

Kathleen (Beehner) Lukaszewicz, PT, PhD

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EDUCATION AND RESEARCH TRAINING

- 3/2012 – 6/2012 Postdoctoral Fellow, Physiology, Medical College of Wisconsin, Milwaukee, WI (P.I.: Julian Lombard, PhD)
- 8/2007 – 3/2012 Ph.D. in Physiology, Medical College of Wisconsin, Milwaukee, WI
Upregulation of cytochrome P450 4A ω -hydroxylase and subsequent overproduction of 20-HETE results in increased superoxide, reduced nitric oxide bioavailability, and impaired vascular relaxation in Dahl salt-sensitive rats.
- 8/2002 – 5/2004 MPT, Marquette University, Milwaukee, WI
- 8/1998 – 5/2002 B.A., Marquette University, Milwaukee, WI

FACULTY AND ADMINISTRATIVE APPOINTMENTS

- 8/2020 – Present Associate Clinical Professor, Department of Physical Therapy, Marquette University
- 7/2019 – 7/2023 Director of Graduate Studies for the Exercise and Rehabilitation Science graduate program, Marquette University
- 1/2018 – 10/2020 Admissions committee member for the Interdisciplinary Graduate Program in Neuroscience, Marquette University
- 7/2018 Chair of search committee for Pharmacology position in the Physical Therapy department, Marquette University
- 5/2018 Academic Standards Committee Member for the department of Physical Therapy, Marquette University
- 3/2018 – 4/2018 Search committee for Clinical Assistant Professor for the Athletic Training Program in the Physical Therapy department, Marquette University
- 7/2015 – 6/2019 Assistant director for graduate studies for Clinical and Translational Rehabilitation Health Science (CTRH) graduate program, Marquette University
- 10/2013 – 7/2023 Program Assessment Leader (PAL) for Clinical and Translational Rehabilitation Health Science (CTRH) graduate program, Marquette University
- 7/2012 – 7/2020 Clinical Assistant Professor, Department of Physical Therapy, Marquette University
- 6/2011 – 5/2012 Adjunct Professor, Department of Human Movement Sciences, University of Wisconsin – Milwaukee
- 1/2009 – 5/2011 Adjunct Professor, Department of Natural Sciences and Department of Physical Therapy, Carroll University

PEER-REVIEWED PUBLICATIONS

1. **Lukaszewicz, K**, Parker, D, and Young-Brice A. Use of Interprofessional Simulation Experiences in Basic Science Courses: Implications on Physical Therapy Students Clinical Reasoning and Communication. *Journal of Physical Therapy Education. In Preparation.*
2. **Lukaszewicz K**, Puthoff ML, and Hillegass E. The Role of Physical Therapists in the Management of Individuals at Risk for or Diagnosed with Venous Thromboembolism – A 2022 Evidence-Based Clinical Practice Guideline. *Phys Ther.* 2022 Aug 4;102(8).

3. **Lukaszewicz K**, Hillegass E, Puthoff ML, MacPhedran AK. Clinical Update for Physical Therapists: Coagulopathy and COVID-19. *Phys Ther*. 2020 Dec 7;100(12):2127-2133.
4. Senefeld JW, Limberg JK, **Lukaszewicz KM**, Hunter SK. Exercise-induced hyperemia is associated with knee extensor fatigability in adults with type 2 diabetes. *J Appl Physiol* (1985). 2019 Mar 1;126(3):658-667.
5. **Lukaszewicz KM**, Durand MJ, Priestley JRC, Schmidt JR, Allen LA, Geurts AM, Lombard JH. Evaluation of Vascular Control Mechanisms Utilizing Video Microscopy of Isolated Resistance Arteries of Rats. *J Vis Exp*. 2017 Dec 5;(130):56133.
6. **Lukaszewicz KM**, Paudyal MP, Falck JR, Lombard JH. Role of vascular reactive oxygen species in regulating cytochrome P450-4A enzyme expression in Dahl salt-sensitive rats. *Microcirculation*. 2016 Oct;23(7):540-548.
7. **Lukaszewicz KM**, Falck JR, Manthathi VL, Lombard JH. Introgression of Brown Norway CYP4A genes on to the Dahl salt-sensitive background restores vascular function in SS-5(BN) consomic rats. *Clin Sci (Lond)*. 2013 Mar;124(5):333-42.
8. **Lukaszewicz KM**, Lombard JH. Role of the CYP4A/20-HETE pathway in vascular dysfunction of the Dahl salt-sensitive rat. *Clin Sci (Lond)*. 2013 Jun;124(12):695-700.

PEER-REVIEWED ABSTRACTS

1. **Lukaszewicz KM**. Introducing an IPE Simulation to Integrate Basic Science Content into Clinical Communication. *Educational Leadership Conference*. Atlanta, GA, 2021.
2. Senefeld J, **Lukaszewicz KM**, Limberg JK, and Hunter SK. Leg Blood Flow and Fatigability in People with Type 2 Diabetes. *American College of Sports Medicine*. Denver, CO, 2017
3. Eble C, Senefeld J, **Lukaszewicz KM**, Limberg J, and Hunter SK. Greater Fatigability of Lower Limb Muscles in People with Type 2 Diabetes: The Contribution of Blood Flow Kinetics. *Marquette University Biomedical Sciences Summer Research Program*, 2016
4. **Beehner K**, Falck JF, and Lombard J. *20-HETE and Vascular Dysfunction in the Dahl Salt-Sensitive Rat*. High Blood Pressure Research Conference 2011 Scientific Sessions, Orlando, FL, 2011.
5. **Beehner K**, Falck JR, and Lombard J. *The Effect of 20-HETE on the Vascular Dysfunction in the Dahl Salt-Sensitive Rat is a Result of Chronically Suppressed Angiotensin II Levels*. Experimental Biology, Washington DC, 2011.
6. **Beehner K**, Falck JR, and Lombard J. *Introgression of Brown Norway CYP4A Genes onto the Dahl Salt-Sensitive Genetic Background Restores Vascular Relaxation Mechanisms in SS.5^{BN} Consomic Rats*. Presented in the Best of AHA Specialty Sections at Scientific Sessions, Chicago, IL, 2010.
7. **Beehner K**, Falck JR, and Lombard J. *The Effect of a High Salt Diet on Vascular Regulation by 20-HETE*, Experimental Biology, Anaheim, CA, 2010.

PRESENTATIONS/INVITED LECTURES

- 2022 **Lukaszewicz K**, Puthoff ML, and Hillegass E. *HELP! My Patient May have a Venous Thromboembolism! What Do I Do?* APTA Combined Sections Meeting, San Antonio, NM.
- 2015 **Lukaszewicz, KM**. *Understanding Pathophysiology for the Provision of Therapy*. Continuing education for Health Care Professionals, Marquette University, Milwaukee, WI.
- 2011 **Lukaszewicz, KM**. *20-HETE and Vascular Dysfunction in the Dahl Salt-Sensitive Rat*, in the department of Physical Therapy, Marquette University, Milwaukee, WI.

- 2011 **Beehner KM**, Falck JF, and Lombard J. *20-HETE and Vascular Dysfunction in the Dahl SS Rat*. High Blood Pressure Research Conference 2011 Scientific Sessions, Orlando, FL.
- 2010 **Beehner KM**, Falck JR, and Lombard J. *Introgression of Brown Norway CYP4A Genes onto the Dahl Salt-Sensitive Genetic Background Restores Vascular Relaxation Mechanisms in SS.5^{BN} Consomic Rats*. High Blood Pressure Research Conference 2010 Scientific Sessions, Washington DC.

SCHOLARLY CONTRIBUTIONS

1. *Content Expert*: Chapter 11, Kinesiology of Ventilation in: Neumann DA: Kinesiology of the Musculoskeletal System. Elsevier, Anticipated press release: 2023

MEDIA/PROMOTION CONTRIBUTIONS

1. PT Pintcast: Guest on podcast to discuss venous thromboembolism (VTE). January, 2022
2. Fox 6 News: Interviewed as pulmonary expert for segment on the health benefits of breathing. May, 2021
3. Cardiopulmonary APTA Newsletter: Featured section member. January, 2019
4. CBS 58 News: Mission to Mars (undergraduate honors course). October 14, 2018

NATIONAL COMMITTEES

- 10/2020 – Present Education Leadership Partnership’s Reactor Panel. The American Physical Therapy Association (APTA) Academy of Education.
- 10/2018 – Present Oversight Development Committee for update of the Clinical Practice Guidelines for Venous Thromboembolism; Cardiovascular and Pulmonary (CVP) section of the American Physical Therapy Association (APTA).
- 2/2020 2020 Vital Sign Interpretation Reactor Panel for the Cardiovascular and Pulmonary Section and Academy of Acute Care. APTA Combined Sections Meeting; Denver CO.

FELLOWSHIPS/AWARDS

- 2023 John P. Raynor, S.J. Faculty Award for Teaching Excellence, Marquette University
- 2021 Education Innovation Award from the Physical Therapy Learning Institute (PTLI)
- 2021 Dorothy H. Wood Award for Teaching Excellence, Marquette University
- 2012 Medical College of Wisconsin Excellence in Physiology Award – Summa Cum Laude
- 2011 Clinical Science Poster Prize at High Blood Pressure Research Conference 2011 Scientific Sessions, Orlando, FL
- 2011 High Blood Pressure Research Outstanding Trainee Award
- 2011 American Heart Association Pre-Doctoral Fellowship - Midwest Affiliate
- 2011 Microcirculatory Society’s Benjamin Zweifach Student Award
- 2010 Annual High Blood Pressure Research New Investigator Award

INVITED JOURNAL REVIEWER

- 2011 Hypertension

RESEARCH SUPPORT

- 4/22 – 3/27 **National Institute of Health R01** [1R01AG077688-01]
 Hunter, Sundberg & Fitts (PIs)
Mechanisms of Fatigability and the Protective Effects of Exercise in People with Diabetes
 To understand the role of vascular dysfunction in skeletal muscle fatigue in patients with pre-diabetes and type II diabetes (T2D) and test a novel training regime of blood flow restriction training in this patient population.
 Role: Co-I
- 9/20 – 8/25 **National Institute of Health R01** [1R01AG048262]
 Hunter, Sundberg & Fitts (PIs)
Fatigability of Limb Muscle in Older Adults: Protective Effects of Exercise.
 To understand the role of vascular and bioenergetic mechanisms of increased fatigability with advanced age and protective effects of a novel strength training regime.
 Role: Co-I
- 2018 Athletic and Human Performance Research Center Pilot Award
 Marquette University internal award to collaborative health/performance research.
 Role: PI
 Amount: \$15,000
- 7/11– 3/12 American Heart Association Pre-Doctoral Fellowship - Midwest Affiliate
- 1/08 – 6/11 National Institute of Health Training Grant (T-32)

GRADUATE STUDENT RESEARCH ADVISING

- 2021 – present Master’s Profession Project Committee
Charles Rydeski
- 2019 – present Ph.D. Dissertation Committee
Blaine Arney
- 2017 - 2019 Master’s Professional Project Committee
Kevin Ryan
- 2015 – 2017 Ph.D. Dissertation Committee
Jonathan Senefeld

GRADUATE STUDENT TEACHING MENTORSHIP

- 2021 – present Taylor Holmes

CERTIFICATION LICENSURE

- 2004 – Present Physical Therapist – State of Wisconsin
 2003 – 2004 Physical Therapist – State of Illinois

MEMBERSHIPS

- 2022 – present APTA Academy of Education section member
 2022 – present American Council of Academic Physical Therapy member
 2017 – present Cardiovascular and Pulmonary Section member of the APTA
 2016 – present American Physical Therapy Association (APTA)

- 2010 – 2013 American Heart Association
2010 – 2013 Microcirculatory Society
2010 – 2013 American Physiological Society (APS)

TEACHING ACTIVITIES

Marquette University

- 07/2012 – present Clinical Assistant Professor, Department of Physical Therapy
- 08/2020 – 12/2022 Course director, **Readings and Research I**
 - 01/2018 – present Course director, **Clinical Pathology and Pathophysiology**
 - 06/2017 – present Course director, **Cardiovascular and Pulmonary Physical Therapy**
 - 09/2014 – present Invited lecturer (annually), **Applied Physiology**
Title: Regulation of Microcirculation
 - 08/2012 – present Course director, **Physiology of Activity**
 - 08/2018 – 12/2018 Co-course director, **Capstone Seminar: Mission to Mars**
 - 06/2015 – 07/2018 Invited lecturer (annually), **Physiology** (HCOP program)
Title: Exercise Physiology
 - 01/2016 – 05/2017 Course director, **Pathophysiology**
 - 01/2012 – 05/2017 Course director, **Tests and Measures**
 - 07/2013 – 05/2016 Co-course director, **Physical Technologies and Electrotherapy**
 - 08/2012 – 12/2015 Laboratory instructor, **Advanced Exercise Physiology**
 - 01/2012 – 05/2015 Co-course director, **Pathophysiology and Aging**

University of Wisconsin – Milwaukee

- 08/2011 – 05/2012 Adjunct Professor, Department of Human Movement Sciences
Course Title: Anatomical Kinesiology
- 06/2011 – 08/2011 Laboratory Instructor, Department of Physical Therapy
Course Title: Gross Anatomy

Carroll University

- 01/2011 – 05/2011 Adjunct Professor, Department of Physical Therapy
Course Title: Physical Therapy 401: Clinical Research I
- 01/2010 – 12/2011 Laboratory Instructor, Department of Health and Medicine
Course Title: Human Physiology
Course Title: Anatomy and Physiology

Medical College of Wisconsin

- 01/2008 – 05/2010 Laboratory Instructor, Department of Physiology
Course Title: Medical Physiology
Laboratory Sessions: Skeletal muscle physiology, circulatory control.
- 08/2008 – 05/2009 Tutor for graduate students, Physiology Department

CONTINUING EDUCATION SUPPORTING CLINICAL PRACTICE

- 2023 Blurred Lines: Ethics at the Nexus of Science, Technology and Rehabilitation, Continuing Education course at Marquette University

- 2022 Educational Leadership Conference (APTA) – October 2022; Milwaukee WI
- 2021 Educational Leadership Conference (APTA) – October 2023; Atlanta, GA
- 2020 Combined Sections Meeting (APTA) – February 13-15, 2020; Denver CO
- 2019 Combined Sections Meeting (APTA) – January 23-26, 2019; Washington DC
- 2018 Combined Sections Meeting (APTA) – February 21-24, 2018; New Orleans
- 2018 “Breaking Up is Hard to Do: Ethics of Maintaining vs. Ending Care”, Continuing Education course at Marquette University
- 2017 Cardiovascular and Pulmonary Physical Therapy, Milestones Online Continuing Education
- 2017 “Best Practice Cardiopulmonary Physical Therapy” - PT Cardiopulmonary Educators continuing education course (Ellen Hillegas and Rebecca Crouch); Lillington NC
- 2017 Clinical shadowing at Froedtert Medical Center in multiple intensive care units (cardiac, trauma, surgical, and medical) – *18 hours of shadowing*
- 2017 “Ethics and Jurisprudence, Deciding for Others”, Continuing Education course at Marquette University
- 2014 “Clinical Updates and Practice Issues: Using Legal and Ethical Documents to Support Legal Practice”; Continuing Education course at Marquette University
- 2012 “Keeping Secrets: Confidentiality, Disclosure and the Duty to Report”; Continuing Education course at Marquette University

CLINICAL EXPERIENCE

- 7/2012 – 10/2014 Marquette Sports Rehabilitation Clinic, Milwaukee, WI
- 5/2007 – 6/2009 Physical Therapist, Injury Rehabilitation Clinic, Brookfield, WI
- 6/2005 – 5/2007 Physical Therapist, SPORT Clinic of Greater Milwaukee, Wauwatosa, WI
- 6/2004 – 6/2005 Physical Therapist, Athletico, LLC, Bannockburn, IL
- 2004 Physical Therapist Internship, Bellin Sports Medicine, Green Bay, WI
- 2004 Physical Therapist Internship, St. Luke’s Medical Center, Milwaukee, WI
- 2003 Physical Therapist Internship, Concentra Medical Center, Winston-Salem, NC
- 2002 Physical Therapist Internship, Zablocki VA Medical Center, Milwaukee, WI