio Chapter American Physical Therapy Association, Columbus, OH, April 19-20, 1996.

Wolf SL: Rethinking Balance Retraining Strategies: Reason over Rhyme. Rehabilitation Interventions in the Younger Old: Linking Quality and Reasonableness, Emory University School of Medicine, Department of Rehabilitation Medicine, Atlanta, GA, April 25, 1996.

Wolf SL: Use of Stretch Reflex Conditioning in Training Stroke Patient Motoric Performance, 4th Annual Stroke Conference '96: Mechanisms, Measurements, and Management, Rehabilitation Institute of Chicago, Chicago, IL April 26, 1996.

Wolf SL: (Workshop) Contemporary Uses of Surface EMG to Reeducate Upper Extremity Movements in Stroke Patients, 4th Annual Stroke Conference '96: Mechanisms, Measurements, and Management, Rehabilitation Institute of Chicago, Chicago, IL April 26, 1996.

Wolf, SL: Update on surface EMG applications in rehabilitation. First Mediterranean Physical Medicine and Rehabilitation Conference, Herzilya, Israel, May 13, 1996.

CURRICULUM VITA- Steven L. Wolf

Wolf SL (with G. Kasman): Advanced course on surface EMG for physical therapists. Sakoursky Rehabilitation Center, Tel Aviv, Israel, May 15-22, 1996.

Wolf, SL: Operant conditioning of the spinal stretch reflex: Implications for rehabilitation. Huddinge Hospital, Karolinska Institute, Stockholm, Sweden, May 30, 1996.

Wolf, SL (with S. Binder-Macleod): How to critically evaluate a poster presentation. American Physical Therapy Association annual meeting, Minneapolis, MN, June 15, 1996.

Wolf, SL (organizer and moderator) with WZ Rymer, TR Nichols, C Richards, R, Segal, C Giuliani, R Craik: "Contemporary Perspectives on Movement Disorders, Mechanisms and Measurements, American Physical Therapy Association annual meeting, Minneapolis, MN, June 17, 1996.

Wolf SL (with K. Sathian and A. Greenspan) "An Overview of PROREN (Program in Restorative Neurology)", Grand Rounds, Department of Rehabilitation Medicine, Emory University School of Medicine, Atlanta, GA, June 21, 1996.

Wolf SL: Reflections on the Basmajian Legacy. First Annual Basmajian Lectureship, International Society of Electrokinesiology, Enschede, The Netherlands, October 27, 1996.

Wolf SL: Falls, Safety and IADLs. Clinical Management of the Senior Population in an HMO Environment Conference, The Zitter Group, Boston, MA, December 12, 1996.

Wolf SL: The role of Tai Chi as an Exercise Treatment for Older Individuals. Key Note presentation, Geriatric Exercise, Professional Seminars, Inc. Tampa, FL, January 24, 1997.

Wolf SL: The role of surface EMG in the treatment of patients with musculoskeletal disorders. STENS Corporation, Atlanta, GA, February 9, 1997.

Wolf SL and Kasman G: Surface electromyography in the treatment of patients with pain symptomatology. Section on Clinical Electrophysiology, American Physical Therapy Association Combined Sections Meeting, Dallas, TX, February 12, 1997.

Wolf SL: Interventions for the Prevention of Falls in Older People, Medical Grand Rounds, Emory University Hospital, Department of Medicine, Atlanta, GA February 25, 1997.

Wolf SL: The role of Tai Chi in Delaying Falls' Onset in Elderly Individuals. University of Florida Center for Aging, Gainesville, FL, February 27, 1997.

Wolf SL: Forced Use as An Intervention to Facilitate Neuroplasticity in Stroke Patients. Division of Physical Therapy, University of Florida, Gainesville, FL, February 28, 1997.

Wolf SL: Novel Uses of Feedback in Rehabilitation. Association for Applied Psychophysiology and Biofeedback. San Diego, CA, March 12, 1997.

Wolf SL: Can responses to postural perturbations be conditioned: Tai Chi and Beyond. University of Delaware, Newark, DL, April 18, 1997

CURRICULUM VITA- Steven L. Wolf

Wolf SL: Future opportunities in falls research at the VA. Veterans Affairs Medical Center, Rehabilitation R&D Center, Atlanta, GA, April 23, 1997.

Wolf SL: Tai Chi Measures and Outcome Data from the FICSIT Trials. Tai Chi and Traditional Rehabilitation Interventions Among Older Persons: Clinical Outcomes and Demonstrations. Atlanta, GA , April 25, 1997.

Wolf SL: Commentary on the Neurophysiological Rationale, Indications and Contraindications for Tai Chi. Tai Chi and Traditional Rehabilitation Interventions Among Older Persons: Clinical Outcomes and Demonstrations. Atlanta, GA , April 25, 1997.

Wolf SL: Exploring novel exercise applications to geriatric patients. Sargent College of Health and Rehabilitation Sciences, Boston University, Boston MA, May 15, 1997.

Wolf SL: Examining the effectiveness of learned non-use on the restoration of function in the upper extremity of chronic stroke patients. University of Kansas Medical Center, Kansas City, KS, May 21, 1997.

Wolf, SL (presentation and simultaneous videotape with S. Binder-Macleod): How to critically evaluate a poster presentation. American Physical Therapy Association annual meeting, San Diego, CA, June 1, 1997.

Wolf SL: Fall prevention in older adults: force biofeedback and Tai Chi. Biofeedback Society of Florida, Jacksonville, FL, June 7, 1997.

Wolf SL: Using sEMG differentials in the assessment of pain syndromes. Biofeedback Society of Florida, Jacksonville, FL, June 7, 1997.

Wolf SL: Force output changes in postural sway among older individuals. University of Georgia, Center for Gerontology, Athens, GA, June 16, 1997.

Wolf SL: Neuromuscular reeducation applications to children with cerebral palsy. Texas Scottish Rite Hospital, Dallas, TX, July 10, 1997.

Wolf SL: Grand Rounds, "Interventions to Prevent Falls in Older People", Department of Internal Medicine, University of Tennessee-Chattanooga, Erlanger Medical Center, Chattanooga, TN, September 11, 1997.

Wolf SL: Keynote Speaker, "Physical Frailty: The Evidence for Exercise" in Developing Effective Programs and Documenting Outcomes for Frailty, Falls, Hip Fractures, Osteoporosis, Stroke, Neurological Conditions, Health Care Professions Seminars, Chicago, IL, September 13, 1997.

Wolf SL: Tai Chi Exercise Programs, in Developing Effective Programs and Documenting Outcomes for Frailty, Falls, Hip Fractures, Osteoporosis, Stroke, Neurological Conditions, Health Care Professions Seminars, Chicago, IL, September 14, 1997.

Wolf SL (with Krish Sathian, Arlene Greenspan and Felecia Goldstein): Neurology Grand Rounds, Case Studies in Restorative Neurology, Emory University School of Medicine, September 19, 1997

Wolf SL: Tai Chi Measures and Outcome Data from the FICSIT Trials. Tai Chi and Traditional Rehabilitation Interventions Among Older Persons: Clinical Outcomes and Demonstrations. Atlanta, GA , September 26, 1997

CURRICULUM VITA- Steven L. Wolf

Wolf SL: Commentary on the Neurophysiological Rational, Indications and Contraindications for Tai Chi. Tai Chi and Traditional Rehabilitation Interventions Among Older Persons: Clinical Outcomes and Demonstrations. Atlanta, GA , September 27, 1997

Wolf SL: Innovative Advances in Postural and Movement Control: Reducing Falls, Pain and other Ills, Arizona PT Association, Scottsdale, AZ, October 3-5, 1997

Wolf SL, O'Grady M and Xu T: Demonstration of Tai Chi Exercise: Skills that Prevent Falls, American Academy of Physical Medicine and Rehabilitation, Atlanta, GA, November 16, 1997

Wolf SL and Xu T: Tai Chi: Therapeutic Basis Underlying Tai Chi Applications to Older Individuals, Healthcare Professional Seminars, Dallas, TX, January 24-25, 1998

Wolf, SL: Tai Chi and Balance Training for Prevention of Falls in Geriatrics, Montana APTA, January 30, 1998, Whitefish, MN, January 30, 1998

Wolf SL: Quantification of Function, Montana APTA, January 30, 1998, Whitefish, MN, February 1, 1998

Wolf SL (with G. Kasman) Surface EMG Applications for Musculoskeletal Disorders, Combined Sections Meeting, Orthopedic and Clinical Electrophysiology Sections, APTA, Boston, MA, February 13, 1998

Wolf SL (with S Minor, A Jette, D Brown) Applications of Research Activities in Different Settings, Section on Research, Combined Sections Meeting, APTA, Boston, MA, February 14, 1998

Wolf SL and Xu T: Tai Chi: Therapeutic Basis Underlying Tai Chi Applications to Older Individuals, Healthcare Professional Seminars, Philadelphia, PA. March 24-25, 1998

Wolf SL: Novel Uses of Feedback in Rehabilitation. Association for Applied Psychophysiology and Biofeedback. Orlando, FL, April 2, 1998

Wolf SL (with R Sherman, J Arena, D DeGood, A Glaros): Holes in the Data- Why You Don't Get Paid, Association for Applied Psychophysiology and Biofeedback. Orlando, FL, April 3, 1998

Wolf SL (with G Kasman): Surface EMG Interventions for the Low Back, Hip and Knee, Association for Applied Psychophysiology and Biofeedback. Orlando, FL, April 3, 1998

Wolf SL: Documentation for Reimbursement in Biofeedback Services, Central Avenue Health Clinic, Somerville, MA, April 23, 1998

Wolf, SL: Key Note Speaker, Tai Chi: From Alternative Medicine to Mainstream Practice: Evidence from the Data, Harvard Medical School., Boston, MA, April 24, 1998

Wolf SL: Perspectives on Alternative Medicine: Rehabilitation, Symposium on Alternative Medicine, Harvard University, Boston, MA, April 25, 1998

Wolf SL: Does a Visionary Dream: Commencement Speech, DPT Program University of Southern California, Los Angeles, CA, May 8, 1998.

CURRICULUM VITA- Steven L. Wolf

Gregor R, **Wolf SL**: Vertical Loading Feedback Training to Angular Perturbations in Older Adults. American College of Sports Medicine, Orlando, FL, June 4, 1998

Wolf SL: Biofeedback: New Perspectives on its Relevance to Rehabilitation. REPAR, Reseau Provincial de Recherche en adaptation-readaptation, Quebec City, Quebec Canada, June 5, 1998

Booker C, **Wolf SL**, Catlin PA: Consistency of responses to random postural perturbations in older individuals. American Physical Therapy Association annual meeting, Orlando, FL, June 7, 1998

Wolf SL: Exploring Neuroplasticity Through Constraint-Induced Movement Therapy (Forced Use) – Present Status and Future Prospects. Neuroplasticity Retreat, Section on Research, APTA, Newport, Rhode Island, August 16-20, 1998

Wolf SL: The effects of Tai Chi in Falls' Prevention Among Older Adults. Grand Rounds, Texas Institute of Rehabilitation Research, Department of Rehabilitation Medicine, Baylor College of Medicine, Houston, TX, September 25, 1998

Wolf SL: Kinetic responses to conditioning of vertical loading responses in older adults. Houston VA Medical Center, Center of Assistive Living in Older Adults, Houston, TX, September 25, 1998

Wolf SL: The effects of constraint induced movement therapy in facilitating upper extremity function in brain injured individuals. Conference on Neuroplasticity and Reorganization of Function after Brain Injury Houston Neuropsychological Society, Houston, TX, September 26, 1998

Wolf SL and Xu T: Tai Chi: Therapeutic Basis Underlying Tai Chi Applications to Older Individuals, Healthcare Professional Seminars, Hartford, CN, October 3-4, 1998

Wolf SL: Strategies to reduce falls in the aging process. Emory Senior University, Atlanta, GA, November 3, 1998

Wolf SL: Evidence Based Practice: A 25 Year Odyssey, Keynote Speech, Hong Kong Physical Therapy Association, Hong Kong Medical Academy, Hong Kong Island, November 15, 1998.

Wolf SL: Screening Fallers and devising beneficial interventions: A place for Tai Chi and other meaningful activities, Workshop, Queen Elizabeth Hospital, Hong Kong Physiotherapy Association, November 16, 1998

Wolf SL, Gregor RJ: Establishing clinical and biomechanical protocols to assess falls' reductions in frail, older adults. University of Pittsburgh, Physical Therapy graduate program, Department of Rehabilitation Science, December 12, 1998.

Wolf SL: Keynote Speaker, "Physical Frailty: The Evidence for Exercise" in Developing Effective Programs and Documenting Outcomes for Frailty, Falls, Hip Fractures, Osteoporosis, Stroke, Neurological Conditions, Health Care Professions Seminars, January 16, 1999, Las Vegas, NV.

(with CM Holbert, RJ Gregor and SM Hage): Intense Tai Chi Exercise Training in Older Adults, Tenth Annual Southern Regional Student Convention in Gerontology and Geriatrics, Georgia Southern University, Statesboro, GA, February 13, 1999.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: Tai Chi as a Therapeutic Exercise for Frail, Older Adults. Physical Therapy Association of Georgia, Districts 10 and 12, DeKalb Medical Center, Atlanta, GA, March 17, 1999.

Wolf SL and Freed SS: Constraint Induced Movement Therapy: Raising the Bar and Lowering the Age. 23rd Annual Motor Control course, Columbia University, Teachers College, New York, NY, April 17-18, 1999

Wolf SL: Strengths and Weaknesses of Constraint-Induced Movement Therapy as an Intervention to Improve Upper Extremity Function in Patients with Stroke (morning) and Exploring the Benefits of Tai Chi as an Exercise Form for Older Adults, Krannert School of Physical Therapy, University of Indianapolis, Indianapolis IN, April 26, 1999.

Wolf SL and Gregor RJ: Falls and Stepping Strategies Among Older Adults Transitioning to Frailty. Atlanta VA Rehabilitation R&D Center; Atlanta, GA, April 28, 1999.

Wolf SL: Lillian Pollard Memorial Lectureship: Mechanisms for Engaging Physiotherapists in the Research Process: From Student to Clinician. University of Toronto, Toronto, Ontario Canada; April 30, 1999.

Wolf SL: Neurorehabilitation. Emory/Georgia Tech Neuroscience Workgroup Seminar. Georgia Institute of Technology, Atlanta, GA, May 1, 1999.

Whishart LR (Moderator), Sullivan K, Behrman, A, **Wolf SL**, Winstein C: Recent Developments in the Rehabilitation of Motor Control, North American Society for the Psychology of Sports and Physical Activity (NASPSA), "Toward Understanding Factors Contributing to Improved Upper Extremity Task Performance Among Patients with Stroke Following Application of Constraint Induced Movement (Forced Use) Therapy"; Clearwater, FL, June 12, 1999

Wolf SL: Constraint-Induced Movement Therapy and Recovery of Motor Function: Can Behavioral Interventions Influence Neurologic Recovery? Courses in Brain Injury Rehabilitation and Pediatric Neuroscience, JFK Rehabilitation Conference Center, Edison, NJ, June 26, 1999.

Wolf SL: Reducing frailty and falls in older persons. European Academy for Medicine of Ageing, Institut Universitaire Kurt Bosch, Sion, Switzerland, July 1, 1999.

Wolf SL: Constraint-induced movement therapy in stroke patients: present findings and future perspectives. Bellikon Rehabilitation Institute, Bellikon, Switzerland, July 2, 1999.

Wolf SL: Keynote Speaker: Evidence Based Practice: A 25 Year Odyssey, University of Mississippi, School of Health Related Professions, 25th anniversary, Jackson, MS, September 17, 1999.

Wolf SL: Tai Chi Chuan and Falls" Reduction. Physical Therapy students; University of Mississippi, School of Health Related Professions, MS, September 17, 1999.

Wolf SL: Biofeedback Applications in Physical Rehabilitation: A Workshop, Biofeedback Society of Wisconsin, Osh Kosh, WI, September 18, 1999.

Wolf SL and Xu T: Tai Chi for rehabilitation specialists. Health Care Professional Seminars; San Diego, CA, September 25-26, 1999.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: Reducing frailty and falls in older adults (plenary session), Sjukgymnast Dagarna, Stockholm, Sweden, October 6, 1999.

Wolf SL (with Edward Taub): Constraint Induced Movement Therapy (Establishing a Randomized National Clinical Trial), Sjukgymnast Dagarna, Stockholm, Sweden, October 8, 1999.

Wolf SL: Clinical Considerations in Developing Fall Reduction Programs, Geriatric Institute, University of Umea, Umea, Sweden, October 11, 1999.

Wolf SL: Key note speaker: Tai Chi and the Prevention of Falls in Older Adults; University of Umea, Department of Physical Therapy, 20th anniversary celebration, October 12, 1999.

Wolf SL: Update: Evidence for the Efficacy of Tai Chi as an Intervention for Falls' Reduction in Older Adults. Harvard Tai Chi Club, Cambridge, MA, October 30, 1999

Wolf SL: Effects of Therapies on Brain Functioning after Injury Constraint Induced Therapy. 20th Annual Neurorehabilitation Conference on Traumatic Brain Injury and Stroke, Cambridge, MA; October 31, 1999.

Wolf SL and Waddell DE: Tai Chi: Motor Control and Fall Prevention, 20th Annual Neurorehabilitation Conference on Traumatic Brain Injury and Stroke, Cambridge, MA; November 1, 1999.

Wolf SL (and Mary Tinetti): Assessment and Treatment of Falls in the Elderly: Balance Disorders. 61st American Academy of Physical Medicine and Rehabilitation, Washington, DC, November 14, 1999.

Wolf SL: Constraint induced movement therapy for stroke patients. Dekalb Stroke Club. Dekalb Medical Center, Decatur, GA, January 8, 2000.

Gregor RJ, **Wolf SL**, Browder K, Hage S, Kressig R, Oliver A: Movement strategies and gait biomechanics in older adults transitioning to frailty. Southeast Regional Chapter, American College of Sports Medicine, Charlotte, NC, January 27, 2000.

Wolf SL, Triolo R, Greenspan A, Patten C: Measurement of gait, balance and falls. Second Annual meeting, VA Rehab R&D Centers, Crystal City, VA, February 21-22, 2000.

Wolf SL: Novel interventions to improve upper extremity function in patients with stroke. Brain Awareness Week Public Lecture, Atlanta Chapter Society for Neuroscience, Emory University, March 16, 2000.

Wolf SL: Keynote Address: From Tibialis Anterior to Tai Chi: A 25-year Exploration in Rehabilitation Aspects of Alternative Treatment Applications, Association for Applied Psychophysiology and Biofeedback, Denver, CO, April 1, 2000.

Wolf SL: (Discussant for paper by M. Elaine Cress, Ph.D., "Functional Assessment: Bridging Injury and Everyday Function), Recovery from Mild Traumatic Brain Injury in Older Adults. University of Georgia, Gerontology Center and School of Health and Human Performance, Athens, GA, April 5, 2000.

Wolf SL: From Tibialis Anterior to Tai Chi: A 25-year Exploration into Movement Control. 15th Annual DK Stanley Lecture, University of Florida, College of Health and Human Performance, April 25, 2000.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: From Tibialis Anterior to Tai Chi: A 25-year Exploration into Movement Control. University of Maryland, Program in Physical Therapy, Baltimore, MD, April 27, 2000.

Wolf SL and Xu T: Tai Chi for rehabilitation specialists. Health Care Professional Seminars; State University of New York at Stony Brook, May 6-7, 2000.

Wolf SL, Davis CM, Bottomley JM: Exploring the Scientific Foundation for Alternative Therapies: Energy Techniques, Qi Gong and Tai Chi. American Physical Therapy Association, Indianapolis, IN, June 14, 2000.

Winstein CJ, Sullivan KJ, Behrman AL, **Wolf SL:** Recent Developments in Motor Control Rehabilitation after CNS Insult: Is Basic Research a Useful Launching Pad for Rehabilitation Practice? American Physical Therapy Association, Indianapolis, IN, June 16, 2000.

Wolf SL: From tibialis anterior to Tai Chi: A 25-year exploration of movement control. 6th Annual Rosemary Skully Visiting Lecturer, University of Pittsburgh, Oct 10, 2000.

Wolf SL: Randomized clinical trial on the effects of Tai Chi on falls' prevention in older adults transitioning to frailty: An update. Kansas University Center on Aging, Kansas City, KS, October 18, 2000.

Wolf SL: From tibialis anterior to Tai Chi: A 25-year exploration of movement control. First annual Physical Therapy Alumni Lecture. University of Delaware, October 27, 2000.

Wolf SL, Taub E, Winstein C: The application of constraint-induced (CI) movement therapy for patients with stroke. 62nd Assembly of the American Academy of Physical Medicine and Rehabilitation, San Francisco, CA; November 2-3, 2000.

Wolf SL, Xu T: Tai Chi for falls intervention. 62nd Assembly of the American Academy of Physical Medicine and Rehabilitation, San Francisco, CA; November 3, 2000.

Wolf SL, Catlin PA, Ellis MD, Link AL, Morgan BI, Piacentino AN: Assessing the Wolf motor function test as an outcome measure for research with patients post-stroke. 26th meeting Society for Neuroscience, New Orleans, LA, November 5, 2000.

Wolf SL: Tai Chi as an Exercise for Falls' Prevention. Division of Geriatrics and Gerontology, Emory University School of Medicine, Atlanta, GA, November 16, 2000.

Wolf SL: The role of Tai Chi as an exercise form to reduce falls in older adults. University of Texas Southwestern Medical Center, Department of Rehabilitation Medicine, Dallas, TX, November 17, 2000.

Wolf SL: From tibialis anterior to Tai Chi: A 25-year exploration of movement control. Margaret L. Moore Distinguished Lecture, University of North Carolina, Division of Physical Therapy, Chapel Hill, NC, December 7, 2000.

Wolf SL: Application of Tai Chi for older adults. Atlanta Regional Commission, Benson Senior Center, Sandy Springs, GA, January 18, 2001.

Wolf SL: Role of Exercise in Fall Prevention. Promoting Patient Freedom and Safety: Preventing Falls, VISN 8 Patient Safety Center of Inquiry, Tampa, FL, January 29, 31, 2001.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: Examples of Neuroplasticity and behavioral recovery from the humans' constraint induced movement. Neuroplasticity and Recovery After Stroke. American Stroke Association, Ft. Lauderdale, FL, February 15, 2001.

Wolf SL (with Sarah Blanton): Workshop on Constraint induced movement therapy for patients with stroke. Georgia Roosevelt Institute, Warm Springs, GA, March 2, 2001.

Wolf SL (with Carolee Winstein): Workshop on Constraint induced movement therapy for patients with stroke. Sharp Memorial Hospital, San Diego, CA, March 24, 2001

Wolf SL: Mechanisms underlying possible cortical reorganization with constraint induced movement therapy. Department of Rehabilitation Medicine, Sharp Hospital systems, San Diego, CA, March 24, 2001.

Taub E and **Wolf SL:** Symposium: Constraint-Induced Movement Therapy: Efficacious Behavioral Treatment for Motor Disability After Stroke. 32nd Annual meeting of the Association for Applied Psychophysiology and Biofeedback, Raleigh, NC, March 31, 2001.

Wolf SL and Blanton S: Constraint induced Motor Recovery (with workshop) in Annual Multidisciplinary Stroke Course: Promoting Patient Progress Through Knowledge, Innovation and Technology. Rehabilitation Institute of Chicago, Chicago, IL, April 26-27, 2001.

Wolf SL and Xu T: Tai Chi for Older Adults to Prevent Falling (lecture and workshop): Montana chapter, American Physical Therapy Association, Chico, MT, April 27-28, 2001.

Wolf SL: Constraint Induced Movement Therapy for Stroke Patients: Montana chapter, American Physical Therapy Association, Chico, MT, April 29, 2001.

Wolf SL: The Case for Massed Practice Cortical Plasticity. University of Washington, Seattle, WA; May 18, 2001.

Wolf SL: Clinical Application of Constraint Induced Movement Therapy for Patients with Stroke. Harborview Research and Training Center, University of Washington, Seattle, WA; May 19, 2001.

Wolf SL: Tai Chi for Falls' Prevention in Older Adults. Georgia Aging Coalition annual meeting. Atlanta, GA; June 14, 2001.

Wolf SL: The Interface between Establishing a Falls' Clinic and Tai Chi. Los Angeles VA Hospital, Los Angeles, CA; June 19, 2001.

Wolf SL (with E. Taub and C. Winstein): Symposium, Constraint Induced Movement Therapy: The EXCITE Trial, annual meeting of the American Physical Therapy Association, Anaheim, CA; June 21, 2001.

Wolf SL (with R. Gregor and B. Belsen): Symposium, Tai Chi to Delay Onset of Falls in Older Adults Transitioning to Frailty: A Randomized Clinical Trial, annual meeting of the American Physical Therapy Association, Anaheim, CA; June 23, 2001.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: Tales from the Field: Reports from Multi-Center Stroke Rehabilitation Trials, The EXCITE Trial, in “The Changing Face of Stroke”, North America Stroke Meeting, San Diego, CA, August 17, 2001.

Wolf SL: Constraint Induced Movement Therapy for Patients with Stroke. “No Easy Answers: Present Practice and Future Hope”, Stroke Rehabilitation Conference, North Memorial Hospital Rehab Services, Minneapolis, MN, September 28, 2001.

Wolf SL: Workshop: Utilizing Constraint Induced Movement Therapy for Stroke Patients. “No Easy Answers: Present Practice and Future Hope”, Stroke Rehabilitation Conference, North Memorial Hospital Rehab Services, Minneapolis, MN, September 28, 2001.

Wolf SL: The link between CI therapy as a research tool and in the stroke clinic. Cornell – Columbia Medical Center, Department of Rehabilitation Medicine, New York, NY, October 19, 2001.

Wolf SL: Update on the EXCITE (EXtremity Constraint Induced Therapy Evaluation) clinical trial for patients with sub-acute stroke. MetroHealth Hospital, Cleveland, OH, November 9, 2001.

Wolf SL: Scientific and theoretical constructs for constraint induced movement therapy (forced use). Neuroprosthetics Seminar speaker, Case Western Reserve University, Dept. Biomedical Engineering, Cleveland, OH, November 10, 2001.

Wolf SL: Tai Chi to prevent falls in older adults: an update (CD presentation), Hong Kong Tai Chi International Conference, Hong Kong, December 1, 2001.

Wolf SL and Blanton S: Constraint Induced Movement Therapy for Patients with Stroke. Bradley Memorial Hospital, Cleveland, TN, January 18, 2002.

Nudo R, Kleim J, Sullivan K, Deutsch J, **Wolf SL:** Clinically Relevant Neuroplasticity: Implications for Motor Recovery and Learning. “The Role of Transcranial Magnetic Stimulation and Quantification of Function, Neurology Section, APTA, Combined Sections Meeting, Boston, MA, February 19-20, 2002.

Wolf SL: Update on the EXCITE Trial. Stroke Special Interest Group, Neurology Section, APTA, Combined Sections Meeting, Boston, MA, February 21, 2002.

Baracca, S (**SL Wolf**, moderator and organizer): Evidence based practice in the treatment of the upper extremity among patients with stroke. 20th annual Eugene Michels Forum. Research Section, APTA, Combined Sections Meeting, Boston, MA, February 23, 2002.

Wolf SL: Constraint Induced Movement Therapy for Patients with Stroke: Perspectives and Prospects. (Grand Rounds) University of Cincinnati, Department of Rehabilitation Medicine, Cincinnati, OH, March 8, 2002.

Wolf SL: Tai Chi Exercise to Reduce Falls in Older Adults. Elon University, Elon, NC, April 20, 2002.

Wolf SL: Establishing a Clinical Research Agenda. Ohio University, Athens, OH, April 23, 2002.

Wolf SL: Constraint Induced Movement Therapy. Department of Physical Therapy, University, Athens, OH, April 23, 2002.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: Constraint induced movement therapy. International Stroke Symposium: Translating Principles of Brain Plasticity into Clinical Interventions. University of Kansas Medical Center, Kansas City, KS, April 26-28, 2002.

Wolf SL: Constraint Induced Movement Therapy. Fairview Rehabilitation Services, Minneapolis, May 18, 2002.

Wolf SL: Constraint Induced Therapy. Stroke Rehabilitation: Research to Practice Symposium. American Stroke Association, Hospital Council of Western Pennsylvania, Warrendale, PA, May 21, 2002.

Wolf SL: 33rd Mary Mc Millan Lecture; "Look Forward, Walk Tall: Exploring our 'What If' Questions", American Physical Therapy Association, Cincinnati, OH, June 5, 2002.

Wolf SL: The effect of Tai Chi exercise on fall occurrences in older adults. Public Lecture sponsored by the Emory University Center on Complementary and Alternative Medicine, Emory University, Atlanta, GA June 15, 2002.

Wolf SL: Overview of surface EMG in rehabilitation. Chattanooga Group, Hixon, TN, June 26, 2002.

Wolf SL: Tai Chi to improve postural stability: Current research. Western Carolina University, Cullowhee, NC, August 8, 2002.

Wolf SL and Butler AJ: The role of TMS in assessing cortical plasticity in stroke patients: A critical perspective. In, Neurobiological Background TO Rehabilitation, Gothenberg, Sweden, September 19-21, 2002.

Wolf SL: Overview of surface EMG in rehabilitation. Chattanooga Group, Hixon, TN, September 27, 2002. 2002

Wolf SL (with Michael Weinrich and Alex Dromerick): Constraint-induced movement therapy: Is it ready for clinical practice? American Society of Neurorehabilitation and American Congress of Rehabilitation Medicine, Philadelphia, PA, October 4, 2002.

Wolf SL and Butler AJ: Repetitive task practice in upper extremity neurorehabilitation of patients with stroke: Theory and application of constraint induced movement therapy. Texas Physical Therapy Association, Austin, TX, October 12, 2002.

Wolf SL: Shortened version: Look Forward Walk Tall- Exploring our "What If" Questions. Texas Physical Therapy Association, Austin, TX, October 13, 2002.

Wolf SL (with Sarah Blanton): Constraint induced movement therapy in stroke rehabilitation. Physical Therapy Association of Georgia; Kennestone, GA; October 18-19, 2002.

Wolf SL (moderator, with R. Macco, R. Zorowitz, B. Volpe): Rehabilitation Today: What to do when acute rehabilitation is over. Constraint Therapy: Who is a candidate; National Stroke Association, Orlando. FL, November 1, 2002.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: A critical look at Constraint induced movement therapy for patients with stroke. Massachusetts General Hospital, Biomotion Laboratory, Boston, MA, December 5, 2002.

Wolf SL: Tai Chi and Falls Reduction. Atlanta, VA Rehab and Development Center, January 15, 2003.

Wolf SL: Establishing mechanisms for understanding responses to CI therapy in stroke. Neurology Grand Rounds, Emory University School of Medicine, January 24, 2003.

Wolf SL: (Workshop) Constraint induced movement therapy for patients with stroke: applications and mechanisms. Arizona Physical Therapy Association, Phoenix, AZ, February 1, 2003.

Wolf SL: Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research. Enhancing Rehabilitation Research in the South (ERRIS); University of Virginia; Charlottesville, VA; February 8-14, 2003. Lectures: Identifying resources (2/4/03); Randomized control clinical trials (EXCITE, 2/5/03).

Wolf SL: Physical therapy educator issues: Thinking beyond evidence-based practice: how much should entry-level students understand about the underlying mechanisms of physical therapy examinations and interventions? Roundtable, Section on Neurology, APTA, Tampa, FL, February 15, 2003.

Wolf SL: Examining the role of Tai Chi exercise in preventing falls among older adults. Taiwan National Physical Therapy Association Meeting; Taipei, Taiwan, March 8-9, 2003.

Wolf SL (workshop): Balance and fall reduction. Oregon Physical Therapy Association; Portland, OR; March 14-16, 2003.

Wolf SL, O'Grady M: Keynote address: Novel interventions to reduce falls in older adults: Tai Chi and beyond. 2nd World Congress of the International Society of Physical and Rehabilitation Medicine, Prague, The Czech Republic; May 19, 2003.

Butler AJ, **Wolf SL:** Keynote address: The emerging role of transcranial magnetic stimulation in the assessment of stroke rehabilitation interventions. 2nd World Congress of the International Society of Physical and Rehabilitation Medicine, Prague, Czech Republic; May 19, 2003.

Wolf SL: Special Educational Activity: Constraint induced movement therapy in the treatment of upper extremity impairment among patients with stroke: A critical assessment. 2nd World Congress of the International Society of Physical and Rehabilitation Medicine, Prague, Czech Republic; May 22, 2003.

Wolf SL: The Emory University Research Center on Complementary and Alternative Medicine in Neurodegenerative Disorders: An Overview and Update, Third Meeting of NCCAM CAM Centers, University of Michigan, Ann Arbor, MI, June 17, 2003.

Wolf SL: The Application of Tai Chi for Falls' Prevention in Older Adults: An Update, Division of Gerontology, Department of Medicine, University of Michigan School of Medicine, Ann Arbor, MI, June 17, 2003.

Binder-MacLeod SA, Craik RA, **Wolf SL**, Goldstein M, Nitkin R, Chen D: Workshop in Grantsmanship, American Physical Therapy Association annual meeting, Washington DC, June 21, 2003.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: Novel Interventions to Delay Fall Events in Older Adults. A Public Lecture, Wellington, New Zealand, July 3, 2003.

Wolf SL: Constraint induced movement therapy in patients with stroke. Physiotherapy Association of New Zealand, Otago University, Dunedin, New Zealand, July 5, 2003.

Wolf SL: Biomechanical mechanisms associated with ambulation following Tai Chi training in older transitionally frail adults. International Society of Biomechanics XIXth Congress. Dunedin, New Zealand; July 11, 2003.

Wolf SL: The road not taken. Commencement Speech for first DPT graduating class, Emory University School of Medicine; Department of Rehabilitation Medicine, Division of Physical Therapy, Atlanta, GA, July 19, 2003.

Wolf SL: Funding opportunities for physical therapy faculties. University of Oklahoma Health Sciences Center, Department of Physical Therapy, Oklahoma City, OK, September 19, 2003.

Wolf SL: A critical look at constraint induced therapy for patients with stroke. Neural Perspectives : Focus on Recovery, A Neuroscience and Neurorehabilitation Conference, Oklahoma City, OK, September 20, 2003.

(with Sarah Blanton) **Wolf SL:** EXCITE trial for stroke patients. Neural Perspectives : Focus on Recovery, A Neuroscience and Neurorehabilitation Conference, Oklahoma City, OK, September 20, 2003.

(with Andrew Butler and Sarah Blanton) **Wolf SL:** Theory and Application of Constraint Induced Movement Therapy and Mechanisms Revealed by Brain Mapping Techniques, Texas Chapter, American Physical Therapy Association, October 24, 2003.

(with William Evans, Nancy Wellman, Amy Nickerson), **Wolf SL:** The role of Tai Chi exercise in preventing falls and promoting health in older adults. Get Moving! Adults Reap Benefits from Physical Activity. American Dietetics Association annual meeting, San Antonio, TX, October 28, 2003.

Wolf SL: Constraint induced Movement Therapy. New Approaches in the Transdisciplinary Management of Stroke Across the Continuum of Care. Crozer-Chester Medical Center, Upland, PA, November 7, 2003.

(with A J Butler and S Kahn), **Wolf SL:** Transcranial magnetic stimulation among patients with chronic stroke. Society for Neuroscience poster, New Orleans, LA, November 12, 2003.

Wolf SL: EXCITE Update, National Stroke Association annual meeting, Orlando, Florida, December 6, 2003.

Wolf SL: Mapping procedures and flaws using TMS. Cortical Plasticity Lab, NINDS, NIH, Bethesda, MD, December 9, 2003.

Wolf SL: Case Study on Randomized Clinical Trials Applications: EXCITE. NIH Trainee Workshop, National Center for Medical Rehabilitation and Research, NIH, Silver Springs, MD, December 10, 2003.

(with Sarah Blanton), **Wolf SL:** Repetitive Task Practice in Upper Extremity Neurorehabilitation of Patients with Stroke: Theory and Application of Constraint Induced Movement Therapy. Care Partners – Thoms Rehabilitation, Asheville, NC, December 11, 2003.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: The Noll Lecture: Constraint Induced Movement Therapy for Patients with Stroke: From Braun to Brain, Department of Rehabilitation Medicine, The Cleveland Clinic Foundation, Cleveland Ohio, January 13, 2004.

Wolf SL: Can Tai Chi Training Favorably Impact Fall Occurrences in Older Adults?, Department of Integrative Medicine, The Cleveland Clinic Foundation, Cleveland Ohio, January 14, 2004.

Wolf SL: Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research. Enhancing Rehabilitation Research in the South (ERRIS); University of Virginia; Charlottesville, VA; January 31 - February 4, 2004. Lecture: Randomized control clinical trials (EXCITE, 2/3/04).

Clinical Trials in Physical Therapy: Lessons Learned from the Past and Possibilities for the Future (Carolee Winstein, James Gordon, Alan Jette, Robert Wagaaner, **Steven Wolf**, Anthony Delitto, Andrea Behrman, David Brown, Kornelia Kulig, Kathy Sullivan, Eileen Fowler, Combined Sections Meeting, Neurology Section, APTA, Nashville, TN February 6, 2004.

Wolf SL, Blanton S: Rehabilitation for patients with Parkinson's disease and tai chi for older adults. Physiotherapy Department, Tan Tock Seng Hospital, Singapore, March 9-10, 2004.

Wolf SL, Blanton S, Butler AJ: Updates on physiotherapy in special populations in neurology and geriatrics. Physiotherapy Department, Tan Tock Seng Hospital, Singapore, March 11-12, 2004.

Wolf SL: A critical review of the data supporting massed practice cortical reorganization following constraint induced movement therapy. Department of Biokinesiology and Physical Therapy, University of Southern California; Los Angeles, CA, April 9, 2004.

Wolf SL (with Debra J Rose and Peggy Buchanan): Best Practices I Fall Prevention: Exercise, Archstone Foundation in cooperation with the American Society of Aging; San Francisco, CA, April 15, 2004.

Wolf SL: The Road Less Taken. Commencement speech, Arcadia University, Glenside, PA, May 13, 2004.

Wolf SL: The EXCITE Study: Learnings and Yearnings from a Clinical Trial. Constraint-Induced Movement in Children and Adults: Evidence-based Practice or Hype?; Teacher's College, Columbia University, New York, May 15, 2004.

Wolf SL: Examining the Role of Tai Chi Exercise in Preventing Falls among Older Adults, Department of Medicine Grand Rounds, Emory University, Atlanta, GA, May 25, 2004.

Wolf SL: The role of transcranial magnetic stimulation in evaluating cortical reorganization: Fact and fallacy. CIRRIIS, IRDPQ, Laval University, Quebec City, Quebec, Canada, May 31, 2004.

Wolf SL, Butler A, Alberts J: The Extremity Constraint Induced Therapy Evaluation (EXCITE) Clinical Trial: Linkages to ISEK, Key Note Lecture, ISEK 15th Meeting, Boston, MA, June 21, 2004.

Yue T, Wolf SL, Bottomley J: Introduction to Tai Chi, Pre-conference course, APTA, Chicago, IL, June 28-29, 2004.

Wolf SL: PT Knowledge Networks, Tai Chi, APTA, Chicago, IL, July 1, 2004.

CURRICULUM VITA- Steven L. Wolf

Wolf SL (moderator) with: S Binder-Macleod, S Deusinger, M Emery, M Goldstein, C Gula: Research Applications for Practice. , APTA, Chicago, IL, July 1, 2004.

Wolf SL, Bottomley J, Yue T: Reviewing Evidence and Exploring the Applications of Tai Chi Exercise: An Interactive Experience, APTA, Chicago, IL, July 2, 2004.

Sullivan K (moderator) with: P Duncan, L Hedman, C Winstein, G Hornsby, **SL Wolf**: Case Studies: Influence of Timing and Severity on Post-stroke Rehabilitation Evaluation, Intervention, and Outcome, APTA, Chicago, IL, July 2, 2004.

Winstein CJ, Taub E, **Wolf SL**, Morris DM, Miller JP, Duncan PW, Uswatte G: Implementation of a multi-site clinical trial in rehabilitation: lessons from EXCITE. Evidence-Based Rehabilitation: Linking Science, Practice and Policy. American Congress of Rehabilitation Medicine- American Society of Neurorehabilitation, Ponte Verde Beach FL, September 12, 2004.

Wolf SL: Recent advances in Tai Chi research. Wesley Woods Geriatric Center, Emory University, Atlanta, GA, September 30, 2004.

Wolf SL: From Tibialis Anterior to Tai Chi: Reflections on a 30Year Odyssey. Physical Therapy Association of Georgia Fall Conference, Callaway Gardens, Pine Mountain, GA, October 16, 2004.

Wolf SL: Constraint Induced Movement Therapy, “Stroke Symposium: Stroke and Women”, Penn State University, Hershey Medical Center, Hershey, PA, October 20, 2004.

Wolf SL: Planning the trial from the PI’s point of view: The EXCITE Trial Experience. Multi-site Clinical Trials in Rehabilitation Medicine, Rehab West Network, Denver, CO, October 22, 2004.

Wolf SL: Constraint Induced Movement Therapy: The Development of a Clinical Trial. National Rehabilitation Hospital, Washington, DC, November 5, 2004.

Wolf SL: Stroke / Constraint Induced Movement Therapy / EXCITE. Braintree Rehabilitation Hospital 25th Annual Neurorehabilitation Conference on Traumatic Brain Injury, Stroke and Parkinson’s Disease, Boston, MA, November 13, 2004.

Wolf SL: The Role of Transcranial Magnetic Stimulation (TMS) in Assessing Massed Practice Cortical Reorganization: Is the Evidence Really There? Braintree Rehabilitation Hospital 25th Annual Neurorehabilitation Conference on Traumatic Brain Injury, Stroke and Parkinson’s Disease, Boston, MA, November 13, 2004.

Wolf SL: KEY NOTE: From Feeling to Funding: The Evolution of a Clinical Trial in Rehabilitation. SAHP Research Day, Louisiana State University, New Orleans, LA, November 16, 2004.

Underwood J, Blanton S, **Wolf SL**, Clark, PC: Pain and fatigue related to constrain-induced therapy outcomes. 19th Southern Nurses Research Society, February 3, 2005, Atlanta, GA

Kleinedinst NJ, Clark PCC, **Wolf SL**: The relationship between caregiver and stroke survivor depressive symptoms. 19th Southern Nurses Research Society, February 3, 2005, Atlanta, GA

CURRICULUM VITA- Steven L. Wolf

Wolf SL: From Tibialis Anterior to Tai Chi: Reflections on a 30Year Odyssey of a PT Scientist Clinician. Hyman Dervitz Lectureship, Temple University, College of Health Professions, Department of Physical Therapy, Philadelphia, PA, February 17, 2005.

Wolf SL: Tai Chi Updates and Discussion: A Round Table, Neurology Section, APTA Combined Sections Meeting, New Orleans, LA, February 26, 2005.

Wolf SL: The EXCITE Trial as a model for randomized clinical trial research. Dept Rehabilitation Medicine; Resident's Grand Rounds, Atlanta, GA, March 24, 2005.

Wolf SL: The Role of Tai Chi exercises in preventing falls and promoting health in older adults. Together We Care. Long Term Care and Retirement Communities Convention and Trade Show. Toronto, Ontario, Canada, April 12, 2005.

Wolf SL: Organizing the constraint use trial for stroke. NIH-NICHHD, National Advisory Board on Medical Rehabilitation Research, Silver Springs, MD, May 2, 2005.

Wolf SL: Constraint Induced Movement Therapy and the EXCITE Trial. Stroke in the Prime of Life: Strategies for Optimum Recovery. Spaulding Rehabilitation Hospital and Network, Boston, MA, May 6, 2005.

Wolf SL: Contemporary Approaches to Rehabilitation: A Critical Review. Stroke: Improving the Chain of Recovery. Northeast Tennessee Stroke Network; Kingsport, TN, May 19, 2005.

Yue P, Bottomley J, Morrell J, **Wolf SL:** Tai Chi Fundamentals: Applications for Therapeutic Exercise and Functional Activities. APTA Pre-conference course, Boston, MA, June 7-8, 2005.

Wolf SL (moderator): Balance and Falls Platform Presentations, APTA Pre-conference course, APTA annual meeting, Boston, MA, June 9, 2005.

Gill-Body, K, Newton R, Ellis T, Pidgeon DM, **Wolf SL**, Craik R: Balance and Falls: Case Study Section. APTA annual meeting Boston, MA, June 10, 2005.

Goldberg A, Nitkin R, Banja J, Binder-Macleod S, Craik R, **Wolf SL:** Catherine Worthingham Forum: Genomics in Physical Therapy: Clinical Applications, Future Promises, and Ethical Considerations. APTA annual meeting Boston, MA, June 10, 2005.

Blanton S, **Wolf SL:** The relationship of constraint-induced therapy to functional recovery in a patient with sub-acute stroke: Implications for underlying plasticity. APTA 3-STEP Meeting, University of Utah, Salt Lake City Utah, July 17, 2005.

Wolf SL: Constraint Induced Movement Therapy: Are We Too Smitten with the Mitten? APTA 3-STEP Meeting, University of Utah, Salt Lake City Utah, July 19, 2005.

Wolf SL (moderator), Levin M, Kleim J, Shumway-Cook A, Gordon J: Setting the Agenda for Future Directions in Basic Research, Clinical Research and Clinical Practice. APTA 3-STEP Meeting, University of Utah, Salt Lake City Utah, July 21, 2005.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: What Do the EMG Components of TMS tell us about motor cortical organization of upper extremity function among patients with stroke? 17th Annual Meeting of Japan Neurorehabilitation Society. Tokyo, Japan, August 5, 2005.

Wolf SL: Constraint induced movement therapy in sub-acute stroke. Keio University, Tokyo, Japan, August 5, 2005.

Wolf SL and Blanton S: Bridging the Gap between Research and Clinical Practice: CI Therapy. Rehabilitation Hospital of the Cape and Islands, Sandwich, MA, September 16-17, 2005.

Wolf SL, Butler J, Blanton S: Methodology in Clinical Rehabilitation Research. Symposium for Translating Research on Neural Plasticity into Neurorehabilitation Therapies; World Congress of Neurology, Sydney, Australia, November 9, 2005.

Wolf SL: Keynote Speech: Constraint Induced Movement Therapy Following Stroke, Joint Conference of the National Neurology and Gerontology Groups, Australian Physiotherapy Association, Melbourne, Australia, November 17, 2005.

Wolf SL: Invited Speaker: Tai Chi for Falls Reduction in Older Adults, Joint Conference of the National Neurology and Gerontology Groups, Australian Physiotherapy Association, Melbourne, Australia, November 18, 2005.

Wolf SL: The EXCITE TRIAL: Is performing a multi-site randomized trial constraining? NIH-NCMRR Trainee Workshop, Rockville, MD, December 6, 2005.

Wolf SL: The EXCITE Trial: Formulation, Implementation and Findings. National Institute of Child Health and Human Development, Presentation to Council, NIH, Bethesda, MD, January 26, 2006.

Wolf SL (Organizer), Winstein C, Miller JP, Clark P: The EXCITE Trial Findings. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, February 3, 2006.

Wolf SL: Re-evaluating the basis of Constraint-Induced Movement Therapy for patients with stroke. Collaborative Evaluation of Rehabilitation in Stroke (CERIS), Leuven . Belgium, February 10, 2006.

Wolf SL: Methods of constraint-induced movement therapy for stroke patients and children with cerebral palsy: Evidence base, opportunities and limitations. Collaborative Evaluation of Rehabilitation in Stroke (CERIS), Leuven, Belgium, February 11, 2006.

Kleinedinst NJ, Blanton S, **Wolf SL,** Clark PC: Stroke Survivor and Caregiver Congruence of Depressive Symptom Appraisal. International Stroke Association Meeting, Kissimmee, FL, February 16, 2006.

Wolf SL, Winstein C, Miller JP, Taub E, Uswatte G, Morris D, Giuliani C, Good D, Light K, Nichols-Larsen D: The Extremity Constraint Induced Therapy Evaluation (EXCITE) Trial for Patients with Sub-acute Stroke. International Stroke Association Meeting, Kissimmee, FL, February 17, 2006.

Wolf SL: The EXCITE Trial: Findings and Implications. University of Maryland, Department of Physical Therapy, Baltimore, MD, March 10, 2006.

CURRICULUM VITA- Steven L. Wolf

Good D, Wittenberg G, **Wolf SL**: Neurorehabilitation: CNS Recovery and Reorganization through Therapy. American Academy of Neurology, San Diego, CA, April 2, 2006.

Juncos JL, **Wolf SL**: A Controlled Study of Aerobic Exercise and Chinese Exercise Modalities in Parkinson's Disease. American Academy of Neurology, San Diego, CA, April 6, 2006.

Wolf SL: The EXCITE Trial: Findings and Implications. University of California San Francisco, Department of Physical Therapy, San Francisco, CA, April 6, 2006.

Wolf SL (Key Note Address): An Alternative Use of Surface EMG: Transcranial Magnetic Stimulation to Assess Cortical Representation of Upper Extremity Movement. Association of Applied Psychophysiology and Biofeedback, Portland, OR, April 7, 2006.

Wolf SL: The EXCITE Trial: A Review of Outcomes. Department of Rehabilitation Medicine, Emory University School of Medicine, Grand Rounds, Atlanta, GA April 13, 2006.

Wolf SL (for the EXCITE Investigator Team): Evidence for constraint-induced (CI) therapy: Evidence from the EXCITE Trial. Evidence of Stroke Rehabilitation - Bridging into the Future. Gothenburg, Sweden, April 27, 2006.

Wolf SL: The Path Less Taken. Commencement speech to the first graduating DPT Class, Program in Physical Therapy, Columbia University, College of Physicians & Surgeons, New York, NY, May 16 2006.

Wolf SL: So Where are We in Utilization of Best Practice Patterns for the Treatment of the Upper Extremity Post-Stroke?. Eastern Regional Stroke Conference 2006: Collaborative Approach to Therapeutic Intervention, Greenville, NC, May 17, 2006.

Wolf SL: Stroke rehabilitation: Regenerative medicine accelerates healing. Stroke Care of the Future: Shifting Paradigms of Clinical Care. Neurosciences and Cardiovascular Services Intelligence Programs Conference. SG2. Rosemont, IL, May 23, 2006.

Wolf SL, Butler AJ, Blanton S: Perspectives on the Use of BOTOX and Spasticity. Allergan Inc, Irvine, CA, May 31, 2006.

Wolf SL (presented by S Blanton): KEY NOTE SPEECH: East-meets-West in Sports and Health Promotion: Tai Chi as an exercise for older adult fallers: A Critical Evaluation. The 5th Pan-Pacific Conference on Rehabilitation and the Pre-FIMS World Congress of Sports Medicine, 2006. Hong Kong, June 9, 2006.

Wolf SL and Blanton S (presented by S Blanton), Workshop: Repetitive Task Practice Among Patients with Stroke: The Role of Constraint Induced Movement Therapy. The 5th Pan-Pacific Conference on Rehabilitation and the Pre-FIMS World Congress of Sports Medicine, 2006. Hong Kong, June 10, 2006

Wolf SL (Moderator), Goldberg A (organizer), Curtis A, Greenfield B, Pursar J: Genomics education for the contemporary physical therapist, American Physical Therapy Association annual meeting, Orlando, FL, June 22, 2006.

Wolf SL: Knowledge Networks, "New Investigators", American Physical Therapy Association annual meeting, Orlando, FL, June 22, 2006.

CURRICULUM VITA- Steven L. Wolf

Wolf SL: The EXCITE Trial, Neurology Journal Club, Emory University, June 27, 2006.

Wolf SL: Recent advances in Tai Chi for fall reduction in older adults. PM&R Residents Training, Emory University School of Medicine, June 29, 2006.

Publicity in Print—Tai Chi Studies

Newspaper

- a. "Tai Chi restores litesome life to retirees: Chinese exercise helps to improve balance, confidence." Atlanta Journal and Constitution, Connie Farrow. 4-19-98.
- b. "Seniors Use Tai Chi for Agility" AOL News, Associated Press. 4-8-98.
- c. "Benefits found in ancient exercise" Life Times 10-97.
- d. "Inner Peace, Outward Power: Gentle Tai Chi strengths body and mind." The Plain Dealer, Brody, J.E., 8-18-97.
- e. "Tai Chi offers gentle, stylized exercises to tone the body and soothe the spirit." The New York Times, Brody, J.E. 7-16-97.
- f. "A widening appreciation for benefits of tai chi" USA Today, Hainer, C. 5-15-97.
- g. "A 300-year-old exercise regimen form China is helping older Americans – including Atlantans – stave off falls and frailty" Atlanta Journal and Constitution, McKenna, M.A.J., 4-27-97.
- h. "Tai chi: moving meditation" Staten Island Advance, Reel, T.9-16-96.
- i. "Tai chi found to help seniors keep balance, prevent falls" American Medical News, Assoc. Press, 6-3-96
- j. "How a martial art can fight for elders" Boston Globe 5-2-96.
- k. "Tai chi can help seniors' balance" USA Today, Levy, D. 5-2-96.
- l. "Balancing Acts how exercise can help seniors prevent falls" Washington Post, Krucoff C., 4-30-96.
- m. "Tai Chi: Chinese exercise puts balance back in the lives of seniors" Detroit News, Price, D. 9-14-95.

Magazines

- a. "Moving Meditation. Medical researchers are discovering that the ancient Chinese martial art of Tai Chi has benefits for seniors, including lowering blood pressure." Saturday Evening Post, Kurcoff, C. July/August '98.
- b. "Applying Tai Chi as an exercise for older adults." The Older Learner, Wolf, S.L., winter '97-'98.
- c. "Free from falling" Arthritis Today, Sherpherdson, N. 9-10-97.
- d. "Vanishing Flesh: Muscles loss in the elderly finally gets some respect" Science News, Raloff, J., 8-10-97 .
- e. "What Is a Good Physical Exam?" Harvard Health Letter, Baer, K. 7-97
- f. "A Movement Toward Tai Chi" Harvard Health Letter, 7-97.
- g. "Nobody says it will pump up our muscles or burn fat. And there isn't much..." Cooking Light , Schmid, J. 5-97 draft.
- h. "Ancient Chinese secret" Shape , Bennet, J. 3-97.
- i. "Tai chi exercises help older people improve their balance" Tomorrow 2-97.
- j. Modern Maturity, Rider, A. 2-97 draft.

CURRICULUM VITA- Steven L. Wolf

- k. "Legends of the Falls" Prevention, Chan, P.T., 12-96.
- l. "Tai chi helps prevent falls in elderly" Better Homes and Gardens, 12-96.
- m. "Fall Reduction, the Tai Chi Way" Falls, fall-96 Draft.
- n. "Tai Chi Benefits Cited in Scientific Studies and Editorial" Tai Chi 8-9.
- o. "Martial Arts in Physical Therapy" PT Magazine, May 2002, 42-26.
- p. Tai Chi might help elderly avoid falls. ReutersHealth.com, January 15, 2004.
- q. "The Gentle Power of Tai Chi", Atlanta Journal Constitution, March 18, 2004.
- r. "Frailty poses training challenge for tai chi outcome researchers" Biomechanics, vol 11, March 2004, pp 19-20.
- s. Stroke Rehabilitation, NY Times, June 22, 2004.
- t. Robotics Guide Stroke Patients' Recovery. ABC World News Tonight with Peter Jennings. May 17, 2005.
<http://www.abcnews.go.com/WNT/Health/story?id=762873&page=1>
- u. Robotics in rehabilitation. WSB-TV and Randy Martin, M.D., May 18, 2005.
- v. Locals to participate in stroke conference. The Patriot Ledger, September 13, 2005.
- w. The Mind/Body Benefits of Martial Arts by Arthur Rosenfeld, Parade Magazine, October 9, 2005, pp14-15.
- x. A New Rehab Trend (MB Nelson, writer), Stroke Smart Magazine, November/December 2005, page 28.
- y. New Twist on Tai Chi, The Center for Women's Healthcare, Living Fit section, December 2005, pp 4-5.

RADIO/TV

WXIA-TV, Tai Chi applications to the elderly. CNN-Newsmaker, Exercise for the elderly. April 17, 1990.

WSB-AM radio. The aging of America, June 18, 1990.

CNN-TV. Tai Chi Exercise in the Elderly, April 9, 1991.

National Public Radio (NPR): Tai Chi Reduces Falls in the Elderly (with Wendy Schmerkle), May 2, 1996.

WSB-TV, Falling in the Elderly, May 5, 1996.

CBS Television. Tai Chi and Fall Reduction in the Elderly, June 7, 1996.

Public Broadcasting Service (PBS). Tai Chi and Falls' Prevention, June 9, 1997.

Doc Talk (with E. Taub, Ph.D. and B. Goodman, M.D.), WAPI, Birmingham, AL, December 27, 1997.

NBC Nightly News with Tom Brokaw, April 20, 1998

Mind-body interactions and control of movement in older adults. Public Broadcasting Station, filmed August 27-28, 1998

Exercise to prevent falls in older adults. A response to the Finnish study on Falls in the Elderly (JAMA, May 24, 1999), CNN May 26, 1999

CURRICULUM VITA- Steven L. Wolf

Tai Chi for older adults. VIV-AM Radio, Bogota, Columbia, November 28, 2000.

Constraint induced movement therapy for stroke patients. NBC-TV (New York), December 11, 2000.

Exercise and depression. Fuqua Depression Center, Emory University, February 17, 2003.

A Long Time Red Sox Fan Rejoices in An American League Pennant, NPR (Weekend America), KUVO Radio, Denver, Co, October 23, 2004 (interview with Bill Radke and Barbar Begave)

The Curse Is Over, The Red Sox World Series Parade Celebration, NPR (Weekend America), KQED Radio, San Francisco, CA, October 30, 2004 (interview with Bill Radke and Barabara Bogave)

VIDEOTAPES: (Directed or Edited by Steven L. Wolf)

V-1 "Principles of electrode care, maintenance and application" --Gary DeBacher, Ph.D.

V-2 "Biofeedback and the treatment of the cerebral palsy patient" --Mary Baker, R.P.T. and Steven L. Wolf, Ph.D., R.P.T.

V-3 "Biofeedback and the treatment of the spinal cord injured patient" --Eleanor Regenos and Steven L. Wolf, Ph.D., R.P.T.

V-4 "Biofeedback and the treatment of the stroke patient" --Mary Baker, R.P.T. and Steven L. Wolf, Ph.D., R.P.T.

V-5 "Relaxation Training" --Paul Fair, Ph.D.

V-6 "Dialogue with vocational rehabilitation supervisors" --Steven L. Wolf, Ph.D., R.P.T. and Eleanor Regenos

V-7 "Biofeedback and the treatment of the spinal cord injured patient" --Mary Baker, R.P.T. and Steven L. Wolf, Ph.D., R.P.T.

V-8 "Biofeedback and the treatment of the stroke patient" --James Kelly, R.P.T. and Steven L. Wolf, Ph.D., PT.

V79-1 "Biofeedback and the treatment of the stroke patient" --James Kelly, R.P.T. and Steven L. Wolf, Ph.D., R.P.T.

V79-2 "Biofeedback and the treatment of the spinal cord injured patient" --Eleanor Regenos and Steven L. Wolf, Ph.D., R.P.T.

V79-3 "Biofeedback and the treatment of the spinal cord injured patient" --Marilyn Nacht, R.P.T. and Steven L. Wolf, Ph.D., R.P.T.

V79-4 "Biofeedback and the treatment of the stroke patient: --James Kelly, R.P.T. and Steven L. Wolf, Ph.D., R.P.T.

CURRICULUM VITA- Steven L. Wolf

V79-5 "EMG Biofeedback: Evaluation of a target muscle" --Mary Baker, R.P.T., James Kelly, R.P.T. and Steven L. Wolf, Ph.D., R.P.T.

V84-1 "Introduction to EMG training" --Biofeedback Certification Institute of America.

V84-2 "Introduction to thermal training" --Biofeedback Certification Institute of America--Ron Seifert, Ph.D.

V84-3 "Assessors' guide to the practical examination" --Biofeedback Certification Institute of America--Jan Hughes, M.E.d. and James Kelly, R.P.T.

V84-4 "Anatomical review for surface electromyographic recording: The upper extremity" --Emory University Rehabilitation Research and Training Center.

V84-5 "Anatomical review for surface electromyographic recording: The lower extremity: --Emory University Rehabilitation Research and Training Center.

V84-6 "Anatomical review for surface electromyographic recording: The back and face" --Emory University Rehabilitation Research and Training Center.

V84-7 "Motor copy procedures among neurological patients" --Emory University Rehabilitation Research and Training Center.

ADDITIONAL VIDEOTAPES:

Wolf SL Treatment of neuromuscular disorders with biofeedback, Pacific Institute, San Francisco, CA. September, 1978.

Wolf SL Biofeedback applications in rehabilitation, Cordis Corporation, Miami, FL, July, 1981.

Wolf SL Anatomical review for surface electromyographic recording: I. The upper extremity, Emory University, Atlanta, GA. 1986.

Wolf SL Anatomical review for surface electromyographic recording: II. The lower extremity, Emory University, Atlanta, GA. 1986.

Wolf SL Anatomical review for surface electromyographic recording: III. The back and face, Emory University, Atlanta, GA. 1986.

Wolf SL Anatomical review for surface electromyographic recording: II. The back and face, Emory University, Atlanta, GA. 1986.

Wolf, SL (with S. Binder-Macleod): How to critically evaluate a poster presentation. American Physical Therapy Association annual meeting, San Diego, CA, June 1, 1997.

AUDIOTAPES

Wolf SL Treatment of neuromuscular problems, biofeedback review seminars, UCLA Extension, Los Angeles, 1982 (revised 1985, revised 1991).

CURRICULUM VITA- Steven L. Wolf

Wolf SL Treatment of musculoskeletal problems, biofeedback review seminars, UCLA extension, Los Angeles, 1982 (revised 1985; revised 1991).

TEACHING

Topics in Neuroscience 1975-82

Human Anatomy 1975-Present

Physical Therapy Educational Program 1975-Present

Resident or Medical Student Research Project Oversight and Mentorship

Sam Wright, M.D., 1978

Alan Teidrich, M.D., 1980

Richard Levin, med. student, 1986

Marian Evatt, med. student, 1987

Eric Blake, med. student, 1994

Mary Elliott M.D., 1993-96

Yong Lee, M.D., 1993-96

Michael O'Grady, M.D. (1996-)

Heather Baer, M.D. (1997-2000)

Susan Hage, M.D. (1998-2000)

Reto Kressig, M.D. (1999-2001)

Laura Hatch, M.D. (2000)

Rana Murhatiz, M.D. (2000)

Matt Hausman, med student, 2001

Scott Corneal, D.O. (2001-2003)

Shannon Kahn, medical student, 2002

John Keel, M.D., 2002-03

Doctoral/Post-doctoral Awards (Advisor)

Lisa Riolo, Ph.D., P.T. Career Development Award, Veteran's Administration No.D0912 CD, 1998-2002, "Role of attention status in fall risk in older adults" (SL Wolf, W D'laune, JO Ouslander, Advisors).

Michael O'Grady, M.D. Hartford Foundation Fellowship, 1999-2000, "A blinded study on the role of exercise and testosterone patch administration on lower extremity muscle strength in older adult men" (SL Wolf, JL Tenover, JO Ouslander, Advisors).

Chris Haas, Ph.D., 2001-2003, "Gait analyses of patients with Parkinson's Disease who receive Tai Chi, Qi Gong or Aerobic Exercise" (Jorge Juncos, Steve Wolf, and Bob Gregor, Advisors).

Park, Wong Lee, M.D., 2003- Tai Chi and falls in older adults.

Doctoral/Post-doctoral Advisor (Mentor)

Lisa Riolo, Ph.D., PT

Reto Kressig, MD

CURRICULUM VITA- Steven L. Wolf

Pat Clark, Ph.D., RN
Andrew Butler, Ph.D., PT
Si Woon Park, M.D.
Tanya Miszko, E.Ed.
Nkruka Arene, M.D.
Susan Duff, Ph.D., OT
Lumy Sawaki, MD, Ph.D.

Undergraduate Biology Student Directed Studies

Melissa Mann (with Rick Segal, Emory University): Selective activation of human biceps brachii muscle compartments during elbow and shoulder movements.

Josh Ammerman: (Emory University) Selective activation of lateral gastrocnemius compartments during random perturbations in standing human subjects.

Janet Kim (Emory University): Morphology and Cytoarchitecture of human medial gastrocnemius and tibialis anterior muscles.

Matthew Owen (Emory University): Muscle responses to graded activation of human tibialis anterior compartments.

Charles Gibson (Xavier University, New Orleans): The effect of pre-activation of extensor digitorum communis on TMS recruitment curves in able bodied adults.

Neuroscience Graduate Students

Carey Zink (2001)
Shivali Dhruv (2003)

Titles of PT Graduate Student Master's of Science Theses at Emory:

George Carvelle "A Diabetic Animal Model of Peripheral Neuropathy"

Meryl Gersh "Effect of TENS on Induced Ulnar Nerve Pain"

Stuart Binder-
Macleod "Evaluation of EMG Biofeedback as an Adjunct to Therapeutic Exercise in The Treatment of the Lower Extremity in Hemiplegic Patients"

Carol Moll "Evaluation of EMG Biofeedback as an Adjunct to Therapeutic Exercise in The Treatment of the Lower Extremity in Hemiplegic Patients"

John Grossi "Applied Kinesiology Technique to Human Quadriceps Muscle"

Patti Carey "Validating Output From the Krusen Limb Load Monitor for Clinical Gait Measurement"

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- Carol Ostendorf "Effect of Learned Non-use in Recovery from Hemiplegia"
- Maureen Holden "Developing a Model for Gait Analysis"
- Bruce Greenfield "The Influence of Cephalometric Ear Rods on the Position of the Head and Neck Made During Postural Recordings"
- Richard Nyberg "Reliability of Two Clinical methods In Analyzing Forward Bending of the Lumbar Spine"
- Lois Barnhart Wolf "The Relationship Between Integrated Electromyographic Activity in the Lumbar Portion of the Erector Spinae-and Active in Young Women Without Low Back Pain"
- Ron Renz "Validating the Orthoranger as an Upper Extremity Measurement Tool"
- Mary Clapper "Comparison of the Reliability of the Ortho-Ranger and the Standard Goniometer for Assessing Active Lower Extremity Range of Motion"
- Mohammad Gharavi "The Effect of Low Frequency vs High Frequency Electroacupuncture on Pain in Patients"
- Deanna LaVasseur "Reliability of an Ear Rod Technique to Measure Cervical Spine"
- Brian Tovin "Comparison of the Effects of Exercise in Water and on Land on the Rehabilitation of Patients With Intra-articular Anterior Cruciate Ligament Reconstructions"

Graduate Student Group Master's in Physical Therapy Research Project

- Tim McMahon, Tom Pianta, Linda Couch, Laura Mason, Theresa Craft : Normalized electromyographic activity patterns in human extensor carpi radialis long and flexor carpi radialis muscles
- Sarah Blanton, Nancy Lehrer, Dafna Schroeder, Julie Edelman: Overcoming limitations in elbow movement in the presence of antagonist hyperactivity
- DeCamp MJ, Chopp MT: Anatomical orientation of human multiarticular muscles
- Gabrielson L, Kassel T, Martin S: Contralateral biceps brachii stretch reflex changes to ipsilateral training
- Tshorn J, Raleigh T, Pate P, Kontos H: Influence of biceps brachii muscle length and stretch on response characteristics in stroke patients
- Byrne C, Palm T, Snyder A, Sedgwick D: Effect of center of pressure feedback on postural stability in older, non-fallers
- Slaven R, Taffs J, Trees H, Vickers E: Conditioning of the biceps brachii long latency stretch reflex
- Rosen L, Hahne B, Booker C: Consistency of responses to random postural perturbations in older individuals

CURRICULUM VITA- Steven L. Wolf

Bonner B, Marks M, Weston M: Up-training vertical loading responses in older adults

Gage K, Gurucharri K, Robertson R, Stephen K: Establishing the reliability and validity of the Functional Ambulation Profile

Fulton K, Long A, Marcuzzi K, Morley W: Comparison of continuous and intermittent EMFG feedback during acquisition of a reaching task

Ellis M, Link A, Morgan B, Piacentino A: Determining the reliability and validity of the Wolf motor function test

Graduate Student Group Doctorate in Physical Therapy Research Project

Danielle Struys, Georgette Campana, Trinity Mueller, Sarah Winstein: Determining the reliability of EDC maps using TMS in able-bodied subjects.

Jill McJunkin, Marci Swanson: Establishing normative data bases for the Wolf Motor Function Test

Doug Maddy, Heather Newton: The relationship between intensity of training and outcomes in the EXCITE Trial.

Extramural Graduate Students (doctoral)

Carol Coogler "Determining lower extremity dominance" (Boston University)

Caroline Goulet "Effects of Transcutaneous Electrical Stimulation on the H-reflex of Triceps Surae Muscles" (University of Montreal)

Patricia Goldie "Standing balance and gait following stroke: Initial deficit, change and outcome during rehabilitation" (La Trobe University)

Kristina Beekhuizen (University of Miami)

Johanne Higgins (McGill University)

Gelsy Torres-Olviedo (Georgia Tech)

Ruth Baxter, Queensland University (Australia)