

8/22/18

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EDUCATION:

The University of Tennessee, Knoxville. Ph. D. in Exercise Physiology, 1985.

The University of Tennessee Center for Health Sciences, Memphis TN, B.S. in Physical Therapy, 1978.

The University of Tennessee, Knoxville, B.S. in Physical Education, 1976.

PROFESSIONAL LICENSE:

Florida Physical Therapy License #4605

EMPLOYMENT HISTORY:

Professor of Physical Therapy, 2005 to present

Associate Professor of Physical Therapy, University of Florida 1990 to present

Assistant Professor of Physical Therapy, University of Florida 1985 to 1990

Exercise/Physical Fitness consultant, Union Carbide Corporation, Oak Ridge National Laboratory, Oak Ridge, Tn. 1983-1985

Physical Therapist/Exercise Physiologist, Cardio-Pulmonary Rehabilitation Program, Fort Sanders Hospital, Knoxville, Tn. 1980-1985

PEER REVIEWED PUBLICATIONS:

H Index (excluding self citations) 37

Electronic Bibliography

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1rOzu4UV3nMAq/bibliography/41628802/public/?sort=date&direction=ascending>

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2. Bubb W, D Martin and E Howley: Predicting oxygen uptake during level walking at speeds of 80-130 m/min. *J. Cardiopulmonary Rehabil.* 5:462-465, 1985.
3. Graves J, D Martin and L Miltenberger: Physiological responses to walking with hand weights, wrist weights, and ankle weights *Medicine and Science in Sports and Exercise* 20:265-271, 1988.
4. Acker J and D Martin: Angina and ST-segment depression during treadmill and arm ergometer testing in patients with coronary artery disease. *Physical Therapy* 68:195-198, 1988.
5. Van Dam S, Gillespy M, M Notelovitz and D Martin: Effects of exercise on glucose metabolism in post-menopausal women. *Am J Obstet and Gynecology* 159:82-86, 1988.
6. Martin AD and J E Acker Jr. Predicting Aerobic Capacity During the Modified Naughton Treadmill Protocol in Patients with Coronary Artery Disease. *J. Cardiopulmonary Rehabil.* 8:297-302, 1988.
7. Balogun JA, AD Martin and MA Clendenin: Calorimetric Evaluation of the Caltrac Accelerometer During Level Walking. *Physical Therapy* 6:501-509, 1989.
8. Martin D, M Notelovitz, J O'Kroy and C Fields. Predicting maximal oxygen uptake from treadmill testing in postmenopausal women. *Am. J of Obstet. and Gynecology* 161:1127-1132, 1989.
9. Balogun J, Martin D and Clendenin M. Human energy expenditure during level treadmill walking on a treadmill at speeds of 54-130 meters per minute. *Int Disabil Studies* 11:71-74, 1989.
10. Martin D and G Kauwell. Continuous Assistive-Passive Exercise and Cycle Ergometer Training in Sedentary Women. *Med. Sci. Spts Exer.* 22; 523-527, 1990.
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12. Powers, S, Dodd, S, Criswell D, Lawler, J, Martin D and S Grinton. Evidence for an alveolar - arterio PO₂ gradient threshold during incremental exercise. *Int J Sports Med* 12:313-318, 1991.
13. Probart CK, Notelovitz M, Martin D, Khan F and Fields C. The effects of moderate aerobic exercise training on physical fitness among women 70 years of age and older. *Maturitis* 14:49-56, 1991.
14. Norvell N, Martin D and Solomon A: Psychological And Physiological Benefits of Passive and Aerobic Exercise In Sedentary Middle-Aged Women. *J Nervous & Mental Dis.* 179(9); 573-574, 1991.
15. Martin D, S Powers, M Cicale, N Collop, D Huang and D Criswell. Validity of Pulse Oximetry During Exercise in Elite Endurance Athletes. *J Appl Physiol.* 72(2) 455-458, 1992.
16. Powers, SK, Lawler J, Criswell, Lieu FK, Martin D. Aging and respiratory muscle metabolic plasticity: effects of endurance training. *J Appl Physiol.* 72 1068-1073, 1992.

17. Powers S, Martin D, Cicale M, Collop N, Huang D and Criswell D. Role of hyperventilation in exercise induced hypoxemia in elite endurance athletes. *Eur J Appl Physiol.* 65:37-42, 1992.
18. Hammeren J, S Powers, J Lawler, D Criswell, D Martin, D Lowenthal and M Pollock. Exercise training-induced alterations in skeletal muscle oxidative and antioxidant enzyme activity in senescent rats. *Int J Sports Med.* 13:412-416, 1992.
19. Powers, S. K., Martin, D., Cicale, M., Collop, N., Huang, D., Criswell, D. Exercise-induced hypoxemia in athletes: role of inadequate hyperventilation. *Eur J Appl Physiol Occup Physiol*, 1992. 65(1): p. 37-42.
20. Martin, D. and J. O'Kroy: Effects of Acute Hypoxia on VO_{2max} of Trained and Untrained Subjects. *J. Sport Sciences* 11:37-42, 1993.
21. Martin, D and M. Notelovitz. Effects of Aerobic Training on Bone Mineral Density of Postmenopausal Women. *J Bone Min Res.* 8:931- 936, 1993
22. Lieu F, SK Powers, R Herb, D Criswell, D Martin, C Wood, W Stainsby and K Chen. Exercise and glucocorticoid-induced diaphragmatic myopathy. *JAP* 75:763-771, 1993
23. Powers, S.K., D. Martin, and S. Dodd. Exercise-induced hypoxaemia in elite endurance athletes: Incidence, causes and impact on VO_{2max} *Sports Medicine.* 16(1):14-22, 1993.
24. Lawler J, SK Powers, J Hammeren, AD Martin. Oxygen cost of treadmill running in 24 month old Fischer-344 rats. *Med. Sci. Spts Exer.* 25:1259-1264, 1993
25. Mengelkock LJ, D Martin and J. Lawler. A review of the principles of pulse oximetry and accuracy of pulse oximeter estimates during exercise. *Physical Therapy* 74:40-49, 1994.
26. Martin D, J. Day, G. Ward E. Carter and S. Chesrown. Effects of Breathing a Normoxic Helium Mixture on Exercise Tolerance of Cystic Fibrosis Patients. *Pediatric Pulmonology* (18) 206-210, 1994..
27. Powers SK, D Criswell, J Lawler, LL Ji, R Herb and D Martin. Rigorous exercise training increases superoxide dismutase activity in the rat ventricular myocardium. *Am J of Physiology* 265(6) H2094-2098, 1994.
28. Powers SK, D Criswell, J Lawler, D Martin, LL Ji, R Herb, and G Dudley. Regional training-induced alterations in diaphragmatic oxidative and antioxidant enzymes. *Respiration Physiology* 95:(2)227-237, 1994.
29. Powers SK, D Criswell, J Lawler, LL Ji, D Martin, R Herb and G Dudley. Influence of exercise and fiber type on antioxidant enzyme activity in rat skeletal muscle. *American Journal of Physiology* 266(2):R375-380, 1994.
30. Powers SK, Wade M, Criswell D, Herb R, Dodd S, Hussain R, Martin D. Role of beta adrenergic mechanisms in exercise training-induced metabolic changes in respiratory and locomotor muscle. *Int J Sports Med.* 16:13-18, 1995.
31. Powers SK, H Demirel, J Coombs, H Vincent, H Naito, A Shanely and D Martin. Exercise and age-related changes in skeletal muscle. *Ind. J Physiol & Allied Sci.* 50(4) 1996.
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33. Hodge K, Powers SK, Coombes J, Fletcher L, Demirel HA, Dodd SL, Martin D. Bioenergetic characteristics of the costal and crural diaphragm in mammals. *Respir Physiol Aug*;109(2):149-54, 1997

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37. Eason J, SL Dodd, SK Powers, AD Martin. Detrimental effects of short-term glucocorticoid use on the rat diaphragm. *Physical Therapy* 80:160-167, 2000.
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44. Sapienza, C.M., Davenport, P.D., & Martin, A.D. Expiratory muscle training increases pressure support in high school band students. *Journal of Voice*, 16,4,495-510, 2002.
45. Huang, W, Martin AD, Davenport PW. Respiratory-Related Evoked Potentials elicited by inspiratory occlusions in Double Lung Transplant Recipients. *JAP* 93:894-902, 2002.
46. Zhao, W, Martin AD, Davenport PW. Detection of Inspiratory Resistive Loads in Double Lung Transplant Recipients. *JAP* 93:1779-1785, 2002.
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48. Huang, C, Martin AD, Davenport PW. Effect of inspiratory muscle strength training on inspiratory motor drive and RREP early peak components. *JAP* 94:462-468, 2003.
49. Baker, S., Sapienza, C., Davenport, P., Martin, D., Hoffman, B., Woodson, G. Inspiratory muscle strength training: A case of bilateral abductor vocal fold paralysis. *Journal of Voice*, 17, 384-394, 2003.
50. Duncan GE, Perri MG, Anton SD, Limacher MC, Martin AD, Lowenthal DT, Arning E, Bottiglieri T, Stacpoole PW. Effects of exercise on emerging and traditional cardiovascular risk factors. *Preventive Medicine*. Nov;39(5):894-902, 2004.

51. Duncan GE,, Anton SD, Syderman SJ, Newton RL, Corsica JA, Durning PE, Ketterson TU, Martin AD, Limacher MC, Perri MG. Prescribing Exercise at Varied Levels of Intensity and Frequency: A Randomized Trial. *Arch Intern Med* 165:2362-2369, 2005.
52. Ozcan MS, Bonnet SW, Martin AD, Gabrielli A, Layon AJ and Banner MJ. Abnormally increased power of breathing as a complication of closed endotracheal suction catheter systems. *Respiratory Care*. 51:423-425,2006.
53. Davenport, P. W. Martin, A. D. Chou, Y. L. Alexander-Miller, S. Respiratory-related evoked potential elicited in tracheostomized lung transplant patients. *Eur Respir J*, 28(2): p. 391-6, 2006.
54. Chiara, T, D Martin, PW Davenport, D Bolser. Expiratory Muscle Strength Training in Persons With Multiple Sclerosis Having Mild to Moderate Disability: Effect on Maximal Expiratory Pressure, Pulmonary Function, and Maximal Voluntary Cough. *Arch Phys Med Rehabil Vol* 87(4), 468-473, 2006.
55. Chiara, T, D Martin C Sapienza. Expiratory muscle strength training: speech production outcomes in patients with multiple sclerosis. *Neuro Rehab and repair*. Vol 21:pg 239-249, 2007.
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60. Smith BK, Bleiweis MS, Zauhar J, Martin AD. (2010). "Inspiratory muscle training in a child with nemaline myopathy and organ transplantation." *Pediatr Crit Care Med* Mar;12(2):e94-8, 2011. Cited 7 times
61. Martin AD, Smith BK, Davenport P, Harman E, Gonzalez-Rothi RJ, Baz M, et al. Inspiratory muscle strength training improves weaning outcome in failure to wean patients: a randomized trial. *Critical Care.*;15(2):R84, 2011.
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63. Rose DK, Behrman AL, Nadeau SE, Martin AD, Schofield RS, Tilson JK, Cen SY, Lu X, Wu SS, Azen S, Duncan PW; LEAPS Investigative Team. Does exercise tolerance testing at 60 days poststroke predict rehabilitation performance? *Arch Phys Med Rehabil*. 2013 Jul;94(7):

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74. Martin AD, Smith B.K, Gabrielli, A. Mechanical ventilation, diaphragm weakness and weaning: A rehabilitation perspective. *Respir Physiol Neurobiol* 2013: 189(2): 377-383
75. Smith BK, Bleiweis MS, Neel CR, Martin AD. Inspiratory muscle strength training in infants with congenital heart disease and prolonged mechanical ventilation: a case report. *Phys Ther*. 2013;93(2):229-36. PubMed PMID: 22466028

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90. Smith BK, Carter N, Arteaga A, Dinh AC, Martin AD. Acute and six-month outcomes in recipients of lung transplant following lower extremity strength training. *Journal of Acute Care Physical Therapy*. Manuscript In Press. doi: 10.1097/JAT.0000000000000081

BOOK CHAPTERS

Fitness Instructor's Handbook, Chapter 12, Basic Electrocardiograms and Cardio-vascular Medications. Human Kinetics Press, Urbana, IL, 1986.
 Japanese edition, 1989.
 Second Edition 1991
 Third Edition 1997
 Fourth Edition 2003

INVITED LECTURES AND PRESENTATIONS

1. "Exercise Prescription for Cardiac Patients", American College of Sports Medicine Seminar on Exercise Leadership, July 1979, Knoxville, TN.
2. "Exercise Prescription for Cardiac Patients", American College of Sports Medicine Seminar on Exercise Leadership, July 1980, Knoxville, TN.
3. "Exercise in the Prevention of Osteoporosis", Symposium on Metabolic Bone Diseases, Sponsored by Saint Francis Hospital, September 1986 Wichita Kansas.
4. "Exercise Training and Children with Cystic Fibrosis" Clinical Update on Cystic Fibrosis, Sponsored by the department of Pediatric Pulmonary Medicine, January 1987, Gainesville, FL.
5. "Exercise Testing Pulmonary Patients" Update on Cardiopulmonary Rehabilitation, Sponsored by the Colleges of Medicine and Health and Human Performance, University of Florida, February 1987, Orlando FL.
6. "Exercise Training Pulmonary Patients" Update on Cardiopulmonary Rehabilitation, Sponsored by the Colleges of Medicine and Health and Human Performance, University of Florida, February 1988, Orlando FL.,
7. "Exercise and Bone Mineral Density" Florida Physical Therapy Association, March 1988, Tampa Florida,
8. "Exercise Prescription for Pulmonary Patients" Update on Cardiopulmonary Rehabilitation Symposium, Sponsored by the Colleges of Medicine and Health and Human Performance, University of Florida, February 1989, Orlando FL.

9. "Exercise Testing and Training Adult Pulmonary Patients", Florida Physical Therapy Association, March 1989, Miami, FL.
10. "Exercise Physiology and Cardiac Rehabilitation" presented at a refresher course for Physical Therapists. American Physical Therapy Association national meeting, June 1989, Nashville, TN.
11. "Exercise Prescription for Pulmonary Patients" Update on Cardiopulmonary Rehabilitation Symposium, Sponsored by the Colleges of Medicine and Health and Human Performance, University of Florida, February 1990, Orlando FL.
12. "Exercise Physiology and Cardiac Rehabilitation" presented at a refresher course for Physical Therapists. American Physical Therapy Association national meeting, June 1990, Anaheim, CA.
13. "Exercise Physiology and Cardiac Rehabilitation" presented at a refresher course for Physical Therapists. American Physical Therapy Association national meeting, June 1991, Boston MA
14. "Cardiovascular Response to Exercise and Cardiac Rehabilitation", Continuing Education Course for Physical Therapists, May 1993, Gainesville, FL.
15. "Exercise Physiology and Cardiac Rehabilitation" presented at a refresher course for Physical Therapists. American Physical Therapy Association national meeting, June 1993, Cincinnati, OH
16. "Cardiac Rehabilitation", Continuing Education Course for Physical Therapists, October 1993, St Petersburg, FL.
17. "Cardiovascular Response to Exercise and Cardiac Rehabilitation", Continuing Education Course for Physical Therapists, November 1993, Gainesville, FL.
18. "Cardiac Rehabilitation", Continuing Education Course for Physical Therapists, February 1994, St Petersburg, FL.
19. "Rehabilitation of Lung Transplant Patients", Southeastern Regional American College of Sports Medicine annual meeting, Destin, FL January 1998
20. "Dyspnea and Inspiratory Muscle Training", Cardiopulmonary Rehabilitation Status, March, 1998, Orlando, FL
21. "Rehabilitation of Lung Transplant Patients", Cardiopulmonary Rehabilitation Status, March, 1998, Orlando, FL
22. "Mechanisms of dyspnea in COPD patients", Cardiopulmonary Rehabilitation Status, February, 1999, Orlando, FL
23. "Rehabilitation of Lung Transplant Patients", Cardiopulmonary Rehabilitation Status, February, 1999, Orlando, FL
24. "Pre Surgery exercise training for Lung Transplant patients". American Association of Cardiovascular and Pulmonary Rehabilitation National meeting. September 1999. Phoenix AZ.
25. Ventilator weaning". Northern ALA District meeting. April 2000, Tallahassee, FL
26. "Rehabilitation of the Respiratory Muscles". Shands Hospital Rehabilitation Meeting, April 2001, Gainesville, FL
27. Respiratory muscle training and ventilator weaning. Respiratory Care Update. April 2001, Jacksonville, FL
28. Respiratory Muscle plasticity and ventilator dependence. APTA National meeting, June 2002, Cincinnati OH

29. Inspiratory Muscle training in difficult to wean patients. ATS International meeting, San Diego, CA, May 2006
30. Inspiratory Muscle Training in difficult to wean patients. Leuven University Hospital, Leuven, Belgium, September 2006.
31. Inspiratory Muscle rehabilitation in failure to wean patients. European Respiratory Society Annual Meeting, Stockholm, Sweden, October 2007.
32. Inspiratory muscle function in difficult to wean patients. Belgium Respiratory Society Annual Meeting, Brussels, Belgium, November 2007.
33. Strength training for ventilator dependent patients. Experimental Biology Annual meeting, New Orleans, LA, April 2009.
34. Pre transplant rehabilitation for lung transplant patients. Florida Respiratory Therapy Association, Miami, FL, May 2009.
35. Ventilator induced diaphragm dysfunction: a bench to bedside translational success story. Advances in Skeletal Muscle Biology in Health and Disease, Gainesville Florida, February 2012.
36. Inspiratory muscle strength training in the complex difficult wean patient. Rehabilitation of the complex ICU patient, Vienna, Austria, October 2013.
37. Physiological problem – respiratory muscle weakness. Combined sections meeting of the American Physical Therapy Association, Las Vegas, Nevada, 2014
38. Mechanical ventilation, diaphragm function and weaning from mechanical ventilation: interventions. International sarcopenia and aging meeting, Barcelona, Spain, March 2014.
39. Phrenic nerve stimulation in humans during surgery: mitochondrial respiration, oxidative stress & contractile performance. International Meeting of Physical Medicine and Rehabilitation in the Critically Ill Saturday, Denver Colorado, May, 2015
40. Exercise and diabetes control. Nutritional and health style management. Gainesville Florida, February 2015
41. Exercise-induced ventilator dysfunction and activity interventions. Myology Center, Gainesville, Florida, December, 2016
42. Exercise and management of type diabetes. Training to county extension agents, Gainesville, Florida, January, 2017

RESEARCH GRANTS RECEIVED AS PRINCIPAL INVESTIGATOR:

1. Division of Sponsored Research, U of Florida, 2/86 - 2/87 New faculty equipment award	\$7,100
2. Division of Sponsored Research, U of Florida, 6/86 - 6/87 New faculty equipment award	\$6,400
3. Slender You, Inc. 11/87 - 12/88 A comparison of passive exercise and aerobic conditioning on body composition	\$54,500
4. Division of Sponsored Research, U of Florida, 6/87-6/88 Opportunity Fund	\$2,600
5. Foundation for Physical Therapy Research, 3/88 - 3/90 Exercise training and bone mineral density in women	\$33,222
6. National Institutes of Health #AG07614, 6/88 - 12/89	\$68,989

Exercise training and bone density in post-menopausal women	
7. Division of Sponsored Research, U of Florida, 5/94 - 4/95 Equipment award	\$17,500
8. Florida Physical Therapy Association, 9/97-9/98 Effects of inspiratory muscle training on exercise tolerance in COPD patients	\$3,700
9. UF College of Health Professions 1/98-12/98 Opportunity Fund - Inspiratory muscle strength training in COPD patients	\$8,700
10. Florida Lung Association 7/98-6/00 Inspiratory muscle strength training in COPD patients	\$51,302
11. Brain and Spinal Cord injury Rehabilitation Trust Fund 7/00-6/02 Inspiratory muscle strength training in ventilator dependent patients with cervical spinal cord injury	\$39,700
12. National Institutes of Health, Respiratory Muscle training in Ventilator Dependent Patients, # RO1- 1R01HD042705 12/03-11/09 Respiratory Muscle Training in Ventilator Dependent Patients	\$1,211,748
13. Florida Department of Health 1/10 – 12/12, Inspiratory muscle strength training in ventilator dependent patients.	\$684,484
14. University of Texas (1/08 – 12/11) MV0 ₂ CORE LAB Cardiovascular Cell Therapy Researched Network – data coordinating center	\$35,688
15. Cytori Therapeutics, Inc. Core laboratory for VO ₂ max interpretation, ATHENA 1 Study 6/11-12/14	\$28,000
16. Biomarkers of diaphragmatic dysfunction in mechanically ventilated patients, Eli Lilly, Inc. 1/13- 6/14	\$150,000
17. Cytori Therapeutics, Inc. Core laboratory for VO ₂ max interpretation, ATHENA 2 Study 10/13-12/15	\$28,000
18. NIH RO1- AR072328 The effect of hemidiaphragm stimulation during surgery on gene expression and single fiber contractile properties in humans. 7/27/17 -6/30/21	\$1,652,592

RESEARCH GRANTS RECEIVED AS CO-INVESTIGATOR:

1. Effects of expiratory muscle training on exercise tolerance during Simulated saturation dive at 1,000 feet, C Sapienza, PI	\$103,852
2. Evaluation Of Novel Measures Of Antitussive Efficacy. D Bolser, PI US Navy, 7/99 - 6/00	\$51,123
3. Schering-Plough D Bolser PI1/04-12/04 Influence Of Codeine On Capsaicin-Induced Cough In The Human:	\$262,375
4. National Institutes of Health, 7/00 - 6/05 Respiratory sensation in normal and asthmatic children, P Davenport, PI	\$487,358
5. National Institutes of Health, 6/98 - 4/03 Dose response of exercise cardiac risk factors, M Perri, PI	\$2,200,000
6. National Institutes of Health, 6/03 - 5/07 Treatment of obesity in underserved rural settings (TOURS), M Perri, PI	\$2,754,000
7. State of Florida, James & Esther King Biomedical Research Program.	\$949,404

- P Davenport, PI. The role of nicotine in neural control of respiratory and cardiovascular system.
8. 5R01HL087800-04 (PI Perri) 6/08 – 5/13 RURAL LIFESTYLE INTERVENTION TREATMENT EFFECTIVENESS TRIAL (RURAL LITE) \$3,603,501
 9. UF CTSI Pilot Project C Leeuwenburgh (PI) 2/10- 12/12), THE Effect of hemidiaphragm stimulation during surgery on gene expression and single fiber contractile properties in humans \$27,531
 10. NIH/NHLBI PI: Byrne) 12/1/10 – /31/12 Phase I/II Trial of Diaphragm Delivery of Recombinant Adeno-Associated Virus Acid Alpha Glucosidase (rAAV1-CMV-GAA) Gene Vector in Patients with Pompe Disease. \$1,151,499
 11. NIH R18 #HL112720 Perri (PI) 6/13-5/18 Rural Lifestyle Eating and Activity Program (Rural LEAP) \$746,408
 12. Biomarin Pharmaceutical PRO-372 (PI: Smith, Barbara) 07/21/2015– 7/20/2018 Dynamic respiratory muscle function in late-onset Pompe Disease \$58,785
 13. The Craig Nelson Foundation 337972 (PI: Fox, Fox) 9/30/2015– 9/30/2017 Intramuscular pacing to enhance voluntary diaphragm function. \$78,895
 14. NIH R21HD090752-0 Smith (PI) 9/16 – 8/18 DIAPHRAGM PACING AND REHABILITATION IN POMPE DISEASE NHLBI-GTRP \$250,000

PEER REVIEWED ABSTRACTS:

1. Martin D. Predicting Per Cent Functional Capacity From Per Cent Maximal Heart Rate in Cardiac Patients. *Physical Therapy* 66:777, 1986.
2. Martin D and ET Howley: Breathing Patterns During Maximal Exercise in Healthy Subjects and Chronic Airflow Obstruction Patients. *Med Sci Sports and Exercise*, 18:s70, 1986.
3. Martin D, M Notelovitz and C Fields. Maximal Oxygen Uptake, Body Weight and Bone Mineral Density in Post Menopausal Women. *Med Sci Sports and Exercise*, 19:s13, 1987.
4. Martin D, M Notelovitz, J O'Kroy and C Fields. Predicting maximal oxygen uptake from treadmill testing in postmenopausal women. *Physical Therapy* 68:850, 1988.
5. Martin D and J E Acker Jr. Predicting Aerobic Capacity During the Modified Naughton Treadmill Protocol in Patients with Coronary Artery Disease. *Physical Therapy* 68:850, 1988.
6. O'Kroy J and Daniel Martin: Effects of Acute Hypoxia and Hyperoxia on VO₂max of Trained and Untrained Subjects. *Med Sci Sports and Exercise*, 21:s21, 1989.
7. Martin D. Effects on Breathing a Normoxic Helium Mixture on Maximal Oxygen Uptake of Healthy Subjects. *Med Sci Sports and Exercise*, 21:S21, 1989.
8. Norvell N , D Martin and A Solomon: Psychological and physiological effects of aerobic and passive exercise programs. *Society of Behavioral Medicine*, 1989.
9. Limacher M, Y Brinson, N Norvell, D Martin and C Conti: Housestaff practice of preventive cardiology: Who's not doing what. *Journal of the American College of Cardiology*. Vol 13:#2, 37A, 1989.
10. Martin D. Breathing a Hel-Ox mixture fails to Increase VO₂max in Cystic Fibrosis Patients. *Med Sci Sports and Exercise*, 22:s43, 1990.

11. Martin D, S Powers, M Cicale, N Collop, D Huang and D Criswell. Validity of Pulse Oximetry During Exercise in Elite Endurance Athletes. *Med Sci Sports and Exerc.*, 23:S97, 1991.
12. Powers S, J Lawler, D Criswell, F Lieu and D Martin. Aging and endurance training-induced alterations in oxidative and antioxidant enzymes in respiratory muscle. *Med Sci Sports and Exercise*, 23:s97, 1991.
13. Hammeren J, S Powers, J Lawler, D Criswell, D Martin, D Lowenthal and M Pollock. Effects of training on oxidative and antioxidant enzymes in skeletal muscle in young and aging rats. *Med Sci Sports and Exercise*, 23:s148, 1991.
14. Lawler J, J Hammeren, S Powers, D Martin; Oxygen costs of treadmill running in senescent and young adult female Fischer-344 rats. *Med Sci Sports Exercise* 23:S99, 1991.
15. D Martin, M Cicale, D Huang, S Powers, L Mengelkoch and D Criswell. Incidence of Exercise-Induced Hypoxemia. *Med Sci Sports and Exercise* 23:S69, 1992.
16. Mengelkoch L, D Martin, M Cicale, D Huang. Validity of pulse oximetry during maximal exercise treadmill exercise. *Med Sci Sports and Exercise* 23:S159, 1992.
17. Lieu, F., S. Powers, D. Criswell, W. Stainsby, D. Martin, and D. Chen. Glucocorticoid-induced alterations in diaphragmatic proteins and mitochondrial function. *American Review of Respiratory Disease*. 145: A669, 1992.
18. Perri M, Martin D, Sears S, Leermakers E, Notelovitz M. Effects of supervised versus at home exercise in the treatment of obesity. *Society for Behavioral Medicine* 1993.
19. Martin, D and M. Notelovitz. Effects of Aerobic Training on Bone Mineral Density of Naturally Postmenopausal Women. *Med Sci Sports and Exercise* 25:S199, 1993.
20. Power SK, Wade M, Criswell D, R Herb, Martin D and R Hussein. Role of Beta Receptors in Mediating Exercise Training Induced Metabolic Changes in Respiratory and Locomotor Muscles. *Med Sci Sports and Exercise* 25:S32, 1993.
21. Gilliam J, D Martin C Hohrzon and M Trimble. Effect of creatine supplementation isokinetic force production. *Med Sci Spts Exerc*. Vol 30 #5 Supplement, 26: S140, 1998.
22. Kellerman, B, D Martin & P Davenport. Effect of Inspiratory muscle strength training on magnitude estimation. *FASEB Proceedings*, 1998
23. Kellerman, B, D Martin. Relationship between respiratory muscle strength, pulmonary function test and exercise performance in COPD. *Physical Therapy*, 1998.
24. Duncan, G.E., S.J. Sydeman, M.G. Perri, M. Ernst, M.C. Limacher, and A. D.Martin. The seven-day physical activity recall overestimates exercise intensity and energy expenditure. *Circulation*. 100 (Supplement 1): I-823,1999.
25. Martin D, A C. Franceschi, S S. Sprauge, P D. Davenport, and E Harman. Use of Inspiratory Muscle Strength Training to Facilitate Ventilator Weaning. *Chest* 116: S355-356, 1999.
26. Sapienza, C.M., Martin, D., & Davenport, P. Pressure threshold training in dysphonic and ventilator-dependent patients. *Pacific Voice Conference*, Nov. 2000. San Francisco, CA.
27. Martin AD, Perri M, Limacher ML, Duncan G, Ketterson S, Syderman, S, Anton S, Yang M. Dose response of exercise intensity and frequency on fitness and CAD risk factors. *Med Sci Sports and Exercise* 34: S69, 2002.

28. Effect of inspiratory muscle training in ventilator dependent cervical spinal cord injured subjects. Martin AD, Davenport PD, Sapienza C, Gonzalez-Rothi R, Levy C, Hoffman N. *Am Rev Resp Crit Care Med.* 165; #8, A737, 2002.
29. Effect of IMST on the detection of resistive and pressure threshold loads. Huang C, AD Martin and PD Davenport. *Am Rev Resp Crit Care Med.* 165; #8, A352, 2002
30. Baker, S., Sapienza, C., Davenport, P., & Martin, D. Respiratory Muscle Training: Research Findings and Clinical Applications. The American Speech-Language-Hearing Association Convention. Chicago, IL, November 2003.
31. Martin, A.D., Davenport, P. Inspiratory Muscle training in a partial spinal cord injured individual. *European Respiratory Journal* 24: 48S, 521S, 2004.
32. A.D. Martin, Ph D, PT, P. Davenport, Ph D, L.J. Caruso, MD, R. Gonzalez-Rothi, MD, E. Harman, MD, M. Banner, Ph D, A.J. Layon, MD and A. Gabrielli, MD. Inspiratory Muscle Rehabilitation in Long-term Failure to Wean patients. *Am Rev Resp Crit Care Med.* Vol #2, pg A160, 2005.
33. D. Martin, P. Davenport, R. Gonzalez-Rothi, E. Harman, M. Banner, L. Caruso, A. Layon, A. Gabrielli: Inspiratory muscle strength training improves the ability to perform imposed work of breathing in failure to wean patients. *Eur Resp J.* Vol 26:S49, pg 86s, 2005.
34. D. Martin, P. Davenport, R. Gonzalez-Rothi, E. Harman, M. Banner, L. Caruso, A. Layon, A. Gabrielli . Inspiratory Muscle Strength Training in Failure to Wean Patients: Interim Analysis of a Controlled Trial. *Am Rev Resp Crit Care Med.* Vol #3, pg A41, 2006.
35. A D Martin, Ph D, PT, P W Davenport, Ph D, R J Gonzalez-Rothi, MD, M Baz, MD, M D Banner, Ph D, L Caruso, MD, A J Layon, MD and A Gabrielli, MD. Inspiratory muscle strength training improves outcome in failure to wean patients. *European Respiratory Journal* vol28, #50 page 369s, 2006.
36. D. Martin, P. Davenport, R. Gonzalez-Rothi, E. Harman, M. Banner, L. Caruso, A. Layon, A. Gabrielli. Inspiratory muscle strength training improves maximal inspiratory pressure in difficult to wean patients. *Am Rev Resp Crit Care Med.* Vol #3, pg A964, 2007.
37. H Deoghare, D Martin. Sample Entropy: Novel Method Of Breathing Pattern Analysis For Ventilator Dependent Patients *Am Rev Resp Crit Care Med.* Vol #3, pg A964, 2007.
38. T. Huang , P.W. Davenport, A.J. Gabrielli, D.V. Harshavardhan, and A.D. Martin Respiratory Pattern Variability During Weaning Trials in Prolonged Mechanical Ventilation. Patients. *Am Rev Resp Crit Care Med.* Vol #3, pg A960, 2007.
39. B Smith and D Martin. Widespread presence of ICU-acquired weakness in patients who require prolonged MV. *Am Rev Resp Crit Care Med* electronic publication, presented at ATS annual meeting, San Diego, CA, May 2009
40. B.K. Smith, PT, MHS, T. Huang, PT, MS, H. Deoghare, PT, A.D. Martin. Rate of Inspiratory Pressure Development and Maximal Inspiratory Pressure in Ventilated and Healthy Adults. *Am J Respir Crit Care Med* 179;2009:A3102
41. H.V. Deoghare, T. Huang, B.K. Smith, P.W. Davenport, A. Gabrielli, M.J. Banner, L. Caruso, A.J. Layon and A.D. Martin. Catecholamine and Heart Rate Variability Changes During Failed Spontaneous Breathing Trials in Difficult To Wean Patients. *Am J Respir Crit Care Med* 179;2009:A3819.

42. A.D. Martin, PhD, PT, B.K. Smith, MS, PT, P.W. Davenport, PhD, M.J. Banner, PhD, A. Gabrielli, MD. Effects of Inspiratory Muscle Strength Training on Loaded Breathing in Difficult to Wean Patients. *Am J Respir Crit Care Med* 179;2009:A3101.
43. T. Huang, MS, PT, H.V. Deoghare, PT, T. Beaver, MD, H.V. Baker, PhD, A.D. Martin,. Gene Expression Changes in the Human Diaphragm Following Cardiothoracic Surgery. *Am J Respir Crit Care Med* 179;2009:A4518.
44. B.K. Smith, , S. Mathur, , M. Hotchkiss, F. Ye, A.D. Martin, , K. Vandeborne, P.W. Davenport. Diaphragm Remodeling Following Repeated Bouts of Acute Tracheal Occlusion. *Am J Respir Crit Care Med* 179;2009:A4207.
45. Martin, D., L. Caruso, et al. (2009). "Inspiratory muscle strength training improves weaning outcome in failure to wean patients." *Critical Care Medicine* **37**(12): A34.
46. H. Deoghare, A.-M. Joseph, B. Smith, C. Leeuwenburgh, T. Beaver, T. Martin, D. Martin. Effect Of Intermittent Phrenic Nerve Stimulation During Cardiothoracic Surgery On Human Diaphragm Mitochondrial Respiration. *Am J Respir Crit Care Med* 183;2011:A2166.
47. B. K. Smith, M. S. Bleiweis, H. Deoghare, C. Neel, J. Zauhar, D. Martin. Inspiratory Muscle Strength Training In An Infant With Congenital Heart Disease And Prolonged Mechanical Ventilation. *Am J Respir Crit Care Med* 183;2011:A1865.
48. N. Al-Rawas, M. J. Banner, D. Martin, M. Stahl, A. Gabrielli. Real Time Calculation Of Respiratory System Compliance (crs) And Plateau Pressure (ppt) During Pressure Support Ventilation (psv). *Am J Respir Crit Care Med* 183;2011:A1693

Grant review Activities

1. NIH Special Emphasis Study Section for Training grants in Rehabilitation Science 2006, 2007.
2. Nielsen Foundation 2009
3. NIH Challenge Grants, May 2009.
4. Research Foundation Flanders, Belgium 2011-2017

Ad hoc manuscript reviewer

1. American Journal of Physical Medicine & Rehabilitation
2. Biological Research for Nursing
3. Critical Care Medicine
4. International Journal of Sports Medicine
5. Pediatrics
6. Respiratory Physiology & Neurobiology
7. American Journal of Transplantation
8. Canadian Journal of Applied Physiology
9. Chest
10. Clinical Cardiology
11. Experimental Gerontology
12. Intensive Care Medicine
13. Journal of Applied Physiology
14. Journal of Cardiopulmonary Rehabilitation

15. Medicine and Science in Sports and Exercise
16. Physical Therapy
17. Respiratory Care
18. The Lancet Respiratory Medicine

CONSULTATIONS:

1. Martin Marietta Corporation. Consultation to implement a Department of Energy mandated fitness program for security personnel at Oak Ridge National Laboratory and Y-12 Uranium Processing facility, Oak Ridge, TN, June 1984 - August 1985
2. Lykes Memorial Hospital, Brooksville, FL, Consultation to help establish a cardiac & pulmonary rehabilitation program. June 1989.
3. University Community Hospital, Tampa FL. Consultation to help establish a cardiac rehabilitation program. July 1990.
4. Shands Hospital, CICU, long term ventilator weaning team. 1/03 – 1/10
5. Lungpacer, Inc, 2016

AWARDS AND HONORS:

1. University of Florida 2016 University Term Professor
2. Outstanding Oral Presentation, Cardiopulmonary Section, APTA Combined Sections, Nashville, Tn February 2008.
3. University of Florida Research Foundation Professor 2005
4. Teacher of the Year 1995-1996 School Year, Department of Physical Therapy
5. Outstanding Oral Presentation, Cardiopulmonary Section, APTA Combined Sections, New Orleans, LA, February 1994
6. NCAA Division I - Track and Field "All American" in the javelin throw, University of Tennessee, 1975
7. Scholastic Magazine, All American in the javelin throw, Terrebonne High School, Houma LA, 1971

TEACHING EXPERIENCE:

1. Advanced Exercise Physiology
2. Cardiopulmonary Rehabilitation
3. Research Methods
4. Research Instrumentation

CLINICAL EXPERIENCE:

1. Cardiac Rehabilitation, Fort Sanders Hospital, Knoxville, TN January 1979- July 1985
2. Lung transplant, pre-surgical exercise evaluation and outpatient post-surgical rehabilitation, Shands Hospital at the University of Florida, January 1996- present
3. Cardiac Surgery Intensive Care Unit long-term ventilation weaning program, April 2003-present, Shands Hospital at the University of Florida

DEPARTMENTAL, UNIVERSITY AND PROFESSIONAL SERVICE:

1. Steering Committee for Doctoral program in College of Health and Human Performance 1986-1987.
2. Graduation Marshall 1987-1989.
3. Faculty Search Committee, Department of Physical Therapy 1986 - 1989.
4. Faculty Senate Representative, College of Health Related Professions 1987-1989.
5. Steering Committee for Cardiopulmonary Rehabilitation Status Meeting 1987 - 1991.
6. Steering Committee for Preventive Cardiology Clinic, 1987 - 1992.
7. Admissions Committee, Department of Physical Therapy, 1986- 1991, 2016 -present.
8. Member of Preventive Cardiology Clinic, Shands Hospital, 1987- 1992.
9. University Administrative Appeals Authority 1992-1996.
10. Interdisciplinary family health education program, 2013 – 2014
11. Department of Physical Therapy
 - Admissions Committee 1988 -1991
 - Faculty Development Committee 1990-1993
 - Continuing Education Committee 1990- 1997
 - Departmental seminar series selection committee, 2005 – 2012
 - Neuromuscular plasticity steering committee, 2008 – 2014
 - Ad Hoc faculty productivity committee 2002- 2007
 - Various Department of Physical Therapy faculty search committees, 2008 – 2014
 - Admissions committee 2015 – present
11. College of Public Health and Health Professions
 - Ad Hoc Advisory Committee to the Dean of the College of Health Professions 2001-2003
 - Tenure and promotions Committee 2004- 2007, Chair 2005-2006, 2015-2018
 - Department of Occupational Therapy search committee, 2013 – 2016

MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS:

American Physical Therapy Association, 1983 – 2001
 American Thoracic Society 2004- present
 Florida Physical Therapy Association, 1985 - 2001
 American College of Sports Medicine, 1982 - present- Fellow Status, 1994
 American Association of Cardiovascular & Pulmonary Rehabilitation,
 1986 -1990 Board of Directors 1987-1989

PATENTS:**United States Patent # 8464713 B2, issued June 18, 2013**

Title: Automated inspiratory muscle training patients receiving mechanical ventilation
Inventors: Anatole D. Martin, Michael J. Banner, Andrea Gabrielli, Neil Russell Euliano

United States Patent # 6,568,387, issued May 27, 2003

Title: Method for treating chronic obstructive pulmonary disorder

Inventors: Daniel Martin and Paul Davenport