

CURRICULUM VITAE

Betty S. MacNeill, PT, MEd

February 20, 2009

Education

PostProfessional-DPT	2008	Physical Therapy Program, Hardin-Simmons University
MEd in Allied Health	1976	Allied Health Education, University of Houston
BS in Physical Therapy	1971	Physical Therapy, Texas Woman's University

Professional Certification/Licensure

Physical Therapist, Texas - License #1001584

Employment

Dates of employment, title, institution/business name

1993-Present	Associate Professor, School of Physical Therapy	Texas Woman's University
1987-Present	Coordinator of Entry-Level Studies, School of Physical Therapy	Texas Woman's University
2002 – 2004	Interim Associate Director, TWU School of PT – Houston Center	Texas Woman's University
1981-1993	Assistant Professor, School of Physical Therapy	Texas Woman's University
1973-1981	Instructor, School of Physical Therapy	Texas Woman's University
1992	Contract Physical Therapist	Fort Bend Pediatric Services, Rosenberg, Texas
1979-1990	Prepared Childbirth Instructor	Houston Organization for Parent Education
1984	Part-time Staff Physical Therapist, Orthopedic/Acute Care	Southwest Memorial Hospital, Houston, Texas
1983	Part-time Staff Physical Therapist, Rehabilitation Unit	Southwest Memorial Hospital, Houston, Texas
1979	Part-time Staff Physical Therapist	Houston Orthopedic Service
1977-1978	Part-time Staff Physical Therapist	St. Anthony Center, Houston, Texas
1973	Staff Physical Therapist	Houston Physical Therapy Service
1971-1973	Staff Physical Therapist	Texas Rehabilitation Hospital, Gonzales Warm Springs Foundation

TEACHING

Courses Taught at TWU

Include course number and title; list only organized courses; separate graduate and undergraduate

- PT 5011 – Seminar I (Fall Semester: 1989-1993)
- PT 5013 – Applied Lifespan Development (Spring Semester: 1991-2007)
- PT 5023 – Neural Basis of Motion I (Summer Semester: 1981 and assisted in subsequent offerings of the course)
- PT 5024 – Clinical Neuroscience (Spring Semester: 1990-1993; continue to Guest Lecture for 4 hours every Spring)
- PT 5071 – Applied Physical Therapy Evaluation (Spring Semester: 1990-2002)
- PT 5072 – Lifespan Development: Adolescence to Geriatrics (Fall Semester: 2007; provided content associated with Motor Control and Motor Learning)
- PT 5073 – Evaluation and Assessment in Physical Therapy (Spring Semester: 1990-1992)
- PT 5153 – Physical Therapy Treatment Procedures (Fall Semester: 1990-2006)
- PT 5191 – Applied Neurorehabilitation (Spring Semester: 1992-2004)
- PT 5193 – Therapeutic Activities for the Rehabilitation Patient (formerly Therapeutic Activities III) (Spring Semester: 1992-2003 and continue to provide 1 session related to the management of Parkinson Disease)
- PT 5801 – Patient Care Seminar (Summer Semester: 1991-2008)
- PT 5811 – Introduction to Physical Therapy Skills (Fall, 2004-Present)
- PT 5903 – Evaluation and Management of Individuals with Balance Disorders (formerly Neural Basis of Motion II) (Spring: 1998, Fall: 2000)
- PT 5903 – Evaluation and Management of Individuals with Basal Ganglia Movement Disorders (formerly Neural Basis of Motion III) (Fall: 1998, Spring: 2001, Fall: 2003)
- PT 5903 – Evaluation and Management of Individuals with Cognitive, Stroke, and Motor Cortex Pathologies (formerly Neural Basis of Motion IV) (Spring: 1999, Fall: 2001)
- PT 5903 – Special Topics (Elective) in Pediatrics (Summer: 2001-Present)
- PT 5523 – Pediatric Neuroscience (May Minimester: 2002, Spring: 2003-Present)
- PT 5533 – Motor Behavior in Pediatrics (Fall: 2002-Present)
- PT 5543 – Pediatric Outcome Measures (Fall: 2002-Present)
- PT 5913 – Professional Project (Summer: 2001)
- PT 5871 – Professional Project I (Summer: 2002-2007). Schedule changed to Fall beginning in 2008.
- PT 5881 – Professional Project II (Summer: 2002-2007)
- PT 5891 – Professional Project III (Summer: 2002-2008)
- PT 5973 – Professional Paper (Summer: 1990-2000, 2002, Fall: 2004)

Doctoral Dissertations

Not applicable

Master's Theses

- “The Use of the Cybex II Trunk Extension/Flexion Unit to assess the trunk strengths of Nurses, Housekeepers, and Ancillary Staff, Ages 30 to 50” 1990 (Committee member)
- “Effect of Clinical Education on Learning Styles of Physical Therapy Students” 1988 (Chair)
- “Effect of Fluidotherapy and Whirlpool on Hand Volume with respect to time after Treatment” 1988 (Chair)
- “Cranial Laser Stimulation as an Adjunct Facilitation for Increasing Upper Extremity Strength” 1988 (Committee member)
- “Comparison of Gait Characteristics in two groups of Hemiplegic Subjects” 1987 (Chair)
- “The Aerobic Capacity of Pregnant Women during Non-weight bearing versus Weight-bearing exercise” 1987 (Chair)
- “Prevalence and Management of Diastasis Rectus in Pregnant Women” 1986 (Committee member)
- “Oxygen Consumption in Healthy Women and Women with Coronary Artery Disease” 1983 (Committee member)

Master's Professional Papers/Projects – Last 10 years only

- “Video Supplementation for learning ROM skills in a physical therapy program” 2008 (Chair)
- “Applying a Model of Evidence Based Practice: Interacting with the APTA ‘Hooked on Evidence’ Database” 2007 (Chair)
- “Development of an Audiovisual Teaching Aid for Basic Clinical Skills” 2007 (Chair)
- “Comparison of Functional Abilities in Four Groups of Community Dwelling Elders” 2006 (Chair)
- “Can the Senior Fitness Test Assess Functional Fitness in Patients with Parkinson Disease?” 2006 (Chair)
- “Impact of Body Weight Support Treadmill Training on Heart Rate, Blood Pressure, and Walking Pattern of an Individual with Hemiparesis” 2005 (Chair)
- “Effect of Speed Dependent Body Weight Supported Treadmill Ambulation Training on gait velocity and functional mobility in a patient with hemiplegia: Subject 2” 2005 (Chair)
- “Effect of Speed-Dependent Treadmill Ambulation Training on gait characteristics of a patient with hemiplegia: Subject 2” 2005 (Chair)
- “Effect of Treadmill Ambulation on Walking Endurance of a Subject with Hemiplegia” 2005 (Chair)
- “Volitional and Reflex Modulation in Closed and Open Kinetic Chair Activities of the Upper Extremities in Healthy Individuals” 2004 (Committee member)
- “Effect of Speed-Dependent Treadmill Ambulation Training on gait characteristics of a patient with Hemiplegia: Subject 2” 2004 (Chair)
- “Effect of Speed-dependent Treadmill Ambulation Training on the Gait Characteristics of a patient with hemiplegia: Subject 1” 2004 (Chair)

- “A Ten-year Review of a Child with Spastic Diplegia utilized as an Educational Tool for Instruction in Physical Therapy” 2003 (Chair)
- “Effect of Body Weight Supported Treadmill Ambulation Training on the Number of Falls in Individuals with Parkinson’s Disease” 2003 (Committee Chair)
- “An Online Physical Therapist Assistant Survey Investigating the Interest of a Possible Bridge Program to Physical Therapy School” 2003 (Chair)
- “A Survey Investigating the Educational Aspirations of Physical Therapist Assistants” 2002 (Chair)
- “The Effects of an Individualized Physical Therapy Program for an Early Onset Parkinson’s Disease Patient with Bilateral Pallidotomies: A Case Study” 2002 (Chair)
- “Pilates as a Rehabilitation Method for post-partum recovery and weight management: A Review of the Literature” 2001 (Chair)
- “Therapeutic Management of Children with non-spastic Cerebral Palsy: A Review of the Literature” 2001 (Chair)
- “Osteoporosis and Women’s Health throughout the Lifespan: Implications for Physical Therapists” 2000 (Chair)
- “Ambulation Prognosis for Children with Cerebral Palsy of Spastic Quadriplegia Type” 1998 (Chair)
- “Determination of the Efficacy of Service Delivery Models for Physical Therapy in the Public School System” 1998 (Chair)
- “Prevalence of Lower Extremity Problems in Pregnant Women and Associated Physical Therapy Interventions: A Literature Review” 1998 (Chair)
- “Pregnancy and Back Pain: Pathology, Treatment, and the Role of the Physical Therapist” 1998 (Chair)
- “The Development of an Educational Video in Spanish on the Pathology of Diabetic Foot Ulcers” 1998 (Chair)
- “An Educational Video in Spanish on the Prevention and Treatment of Diabetes-related Foot Ulcers” 1998 (Chair)
- “Outcome Analysis Using a Stroke Clinical Pathway in Rehabilitation” 1998 (Committee member)

Other Scholarly Teaching, Mentoring and Curricular Achievements

In Spring 2007, I facilitated the participation of approximately 12 students who administered a "Senior Fitness Test" to individuals visiting a health fair at Westbury United Methodist Church.

In Spring, 2006, I arranged for and accompanied students in 2 community-based learning activities: Evaluation of children ages 4 months to 5 years in an area Day Care Facility and Evaluation of elderly clients participating in an Aquatic program at the Metropolitan Multipurpose Center in Houston.

I have also had students accompany me in 2006 during my community-based exercise groups with individuals with Parkinson Disease and during my class presentations on Body Mechanics and Transfers to local Caregiver groups.

SCHOLARSHIP/CREATIVE ACHIEVEMENTS

Refereed Publications or Other Creative Achievements

Published or completed works (accepted or in press) only. Works still "in progress" should be included under the category "Scholarly Works in Progress." Give author(s) name(s) in same order as they appear in the publication.

1. Books – NONE
2. Chapters – NONE
3. Articles (give author(s), title, journal, date and page numbers)
 - Suteerawattananon M, MacNeill B, Protas EJ: Supported Treadmill Training for Gait and Balance: A Case Report in Progressive Supranuclear Palsy. *Phys Ther.* 82:485-495, 2002
 - Protas EJ, Stanley R, Jankovic J, MacNeill BS: Cardiovascular and metabolic responses to upper and lower extremity exercise in men with idiopathic Parkinson's disease. *Phys Ther*, Jan., 1996
 - Protas E, Stanley R and MacNeill et al. Perceived exertion to upper and lower extremity exercise in older women. *Phys Ther* 72:S18, 1992.
 - Stanley R, Protas E, MacNeill et al. Comparison of measured and predicted values during aerobic exercise in elderly females. *Med. Sci. Sports Ex.* 24:S159, 1992.
4. Book reviews (include full publication data)
 - Served as a Book Reviewer for the 2nd edition of a physical therapy textbook entitled "Therapeutic Exercise: Moving Toward Function" in 2002-2003, Lippincott, Williams & Wilkins, Publ.
5. Other completed works (Be specific, i.e., author(s), title, press or journal, chapters completed or title of article, number of pages and expected date of publication)

6. Completed exhibitions, performances, productions, films, etc. (describe nature of accomplishment, location, dates, etc.)
7. Completed compositions, scripts, scores, commissions, etc. (Accepted or installed)
8. Other

Non-Refereed Publications or Other Creative Achievements

Give author(s) name(s) in same order as they appear in the publication.

1. Books –
 - MacNeill BS. Proper Movement Techniques for Caregivers and Clients. Chapter 1 in *Quality Caregiving: An Orientation Training for Direct Care Workers*. 2008, pp. 13-40.
 - Co-editor of the *Teaching Manual for Prepared Childbirth Education Classes* sponsored by the Houston Organization for Parent Education, 1987
2. Chapters – NONE
3. Articles (give author(s) title, journal, date and page numbers)
 - MacNeill BS: Getting your Arms and Hands in Shape - Part 1. **VA-PADRECC Pathways** newsletter, Vol. 7, No. 1, Summer 2008.
 - MacNeill BS: Posture – Improve Breathing and Digestive Processes. **VA Star**, March/April 2008 edition [This is a newspaper that is distributed to VA hospitals in Houston, Beaumont, Lufkin, Conroe, Galveston and Texas City]
 - MacNeill BS: Posture – Yesterday, Today, and Tomorrow (Part 1). PADRECC Pathways Newsletter, Vol 6, No 1, 2007 [Special Note: This article was subsequently published in the PFHC Bulletin (April 2007) and in the VA Pride newspaper (May/June 2007) that is distributed to VA hospitals in Houston, Beaumont, Lufkin, Conroe, Galveston and Texas City.]
 - MacNeill BS: Posture – Yesterday, Today, and Tomorrow (Part 2). PADRECC Pathways Newsletter, Vol 6, No 2, 2007
 - MacNeill BS: Get Up and Go. Winter Newsletter for PADRECC Pathways Newsletter, 2006
 - Trail M, Nelson ND, Whitehead A, Lai EC, Protas E, Zabransky R, MacNeill B, Crist K: Higher Education: Locating an appropriate continuing education seminar can be difficult. The answer may be to hold your own. *Advance for Directors in Rehabilitation*. December 2006 [Special Note: This article was subsequently published in the July 23, 2007 issue of *Advance for Occupational Therapy Practitioners*]
 - MacNeill BS: Direct Access: An Issue in Education today. *Physical Therapy Today*, Spring Issue, 1991.
 - MacNeill BS: What is Physical Therapy? for a Houston Chronicle special supplement to recognize Physical Therapy Week, Oct. 7-11, 1991
4. Book reviews (include full publication data)

5. Other completed works (accepted or in press) (Be specific, i.e., author(s) title, press or journal, chapters completed or title of article, number of pages and expected date of publication.)
 MacNeill BS: Getting your Arms and Hands in Shape - Part 2. **VA-PADRECC Pathways** newsletter, Vol. 8, No. 1, Spring 2009.
6. Completed exhibitions, performances, productions, films, etc. (Describe nature of accomplishment, location, dates, etc.)
7. Completed compositions, scripts, scores, commissions, etc. (Accepted or installed).
8. Other

Presentations at Professional Meetings

Include meeting name and professional organization, place, date, title of paper, poster, etc., and publication information, if appropriate.

MacNeill BS: “The Role of Balance in Fall Prevention: Intervention ideas for improving balance reactions in individuals with PD” Invited speaker for the PADRECC Allied Health Symposium entitled *Rehabilitation for Patients with Parkinson’s Disease: Where Are We Now?*, Houston, TX June 7, 2008

MacNeill BS: “Reaching for Better Posture” Invited speaker for a quarterly meeting of the VA PADRECC Support Group, May 2, 2008 in Houston, TX

MacNeill BS, Hopp J, Smith T: Applying a Model of Evidence Based practice: Interacting with the APTA “Hooked on Evidence” Database. Poster Presentation at the Texas Physical Therapy Association during the Oct. 18-21, 2007 Annual Conference. Galveston TX

MacNeill BS, “Is your life in balance? Some ideas for reinforcing balance reactions.” Invited speaker for a quarterly meeting of the VA PADRECC Support Group, September 7, 2007 in Houston, TX

MacNeill BS, Kota L: Effect of Speed-Dependent Treadmill Ambulation Training on the Gait Characteristics of a Patient with Hemiplegia: A Case Study. Poster Presentation at the Texas Physical Therapy Association during the 2005 Annual Conference.

Panel Moderator for afternoon session of “Cognitive Issues and Depression in Patients with Movement Disorders: Implications for Treatment” offered during the PADRECC Allied Health Symposium, Houston, TX June 14, 2004

MacNeill BS: “Management of Balance Problems in Clients with Parkinson’s Disease” offered during the PADRECC Allied Health Symposium entitled *Assessment and Treatment of patients with Parkinson’s Disease: A Rehabilitative Approach*, Houston, TX June 27-28, 2003

MacNeill BS, Peery S, Kimpel S, May A: Effect of an Exercise Program for a Parkinson’s Patient with Bilateral Pallidotomies: A Case Study. Poster Presentation at the American Physical Therapy Association for the 2003 Combined Sections Meeting.

Suteerawattananon M, MacNeill B, Protas EJ: Supported Treadmill Training for Gait and Balance: A Case Report in Progressive Supranuclear Palsy. Annual Meeting of the Texas Society of Allied Health Professions, Edinburg, TX, 2001

Fredette D, Protas EJ, Olson S, Scheib D, MacNeill B, Pauls J, Sherry L. Risk for frailty screen in an African-American geriatric population. American Physical Therapy Association, Combined Sections Meeting, Seattle, WA, 1999

Fredette D, Protas EJ, Olson S, Overby A, Pauls J, Chen B, MacNeill B, Scheib D, Green G, Sherry L. A risk for fall screen in a multi-ethnic sample of community-dwelling elders. American Physical Therapy Association Annual Conference and Exposition, Washington, DC, 1999

Honors, Grants, and Fellowships

List all fellowships and financial support for research and scholarship, both internal and external, indicating period of award, amount awarded and role (principal investigator, co-principal investigator, or other role.)

Outstanding Mentor Redbud Award (Houston)	2004-2005
Outstanding Faculty Redbud Award (Houston)	2002-2003
Humphries Award for Dedication to TWU	2003
School of Physical Therapy Alumni Award	1991
Outstanding Teacher at the Houston Center	1978-1979

Scholarly Works in Progress

Include expectations as to when each will be completed and in what form it will appear.

A single case study research project was initiated in Fall, 2008 to analyze the impact of trunk strengthening exercises on the postural alignment and balance dysfunctions of an individual with Parkinson disease. Data collection has been delayed due to health problems with the subject, so completion of the work is not scheduled until end of Spring. It is hoped that the results of this work can be shared during the Annual TPTA Conference in 2009.

Other Research and Creative Achievements

July 2008: Became a back-up blinded assessor for a research project through NIH and TIRR studying the impact of gait training for patients with strokes utilizing an automated system known as the Lokomat.

Spring 2008: Began collaboration with Dr. Max Kurz at the University of Houston, Department of Health and Human Performance, Laboratory of Integrated Physiology to recruit and track clients with Parkinson disease for his motor control research projects. In July, an abstract for a poster entitled "Parkinson's disease influences the regularity of the structural variations present in a simple leg swing" was submitted for acceptance at the 2008 Annual Meeting National Center for Human Performance held in Houston, TX on November 7, 2008

PROFESSIONAL SERVICE

Governance and Other Professionally Related Service

Interim Associate Director, School of Physical Therapy in Houston	2003-2004
TWU Faculty Senate	1996-2000
Served on the Elections and Nominating Committees	
Speaker Pro-Tem	1997-1999
Chair of the Constitution and Bylaws Committee	1997-2000

Service Activities for the University, College, Component Committees, internal guest speaking, etc.

University Committees:

TWU Library/Media Committee	2000-2001
TWU ADA Task Force	2000
University Ad-hoc Committee to review Timetable for Annual Faculty Performance Review	1998
University Review Committee	1996-2005
TWU Faculty Evaluation and Development Committee	1996-1998
University Ad-hoc Committee to develop Post-Tenure Review Policy	1997
University Review Committee, Alternate Position	1995-1996
TWU Library/Media Committee	1995-1996

Houston Center Committees:

TWU Houston Center Commencement Committee	1993-Present
Served as Chair for 2001 Commencement & for 2002 Commencement	
Co-Chair for 2005 & 2006 December Commencements	
TWU Houston Center Centennial Celebration Committee	2000-2001
TWU-Houston Student Appeals Committee, Chair	1996-2000
TWU-Houston Center Alumnae Day Planning Committee	1997-1999
TWU-Houston Student Appeals Committee	1995-1996

School of Physical Therapy Committees: (most recent to earliest)

School of Physical Therapy Operations Manager – Houston	2005-Present
School of Physical Therapy Coordinator of Entry-level Studies	1987-Present
School of Physical Therapy Entry-level Admissions Committee	2006-Present
	1998-1999 and 1995-1997
School of Physical Therapy Marketing and Recruitment Committee, Chair in 2004	2000-2005
School of Physical Therapy Administrative Council	2000-Present
School of Physical Therapy Student Activities Committee	2000-2003
Physical Therapy Curriculum Committee	2000-2006
Physical Therapy Curriculum Committee, Co-Chairperson	1991-1996

School of Physical Therapy Committees: (continued)

Physical Therapy Comprehensive Exam Committee, Chairperson	1981-2001
School of Physical Therapy Peer Review Committee Member	2002-2005
Member	1994-1995
Chair	1995-1997
Physical Therapy Accreditation Task Force	1994-1995

Internal Guest Speaking:

Nursing students: Provide body mechanics instruction and guided laboratory practice associated with specific bed mobility and transfer skills. Spring and Summer, 2008

In **PT 5193:** Provide the lecture content associated with treatment issues for patients with *Parkinson's Disease*. I review and edit my lecture content yearly to incorporate clinical decision making and discussions of appropriate treatment interventions. Every Spring semester for last 6 years.

In **PT 5024:** Provide 2 2-hr. problem-solving lectures/discussions to help the Entry-level students apply their understanding of basic neuroscience information to clinical cases. Every Spring semester for last 14 years.

In **PT 5052:** Provide a 2-hr presentation covering the physical therapy problems of individuals who have suffered a CVA. Providing this content in the summer has allowed more time for clinical visits in the Fall PT 5153 course. Every Summer semester for last 8 years.

Professionally Related Service

List membership, committee service, offices held, editorial boards, etc.

Memberships in Professional Societies

American Physical Therapy Association Member of Pediatric Section, Neurology Section, and Education Section	1971-Present
Texas Physical Therapy Association – Southeastern District	1971-Present

Other Community Outreach Achievements

Developed an Advanced Teaching Module on Assisting Gait and Transfers for the training program targeting Home Health Care Aides for the <i>Care for Elders Quality and Workforce Pilot Program</i> associated with Sheltering Arms in Houston. (I provided 1 session in 2006 and 2 in 2007.)	2006-2007
Developed a Teaching Module on Body Mechanics and Patient Care-Giver Safety for the <i>Care for Elders Quality and Workforce Pilot Program</i> associated with Sheltering Arms in Houston. (I provided 5 sessions of the program in 2005 and 3 additional ones in 2006.)	2004-Present
Accompanied TWU physical therapy students to SED-TPTA Legislative Days in Austin	2003, 2005
Volunteered in the Medical/Massage area for runners in the Houston Marathon	2004-2006
Member of the VA-PADRECC Allied Health Education Committee	2002-Present
Developed and taught content in the course: "Rehabilitation for Patients with Parkinson's Disease: Where Are We Now?" an evidence-based program for PTs, OTs, and Speech Pathologist"	2008
Developed and taught content in the course: "Caring for Patients with Parkinson's Disease: What Nurses Should Know"	2006
Organized a "Senior Fitness Test" screening session for patients with Parkinson's Disease and their caregivers during a Wellness Fair sponsored by the VA-PADRECC	2005
Developed and taught content in the course: "Cognitive Issues and Depression in Patients with Movement Disorders: Implications for Treatment"	2004
Developed and taught content in the course: "Assessment & Treatment of Patients with Parkinson's Disease: A Rehabilitative Approach"	2003
Exercise Instructor for Parkinson's Disease Support Groups (twice/week),	1991-Present
Texas Medical Center Student Advisory Committee	1996-1998

OTHER

Significant Professional Development Activities

Attendance at Teaching Conferences:

Advances in Teaching and Learning Regional Conference	April 19, 2007
Teaching Professor Workshop	May 19-21, 2006
Wakonse South Conference	April 1-3, 2005
Teaching Professor Workshop	May 20-22, 2005

I regularly attend multiple physical therapy related Continuing Education Courses and can provide a list of courses upon request)