

CURRICULUM VITAE

Ross G. Querry, PT., Ph.D.

Assistant Professor, Department of Physical Therapy, Southwestern
Allied Health Sciences School

University of Texas Southwestern Medical Center

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EDUCATION:

June 1999 - July 2001

Texas Woman's University

Post Doctoral Fellow - M.S. Physical Therapy

Aug 1995 - June 1999

University of North Texas HSC

Ph.D. Biomedical Science - Integrated Physiology

May 1991 - May 1995

University of Texas at Arlington

B.S. Exercise Science - Exercise Physiology

May 1985 - May 1987

Oklahoma City University

Computer Science

May 1982 - Aug. 1983

Oklahoma State University Tech. Inst.

General Studies

EMPLOYMENT:

Assistant Professor

Department of Physical Therapy

Southwestern Allied Health Sciences School

University of Texas Southwestern Medical Center

August 2001 – Present

Honors

2005 Distinguished Alumni Award Recipient, College of
Education, University of Texas at Arlington

2004 Distinguished Teacher Award, University of Texas
Southwestern Allied Health Science School

2000 Pauline Terrell Academic Scholarship, Texas Woman's
University

1999 Post Doctoral Teaching Fellowship, Texas Woman's
University

1994 Judd Ramsey Memorial Scholarship, University of
Texas at Arlington

PUBLICATIONS:

Published Manuscripts

Querry, R.G., Pacheco, F., Annaswamy, T., Goetz, L., Winchester, P.K., Tansey, K. Synchronous stimulation and monitoring of the H-reflex during robotic body weight supported ambulation in subjects with spinal cord injury. *J of Rehab Res & Dev* (Submitted), February 2007.

Lamb, K., Gallagher, K., McColl, R, Mathews, D., Querry, R.G., Williamson, J.W.. Exercise-induced decreases in insular cortex rCBF during post-exercise hypotension. *Med Sci Sports Exerc* (in press), March 2007.

Querry, R.G., Smith, P.S. Academic Bridge to the Community: The ABC of a Service Learning Model. *J of Allied Health*, 35 (1), 2006.

Winchester, P., McColl, R., Querry, R., Foreman, N., Mosby, J., Tansey, K., Williamson, J. Changes in supraspinal activation patterns following robotic locomotor therapy in motor-incomplete spinal cord injury. *Neurorehabil Neural Repair* 19: 313-324, 2005.

Smith S.A., Querry, R.G., Fadel P.J., Gallagher K.M., Stromstad M., Ide K., Raven P.B., Secher N.H. Partial blockade of skeletal muscle somatosensory afferents attenuates baroreflex resetting during exercise in humans. *J Physiol*, 551:1013-1021, 2003.

Gallagher, K.M, Fadel, P.J., Smith, S.A., K.H. Norton, Querry, R.G., Olivencia-Yurvati, A.H., Raven, P.B. Increases in intramuscular pressure raise arterial blood pressure during dynamic exercise. *J. Appl. Physiol*, 91: 2351-2358, 2001.

Smith, S.A., Querry, R.G., Fadel, P.J., Weiss, M.W., Olivencia-Yurvati, A.H., Shi, X. and Raven, P.B. Comparison of aortic and carotid

baroreflex stimulus-response characteristics in humans. *Auton Neurosci*, 88: 74-85, 2001.

Gallagher, K.M., Fadel, P.J., Strømstad, M., Ide, K., Smith, S.A., Querry, R.G., Raven, P.B., and Secher, N.H. Effects of exercise pressor reflex activation on carotid baroreflex function during exercise in humans. *J Physiol*, 533: 871-880, 2001.

Gallagher, K.M., Fadel, P.J., Strømstad, M., Ide, K., Smith, S.A., Querry, R.G., Raven, P.B., and Secher, N.H. Effects of partial neuromuscular blockade on carotid baroreflex function during exercise in humans. *J Physiol*, 533: 861-870, 2001.

Querry, R.G., Smith, S.A., Strømstad, M., Ide, K., Secher, N.H., and Raven, P.B. Anatomical and functional characteristics of carotid sinus stimulation in humans. *Am J Physiol Heart and Circ Physiol*, 280: H2390-2398, 2001.

Querry, R.G., Smith, S.A., Strømstad, M., Ide, K., Raven, P.B., and Secher, N.H. Neural blockade augments central command contribution to carotid baroreflex resetting during exercise in man. *Am J Physiol Heart and Circ Physiol*, 280: H1635-H1644, 2001.

Smith, S.A., Querry, R.G., Fadel, P.J., Welch-O'Connor, R.M., Olivencia-Yurvati, A.H., Shi, X., and Raven, P.B. Differential baroreflex control of heart rate in sedentary and aerobically fit individuals. *Med Sci Sports Exerc*, 32: 1419-1430, 2000.

Norton, K.H., Gallagher, K.M., Smith, S.A., Querry, R.G., Welch-O'Connor, R.M., and Raven, P.B. Carotid baroreflex function during prolonged exercise. *J Appl Physiol*, 87: 339-347, 1999.

Smith, S.A., Gallagher, K.M., Bryant, K.H., Querry, R.G., Welch-O'Connor, R.M., and Raven, P.B. Ventilatory responses to dynamic exercise elicited by intramuscular sensors. *Med Sci Sports Exerc*, 31: 277-286, 1999.

Book Chapters:

Winchester, P.K., Query, R.G. Robotic orthoses for body weight supported treadmill training. *New Advances in Prosthetics and Orthotics: Phys Med Rehabil Clin N Am*, 17: 159-172, 2006.

Published Abstracts:

Query, R.G. , Winchester, P.K., Pacheco, F., Annaswamy, T., Goetz, L., Tansey, K. Synchronous stimulation and monitoring of the H-reflex during robotic body weight supported ambulation in subjects with spinal cord injury. *J Spinal Cord Med*, 29 (3): P3, 2006.

Pacheco, F., Query, R.G., Annaswamy, T., Goetz, L., Winchester, P.K., Tansey, K. H-reflex modulation during robotic body-weight supported treadmill training. *J Spinal Cord Med*, 29 (3): 23, 2006.

Winchester, P.K., R.G. Query, Mosby, J., Foreman, N., Tansey, K. A prediction model for change in gait speed following body weight supported treadmill training. *J Spinal Cord Med*, 29 (3): 24, 2006.

Foreman, N., Query, R.G., Mosby, J., Tansey, K., Winchester, P.K. Changes in muscle activation patterns following a single bout of body weight-supported treadmill training in subjects with spinal cord injury. *J Spinal Cord Med*, 29 (3): P24, 2006.

Mosby, J., Query, R.G., Foreman, N., Tansey, K., Winchester, P.K. Evaluation of the Lokomat® L-Stiff to measure spasticity in subjects with spinal cord injury following standing and walking. *J Spinal Cord Med*, 29 (3): P25, 2006.

Winchester, P.K., Foreman, N., Query, R.G., Garstang, S., Williamson, J.W., Tansey, K. Overground locomotor function in spinal cord injury following body weight supported treadmill training. *J Spinal Cord Med*, 28 (2): 25, 2005.

Foreman, N., Query, R.G., Williamson, J.W., Tansey, K., Winchester, P.K. The reliability and differences of EMG during robotic and manually assisted body weight supported treadmill training in spinal cord injured subjects. *J Spinal Cord Med*, 28 (2): P12, 2005.

Fadel, P.J., Gallagher, K.M., Smith, S.A., Querry, R.G., Welch-O'Connor, R.M., Olivencia-Yurvati, A.H., and Raven, P.B. Role of chemical sensitive muscle receptors (CSMR) in the regulation of blood pressure and ventilation during dynamic exercise. *Med Sci Sports Exerc*, 31 (5): S226, 1999.

Querry, R.G., Gallagher, K.M., Smith, S.A., Strømstad, M., Ide, K., Secher, N.H., Saltin, B., and Raven, P.B. Effects of partial neuromuscular blockade on carotid baroreflex function during static exercise in humans. *Med Sci Sports Exerc*, 31 (5): S225, 1999.

Gallagher, K.M., Querry, R.G., Smith, S.A., Strømstad, M., Ide, K., Secher, N.H., Saltin, B., and Raven, P.B. Effects of partial neuromuscular blockade on carotid baroreflex function during dynamic exercise in humans. *Med Sci Sports Exerc*, 31 (5): S226, 1999.

Smith, S.A., Querry, R.G., Gallagher, K.M., Strømstad, M., Ide, K., Secher, N.H., Saltin, B., and Raven, P.B. Epidural anesthesia and carotid baroreflex function during dynamic exercise in man. *Med Sci Sports Exerc*, 31 (5): S224, 1999.

Querry, R.G., Smith, S.A., Strømstad, M., Ide, K., Raven, P.B. and Secher, N.H. Anatomical and transmission characteristics of carotid sinus stimulation during exercise in man. *FASEB J*, 13 (5): A1048, 1999.

Smith, S.A., Querry, R.G., Strømstad, M., Ide, K., Gallagher, K.M., Raven, P.B. and Secher, N.H. Carotid-cardiac baroreflex response to static exercise during epidural anesthesia in man. *FASEB J*, 13 (5): A1047, 1999.

Gallagher, K.M., Smith, S.A., Querry, R.G., Bryant, K.H., Welch O'Connor, R.M., and Raven, P.B. Changes in venous return alter the plateau of stroke volume during dynamic exercise. *FASEB J*, Abst. # 6028, 12 (5): A1042, 1998.

Querry, R.G., Smith, S.A., Welch-O'Connor, R.M., Reese, I.P., Olivencia-Yurvati, A.H., Raven, P.B., Zhang, R., and Shi, X. Power spectral analysis of systemic arterial pressure and heart rate during

central hypovolemia: effect of age. *FASEB*, Abst. # 5715, 12 (5): A987, 1998.

Bryant, K.H., Gallagher, K.M., Smith, S.A., Querry, R.G., Welch-O'Connor, R.M., and Raven, P.B. Resetting of the carotid arterial baroreflex during prolonged exercise - effect on cardiovascular drift. *Med Sci Sports Exerc*, Abst. # 1207, 30 (5): 5212, 1998.

Querry, R.G., Smith, S.A., Welch-O'Connor, R.M., Olivencia-Yurvati, A.H., Reese, I.P., Raven, P.B., and Shi, X. Latency of peak tachycardia during graded hypotension. *Med Sci Sports Exerc*, Abst. # 1237, 30 (5): 5217, 1998.

Gallagher, K.M., B. Truehaft, Smith, S.A., Querry, R.G., Bryant, K.H., Welch-O'Connor, R.M., and Raven, P.B. The limiting factors in stroke volume during dynamic exercise to maximum: pericardial restraint or venous return. *Med Sci Sports Exerc*, Abst. # 639, 30 (5): 5212, 1998.

Gallagher, K.M., Smith, S.A., Querry, R.G., and Raven, P.B. Stroke volume continuously increases during dynamic exercise to maximum oxygen uptake (O_{2max}) in endurance athletes. *FASEB J*, Abst. #1689, 11(3): A291, 1997.

Smith, S.A., Gallagher, K.M., Bryant, K.H., Querry, R.G., and Raven, P.B. Role of intramuscular afferent fibers in the ventilatory response to dynamic exercise. *FASEB J*, Abst. #300, 11(3): A52, 1997.

Burgos, V.M., Querry, R.G., Gallagher, K.M., Smith, S.A., Bryant, K.H., and Raven, P.B. The contribution of cardiac output and total peripheral resistance to changes of mean arterial pressure by activation of muscle mechanoreceptors. *Am Heart Assoc*, 1997.

Gallagher, K.M., Bryant, K.H., Querry, R.G., Smith, S.A., and Raven, P.B. Oxygen extraction compensates for reductions in blood flow during steady-state dynamic exercise. *Abst. # 1025, Med Sci Sports Exerc*, 29(5): S179, 1997.

Gallagher, K.M., Smith, S.A., Bryant, K.H., Querry, R.G., Burgos, V.M., Shi, X., and Raven, P.B. Interaction of muscle mechano- and

metaboreceptors in regulating blood pressure during dynamic exercise. *Abst. # 8.2, The Physiologist.* 39(5), A-16, 1996.

Gallagher, K.M., Smith, S.A., Bryant, K.H., Querry, R.G., Burgos, V.M., Shi, X., and Raven, P.B. Interaction of muscle mechano- and metaboreceptors in regulating blood pressure during dynamic exercise. *Abst. # 8.2, The Physiologist.* 39(5), A-16, 1996.

Querry, R.G., Gallagher, K.M., Reese, I.P., Bryant, K.H., and Raven, P.B. Comparison of non-invasive vs. invasive measurements of arterial blood pressure during dynamic exercise to fatigue. *The Texas Regional Chapter of the American College of Sports Medicine, 1996.* Also: *Med Sci Sports Exerc*, 28 S170: May, 1996.

Smith S.A., Gallagher, K.M., Querry, R.G., Bryant, K.H., and Raven, P.B. Interaction of muscle ergoreceptors with central command during progressive workload dynamic exercise to maximum in humans. *The Texas Regional Chapter of the American College of Sports Medicine, 1996.*

Smith, S.A., Gallagher, K.M., Querry, R.G., and Raven, P.B. Electromyographic activity during dynamic exercise in humans: influence of muscle chemo- and mechano-reflexes. *Society for Experimental Biology and Medicine, 1995.*

Querry, R.G., Levine, B.D. and Pawelczyk, J.A. Limb vascular responsiveness to adrenergic agonists following physical deconditioning. *The Texas Regional Chapter of the American College of Sports Medicine, 1995.*

Pawelczyk, J.A., Querry, R.G., Zuckerman, J., McMinn, S.B. and Raven, P.B. Sympathetic activation with abdominal compression: a mechanism for the action of medical anti-shock trousers. *FASEB J*, 8:A604, 1994.

FUNDED RESEARCH GRANTS:

Veterans Affairs Rehabilitation Research and Development B40261

Project Title: Mechanisms of Neural Plasticity and Recovery in Body Weight Supported Treadmill Training after Spinal Cord Injury

Role:Co-investigator, (Lance Goetz, P.I.)

Funding: \$439,500 (10/2005 – 9/2008)

SAHSS Research Committee (internal grant)

Project Title: Cortical Organization during Walking Activities in Patients with Partial Recovery from Spinal Cord Injury

Role:Principal investigator

Funding: \$6000 (2/2005 – 5/2006)

Grant Development Scholarship from Enhancing Rehabilitation Research in the South (ERRIS) training program NIH grant 5 R24 HD039631 and Midwest Medical Rehabilitation Research Network 5 R24 HD039627

Project Title: Cortical Brain Activation and Reorganization during Robotic Training following Spinal Cord Injury

Role: Principal Investigator

Funding: \$2,500 (1/2005)

National Cancer Institute 1-RO1-CA100474-01

Project Title: Project ALLIFE - Exercise and Leukemia Survivors

Role:Co-investigator, (Kevin Oeffinger, P.I.)

Funding: \$1,210,488 (2003-2007)

American Heart Association Texas Affiliate BGIA 0465112Y

***Project Title:* Areas of Cortical Activation Involved with Selective Carotid Baroreflex Stimulation**

***Role:* Principal investigator**

***Funding:* \$125,000 (7/2004 - 7/2006)**

SAHSS Research Committee (internal grant)

***Project Title:* Areas of Cortical Activation with Selective Carotid Baroreflex Stimulation**

***Role:* Principal investigator**

***Funding:* \$5000 (2/2004 – 8/2004)**

National Institutes of Health NIH 5-R01-HL59145-04

***Project Title:* Cerebral Cortical Sites of Cardiovascular Regulation**

***Role:* Co-investigator, (Jon Williamson, P.I.)**

***Funding:* \$500,000 (8/2001 - 9/2003)**

Danish International Student Research Grant, Copenhagen Muscle Research Center, Copenhagen Denmark

***Project Title:* Neural blockade augments central command contribution to carotid baroreflex resetting during exercise in man. Anatomical and functional characteristics of carotid sinus stimulation in humans**

***Role:* Principal investigator**

***Funding:* \$5,000 (9/1999)**

Texas Chapter of the American College of Sports Medicine

Project Title: Carotid baroreflex function during prolonged exercise

Role: Principal Investigator

Funding: \$2,500 (9/1998)

INVITED PRESENTATIONS:

Jan 2007 School of Allied Health Sciences Grand Rounds

Sports Supplementation: An Evidence Based Approach

Dec 2005 Commencement Speaker – Department of Education,
University of Texas at Arlington

April 2005 Texas American College of Sports Medicine – Spring
Lecture Tour (First Alumni Speaker)

Advancing Technology in Exercise for Rehabilitation

Mar 2005 Texas American College of Sports Medicine – Annual
Meeting

Technology and Brain Imaging in Neurorehabilitation

Feb 2004 Brian Williams Center Fitness/Wellness Series, UT
Southwestern Medical Center.

Nutritional Supplements and Strength Training

Oct 2004 National Multiple Sclerosis Society

*Staying Hooked on Exercise for Patients with Multiple
Sclerosis*

June 2002 Baylor Sports Medicine Fitness Instructor Advanced
Curriculum Series, Houston, TX.

*Exercise Considerations and Programming for Wellness
in Special Populations*

Aug 2003 Baylor Sports Medicine Fitness Instructor Advanced
Curriculum Series, Houston, TX.

Power in Motion I: Evaluation and Exercise for the Upper Extremity

Oct 2003 Baylor Sports Medicine Fitness Instructor Advanced Curriculum Series, Houston, TX.

Power in Motion II: Evaluation and Exercise for the Lower Extremity

Dec 2002 American College of Integrative Medicine, Houston, TX

Exercise Programming for Special Populations: Cardiovascular, Diabetes, and Orthopedic Health

Aug 2002 Baylor Sports Medicine Rehabilitation Exercise Specialist Series, Houston, TX.

Advanced Biomechanics of Weight Training

May 2002 Physical Medicine and Rehabilitation Grand Rounds, UT Southwestern Medical Center *Therapeutic Modalities: Clinical Review and Evidence*

Sept 2001 Baylor Sports Medicine Professional Fitness Instructor Training, Houston, TX.

Blending Nutrition, Exercise, and Lifestyle Change into Everyday Living

May 2001 Texas Institute for Rehabilitation and Research, Houston, TX.

Cardiovascular Regulation with Exercise in Patient with Spinal Cord Injury

July 2000 Texas Woman's University, School of Physical Therapy

Exercise Responses during Nervous System Blockade: Spinal Cord Injury and Epidural Anesthesia

Feb 1999 Texas Chapter American College of Sports Medicine

Effects of Partial Neuromuscular Block on Carotid Baroreflex Function During Static Exercise In Humans

Mar 1996 University of Texas at Arlington, Department of Kinesiology

Opportunities in Graduate Education and Allied Health Following Graduation

PROFESSIONAL SOCIETIES/COMMITTEES:

1999 – Present American Physical Therapy Association

Section membership: Orthopedic, Cardiovascular & Pulmonary, Sports

1991 – Present American College of Sports Medicine

1995 – 2001 American Physiological Society

1995 – 2001 Society for Experimental Biology

CONTINUING EDUCATION WORKSHOPS ATTENDED:

Cardiopulmonary Rehabilitation for Therapists: From Acute Care to Home Health, San Marcos, TX, August 2004

Multiple Sclerosis: A Course for Occupational and Physical Therapists, Dallas, TX, August 2004

Diagnosis and Treatment of Movement Impairment Syndromes, Level 1 Dallas, TX, April 2004

Ethics in Rehabilitation, Dallas, TX, September 2003

Clinical Biomechanics and Rehabilitation of the Foot-Ankle, Dallas, TX, September 2003

Orthopedic Rehabilitation: Current Concepts and Clinical Considerations for the Shoulder, Dallas, TX, September 2003

Neurology of Walking, Austin, TX, March 2002

CURRENT TEACHING RESPONSIBILITIES:

PT 5344 Cardiopulmonary Patient Management – course coordinator

PT 5221 Thermal and Mechanical Agents – taught units on physiological effects of modalities and patient management.

PT 5323 Therapeutic Exercise – course coordinator

PT 5139 Clinical Correlations – taught unit on collection of vital signs in patient management

PT 5335 Lifespan Development – taught units on adolescent and geriatric concepts of wellness

PT 5212 Clinical Pathology III – course coordinator