

FACULTY VITA

Name Ann Marie Swank, Ph.D., FACSM, FAACVPR
Title: Professor and Director Exercise Physiology
Office: CG002, Exercise Physiology Laboratory

Education/Certification

Year Degree, Institution, city, State
B.S. (Chemistry) University of Pittsburgh, Pittsburgh, Pa., 1978
M.S. (Exercise Physiology), University of Pittsburgh, Pittsburgh, Pa., 1983
Ph.D. (Exercise Physiology), University of Pittsburgh, Pittsburgh, Pa. 1985

Professional/K-12 Experience

Year Title, Brief Description
Professor, Exercise Physiology, University of Louisville, 2000-present
Director, Exercise Physiology Lab, University of Louisville, 1995-present
Fellow, American Association of Cardiovascular and Pulmonary Rehabilitation, 1997-2004
Program Director, Exercise Science/Exercise Physiology, 1995-2000; 2005-present
Associate Professor, Exercise Physiology, University of Louisville, 1992-present
Fellow, American College of Sports Medicine, 1991-present
Director, Internship Program, University of Louisville, 1985-present
Assistant Professor, Exercise Physiology, University of Louisville, 1985-1992
Program Director, Faculty/Staff Wellness Program, University of Louisville, 1985-1993
American College of Sports Medicine, Examiner/Preventive Programs, 1986-present
Certified Program Director, American College of Sports Medicine, 1984-present
American College of Sports Medicine Examiner/Rehabilitative Programs, 1980-present
Certified Exercise Specialist, American College of Sports Medicine, 1981-present
Teaching Fellowship, University of Pittsburgh, 1981-1985
Research Assistant, Anatomy and Cell Biology, University of Pittsburgh, 1976-1980

Faculty Load

20-30% Teaching, 30-50% Research, 20-30% Service

Teaching (Past 3 years)

Year,	Semester	Course Number	Course Title
2004-06	Fall, Spring	HSS 492	Cooperative Internship
2004-2006	Summer, Fall	EXP 611	Principles of EKG
2004-2006	Summer, Fall, Spring	EXP 620	Clinical internship
2004-2006	Summer, Fall, Spring	EXP 604	Selected Topics-Exercise Physiology

Research/Grants

Selected Publications

1. Swank, AM, Funk, D, Manire, J, Allard, A, Denny, DM. Gender and age related changes in strength and submaximal performance outcomes for individuals with HF. In revision to the *Journal of Cardiac Failure*, 10/2006
2. Nyland, J, Frost, K, Swank, AM, Quesada, P, Angeli, C, Topp, R, Malkani, A. 30-second sit-to-stand test performance relates to the stair climbing capability of women following unilateral total knee arthroplasty. In review to the *Journal of Orthopaedic & Sports Physical Therapy*, 10/2006
3. Paleville DT, Swank, AM, Funk, DC, Bradley, S, Topp, R. Adding weights to low intensity exercise increases isometric muscular strength and functional ability in healthy older adults. In review for the *Journal of Strength and Conditioning Research*, 8/2006

4. Paleville, DT, Topp, R, Swank, AM. Effects of aerobic training prior to and during chemotherapy in a breast cancer patient: a case study. In Press to the *Journal of Strength and Conditioning Research*, 9/2006
5. Jagger, J, Simpson, C, Frost, K, Quesada, P, Topp, R, Swank, AM, Nyland, J. Prehabilitation prior to knee arthroplasty increases post surgical function: a case study. In Press to the *Journal of Strength and Conditioning Research*, 9/2006
6. Liu, T, Swank, AM, Funk, DC, Farr, BK. Short term application of prophylactic knee brace has positive effect on balance for athletes with uninjured knees in unstable condition. In Press to *Applied Research in Coaching & Athletics Annual*, 8/1/2006
7. Swank, AM, Funk, D, Robertson, RJ, Moore, A, Steinel, L, Manire, J. Evaluation of anticipation bias for RPE during progressive exercise testing. *Perceptual and Motor Skills*, 100: 841-850, 2005
8. Swank, AM, Funk, D, Manire, J, Degruccio, L, Dimitriadis, K, Denny, DM. Echocardiographic evaluation of stress test for determining safety of participation in strength training. *J. Strength Cond. Res.*19:389-393, 2005.
9. Smith, A, Swank, AM, Kirby, K, Manire, J, Roberson, E, Schrink, R, Allard, A, Denny, DM. Outcomes of combining progressive strength training with aerobic training for a woman with CHF. *Journal of Exercise Physiology* 7 (4) 23-28, 2004
10. Essig, F, Sinclair, D, Hare, J, Moreillon, J, Funk, D, Swank, AM. Cross-sectional analysis of cardiovascular risk factors for participants of a University faculty staff wellness program. *Journal of Exercise Physiology* 7 (4) 37-43, 2004
11. Charles, C, Farr, B, Liu, T, Nigrini, C, Funk, DC, Swank, AM. The temporal efficacy of ankle taping verse brace on restriction of ankle inversion over an extended period of activity. *Applied Research in Coaching and Athletics Annual* 52-65, 2004
12. Wilson, M, Swank, AM, Felker, J. Exercise strategies for the individual with chronic obstructive pulmonary disease. *Strength and Conditioning Journal* 26:58-63, 2004.
13. Stephenson, J, Swank, AM. Core-Training: Designing a program for anyone. *Strength and Conditioning Journal* 26 (6): 2-5, 2004

Textbooks and Book Chapters

1. Swank, AM (editor) Textbook contract (800 pages) from Thomson Publishing (Delmar Learning): Innovative Muscular Strength, Power and Endurance Training, In Press for 6/2007.
2. Swank AM (editor) Textbook contract (400 pages) from Thomson Publishing (Delmar Learning): Innovative Muscular strength, power and endurance training (Quick reference guide) In Press for 11/2007.
3. Berry MJ, Woodard, MC, Swank, AM. Chronic Obstructive Pulmonary Disease in Clinical Exercise Physiology 2nd edition, Paul Visich and Steven Keteyian editors, Human Kinetics Publishers, In press for 2007.
4. Swank, AM. Aerobic adaptations to exercise training in Essentials of Strength Training and Conditioning 3rd edition, Roger Earle and Thomas Baechle Editors, Human Kinetics Publishers, In press for 2008.
5. Swank, AM, Funk, D, Manire, J. Effects of low intensity exercise on perception of exertion for leisure and daily living activities in healthy elderly men and women. In *Trends in Exercise and Health Research*, editor, Rachel Simon, Nova Science Publishers, 223-234, 2005.

Selected Presentations

Scientific Presentations/Published Abstracts [national/international]

1. Topp, R, Boardley, D, Quesada, P, Swank, A, Nyland, J, Malkani, A. The effect of prehabilitation exercise prior to knee arthroplasty on readiness for surgery. Submitted to Midwest Nursing Research Society, 9/2006.
2. Fisher, M, Bibeau, W, Kachelman, J, Nyland, J, Quesada, P, Swank, A, Topp, R. The effect of prehabilitation exercise prior to knee arthroplasty on functional ability. Submitted to American College of Sports Medicine national meeting, 10/2006.
3. Kachelman, J, Bibeau, W, Topp, R, Swank, A, Quesada, P, Nyland, J, Malkani, A. the effect of prehabilitation exercises on strength and range of motion among end-stage knee osteoarthritis patients. Submitted to American College of Sports Medicine national meeting, 10/2006.

4. Manire, J, Swank, AM, Funk, DC, Allard, A, Denny, DM. Gender and age related changes in strength and submaximal performance outcomes for individuals with CHF. Submitted to American College of Sports Medicine national meeting, 10/2006
5. Topp, R, Frost, K, Nyland, J, Quesada, P, Swank, AM, Malkani, A. Preoperative strength pain and perceived functioning as predictors of postoperative objective functioning after total knee arthroplasty. Midwest Nursing Research Society, 30th annual conference, 4/2006.
6. Jagers, J, Simpson, C, Frost, K, Swank, AM, Topp, R, Nyland, J, Quesada, P, Malkani, A. Prehabilitation prior to knee arthroplasty increases post surgical function: a case study. American College of Sports Medicine, Denver, CO, 6/2006.
7. Miller, T, Simpson, C, Frost, K, Topp, R, Swank, AM, Quesada, P, Nyland, J, Malkani, A, Boardley, D. Preoperative measures of strength, pain, and function as predictors of functional outcomes in TKA patients post surgery. American College of Sports Medicine, Denver, CO, 6/2006.
8. Quesada, PM, Durham, MP, Topp, R, Swank, AM, Biton, D. Effects of smooth versus “prickly” surface conditions on tiltboard performance. International Society of Biomechanics/American Society of Biomechanics Joint Conference, Cleveland OH, 7/31-8/5, 2005
9. Biton, D, Quesada, PM, Nyland, J, Durham, MP, Angeli, CA, Topp, R, Swank, AM. Heelstrike dynamics during 6 minute walk test among end stage knee OA patients. International Society of Biomechanics/American Society of Biomechanics Joint Conference, Cleveland OH, 7/31-8/5, 2005
10. Biton, D, Quesada, PM, Angeli, CA, Nyland, J, Topp, R, Swank, AM. Fatigue during gait among end stage knee osteoarthritis. Summer Bioengineering Conference, Vail, CO, 6/2005.
11. Durham, M, Swank, AM, Nyland, J, Frost, K, Quesada, PM, Biton, MS, Naeger, C. Effects of 8-week prehabilitation on TKA patients functional and pain outcomes. American College of Sports Medicine, 6/2005.
12. Naeger, CW, Brown, K, Swank, AM, Quesada, PM, Nyland, J, Durham, M. Eight weeks Pre-habilitation increases functional performance: case-control comparison of two patients with total knee arthroplasty. American College of Sports Medicine, 6/2005.
13. Jiang, W., Whellan, D., Kuchibhatla, M, O’Connor, C, Bittner, V, Swank, AM, Gheoghiade, M, Randell, D, Munsch, D, Garcia, M, Krishnan, R. What do patients with heart failure and their non-psychiatric health providers believe regarding depression and depression care?—Preliminary results of depression education study for patients with heart failure. American Psychological Association, 2005.
14. Manire, J, Adams, K, Swank, AM, Kipp, RL, Stamford, BA. Diurnal variations in hamstring and lower back flexibility. American College of Sports Medicine 6/2004.
15. Swank, AM. Heart Failure. A Controlled Trial Investigating Outcomes of Exercise Training, HF-ACTION, Recruitment and Registry update and Strategies to enhance enrollment, HF-ACTION Steering committee meeting at the American College of Cardiology 3/2004.

Grants

1. Heart Failure. A Controlled Trial Investigating Outcomes of Exercise Training (HF-ACTION): Main Study, Swank, AM, clinical site PI through subcontract with Duke University Clinical Research Institute, \$591,430, 01/01/03 to 01/01/08 National Institutes of Health (HLBI-R01)
2. Heart Failure. A Controlled Trial Investigating Outcomes of Exercise Training (HF-ACTION): Genetics and Biomarker sub-study Swank, AM, clinical site PI through subcontract with Duke University Clinical Research Institute See above main study for dollar amount, 01/01/03 to 01/01/08, National Institutes of Health (HLBI-RO1)
3. Heart Failure. A Controlled Trial Investigating Outcomes of Exercise Training (HF-ACTION): Economic and quality of life sub-study, Swank, AM, clinical site PI through subcontract with Duke University Clinical Research Institute, See above main study for dollar amount, 01/01/03 to 01/01/08 National Institutes of Health (HLBI)
4. Heart Failure. A Controlled Trial Investigating Outcomes of Exercise Training: Depression Education Sub-study to Promote Depression Care in CHF. Swank, AM, clinical site PI through subcontract with Duke University Psychology Department, \$125,000, 01/01/04 to 01/01/08, Pfizer Pharmaceuticals
5. Total knee replacement and exercise training in the elderly. Swank, AM, co-investigator, Robert Topp PI (Nursing School), \$1,034,899, 8/1/03 to 7/31/07. National Institutes of Health (NINR, RO1)

6. Safety and Effectiveness of Combined Strength and Aerobic Training for Individuals with CHF. Swank, AM, PI, with co-investigators Adams, KJ and D. Martin Denny, \$146,000
8/02 to 12/05 National Institutes of Health (NHLBI-R15)

Service (Past 5 years)

Professional

Journals Reviewed: Health Education

Journal of Strength and Conditioning Research
Journal of Cardiopulmonary Rehabilitation
Journal of Sports Medicine and Rehabilitation
Journal of Orthopedic and Sport Physical Therapy
Medicine and Science in Sport and Exercise
British Journal of Sports Medicine
Clinical Exercise Physiology
Journal of Physical Activity and Aging
Journal of Cardiovascular Nursing

Committee Activity:

American College of Sports Medicine [Fellow, 1991, credentials committee, 2001-present, chair credentials committee, 2006-2009, Medicine and Science in Sport and Exercise manuscript reviewer, 2000-present]

National Strength and Conditioning Association [Associate editor for Journal of Strength and Conditioning Research, Editorial Excellence Award for Journal of Strength and Conditioning Research, 2005]

Heart Failure: A controlled trial to investigate outcomes of exercise training (HF-ACTION)

- a. Steering Committee member, 2001-present
- b. Coordinating Committee member, 2001-2004
- c. Recruitment and Retention subcommittee, chair, 2002-2004

University

College of Education and Human Development

- a. ECPY search committee, 2001
- b. Faculty Grievance committee, 2001-2004
- c. Planning and Budget committee, 2001-2004; 2005-present.
- d. Ad Hoc committee, 2001, Revision of the bylaws.
- e. Personnel committee, 2004-present.
- f. Numerous college wide search committees, 1992-present

Health Promotion, Physical Education and Sport Studies

- a. HPES Search Committees, 1987, 1988, 1995, 1996, 1997, 1998, 2004.
- b. Curriculum Committee, 1993-1999 (chair 1996-1999).
- c. Personnel Committee, 1994-1996, 2000-2003 (chair).
- d. Ad Hoc Committee, 2001, merit document
- e. Ad Hoc Committee, 2001, HPES 492 outcomes

University-wide Committees

- a. Distinguished Service Award, 1987-1988
- b. Decanal review committee (School of Education Dean), 1994.
- c. Intramural Research Incentive Committee, 1990-present.
- d. Southern Association of Colleges and Schools (SACS) accreditation committee, Graduate and Professional Programs subcommittee, 1995-1997.
- e. Graduate Council 1997-1999.
- f. Service Learning Advisory Committee 1998-1999.

Community

University of Louisville University Club Board of Directors (1999-2001, Distinguished Service Award, 2002) re-elected to Board of Directors (2003-2006).

- a. House subcommittee (chair)
- b. Programming subcommittee
- c. Ombudsman
- d. Executive committee (secretary, vice president)

Citizen's Review Panel for Department of Child Protective Services, 2006 to present

Awards/Honors

Teaching Fellowship, University of Pittsburgh, 1981-1985

Fellow, American Association of Cardiovascular and Pulmonary Rehabilitation, 1997-2004

Fellow, American College of Sports Medicine, 1991-present

University of Louisville University Club Distinguished Service Award, 2002

National Strength and Conditioning Association [Associate editor for Journal of Strength and Conditioning Research, Editorial Excellence Award for Journal of Strength and Conditioning Research, 2005]