

CURRICULUM VITAE

Thomas P. Mayhew, Ph.D., P.T.

April 18, 2017

1. PERSONAL INFORMATION

- 1.1. Name: Thomas Philip Mayhew II
- 1.2. Citizenship: US
- 1.3. Home Address: 17071 Dunns Chapel Road
Montpelier, VA 23192
(804) 883-6707
- 1.4. Work Address: Department of Physical Therapy
Box 980224, West Hospital Basement
Virginia Commonwealth University
Richmond, VA 23298-0224
(804) 828-0234
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2. LICENSURE

- 2.1. Physical Therapist Virginia State Board of Physical Therapy
Commonwealth of Virginia
#0105002672, current.

3. EDUCATION

- 1991 Ph.D. in Anatomy (Anatomy/Physical Therapy), Virginia Commonwealth University, Medical College of Virginia Campus, Richmond, VA
- 1984 M.H.S., Masters in Health Science, Washington University, St. Louis, MO
- 1983 B.S. in Physical Therapy, Washington University, St. Louis, MO
- 1979 B.S. in Occupational Therapy, State University of New York at Buffalo, Buffalo, NY

4. CLINICAL APPOINTMENTS, CONSULTANCIES, AND RELATED ACTIVITIES

State Council of Higher Education in Virginia
Review team for site visit to Radford University for new Physical Therapy Program,
2008

Virginia Department of Education, Technical Panel Committee for Health and Medical Sciences Education: Curriculum development Physical Therapy/Occupational Therapy, 2008

Consultant Physical Therapist, Hiram W. Davis Medical Center, Petersburg, VA; December, 1986 to 2002

Physical Therapist, Professional Physical Therapy, Inc., St. Louis, MO; October, 1983 to June, 1985

Consultant Occupational Therapist, Professional Physical Therapy, Inc., St. Louis, MO; January, 1982 to June, 1985

Research Associate in Applied Kinesiology Laboratory, Washington University School of Medicine, Program in Physical Therapy, St. Louis, MO; May, 1980 to October, 1983

Occupational Therapy Consultant, City Hospital of St. Louis, MO; May, 1980 to January, 1981

Staff Occupational Therapist, University of Virginia Hospitals, Spinal Cord Unit, Charlottesville, VA; June, 1979 to May, 1980

5. ACADEMIC APPOINTMENTS AND PROFESSIONAL WORK EXPERIENCE

Associate Professor and DPT Program Director, Department of Physical Therapy, Virginia Commonwealth University, Medical College of Virginia Campus, Richmond, VA; July 1, 2014 to Present

Associate Professor and Chair, Department of Physical Therapy, Virginia Commonwealth University, Medical College of Virginia Campus, Richmond, VA; January 1, 2002 to June 30, 2012

Associate Professor, Department of Physical Therapy, Virginia Commonwealth University, Medical College of Virginia Campus, Richmond, VA; July 1, 1995 to Present

Associate Professor of Anatomy and Neurobiology, School of Medicine, Virginia Commonwealth University, Medical College of Virginia Campus, Richmond, VA; July 1, 1999 to Present

Assistant Professor, Department of Physical Therapy, Virginia Commonwealth University, Medical College of Virginia Campus, Richmond, VA; July, 1989 to June 1995

Lecturer in Gross Anatomy, Neuroanatomy, and Prosthetics and Orthotics, Washington University School of Medicine, Program in Physical Therapy, St. Louis, MO; May, 1980 to October, 1983

Major Teaching Responsibilities at VCU

PHTY 506: Functional Neuroanatomy – Co-instructor
2012 – present
1989 – 1991

PHTY 501: Gross Anatomy
1991 – present

PHTY 615: Pharmacology – Course Coordinator
2009 – present

PHTY 676: Comprehensive Study of PT Practice
2013 – present

PHTY 624: Clinical Problem Solving I – Course Coordinator
2012 – 2014

PHTY 654: Clinical Problem Solving II – Course Coordinator
2012 – 2014

PHTY 674: Clinical Problem Solving III – Course Coordinator
2012 – 2014

PHTY 651: Professional Issues
2012 – 2013

PHTY 646: Clinical Medicine
2002 – 2006

PHTY 674: Physical Therapy Seminar III - coordinator
2002 – 2012

PHTY 544: Orthotics and Prosthetics
1989 – 1991

PHTY 690, 691, 692 Physical Therapy Seminar series
1989 – 2012

6. MEMBERSHIP IN SCIENTIFIC, PROFESSIONAL AND HONORARY SOCIETIES

American Physical Therapy Association; 1981-present
Virginia Physical Therapy Association
Research Section, American Physical Therapy Association; 1983-2005
Education Section, American Physical Therapy Association; 1998-present
Health Policy and Administration Section, American Physical Therapy Association;
2010-13

7. SPECIAL AWARDS, FELLOWSHIPS AND OTHER HONORS

7.1. Awards

Catherine Worthingham Fellow of the American Physical Therapy Association
2017

Lucy Blair Service Award, American Physical Therapy Association
2014

Dean's Medal, School of Allied Health Professions
Distinguished service to the School, 2012

Grace E. Harris Leadership Institute, Fellow, 2002

Recipient of Faculty Mentor Award for 1998-1999 from Virginia Commonwealth
University Instructional Development Center's Faculty Mentor Program

Nominee of the School of Basic Health Sciences and the School of Allied Health
Professions for Phi Kappa Phi Scholarship Award for demonstrated academic
excellence, Virginia Commonwealth University: Academic years: 1987-1988, 1988-
1989, and 1989-1990

Electromed Scholarship for academic achievement, Washington University, 1982

Laura C. Stonegrabber Award for academic achievement - State University of
New York at Buffalo, December, 1978

7.2 Grants

An open-label pilot study of Coenzyme Q10 in non-ambulant Duchenne Muscular
Dystrophy. Thomas P. Mayhew, PhD, Robert Leshner, MD, Diana Escolar, MD.
Submitted to Muscular Dystrophy Association, Application for Neuromuscular
Disease research grant, \$157,094, 2001; Principal Investigator; not funded

M. Scott Sullivan, M.S., P.T., Janet Kues, M.S., P.T., Thomas P. Mayhew, Ph.D.: The
assessment of outcomes of Physical Therapy treatment of patients with low back
pain in the State of Virginia; submitted to the Foundation for Physical Therapy in
January, 1994 - not funded

Grant from Virginia Commonwealth University to establish a Student Computer
Learning Resource Center in the Department of Physical Therapy; August 1993;
funded in the amount of \$43,300; Project Director

Prediction of muscle fiber characteristics using clinical methods of muscle testing;
A.D. Williams Advisory Committee; March 1990 to March 1991; funded in the
amount of \$7,347; Principal Investigator

7.3 Invited Lectures and Presentations

Panel member, K12 Career Development Program presentation, American Physical Therapy Combined Sections Meeting, San Diego, CA, 2009

"An open-label pilot study of Coenzyme Q10 in non-ambulant Duchenne Muscular Dystrophy." Cooperative International Neuromuscular Research Group (CINRG), Washington, DC, November 2001

"Outcome Measures for Clinical Trials: A discussion about current and future trials." American Academy of Neurology Conference, CINRG Section, May 2001

"Issues related to testing force production in very weak children." Neurology Grand Rounds, MCV, Richmond, May 2000

"The use of a newly developed quantitative muscle testing system to assess the force capability of boys with Duchenne Muscular Dystrophy." Cooperative International Neuromuscular Research Group (CINRG), Washington, DC, January 2000

"Quantitative Muscle Testing in Children." American Association of Electrodiagnostic Medicine conference, Vancouver, Canada 1999

"Development and use of paperless data collection methods in Spinal muscular atrophy clinical trials." American Academy of Neurology Conference, Toronto, 1998

"Cervical Spine and Whiplash: Important Issues for the Clinician." Department of Physical Therapy sponsored course at VCU. November 1996

"Anatomy of the Leg & Foot," Founder's Day Lecture, Virginia Commonwealth University, November, 1995

"The effect of lumbar support belts on isometric force production during a simulated lift." Platform Presentation, Thomas P. Mayhew, M. Scott Sullivan. VPTA conference in Roanoke, VA, April 1995.

"The effect of concentric and eccentric contraction performed at equal power levels on muscle hypertrophy and isometric torque production." Platform presentation, VPTA conference in Williamsburg, VA, April 1993

"The effect of concentric and eccentric contraction performed at equal power levels on muscle hypertrophy." Poster presentation, APTA conference in Denver, CO, June 1992

"The effect of concentric and eccentric exercise on isometric torque production." Platform presentation, APTA conference in Boston, MA, June 1991

"Reliability and accuracy of an isokinetic dynamometer." Presented at annual meeting of International Society of Electrophysiological Kinesiology, Baltimore, MD, August 1990

"Functional anatomy of the shoulder and upper extremity." Teaching service in the Health Careers Opportunity Program, Virginia Commonwealth University. 1992 – 1997

Teaching in Knights of Columbus program for Allied Health Students in Virginia State system. Orienting students to role of physical therapists in Health Care System, June, 1994

Invited Speaker at APTA conference in Nashville, TN; "Concentric and Eccentric Muscle Contractions: Clinical and Biological Perspectives," June, 1989

Invited Speaker to Program in Physical Therapy, Old Dominion University, Norfolk, VA; "Muscle Biology." January 1989

Invited Speaker at 3rd Annual Symposium for Physical Therapy Educators, Section on Clinical Electrophysiology, Atlanta, GA; "Measurement of Muscle Performance," July 1988

Invited Seminar to Medical Technology faculty and students in Medical Technology Department Seminar Series, Medical College of Virginia, Virginia Commonwealth University; "Histochemical techniques used in muscle biology research." 1991

Invited Speaker at APTA conference in Nashville, TN; "Concentric and Eccentric Muscle Contractions: Clinical and Biological Perspectives," June, 1989

8. MAJOR COMMITTEES

8.1. Department

Promotion Committee – P. Pidcoe
2016

Search Committee – Assistant Director of Clinical Education
Chair: 2013

Professional Program Curriculum Committee
2012 – present
Chair: 1991 – 2002

Admissions Committee
2012 – present
1990 – 1996

Resource Development and Service Committee
2014 – present

Promotion and Tenure Committee – Stacey Dusing
2012-13

Chair, Promotion and Tenure Committee for Dan Riddle, PhD, PT
- Promotion to Full Professor
School of Allied Health Professions
Virginia Commonwealth University
2001

Promotion Policy Task Force
Department of Physical Therapy
Virginia Commonwealth University
2000 – 2002

Task Force for Development of Doctor of Physical Therapy (DPT) degree
School of Allied Health Professions
Virginia Commonwealth University
March, 2000 – 2002

Chair, Promotion and Tenure Committee for Reed Humphrey, PhD, PT
School of Allied Health Professions
Virginia Commonwealth University
1999

8.2. **School:**

School of Allied Health Professions Research Committee
2012 – 2015

Chair, Search Committee for Department of Occupational Therapy Chair
2009

Chair, Search Committee for Department of Radiation Sciences Chair
2006

School of Allied Health Professions Search committee for Associate Dean
2005

School of Allied Health Professions Executive Committee, VCU Medical Center
2002 – 2012

School of Allied Health Professions Promotion and Tenure Committee
Departmental representative
Virginia Commonwealth University
2012 – 2016
1998 – 2001
May, 2001 – December, 2001 Chair

Department Representative
Search Committee for Physical Therapy Chair

Virginia Commonwealth University
April 2000 – October 2000

Department Representative
Search committee for Dean of School of Allied Health Professions
Virginia Commonwealth University
1996-1997

Chair, Technology Committee
School of Allied Health Professions
Virginia Commonwealth University
1995

Department Representative
Task Force for School of Allied Health Professions Mission Statement
School of Allied Health Professions
Virginia Commonwealth University
1994

Departmental Representative
Student Grievance Committee
School of Allied Health Professions
Virginia Commonwealth University
1990 – 1992

Task Force Committee (Data Analysis - University Mission)
School of Allied Health Professions Committee
Virginia Commonwealth University
1991 – 1992

8.3. University

VCU Medical Center Committee on Industry Relations
2009 – present

Member, Virginia Commonwealth University Strategic Planning 2020; Strategic
Direction Committee: Leveraging Our Strengths and Building Bridges through
Interdisciplinary Activities; Subcommittee: Enhance Interdisciplinary Research and
Graduate Programs
2004-05

Member, Faculty Advisory Council for University Computing and Communications
Services
Virginia Commonwealth University
1996

Faculty Senate Representative for School of Allied Health Professions, 1993-1996
Chair, Academic Support Services Committee, 1994-1995

Offices Held: Secretary, 1995-1996 academic year

8.4. State

Delegate, Virginia Physical Therapy Association
APTA House of Delegates
2007, 2008, 2009, 2012, 2013, 2014, 2015, 2016, 2017

Treasurer, Virginia Physical Therapy Association
Chair of Finance Committee
2004-2006, 2012-2014, 2014-2016

Virginia Department of Education, Technical Panel Committee for Health and
Medical Sciences Education: Curriculum development Physical
Therapy/Occupational Therapy, 2008

State Council of Higher Education in Virginia
Review team for site visit to Radford University for new Physical Therapy Program,
2008

Virginia Physical Therapy Association
Finance Committee
2002 - present

Virginia Physical Therapy Association
Technology Committee
1995 – 1997

8.5. National

Educational Leadership Institute (ELI)
Mentor
American Physical Therapy Association
2013-2014, 2014-2015, 2015-2016, 2016-2017

APTA Awards Committee - Educational Awards Subcommittee
American Physical Therapy Association
2011 – 2012

Director, Board of Directors
Academic Council
American Physical Therapy Association
2011-2013

American Council of Academic Physical Therapy
Governing Board
American Physical Therapy Association
2009-2010

Advisory Panel on Education
American Physical Therapy Association
2009-2012

American Council of Academic Physical Therapy
Organizing and Development Committee
Academic Administrators Special Interest Group
Education Section
American Physical Therapy Association
2008-2009

Nominating Committee
Academic Administrators Special Interest Group
Education Section
American Physical Therapy Association
2007 – 2009

Physical Therapy Admissions Requirements Task Force
Education Section
American Physical Therapy Association
2003 – 2004

Chair, Publications Committee
Section on Research
American Physical Therapy Association
1988 – 1999

Editor, Section on Research Newsletter
Section on Research
American Physical Therapy Association
1988 – 1999

Member, Program Planning Committee for Retreat on Muscle Biology
Section on Research
American Physical Therapy Association
1989 – 1991

9. OTHER SIGNIFICANT SCHOLARLY, RESEARCH, OR ADMINISTRATIVE EXPERIENCE

9.1. Professional Editorial Activities

Manuscript Peer Review Panel for Archives of Physical Medicine and Rehabilitation
2005 – present

Newsletter Editor for the Section on Research, American Physical Therapy Association, 1988 – 1999

Co-Editor of *Physical Therapy* Special Issue: Hand Management in Physical Therapy. *Phys. Ther.*, 69:1005-1146, 1989

Manuscript Reviewer for *Physical Therapy Journal* in areas of anatomy and muscle performance, 1988 to Present

Manuscript Reviewer for the *Journal of Orthopaedic and Sports Physical Therapy* in content areas of anatomy, muscle biology, and kinesiology; 1990 to Present

Manuscript Reviewer for *International Journal of Physical Therapy*; 1991 to Present

Editorial expert in Anatomical sciences for *The Rehabilitation Specialist's Handbook*. Rothstein, J.R., Roy, S.H. and Wolf, S.L. (eds.); 1st and 2nd editions; 1991, 1998

9.2. Graduate Student Committees

Sadashiv Aggarwal – Ph.D.; Rehabilitation and Movement Science Program, Department of Physical Therapy, School of Allied Health Professions, VCU; currnet.

Ralph Utzmann – Ph.D.; Doctoral program in Health Related Science, School of Allied Health Profession, VCU, 2006

Ross Arena – Ph.D., Combined program with Physiology, committee member

Tourage Rafeei - Ph.D., Combined program with Anatomy, graduated 1998

Deloris Nice - Advanced Master of Science Degree, graduated August 1991
G. Kelly Fitzgerald - Advanced Master of Science Degree, graduated August 1990

Archana Deo - Advanced Master of Science Degree, graduated December 1989

10. BIBLIOGRAPHY

11. Published Peer Reviewed Papers:

Wheeler, E., Finucane, S.D., Soper, S., Gu, Z., Mayhew, T.P. Perceived Value of Preadmission Physical Therapy Observation Hours and their Ability to Predict Academic Performance. Journal of Physical Therapy Education; in Press 2017.

Mayhew, J.E., Florence, J.M., Mayhew, T.P., Henricson, E., Leshner, R.T., McCarter, R.J., Escolar, D.M. Reliable surrogate outcome measures in CINRG multi-center clinical trials of DMD. Muscle and Nerve, 35(1):36-42, 2007.

Escolar, D.M., Buyse, G., Henricson, E., Leshner, R., Florence, J., Mayhew, J., Tesi-Rocha, C., Gorni, K., Pasquali, L., Kanti, P., McCarter, R., Huang, J., Mayhew, T.P., et. al. Randomized controlled trial of creatine and glutamine in Duchenne muscular dystrophy by the Cooperative International Neuromuscular Research Group. Annals of Neurology, 58(1):151-5, 2005.

Finucane SDG, Rafeei T, Kues J, Lamb RL, Mayhew TP: Reproducibility of electromyographic recordings of submaximal concentric and eccentric muscle contractions. Electroenceph. Clin. Neurophysiol. 109(4):290-296, 1998.

Sullivan, M.S., Kues, J.M., Mayhew, T.P.: Treatment categories for low back pain: a methodological approach. J Orthop. Sports Phys. Ther. 24(6):359-364, 1996.

Kues, J.M., Mayhew, T.P.: A study of the force velocity relationship during electrically induced muscle contractions. Physiotherapy Research International, 1(3):195-204, 1996

Sullivan, M.S., Mayhew, T.P.: The effect of lumbar support belts on isometric force production during a simulated Lift. Journal of Occupational Rehabilitation, 5:131-143, 1995.

Mayhew, T.P., Rothstein, J.M., Finucane, S.D., Lamb, R.L.: Muscular adaptation to concentric and eccentric exercise at equal power levels. Med. Sci. in Sports and Exerc. 27:868-873, 1995.

Mayhew, T.P., Rothstein, J.M., Finucane, S.D., Lamb, R.L.: Performance characteristics of the Kin-Com dynamometer: A technical report. Phys. Ther., 74:1047-1054, 1994.

Finucane, S.D., Mayhew, T.P., Rothstein, J.M.: Evaluation of the gravity correction procedure of the Kin-Com Dynamometer: A technical report. Phys. Ther., 74:1125-1133, 1994.

Mayhew, T.P.: Invited Commentary on: A new method for the determination of the characteristic shape of an isokinetic quadriceps femoris muscle torque curve. Phys. Ther., 72:593-594, 1992.

Nice, D.A., Riddle, D.L., Lamb, R.L., Mayhew, T.P., Rucker, K.: Intertester reliability

of judgments of the presence of trigger points in patients with low back pain. Arch. Phys. Med. Rehabil., 73:893-898, 1992.

Fitzgerald, G.K., Rothstein, J.M., Mayhew, T.P., Lamb, R.L.: Exercise-induced muscle soreness after concentric and eccentric isokinetic contractions. Phys. Ther., 71:505-513, 1991.

Rothstein, J.M., Lamb, R.L., Mayhew, T.P.: Clinical use of isokinetic measurements. Phys. Ther., 67:1840-1844, 1987.

Mayhew, T.P., Norton, B.J., Sahrmann, S.A.: Electromyographic study of the relationship between hamstring and abdominal muscles during a unilateral straight leg raise. Phys. Ther., 63:1769-1773, 1983.

Abstracts:

Mayhew, T.P, Wheeler, E., Finucane, S.D., Soper, S., Gu, Z. Pre-admission observation hours: should they stay or should they go? Poster, APTA Education Leadership Conference, Phoenix, AZ, 2016.

Mayhew, T.P, Wheeler, E., Finucane, S.D., Soper, S., Gu, Z. Pre-Admission Physical Therapy Observation Hours as a Predictor of Doctor of Physical Therapy program Outcome Measures. Poster, APTA Education Leadership Conference, Baltimore, MD, 2015.

Mayhew, T.P, Wheeler, E., Bowman, D., Soper, S. Use of the Practice Exam and Assessment Tool (PEAT) to predict success on the National Physical Therapy Examination (NPTE), Poster, APTA Education Leadership Conference, Kansas City, MO, 2014.

Escolar, D.M., Buyse, G., Henricson, E., Leshner, R., Florence, J., Mayhew, J., Patel, K., McCarter, Mayhew, T.P. Randomized placebo-controlled trial of creatine and glutamine in ambulatory Duchenne Muscular Dystrophy. Poster Presentation. American Neurology Association conference, 2003.

"The effect of lumbar support belts on isometric force production during a simulated lift." Thomas P. Mayhew, M. Scott Sullivan. Poster, APTA Annual Conference, Minneapolis, MN, 1996.

Kues, J.M., Mayhew, T.P.: A study of the force velocity relationship during electrically induced muscle contractions. Platform Presentation. VPTA conference in Roanoke, VA, April, 1995.

Sullivan, M.S., Kues, J.M., Mayhew, T.P.: Treatment categories of low back pain: A survey of physical therapists in the state of Virginia. Platform Presentation. VPTA conference in Roanoke, VA, April, 1995.

Sullivan, M.S., Mayhew, T.P.: The effect of lumbar support belts on isometric force production during a simulated lift. Platform Presentation. VPTA conference in Roanoke, VA, April, 1995.

Mayhew, T.P., Rothstein, J.M., Finucane, S.D., Lamb, R.L.: The effect of concentric and eccentric contraction performed at equal power levels on muscle hypertrophy. Phys. Ther., 72(Suppl), 1992.

Mayhew, T.P., Rothstein, J.M., Finucane, S.D., Lamb, R.L.: The effect of concentric and eccentric exercise on isometric torque production. Phys. Ther., 70(Suppl), 1991

Finucane, S.D., Rothstein, J.M., Mayhew, T.P., Diegelmann, R.F., Lamb, R.L.: The effect of contraction type on muscle collagen. Phys. Ther., 71:S45, 1991.

McClure, J.M., Mayhew, T.P., Norton, B.J.: Reliability of two postural measures: pelvic tilt and femoral-tibial angle. Phys. Ther., 63:779, 1983.

Mayhew, T.P., Norton, B.J., Sahrmann, S.A.: Patterns of muscle stabilization during straight leg raising. Phys. Ther., 61:685, 1981.

Sahrmann, S.A., Mayhew, T.P., Norton, B.J.: Relative participation of hemiparetic hamstrings during two activities. Phys. Ther., 64:714, 1984.

12. Books and/or Chapters

Pidcoe, P.E., Mayhew, T.P.: Mechanics and Pathomechanics of Cervical Musculature, in Oatis, C. (ed): *Kinesiology: The Mechanics and Pathomechanics of Human Movement*, 2nd ed. Lippincott Williams & Wilkins, 2009.

Mayhew, T.P., Pidcoe, P.E.: Mechanics and Pathomechanics of Cervical Musculature, in Oatis, C. (ed): *Kinesiology*, Lippincott Williams & Wilkins, 2004

Mayhew, T.P.: Anatomy of the Hip and Sacroiliac Joints. Chapter in the Orthopaedic Section, APTA, Home Study Course Program; January, 1997.

Mayhew, T.P.: Anatomy of the Foot and Ankle. Chapter in the Orthopaedic Section, APTA, Home Study Course Program; January, 1995.

Mayhew, T.P., Rothstein, J.M.: Measurement of muscle performance with instruments. In Rothstein, J.M. (ed): *Measurement in Physical Therapy*, New York, NY, Churchill Livingstone, pp: 57-102, 1985.