

CURRICULUM VITAE

NADINE M. FISHER

Work address:

Department of Rehabilitation Science
School of Public Health and Health Professions
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Academic History:

- 1991 - University at Buffalo, The State University of New York,
Ed.D. with honors - Exercise Science, with an emphasis in Physiology and
Rehabilitation
Dissertation: Muscle Rehabilitation of Patients with Osteoarthritis of the Knees
- 1984 - University at Buffalo, The State University of New York,
Ed.M. - Physical Education, with an emphasis in Physiology
Thesis: The Decline of Muscle Function in the Aging Population
- 1981 - University at Buffalo, The State University of New York,
B.A. - Biology

Employment History:

Current Positions:

- 2004-present Clinical Associate Professor, Dept. of Rehabilitation Science, School of
Public Health and Health Professions, University at Buffalo
- 1998-present Director, Rehabilitation Physiology Laboratory, Department of
Rehabilitation Science (formerly Occupational Therapy), School of Public
Health and Health Professions (formerly Health Related Professions),
University at Buffalo
- 1997-present Member, Graduate Faculty, University at Buffalo

- 1991-present Clinical Assistant Professor, Department of Rehabilitation Medicine, University at Buffalo
- 1991-present Clinical Assistant Professor, Department of Physiology, University at Buffalo
- 1991-present Research Assistant Professor, Department of Medicine, Division of Geriatrics/Gerontology, University at Buffalo

Past Positions:

- 2004 Research Assistant Professor, Dept. of Rehabilitation Science, School of Public Health and Health Professions, University at Buffalo
- 2000-2006 Director, Ph.D. Program in Rehabilitation Science, Department of Rehabilitation Science (formerly Occupational Therapy), School of Public Health and Health Professions (formerly Health Related Professions), University at Buffalo
- 1998-2004 Assistant Professor, Department of Rehabilitation Science (formerly Occupational Therapy), School of Public Health and Health Professions (formerly Health Related Professions), University at Buffalo
- 1991-2000 Director, Rehabilitation Physiology Laboratory, Erie County Medical Center, Buffalo, New York
- 1988-2000 Member - Medical/Dental Staff, Erie County Medical Center, Buffalo, NY
- 1998-1999 Coordinator, Ph.D. Program in Rehabilitation Science, Department of Occupational Therapy, School of Health Related Professions, University at Buffalo
- 1997-1999 Member, Graduate Faculty, D'Youville College, Buffalo, NY
- 1996-1999 Instructor, D'Youville College, Program in Physical Therapy, School of Health and Human Services, part-time
- 1994-1998 Principal Investigator and/or Project Coordinator, Rehabilitation Research and Training Center on Functional Assessment and Evaluation of Rehabilitation Outcomes, Center for Functional Assessment Research, University at Buffalo
- 1988-1991 Project Manager, Rehabilitation Physiology Laboratory, Erie County Medical Center, Buffalo, New York

- 1987-1991 Clinical Instructor, Department of Rehabilitation Medicine, University at Buffalo
- 1986-1988 Research Laboratory Coordinator, Exercise Physiology, Batavia Veterans Administration Medical Center, Batavia, New York
- 1985-1986 Research Assistant, Department of Physiology, University at Buffalo

Honors and Awards:

- 1991 1990 Elizabeth and Sidney Licht Award for Excellence in Scientific Writing. Awarded by the American Congress of Rehabilitation Medicine for the best paper in the Archives of Physical Medicine and Rehabilitation in 1990.

Professional Memberships and Activities:

- American College of Sports Medicine (ACSM) – member;
- American Congress of Rehabilitation Medicine (ACRM) - member
- Association of Rheumatology Health Professionals (ARHP) – member
- Gerontological Society of America (GSA) - member
- American Physiological Society (APS) - member

Service:

Professional/Public Service:

National Committees:

ARHP Committee on Education, Member, 2006 – present.

ARHP Committee on Research, Member, 2001 – 2004.

ARHP Liaison to the American College of Rheumatology (ACR) Subcommittee on Clinical Research, 2003-2004.

Moderating of scientific sessions at ACR/ARHP Annual meetings, 2000 – present.

Mentoring of young ARHP investigators at ACR/ARHP Annual meeting, 2003 - 2004.

Regional Committee:

ACSM Mid-Atlantic Region, Member-at-Large, 1996 - 1997.

Grant Reviewer for:

American College of Rheumatology Research and Education Foundation, Health Professional Arthritis Investigator Award, 2003 – 2005.

The Retirement Research Foundation, 2004.

American College of Rheumatology Research and Education Foundation, Lawren H. Daltroy Fellowship in Patient-Clinician Communication Award, 2003, 2005.

American College of Rheumatology Research and Education Foundation, European Rheumatology Research Workshop Award, 2003.

Association of Rheumatology Health Professionals, Arthritis Foundation pre-review, 1999 – 2000.

U.S. Department of Education, Office of Special Education and Rehabilitation Services, National Institute on Disability and Rehabilitation Research, Rehabilitation Research Fellowships Program (Switzer Fellowships), 2002.

American College of Rheumatology Research and Education Foundation, Rheumatology-Related Health Professional Graduate Student Research Preceptorship, 2001.

National Institute on Disability and Rehabilitation Research, U.S. Dept. of Education, 1999.

Manuscript Reviewer for the following journals:

American Journal of Physical Medicine and Rehabilitation, 2002 - present

Arthritis Care and Research, 2001 – present

Medicine and Science in Sports and Exercise, 1999-present

Archives of Physical Medicine and Rehabilitation, 1996 – present

Physiotherapy Theory and Practice, 2003

AARP, 2001 (Issue Brief)

Disability and Rehabilitation, 1998

Journal of Rheumatology, 1994

Stroke, 1994

Book Chapters Reviewed:

ACSM's Exercise Management for Persons with Chronic Disease and Disabilities. 2nd edition. 2001

Abstract Reviewer for:

Gerontological Society of America, 1999-2000.
American College of Rheumatology/Association of Rheumatology Health Professionals, 2005-2007.

Consulting:

Advisory Board - Total Patient Management in Arthritis, Searle/Phase Five Communications arthroPRO medical education program, Chicago/Orlando, 1994-1995.

University Service:

University:

Search Committee Member for Chair of the Department of Rehabilitation Science, 2002.

Search Committee Member for Dean of the School of Health Related Professions, 2001.

Health Sciences Divisional Committee (HSDC), Member, 2000 – present;
HSDC Subcommittee to review M.S. Applications to Candidacy, member, 2000 – 2006.

Multidisciplinary Ph.D. program in Rehabilitation Science, Steering Committee, Director, 2000 – 2006.

Search Committee Member for Rehabilitation Counseling Program Director, Graduate School of Education, 1999.

School:

Presidential Fellowship Committee, Member, 2004 – 2006.

Academic Affairs Committee, School of Public Health and Health Professions (formerly Health Related Professions), Member, 1999 – 2006.

M.S. in Health Related Professions Planning Committee – 2001.

HRP/Architecture Human Subjects Institutional Review Board, School of Health Related Professions (HRP), Member, 1999-2001.

Department:

Program Director, Ph.D. Program in Rehabilitation Science, 2000 – 2006.

Ph.D. Program in Rehabilitation Science Steering Committee, Member, 1998 – 2006.

Program Coordinator, Ph.D. Program in Rehabilitation Science, 1998 – present.

Occupational Therapy Graduate Faculty, Member, 1998 – present.

Graduate Admissions Committees: Ph.D. program in Rehabilitation Science – 1998-present; Occupational Therapy M.S. program – 1998-present; Advanced Graduate Certificate Program in Assistive and Rehabilitation Technology – 2000-present.

M.S. in Rehabilitation Science Planning Committee, Member, 1999 – 2000, 2004.

Occupational Therapy Faculty Search Committee, Chair, 2000 – 2001; Member – 1999, 2003-2004.

Co-Chair, Appointments and Promotions Committee, Rehabilitation Medicine, 1994 - 1998; Member, 1992 - 1998.

Rehabilitation Medicine Research Committee, Member, 1994 - 1998.

Community Service:

Network in Aging of Western New York, Inc., Board of Directors, 2002 – present; Member, 1995-1999, 2002 - present.

Arthritis Foundation, Upstate New York Chapter, Education and Services Committee, Member, 2000 – 2005.

Teaching

Courses/Lectures/Labs Taught: (at UB unless otherwise specified)

Rehabilitation Science – OT 563 – Project Guidance I (co-taught), 2006

Rehabilitation Science – PT 503/OT 412 – Medical Sciences I (2 guest lectures on cardiovascular pathophysiology), 2004 - 2005

Rehabilitation Science – OT 380 – Research Literature and Scientific Writing, 2004

Occupational Therapy – OT 699 – Thesis Guidance, 2001 - present

Rehabilitation Science - RSC 699 – Dissertation Guidance, 2002 - present

Rehabilitation Science – RSC 599 – Independent Study, 1999 - present

Rehabilitation Science – RSC 598 – Supervised Teaching, 2002 - present

Occupational Therapy – OT 315 – Medical Science: Medicine (guest lecture on cardiovascular diseases), 2002 - 2003

Rehabilitation Science – RSC 510 – Pathophysiology and Impairment, 2001 - 2005

Occupational Therapy 410 – OT 410 - Neurophysiological Processes (guest lecture), 2000

Occupational Therapy 408 – OT 408 – Research Methods in Occupational Therapy, 2000 - 2003

Occupational Therapy 590 – OT 590 - Graduate Research Seminar, 1998

Rehabilitation Science - RSC 600 – Graduate Research Seminar, 1998 - present

RSC 289 - Health and Fitness, D'Youville College, 1998

Exercise Science 340 - Special Populations (2 - 3 lectures on arthritis), 1997 - present

Physical Therapy 322 - Health Maintenance and Disease Prevention, D'Youville College, 1997-1998

Physical Therapy 332 - Human Life Cycles: Function and Dysfunction II, D'Youville College, 1997

Physical Therapy 312 - Analysis of Human Movement, D'Youville College, 1997

Physical Therapy 303 - Physiology of Therapeutic Exercise, D'Youville College, 1996- 1998

Exercise Physiology - lectures and labs

Gross Anatomy - assisted undergraduates

Rehabilitation Medicine Selective (Rehab Medicine), 1992 - 1997

Musculoskeletal Medicine Selective (Rehab Medicine), 1992 - 2000

Nursing 553: Exercise & Lifestyle, guest lecturer, 1991

Rehabilitation Medicine Residents (selected lectures) - 1991 - 2000

Mammalian Physiology 502M: Cardiovascular, Environmental and Exercise -
1989 - 1997; conference lecture (neuro-muscle-skeletal) 1994

Research Supervision:

Graduate Training:

<u>Ph.D. Dissertation Advisor for:</u>		<u>Date Degree Awarded:</u>
C. Montgomery	Rehabilitation Science	pending, expected 2008
J. Graham	Rehabilitation Science	2006
T. Welch	Rehabilitation Science	2004

<u>Ph.D. Dissertation Committee Member for:</u>		<u>Date Degree Awarded:</u>
K. Kozlowski	Rehabilitation Science	pending, expected 2009
A. Limprasertkul	Exercise & Nutrition Sciences	pending, expected 2008
A. Tsai	Rehabilitation Science	pending, expected 2007
V. Sundar	Rehabilitation Science	2007
L. Russ	Rehabilitation Science	2006

<u>Masters Thesis Advisor for:</u>		<u>Date Degree Awarded:</u>
K. Desai	Rehabilitation Science, OT	2006
A. Karmarkar	Rehabilitation Science, OT	2005
P. Ramachandran	Occupational Therapy	2003
M. Kryagin	Physical Therapy, D'Youville College	1999
A. Alspach	Physical Therapy, D'Youville College	1999
H. Kenyon	Physical Therapy, D'Youville College	1999

<u>Masters Thesis Committee Member for:</u>		<u>Date Degree Awarded:</u>
A. Friscia	Physiology	pending, expected 2007
A. Kolber McClain	Mechanical Engineering	2006
W-H Lin	Rehabilitation Science, OT	2005
P. Nair	Mechanical Engineering	2004
J. Wang	Occupational Therapy	2002
K. Meksawan	Nutrition	2000
J-Y Lin	Nutrition	1999
W-C Chu	Nutrition	1998
S. Blaine	Physical Therapy, D'Youville College	1998

T. McCarthy	Physical Therapy, D'Youville College	1998
D. Dolan	Natural Science & Mathematics	1998
C. Brenner	Natural Science & Mathematics	1997
J. Mayrose	Mechanical Engineering	1993

Masters Project Advisor for:

Date Degree Awarded:

J. Holody	Rehab Science, OT	pending, expected 2007
T. Clark	Rehab Science, OT	2006

Masters Project Committee Member for:

Date Degree Awarded:

M. Reid	Rehab Science, OT	pending, expected 2007
A. Tase	Rehab Science, OT	pending, expected 2007
T. Arroy	Rehab Science, OT	pending, expected 2007
A. DePasquale	Rehab Science, OT	pending, expected 2007
S. Prunoske	Rehab Science, OT	2006
J. Skipp	Rehab Science, OT	2005
D. Bowers	Nutrition	2002
Z. Chen	Nutrition	2000
A. Krishnan	Nutrition	2001
J. Mayrose	Mechanical Engineering	1992-1993
K. Nelson	Mechanical Engineering	1992
M. McPartland	Mechanical Engineering	1992
M. Gwinn	Mechanical Engineering	1992
S. Kelly	Mechanical Engineering	1991

Post-Doctoral Student:

H. Kim, MD, PhD, Kyungpook National University, Korea, 1991-1992

Medical Resident Advisor for:

P. Rhoades, Rehabilitation Medicine, University at Buffalo, 1992

Medical Student Summer Fellowships:

P. Pandya, University at Buffalo, 1993
J. Seymour, University at Buffalo, 1992
T. Dorfman, University at Buffalo, 1991

Doctor of Physical Therapy (DPT) Student Capstone Advisor for:

M. Brown, DPT Program, University at Buffalo, 2005

Undergraduate Project Advisees:

K. Remaly (Mechanical Engineering, UB) 1995
S. Reichelson (Mechanical Engineering, UB) 1992
P. Mucci (Mechanical Engineering, UB) 1992

Graduate Student Research Assistants:

F. Patel (Exercise Science, UB) 2007
S. Kaur (Exercise Science, UB) 2007
Y-J Wang (Nursing, UB) 2007
A. Karmarkar (Occupational Therapy, UB) 2003 – 2004
L. Malczewski (Exercise Science, UB) 2003
J. Graham (Rehabilitation Science, UB) 2002 - 2006
H. Feng (Rehabilitation Science, UB) 2000
M. Mithal (Rehabilitation Science, UB) 2000
K. Gerlach (Exercise Science, UB) 2000
D. Dolan (Natural Science & Mathematics, UB) 1997-1998
R. Lindamer (Exercise Science, UB) 1992-1993
J. Ryan (Physical Education, Canisius College) 1992-1993
M. Tedesco (Exercise Science, UB) 1989-1990

Undergraduate Student Research Assistants:

D. Tooley (Exercise Science, UB) 2007
Y. Aljuwani (Exercise Science, UB) 2007
C. Decker (Exercise Science, UB) 2007
L. Abendroth (Exercise Science, UB) 2006
M. Brady (Exercise Science, UB) 2006
C. Skarzynski (Exercise Science and Nursing, UB) 2004
A. Farkas (Biomedical Education, Honors Program, UB) 2002-2003
S. Midavaine (Occupational Therapy, UB) 2002
C. Higbee (Occupational Therapy, UB) 2001
T. Pendergast (Physical Education, Indiana University of Pennsylvania) 1996
S. Nagali (Biology, UB) 1993
E. Balzhiser (Geography, UB) 1992

Undergraduate Internships:

Y. Aljuwani (Exercise Science, UB), 2007
L. Abendroth (Exercise Science, UB), 2006
M. Brady (Exercise Science, UB), 2006
C. Skarzynski (Exercise Science, UB), 2004
N. Radoslovich (Exercise Science, UB), 2001
A. Zaid (Exercise Science, UB), 1998
K. Schweitzer (Exercise Science, UB), 1998
J. Walters (Exercise Science, UB), 1995

J. Fitch (Exercise Science, UB), 1993
P. Craig (Physical Education & Recreation, Victoria University of Technology,
Australia), 1992-1993

Undergraduate Independent Studies or Practicums:

D. Tooley (Exercise Science, UB) 2006-2007
C. Decker (Exercise Science, UB) 2006
C. Horvath (Rehab Science, OT, UB) 2006
V. Kame (Physical Therapy, UB) 1990
A. Ruh (Engineering, UB) 1989

Undergraduate Student Summer Fellowships:

D. Tooley (Exercise Science, UB) 2007
C. Decker (Exercise Science, UB) 2007
L. Abendroth (Exercise Science, UB) 2006
M. Brady (Exercise Science, UB) 2006
J. Pun (Chemistry, UB) 2004
C. Skarzynski (Exercise Science, UB) 2004
A. Farkas (Biomedical Education, Honors Program, UB) 2002-2003
S. Midavaine (Occupational Therapy, UB) 2002
C. Higbee (Occupational Therapy, UB) 2001
M. Bergenstock (Biomedical Engineering, University of Rochester) 2000-2001
N. Mann (Biology, Penn State University) 2000
N. Jain (Physical Therapy, Boston University) 1999
C. Vladutiu (Pre-Medical, University of Rochester) 1999
M. Toufexis (Pre-Medical, University of Rochester) 1999
K. Tambar (Anthropology, UB), 1998
B. French (Biology, Canisius College), 1996
R. Lindamer (Physical Education & Sports, SUCNY at Brockport), 1991
J. Jung (Physical Education & Sports, SUCNY at Brockport), 1991
J. Gresham (Biology, Wellesley College), 1991
J. Reidy (Biology, UB), 1990
D. Swank (Engineering, University of Rochester), 1989
A. Schultz (Exercise Science, UB), 1989
R. Heffner, III (Biology, Colgate University), 1989

High School Student Summer Internships:

S. Ward (Nichols School) 1999

Visiting Scientists:

S. Milesi (Brescia, Italy) 1994
A. Veicsteinas (Brescia, Italy) 1994

R. Perini (Brescia, Italy) 1994

Grant Support:

Current:

NM Fisher (Principal Investigator), CV Granger. Effects of Cooling and Fitness on Exercise Performance in Individuals with Multiple Sclerosis. National Institute on Disability and Rehabilitation Research, #H133G050198, \$449,999, 10/05-9/08.

Pending:

NM Fisher (PI), JJ Leddy, S White. Effectiveness of Resistance and Aerobic Exercise and Gait Re-training for Knee Osteoarthritis. National Institute on Disability and Rehabilitation Research, \$600,000, 9/07-8/10.

Previous:

NM Fisher (Principal Investigator), CV Granger, L Jacobs, C Brownschidle. Randomized Controlled Trial of Anti-Fatiguing Exercises to Improve Function in Multiple Sclerosis Patients. National Institute on Disability and Rehabilitation Research, #H133G010132, \$450,000, 10/01-9/06.

GD Vladutiu (PI), NM Fisher (interdisciplinary faculty). Improved Diagnosis of Metabolic Myopathies. The John R. Oishei Foundation, \$354,000, 9/03-8/06.

NM Fisher (Principal Investigator), MJ Petruzzi, JJ Leddy. Quantitative Progressive Exercise Rehabilitation for Individuals with Hemophilia. Hemophilia Center of Western NY, \$100,000, 2/03-12/04.

V Krovi (PI), NM Fisher (Co-Investigator). User Customized Haptic Rehabilitation Environment (UCHRE). Interdisciplinary Research and Creative Activities Fund (IRCAF), University at Buffalo. \$48,000, 11/02-12/03.

NM Fisher (Principal Investigator). Doctoral Program in Rehabilitation Science: Meeting Leadership Needs in Related Services. Office of Special Education and Rehabilitative Services, US Dept. of Education, \$753,524, 9/98-6/03.

NM Fisher (PI, Faculty preceptor for James Graham). Rheumatology-Related Health Professional Graduate Student Research Preceptorship for "Effects of Resistance Training on Strength, Endurance and EMG Activity in Individuals with Knee Osteoarthritis". American College of Rheumatology Research and Education Foundation. \$4,000, 7/02-9/02.

NM Fisher (Project Director), CV Granger, L Jacobs, C Brownscheidle. Fatigue in Multiple Sclerosis. The John R. Oishei Foundation, \$81,000, 2000-2002 (subcontract from Dr. Lawrence Jacobs (Principal Investigator)).

NM Fisher (Principal Investigator), KM O'Neil, JT Venkatraman. Functional, Physiologic and Immunologic Outcomes of Quantitative Progressive Exercise Rehabilitation of the Lower Extremities in Juvenile Arthritis. National Institute on Disability and Rehabilitation Research, US Dept. of Education, #H133G970156, \$374,945, 1997-2001.

NM Fisher (Principal Investigator), CV Granger, L Jacobs, C Brownscheidle. A Follow-Up Study of the Positive Effects of Anti-Fatiguing Exercise for Persons with Multiple Sclerosis. The Jacob and Valeria Langeloth Foundation, \$88,279, 2000-2001.

GD Vladutiu, DR Pendergast, JT Venkatraman, NM Fisher (Co-Investigator). Muscle Performance and Alterations in Fat Oxidation in High Risk Groups. UB Pilot Project Program, \$25,000, 2000-2001.

NM Fisher (Principal Investigator), CV Granger, L Jacobs, C Brownscheidle, K Wende. Anti-Fatiguing Exercise for Persons with Multiple Sclerosis. The Jacob and Valeria Langeloth Foundation, \$77,895, 1999.

NM Fisher (Principal Investigator and/or Project Coordinator). Rehabilitation Research and Training Center on Functional Assessment and Evaluation of Rehabilitation Outcomes. National Institute of Disability and Rehabilitation Research, US Department of Education, \$2,400,000, 1993-1998.

NM Fisher (Principal Investigator). Follow-up Study of Exercise Induced Increases in Functional Capacity in the Independent Elderly. Anonymous, \$150,000, 1994-1997.

DR Pendergast and NM Fisher (Co-Principal Investigator). Quantitative Progressive Exercise Rehabilitation for Frail Elderly. United Church Home, \$30,000, 1992-1993.

DR Pendergast and NM Fisher (Co-Principal Investigator and Project Director). Maintenance of Functional Capacity in the Independent Elderly. Anonymous, \$255,000, 1990-1993.

DR Pendergast, GE Gresham and NM Fisher (Project Director). Progressive Quantitative Exercise in Arthritis of the Knees. National Institute of Disability and Rehabilitation Research, US Department of Education, #H133A80002, \$501,597, 1988-1991.

Publications:

Refereed Journal Publications:

Graham JE*, **NM Fisher**, CV Granger, MR Tomita. Development of a test battery for evaluating fatigue in MS patients. In prep for Int J MS Care 2007. * indicates student

Fisher NM, K Meksawan, A Limprasertkul, P Isackson, DR Pendergast, GD Vladutiu. Statin therapy depresses total body fat oxidation in the absence of genetic limitations to fat oxidation. J Inher Metab Dis 2007 (On-line first publication).

Graham JE*, CV Granger, CF Russell, **NM Fisher**. The relationship between objective measures of physical capacity and self-reported ability in patients with Multiple Sclerosis. Submitted to Arch Phys Med Rehabil 2007 (under revision). * indicates student

Ramachandran P*, **NM Fisher**, MR Tomita, M Matteliano. Variations in grip strength with changes in shoulder-elbow positions. Am J Occup Ther 2007 (in preparation). * indicates student

Fisher NM, JJ Leddy, YK Barodawala. Exercise rehabilitation improves muscle function and knee joint space and reduces pain in patients with osteoarthritis. Arch Phys Med Rehabil 2007 (under revision).

Arthanat S*, **NM Fisher**, MR Tomita. Reliability and validity of the Buffalo Fatigue Scale (BFS) for measuring short-term variations in fatigue in multiple sclerosis. Multiple Sclerosis 2007 (under revision). * indicates student

Fisher NM, DM Dolan, C Brenner, DR Pendergast. Quantitative effects of a water exercise program on functional and physiological capacity in subjects with osteoarthritis: a pilot study. Sport Sciences for Health 1(1):17-24, 2004.

Leddy JJ, **NM Fisher**, DR Pendergast. Metabolic responses to multiple bouts of supra-maximal exercise in trained and untrained subjects. Int SportMed J 5(2):155-168, 2004.

Pendergast DR, **NM Fisher**, K Meksawan, M Doubrava, GD Vladutiu. The distribution of white blood cell fat oxidation in health and disease. J Inher Metab Dis 27:89-99, 2004.

Pendergast DR, K Meksawan, **NM Fisher**, J Venkatraman. Diet and the immune system in athletes. Int SportMed J 4(3):1-15, 2003.

Vladutiu GD, MJ Bennett, **NM Fisher**, D Smail, R Boriack, J Leddy, DR Pendergast. Phenotypic variability among first-degree relatives with carnitine palmitoyltransferase II deficiency. *Muscle Nerve* 26(4):492-498, 2002.

Perini R, **NM Fisher**, A Veicsteinas, DR Pendergast. Aerobic training and cardiovascular responses at rest and during exercise in older men and women. *Med Sci Sports Exerc* 34:700-708, 2002.

Horvath PJ, CK Eagen, **NM Fisher**, JJ Leddy and DR Pendergast. The effects of varying dietary fat on performance and metabolism in trained male and female runners. *J Am College Nutrition* 19(1):52-60, 2000.

Perini R, S Milesi, **NM Fisher**, DR Pendergast, A Veicsteinas. Heart rate variability during dynamic exercise in elderly males and females. *Eur J Appl Physiol* 82(1-2):8-15, 2000.

Fisher NM and DR Pendergast. Reduced muscle function in patients with osteoarthritis. *Scand J Rehab Med* 29:213-221, 1997.

Fisher NM, SC White, HJ Yack, RJ Smolinski and DR Pendergast. Muscle function and gait in patients with knee osteoarthritis before and after muscle rehabilitation. *Disability Rehabil* 19(2):47-55, 1997.

Pendergast DR, M Tedesco, DM Nawrocki and **NM Fisher**. Energetics of underwater swimming with SCUBA. *Med Sci Sports Exerc* 28(5):573-580, 1996.

Fisher NM and DR Pendergast. Application of quantitative and progressive exercise rehabilitation to patients with osteoarthritis of the knee. *Journal of Back and Musculoskeletal Rehabilitation* 5:33-53, 1995.

Fisher NM, GE Gresham and DR Pendergast. Quantitative Progressive Exercise Rehabilitation (QPER) for osteoarthritis of the knee. *Physical Medicine and Rehabilitation Clinics of North America* 5(4):785-802, 1994.

Fisher NM, VD Kame, L Rouse and DR Pendergast. Quantitative evaluation of a home exercise program on muscle and functional capacity of patients with osteoarthritis. *Am J Phys Med Rehabil* 73:413-420, 1994.

Fisher NM and DR Pendergast. Effects of a muscle exercise program on exercise capacity in subjects with osteoarthritis. *Arch Phys Med Rehabil* 75(7):792-797, 1994.

Pendergast DR, **NM Fisher** and E Calkins. Cardiovascular, neuromuscular, and metabolic alterations with age leading to frailty. *J Gerontol: Biol Sci* 48(Special Issue):61-67, 1993.

Fisher NM, GE Gresham, M Abrams, J Hicks, D Horrigan and DR Pendergast. Quantitative effects of physical therapy on muscular and functional performance in subjects with osteoarthritis of the knees. *Arch Phys Med Rehabil* 74(8):840-847, 1993.

Fisher NM, GE Gresham and DR Pendergast. Effects of a quantitative progressive rehabilitation program applied unilaterally to the osteoarthritic knee. *Arch Phys Med Rehabil* 74(12):1319-1326, 1993.

Fisher NM, DR Pendergast, GE Gresham and E Calkins. Muscle rehabilitation: its effect on muscular and functional performance of patients with knee osteoarthritis. *Arch Phys Med Rehabil* 72(6):367-374, 1991.

Fisher NM, DR Pendergast and E Calkins. Muscle rehabilitation in impaired elderly nursing home residents. *Arch Phys Med Rehabil* 72(3):181-185, 1991.

Pendergast DR, JL York and **NM Fisher**. A survey of muscle function in detoxified alcoholics. *Alcohol* 7(4):361-366, 1990.

Fisher NM, DR Pendergast and E Calkins. Maximal isometric torque of knee extension as a function of muscle length in subjects of advancing age. *Arch Phys Med Rehabil* 71(10):729-734, 1990.

Pendergast DR, E Calkins, **NM Fisher** and R Vickers. Muscle rehabilitation in nursing home residents with cognitive impairment: a pilot study. *Am J Alzheimer Care Rel Dis* July/August:20-25, 1987.

Refereed Book Chapters:

Fisher NM. Chapter 10: Osteoarthritis, Rheumatoid Arthritis, and Fibromyalgia. *ACSM's Resources for Clinical Exercise Physiology: musculoskeletal, neuromuscular, neoplastic, immunologic, and hematologic conditions*. JN Meyers, WG Herbert, R Humphrey (eds.). Lippincott Williams & Wilkins: Baltimore, pgs. 111-124, 2002.

Fisher NM and DR Pendergast. Chapter 16: Quantitative progressive exercise rehabilitation (QPER): Rehabilitation of patients with osteoarthritis. *In: Key Aspects of Caring for the Chronically Ill. Hospital and Home*. SG Funk, EM Tornquist, MT Champagne and RA Wiese, Eds. Springer Publishing Co., pgs. 178-189, 1993.

Edited Publications and Symposium Proceedings:

Fisher NM and DR Pendergast. Quantitative progressive exercise rehabilitation (QPER) for OA of the knees. *In: Confronting our Future, 1992 Course Handouts*. American Congress of Rehabilitation Medicine, Fri 113-Fri 121, 1992.

Abstracted Papers:

Fisher NM, SC White, HJ Yack, RJ Smolinski, DR Pendergast. Muscle function and gait in patients with knee osteoarthritis before and after muscle rehabilitation. In: European Journal of Physical Medicine and Rehabilitation, Blackwell Wissenschaft, October, 1997.

Fisher NM, VD Kame Jr, L Rouse, DR Pendergast. Quantitative evaluation of a home exercise program on muscle and functional capacity of patients with osteoarthritis. In: European Journal of Physical Medicine and Rehabilitation, Blackwell Wissenschaft, May, 1995.

Fisher NM and DR Pendergast. Effects of a muscle exercise program on exercise capacity in subjects with osteoarthritis. In: European Journal of Physical Medicine and Rehabilitation, Blackwell-MZV, 1994.

Fisher NM, GE Gresham and DR Pendergast. Effects of a quantitative progressive rehabilitation program applied unilaterally to the osteoarthritic knee. In: European Journal of Physical Medicine and Rehabilitation, Blackwell-MZV, 1994.

Fisher NM, GE Gresham, M Abrams, J Hicks, D Horrigan and DR Pendergast. Quantitative effects of physical therapy on muscular and functional performance in subjects with osteoarthritis of the knees. In: European Journal of Physical Medicine and Rehabilitation, Blackwell-MZV, 1993; In: Focus on Rheumatology, Bugamor International, 1994; Key reference In: 1995 Study Guide of the Self-Directed Physiatric Education Program (American Academy of Physical Medicine and Rehabilitation).

Fisher NM, DR Pendergast and E Calkins. Muscle rehabilitation in impaired elderly nursing home residents. In: Year Book of Geriatrics and Gerontology, Mosby Year Book, 1992.

Fisher NM, DR Pendergast, GE Gresham and E Calkins. Muscle rehabilitation: its effect on muscular and functional performance of patients with knee osteoarthritis. In: Orthopaedics/Rheumatology Digest, Clinical Digest Series, 1992; In: Current Opinion in Orthopaedics, Current Science, 1992; In: Current Opinion in Rheumatology, Current Science, 1992; In: Year Book of Sports Medicine, Mosby Year Book, 1992.

Abstracted Reviewed Publications:

Fisher NM, DR Pendergast, GE Gresham and E Calkins. Rehabilitaci3n muscular: sus efectos en el rendimiento funcional y muscular de los pacientes con osteoartritis de rodilla. Focus on Therapy 2(2):41-42, 1992.

Abstracts:

Limprasertkul A, **NM Fisher**, K Meksawan, DR Pendergast. Total body fat oxidation is reduced in elderly individuals even after exercise training. Experimental Biology meeting, Washington, DC, April, 2007. Abstract #684.8.

Graham JE, CV Granger, CF Russell, **NM Fisher**. The relationship between objective measures of physical capacity and self-reported physical functioning in patients with Multiple Sclerosis. Arch Phys Med Rehabil 87(10):E23, 2006.

Fisher NM, JE Graham. Relationship of core temperature to physical activity and fatigue in MS. Neurology 66(5)Suppl 2:A238, 2006.

Graham JE, **NM Fisher**. Supervised resistance training improves muscle function in individuals with multiple sclerosis. Neurology 66(5)Suppl 2:A239, 2006.

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Graham JE, **NM Fisher**. Effects of resistance training on muscle function in individuals with knee osteoarthritis. Arthritis Rheum 48(9)Suppl:S445, 2003.

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Venkatraman JT, **NM Fisher**, K Meksawan, A Krishnan, A Downie. Effects of resistance exercise training (RET) on chemokine levels in juvenile arthritis (JA). *FASEB J* 14(4):A526,#367.1, 2000.

Fisher NM, DR Pendergast. Improved cardiac output after exercise in the head-down tilt position in elderly subjects. *Gerontologist* 39 Special Issue I:466, 1999.

Velazquez V, **NM Fisher**, JT Venkatraman, KM O'Neil. The effect of a lower extremity resistance exercise rehabilitation program on TNF α and TNF receptors in juvenile arthritis. *Arthritis Rheum* 42(9)Suppl:S230, 1999.

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Fisher NM, JT Venkatraman, KM O'Neil. Effects of resistance exercise on children with juvenile arthritis. *Arthritis Rheum* 42(9)Suppl:S396, 1999.

Venkatraman JT, **N Fisher**, K O'Neil, H Lin, W Chu. Effects of quantitative rehabilitation exercise (QPER) on the function of neutrophils (PMN) in children with juvenile arthritis (JA). *FASEB J* 13:A846,#644.4, 1999.

Lin H, JT Venkatraman, **N Fisher**, K O'Neil, P Gong, W Chu. Effects of quantitative rehabilitation exercise (QPER) on biochemical indices in juvenile arthritis (JA). *FASEB J* 13:A931,#687.8, 1999.

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Fisher NM and DR Pendergast. Muscular and cardiovascular training in well elderly subjects: a six-month follow-up. *Med Sci Sports Exerc* 26(suppl):S215, 1994.

Leddy JJ, **NM Fisher**, RJ Smolinski, YK Barodawala, P Pandya and DR Pendergast. Effects of exercise rehabilitation on muscle function, activity and joint spaces in patients with osteoarthritis. *Med Sci Sports Exerc* 26(suppl):S142, 1994.

Fisher NM and DR Pendergast. Muscular and cardiovascular training in well elderly subjects: A six-month follow-up. American College of Sports Medicine MARC 16th Annual Meeting. Ithaca, NY, November 12-13, 1993.

Leddy JJ, CM Wilson, **NM Fisher** and DR Pendergast. Lactic acid accumulation in blood in fit and unfit arm and leg supramaximal exercise with preceding lactic acid. *Med Sci Sports Exerc* 25(suppl):S143, 1993.

Fisher NM and DR Pendergast. Muscular vs. cardiovascular training in 70-80 year old subjects with low to high muscle function. *Med Sci Sports Exerc* 25(suppl):S165, 1993.

Fisher NM, SC White, JH Yack, RJ Smolinski and DR Pendergast. Muscle function and gait in patients with knee osteoarthritis before and after muscle rehabilitation. *Arch Phys Med Rehabil* 73(10):972, 1992.

Fisher NM, DR Pendergast, L Katz and E Calkins. Effects of quantitative progressive exercise rehabilitation in well elderly. *Gerontologist* 32(Special Issue II):245, 1992.

Fisher NM and DR Pendergast. Two-year follow-up of the effects of muscle rehabilitation in patients with osteoarthritis of the knees. *Arch Phys Med Rehabil* 73(10):972, 1992.

Fisher NM and DR Pendergast. Dependency of cardiovascular responses to graded exercise testing on muscle function with advancing age. Ontario Exercise Physiology Annual Meeting. Orillia, Ontario, February 1-3, 1992.

Pendergast DR, VD Kame Jr, L Rouse and **NM Fisher**. Quantitative evaluation of a physical therapy supervised home exercise program on muscle and functional capacity of patients with osteoarthritis. *Arch Phys Med Rehabil* 72:792, 1991.

Pendergast DR, VD Kame Jr, **NM Fisher**, M Totten and J Hirsch. Effect of increasing muscle length on isokinetic torque and integrated electromyography. *Arch Phys Med Rehabil* 72:791, 1991.

Pendergast DR and **NM Fisher**. Effect of age on anaerobic power. *Gerontologist* 31(Special Issue II):8, 1991.

Kame Jr VD, **NM Fisher** and DR Pendergast. Reduced muscular endurance of handgrip as a function of age. *Gerontologist* 31(Special Issue II):79, 1991.

Fisher NM, VD Kame Jr and DR Pendergast. Effects of muscle rehabilitation on cardiovascular fitness in patients with osteoarthritis. *Gerontologist* 31(Special Issue II):9, 1991.

Fisher NM, DR Pendergast and GE Gresham. Reduced muscle and functional performance in patients with osteoarthritis. *Arch Phys Med Rehabil* 71:783, 1990.

Fisher NM, DR Pendergast and GE Gresham. Progressive quantitative rehabilitation of patients with osteoarthritis. *Arch Phys Med Rehabil* 71:762, 1990.

Fisher NM and DR Pendergast. Effect of rehabilitation of patients with reduced muscle function on the energy cost of cycling. *Arch Phys Med Rehabil* 71:761-762, 1990.

Fisher NM, FB McAdam and DR Pendergast. Quantitative rehabilitation of postpolio survivors experiencing extreme weakness. *Arch Phys Med Rehabil* 71:783, 1990.

McAdam FB, **NM Fisher**, DR Pendergast, BB Hamilton and CV Granger. Relationship between muscle strength and size in subjects with Post-Polio Syndrome. *Arch Phys Med Rehabil* 70:A-42, 1989.

Fisher NM, FB McAdam and DR Pendergast. Reduced muscle function in patients with Post-Polio Syndrome. *Arch Phys Med Rehabil* 70:A-41, 1989.

Gresham GE, **NM Fisher**, DR Pendergast and E Calkins. Quantitative quadriceps strengthening in osteoarthritis of the knees. *Arch Phys Med Rehabil* 69:725, 1988.

Fisher NM, GE Gresham, E Calkins, MW Allshouse and DR Pendergast. The effect of altered muscle function resulting from aging and disease on the energy cost of bicycling. *Eur Soc Comp Physiol Biochem* Sept:84, 1988.

York JL, DR Pendergast, **NM Fisher**, R Paganelli and D Czarnecki. Effect of alcoholism on muscle function. *Alcohol: Clin Exper Res* 9:90, 1985.

Calkins E, **NM Fisher**, MW Allshouse and DR Pendergast. Alterations in muscle function with advancing age. 42nd Annual Meeting of the American Geriatric Society. New York, NY, July 11-12, 1985.

Arabadjis PG, DR Pendergast, BT Edmonds, RR Heffner and **NM Fisher**. Comparison of muscle function and muscle fiber characteristics with aging. *Physiologist* 28:321, 1985.

Invited Papers and Symposia:

Exercise and MS. Annual Nurse Practitioners Teaching and Networking Day. Rochester, NY, April, 2007.

Physiological Measures of Fatigue in MS and Association with Cognitive Performance. Controversies in Neuropsychology of Multiple Sclerosis Symposium. Boston, MA, October, 2005.

Collaboration in Research. Workshop, Committee on Research. ACR/ARHP Annual Scientific Meeting. Orlando, FL, October, 2003.

Accessing the Evidence for Practice and Research. Workshop, Committee on Research. ACR/ARHP Annual Scientific Meeting. New Orleans, LA, October, 2002.

Using Physiologic Strategies to Evaluate and Rehab Function in Osteoarthritis. “Meet the Expert” session. ACR/ARHP Annual Scientific Meeting. New Orleans, LA, October, 2002.

Implications of Aging and Chronic Disease on Functional and Physiological Performance and Rehabilitation. Rehabilitation Sciences Seminar Series. University of Texas Medical Branch at Galveston. Galveston, TX, September, 2002.

A Model for Integrated Research: Arthritis. University of Nebraska Medical Center. Omaha, NE, January, 2002.

Training for Aging and Performance. NYS Chapter of the National Strength and Conditioning Association. Buffalo, NY, November, 2001.

Anti-Fatiguing Exercises for Multiple Sclerosis: Update 2001. New York State Multiple Sclerosis Consortium. New York, NY, March, 2001.

Exercise for OA, RA and JA. “Meet the Expert” session. Association of Rheumatology Health Professionals Annual Scientific Meeting. Philadelphia, PA, October, 2000.

Exercise for Juvenile Arthritis. Juvenile Arthritis Workshop: a Research Update. Arthritis Foundation. Buffalo, NY, April, 2000.

Anti-Fatiguing Exercises for Multiple Sclerosis. New York State Multiple Sclerosis Consortium. New York, NY, March, 2000.

Rehabilitation Science: Issues in Graduate Education and Research – panel discussion. Buffalo, NY, April, 1999.

Exercise in the elderly. Current Trends in Geriatric Medicine – A Two-Day Course for Rehabilitation Professionals. CGF Health System. Buffalo, NY, October, 1998.

Promoting activity in the older adult: assessment, prescription & motivation (expert panel discussion). Arthritis Foundation – Genesee Valley Chapter. Rochester, NY, September, 1998.

Exercise - use it or lose it. Invest in Your Wellness Symposium. Arthritis Foundation - Central New York Chapter. Syracuse, NY, September, 1996.

Muscle and cardiovascular physiology - research topics. Dept. of Health and Physical Education and Sport Science. Indiana University of Pennsylvania. Indiana, PA, June, 1996.

Clinical applications of muscle and cardiovascular physiology. Dept. of Health, Physical Education and Recreation. University of North Dakota. Grand Forks, ND, May, 1996.

Clinical applications of muscle physiology. Dept. of Movement Science and Education. Teachers College, Columbia University. New York, NY, May, 1996.

Clinical applications of physiology. Dept. of Kinesiology. Louisiana State University. Baton Rouge, LA, April, 1996.

Anatomy of the central nervous system. Dept. of Physical Education. Slippery Rock University. Slippery Rock, PA, April, 1996.

Exercise for improved physical function. Alzheimer's Disease: Advances in Diagnosis, Treatment and Caregiving. Ithaca, NY, May, 1995.

Exercise treatment of osteoarthritis. Rheumatism Society of the District of Columbia. National Rehabilitation Hospital, Washington, D.C., April, 1994.

Outpatient exercise rehabilitation programs for muscle and aerobic conditioning and for arthritis. Measuring and Managing Outcomes in Medical Rehabilitation. Washington, D.C., April, 1994.

Exercise and the elderly. Annual Meeting of the NYS Chapter of the American Physical Therapy Association, Rochester, NY, May, 1993.

Quantitative progressive exercise rehabilitation (QPER) for OA of the knees. Confronting our Future. American Congress of Rehabilitation Medicine. San Francisco, CA, November, 1992.

Quantitative progressive exercise rehabilitation for patients with osteoarthritis of the knees. Chestnut Hill Rehabilitation and Nursing Center. East Longmeadow, MA, May, 1992.

Quantitative progressive exercise rehabilitation (QPER): Rehabilitation of patients with osteoarthritis of the knee. Key Aspects of Caring for the Chronically Ill: Hospital and Home. 4th National Conference on Research for Clinical Practice. Chapel Hill, NC, April, 1992.

Current research on arthritis-panel discussion. Arthritis: State of the Art. NYS Western Region Chapter of the Association of Rehabilitation Nurses. Buffalo, NY, April, 1990.

Invited Seminars and Meeting Presentations: (within University at Buffalo)

MS and Exercise: Current Research from the Rehab Physiology Lab. Jacobs Neurological Institute, Baird MS Center, Dept. of Neurology, July, 2006.

Quantitative Progressive Exercise Rehabilitation. Sports Medicine Institute. Dept. of Orthopedics, UB, September, 2002.

Exercise for Aging and Arthritis. Emeritus Center. UB, March, 2002.

Exercise for Post-Polio Syndrome and Multiple Sclerosis. Sports Medicine Institute. Dept. of Orthopedics, UB, October, 1998.

Exercise Physiology. Orthopedic Grand Rounds. Dept. of Orthopedics, UB, April, 1999.

Therapeutic Exercise. Dept. of Rehabilitation Medicine. UB, March, 1998.

Use of quantitative assessment of physiologic deficits and rehabilitation to improve function. Dept. of Occupational Therapy. UB, June, 1998.

Effect of exercise on juvenile rheumatoid arthritis. Dept. of Rehabilitation Medicine. UB, March, 1998.

Effects of quantitative progressive exercise rehabilitation on elderly subjects. Dept. of Physical Therapy, Exercise and Nutrition Sciences, Nutrition Program. UB, March, 1998.

Strength Training. Dept. of Rehabilitation Medicine. UB, January, 1998.

Osteoarthritis. Grand Rounds. Dept. of Rehabilitation Medicine. UB, January, 1997.

Cardiac Responses to Exercise. Dept. of Rehabilitation Medicine. UB, October, 1996.

Does exercise training in the head-down tilt position improve cardiac function in elderly subjects? Physiology Research Day. Dept. of Physiology. UB, December, 1995.

Clinical applications of muscle and cardiovascular physiology. Rehabilitation Research Symposium. Dept. of Rehabilitation Medicine. UB, September, 1995.

Exercise prescription. Core Topics. Dept. of Geriatrics, Buffalo Veterans Administration Medical Center. Buffalo, NY, March, 1995.

Effects of quantitative progressive exercise rehabilitation for knee osteoarthritis. Physiology Research Day. Dept. of Physiology. UB, December, 1994.

Exercises for knee osteoarthritis. Clinical Research Workshop. Dept. of Geriatrics, Buffalo Veterans Administration Medical Center. Buffalo, NY, February, 1994.

Falls. Core Topics. Dept. of Geriatrics, Buffalo Veterans Administration Medical Center. Buffalo, NY, June, 1993.

Using exercise to modulate physiological parameters in the aged. Department of Medicine Research Conference. UB, June, 1993.

Quantitative progressive exercise for patients with osteoarthritis of the knee. Sports Medicine Institute Seminar Series. UB, April, 1993.

Rehabilitation programs for older patients. Core Topics. Dept. of Geriatrics, Buffalo Veterans Administration Medical Center. Buffalo, NY, March, 1993.

Rehabilitation physiology. Rehabilitation Medicine Lecture Series. UB and Erie County Medical Center. Buffalo, NY, September, 1992.

Exercise training for patients with osteoarthritis of the knees. Grand Rounds. Health Care Plan. Buffalo, NY, March, 1992.

Physiological alterations in aging with special reference to rehabilitation and falls. WNY Geriatric Education Center/Multidisciplinary Center on Aging, UB, February, 1991.

Physiological changes in muscle function with age and physical limitations, with special reference to exercise and rehabilitation. Dept. of Rehabilitation Medicine, UB, January, 1991.

Muscle function and rehabilitation of patients who previously suffered from poliomyelitis. Physiology Research Days. Dept. of Physiology, UB, November, 1990.

Rehabilitation of osteoarthritis of the knee. Dept. of Rehabilitation Medicine, UB, 1988.

Invited Community Service Presentations:

Adding exercise to your life. “Fatigue: Take Control” program of the National Multiple Sclerosis Society. Western NY/Northwestern PA Chapter of the National Multiple Sclerosis Society. Buffalo, NY, August, 2004.

Exercises for Hemophilia Patients. Hemophilia Center of Western NY. Amherst, NY, June, 2001.

Wellness and its importance to the arthritis patient. “Take Charge of Your Arthritis” Arthritis Workshop. Arthritis Foundation of Upstate NY. Buffalo, NY, April, 2001.

Exercise for MS. Women’s Focus Group Luncheon. Center for Women with Disability, Jacobs Neurological Institute, Dept. of Neurology, Kaleida Health – BGH. Buffalo, NY, August, 2000.

Anti-fatiguing exercises and MS. Focus Luncheon, Center for Women with Disability, WNY Neuroscience Center, Dept. of Neurology, Kaleida Health – BGH. Buffalo, NY, August, 1999.

Anti-fatiguing exercises for persons with multiple sclerosis. WNY Multiple Sclerosis Society, Women’s Support Group. Buffalo, NY, April, 1999.

Rehabilitation Physiology. Faculty Development. Hamburg Junior and Senior High School Science Teachers. Buffalo, NY, October, 1995.

Current issues in rheumatology rehabilitation. American Rehabilitation Education Network (Westcott Communications - TV). Dallas, TX, September, 1995.

Rehabilitation Medicine. Western New York Educational Service Council. Buffalo, NY, March, 1995.

Exercises for arthritis (Video). Total Patient Management in Arthritis. Searle/Phase Five Communications arthroPRO medical education program, Orlando, FL, December, 1994.

Exercise and aging. Amherst Senior Center Ombudsmen Program. Amherst, NY, January, 1993.

Maintenance of functional capacity in frail elderly. United Church Home. Buffalo, NY, July, 1992.

Key to pain free knees. Library Limelight (Public Access Cable Television). Buffalo and Erie County Public Libraries. Buffalo, NY, June, 1992.

Quantitative progressive exercise rehabilitation (QPER). Geriatric Interdisciplinary Faculty Training Workshops. WNY Geriatric Education Center. Salamanca, NY, April, 1992.

Exercise and the aging process. Daniel Yale Memorial Lecture. Silver Service Lecture Series. Tompkins Community Hospital. Ithaca, NY, February, 1992.

Quantitative progressive exercise rehabilitation (QPER). Geriatric Interdisciplinary Faculty Training Workshops. WNY Geriatric Education Center. Dunkirk, NY, November, 1991.

Physiological alterations in aging with special reference to rehabilitation and falls. American Red Cross Ombudsmen Program. Buffalo, NY, July, 1991.

Public Communications (Interviews/Presentations):

Magazines: Prevention
Arthritis Today
AARP Bulletin
Practice (OT and PT)

Newspapers, News Services:
NY Times
LA Times
Reuters
Buffalo News

Radio: National Public Radio
WBFO (local)

Television: CNN – Healthworks
Adelphia Cable – Straight Talk on Arthritis
MedStar

Internet: WebMD

Individual Patients and Therapists (locally, nationally and internationally) on exercise and rehabilitation for health in the geriatric and/or rehabilitation populations.