

**William Todd Cade, PT, PhD**

CURRICULUM VITAE

**PRESENT POSITION** Associate Professor  
Associate Director, Post-Doctoral Fellowships  
Program in Physical Therapy  
Department of Medicine  
Washington University School of Medicine

**EDUCATION**

1991	BS	Kinesiological Science	University of Maryland, College Park, MD
1994	MS	Physical Therapy	University of Miami, Coral Gables, FL
2002	PhD	Rehabilitation Science	University of Maryland, Baltimore, MD
2002-2005		Fellowship-Endocrinology/Metabolism	Washington University, St. Louis, MO

**ACADEMIC POSITIONS/EMPLOYMENT**

1995-1997 Physical therapist, Veterans Administration Medical Center, Baltimore, MD  
1995-2002 Physical therapist, MedStar Home Health Care, White Marsh, MD  
1998-2002 Graduate Research Assistant, Department of Physical Therapy & Rehabilitation Science, University of Maryland School of Medicine, Baltimore, MD  
2002-2005 Postdoctoral Research Fellow, Division of Endocrinology, Metabolism & Lipid Research, Department of Medicine, Washington University School of Medicine, St. Louis, MO  
2005-2006 Instructor, Program in Physical Therapy, Washington University School of Medicine, St. Louis, MO  
2006-2012 Assistant Professor, Program in Physical Therapy, Department of Medicine, Washington University School of Medicine, St. Louis, MO  
2012-present Associate Professor, Program in Physical Therapy, Department of Medicine, Washington University School of Medicine, St. Louis, MO  
2015-present Associate Director, Post-Doctoral Fellowships, Program in Physical Therapy, Washington University School of Medicine, St. Louis, MO

**UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES**

2006-present Washington University Diabetes Research Center (Member)  
2006-present Washington University Nutrition and Obesity Research Center (Member)  
2005-present Research Advisory Committee, Program in Physical Therapy, Washington University (Member)  
2006, 2011 NIH K12 Planning Committee, Program in Physical Therapy, Washington University (Member)  
2010-2014 Steven J. Rose Research Symposium and Alumni Day, Program in Physical Therapy, Washington University (Organizer)  
2009-present Washington University Institute for Clinical and Translational Sciences (Member)  
2010-present Clinical and Translational Research Funding Program, Barnes-Jewish Hospital Foundation and Washington University Institute of Clinical and Translational Sciences (Reviewer)  
2014 Washington University Clinical Research Training Center Office of Training Grants Mock Study Section (Reviewer)

2015-present Adjunct Professor, Center for Cardiovascular Research, Washington University

### **CURRENT PHYSICAL THERAPY LICENSURE**

Missouri #2003011614

### **HONORS and AWARDS**

- 1993-1994 *Health Scholarship Award*, United States Veterans Administration (VA)  
1999-2001 *Graduate School Merit Scholarship Award*, University of Maryland, Baltimore  
2001 *Presidents Award*, American College of Sports Medicine, Mid-Atlantic Regional Chapter  
2001 *Immunology Section Award: 1<sup>st</sup> runner up*, University of Maryland, Baltimore, Graduate Research Conference  
2001-2003 *Graduate School Association Scholarship Award*, University of Maryland, Baltimore  
2002 *Young Scientist Scholarship Award*, 4<sup>th</sup> International Workshop on Adverse Drug Reactions and Lipodystrophy in HIV, San Diego, California

### **MANUSCRIPT REVIEWER/EDITORIAL RESPONSIBILITIES**

- 2007-present Editorial Board, *Physical Therapy*  
2007-2010 Editorial Board, *Journal of the CardioMetabolic Syndrome*

Reviewer for: *Acquired Immune Deficiency Syndrome (AIDS)*  
*AIDS Research and Human Retroviruses*  
*American Journal of Physiology-Endocrinology and Metabolism*  
*Cell Biochemistry and Function*  
*Diabetologia*  
*HIV Medicine*  
*HIV Therapy*  
*Journal of the American Medical Association*  
*Journal of the Acquired Immune Deficiency Syndrome*  
*Journal of Clinical Nutrition*  
*Journal of Clinical Endocrinology*  
*Journal of Infectious Diseases*  
*Journal of Pediatrics*  
*Medicine and Science in Sport and Exercise*  
*Physical Medicine and Rehabilitation*  
*Obesity*  
*The Journal of Physiology*

### **PROFESSIONAL SOCIETIES AND ORGANIZATIONS**

#### Advisory Board

2012-present Barth Syndrome Foundation Scientific and Medical Advisory Board

#### Grant Reviewer

- 2009-present South African Medical Research Council Research Grant Program (ad hoc)  
2010-present American Diabetes Association Research Foundation  
2013-present Foundation for Physical Therapy  
2015 Ad Hoc Reviewer, NIH Senator Paul D. Wellstone Muscular Dystrophy Cooperative Research Centers (U54)

#### Member

1992-present American Physical Therapy Association (APTA), Section on Research  
1999-present American College of Sports Medicine (ACSM)  
2001-present American Physiological Society (APS)  
2004-present American Diabetes Association (ADA)  
2007-present American Heart Association (AHA)

Other

2015 American Physiological Society Minority Travel Award Mentor  
2015-2016 2016 Barth Syndrome Foundation International Conference Planning Committee

**POST-FELLOWSHIP TRAINING**

9/10/2002-9/16/2002 "Isotope Tracers in Metabolic Research", University of Texas Medical Branch, Galveston, TX  
7/12/2009-7/31/2009 "An Organs Systems Approach to the Experimental Targeting of the Metabolic Syndrome", Vanderbilt University/NIDDK, Nashville, TN  
7/6/2011-7/22/2011 "Bench Fundamentals for Translational Research" Washington University Clinical Research Training Center, St. Louis, MO  
5/20/2014-5/22/2014 "Practical Mass Spectrometry" NIH/NIGMS Mass Spectrometry Resource, Washington University, St. Louis, MO  
1/23/2015-6/20/2015 "Academic Medical Leadership Program for Physicians & Scientists", Washington University, St. Louis, MO

**INVITED LECTURES**

1. **Cade WT** (2005) Metabolic Complications in HIV. Invited Speaker, University of Southern California Physical Therapy Research Seminar, Los Angeles, CA.
2. **Cade WT** (2005) Heart function in individuals with human immunodeficiency virus. Invited Speaker, Community Activist Board Meeting, Washington University AIDS Clinical Trials Unit, St. Louis, MO.
3. **Cade WT** (2005) Metabolic complications in HIV. Invited Speaker, University of Oklahoma Department of Physical Therapy Research Seminar, Oklahoma City, OK.
4. **Cade WT** (2006) Insulin resistance in skeletal and cardiac muscle: implications for exercise training. Alumni Day Education, Program in Physical Therapy, Washington University, St. Louis, MO.
5. **Cade WT** (2006) Heart health: the metabolic syndrome. Invited Speaker, St. Louis Science Center, St. Louis, MO.
6. **Cade WT** (2006) How to keep your heart healthy. Invited Speaker, St. Louis Science Center, St. Louis, MO.
7. **Cade WT** (2006) Lipid kinetics and diastolic function in HIV. Invited Speaker, Nutrition and Obesity Research Center Seminar, Washington University, St. Louis, MO.
8. **Cade WT** (2006) Whole-body and myocardial substrate utilization in HIV. Invited Speaker, University of Florida Department of Physical Therapy Research Seminar, Gainesville, FL.
9. **Cade WT** (2007) Whole-body and myocardial metabolic complications in HIV. University of Maryland, Baltimore Department of Physical Therapy Research Day, Baltimore, MD.
10. **Cade WT** (2007) Metabolic and cardiovascular complications in HIV and HAART. Educational Seminar, Endocrinology Fellows Seminar, Washington University, St. Louis, MO.
11. **Cade WT** (2008) Family talk: Is it safe for my child to exercise? Invited Speaker, Barth Syndrome Foundation International Medical, Scientific and Family Conference, Clearwater, FL.
12. **Cade WT** (2008) Characterization of nutrient metabolism in Barth syndrome: what can this tell us? Invited Speaker, Barth Syndrome Foundation International Medical, Scientific and Family Conference, Clearwater, FL.
13. **Cade WT** (2008) Metabolic and cardiovascular complications in HIV and HAART. Educational Seminar, Cardiology Fellows Seminar, Washington University, St. Louis, MO.

14. **Cade WT** (2009) HIV infection during the HAART era: clinical presentation, complications and interventions. Educational Seminar, APTA Combined Sections, Las Vegas, NV.
15. **Cade WT** (2009) Diabetes-related microvascular and macrovascular disease in the clinical physical therapy setting. Educational Seminar, APTA Combined Sections, Las Vegas, NV.
16. **Cade WT** (2009) Metabolic and cardiovascular complications in HIV and HAART. Educational Seminar, Infectious Disease Fellows Seminar, Washington University, St. Louis, MO.
17. **Cade WT** (2010) Nutrient metabolism in Barth syndrome. Invited Speaker, Barth Syndrome Foundation International Medical, Scientific and Family Conference, Orlando, FL.
18. **Cade WT** (2010) Barth syndrome: using nutrient methodology to examine a rare, inherited cardiomyopathy. Invited Speaker, Nutrition and Obesity Research Center Seminar, Washington University, St. Louis, MO.
19. **Cade WT** (2010) Family talk: summary of exercise and metabolic research in Barth syndrome. Invited Speaker, Barth Syndrome Foundation International Medical, Scientific and Family Conference, Orlando, FL.
20. **Cade WT** (2010) Heart function in children exposed to HIV and HAART *in utero*. Invited Speaker, Community Activist Board Meeting, Washington University AIDS Clinical Trials Unit, St. Louis, MO.
21. **Cade WT** (2012) Nutrient metabolism and exercise in Barth syndrome. Invited Speaker, Barth Syndrome Foundation International Medical, Scientific and Family Conference, St. Petersburg, FL.
22. **Cade WT** (2012) Family talk: is endurance exercise beneficial in Barth syndrome? Invited Speaker, Barth Syndrome Foundation International Medical, Scientific and Family Conference, St. Petersburg, FL.
23. **Cade WT** (2013) Heart and Skeletal Muscle Energetics and Function in Barth Syndrome: Family Recruitment. Invited Speaker, Royal Hospital for Children, Bristol, England.
24. **Cade WT** (2013) Exercise and Nutrient Metabolism in Metabolic Disease: Developing a Research Line. Invited Speaker, Department of Rehabilitation Science, George Mason University, Fairfax, VA.
25. **Cade WT** (2014) Challenges of Clinical Research in Adults and Children with Rare Disease. Invited Speaker, Institute for Clinical and Translational Research, Brown Bag Lecture Series, Washington University, St. Louis, MO.
26. **Cade WT** (2014) Exercise and Metabolic Studies in Barth Syndrome: an Update. Invited Speaker, Barth Syndrome Foundation International Medical, Scientific and Family Conference, Clearwater Beach, FL.
27. **Cade WT** (2014) Family Talk: Exercise and Nutrition in Barth Syndrome. Invited Speaker, Barth Syndrome Foundation International Medical, Scientific and Family Conference, Clearwater Beach, FL.
28. **Cade WT** (2015) Potential Application of Clinical Metabolism Studies in Pediatric Cancer: Lessons from a Rare, Inherited Cardio-Skeletal Myopathy. Invited Speaker, St. Jude Children's Research Hospital, Memphis, TN.

## RESEARCH SUPPORT

### Past

- 2004-2005      "Lipid Kinetics During Acute Exercise in HIV"  
National Research Service Award, Postdoctoral Fellowship  
NIH F32 DK066977-01 (PI: Cade WT)  
The major goal of this project was to examine the effect of protease inhibitor-based antiretroviral therapy on lipid kinetics during exercise in individuals with HIV.
- 2006-2011      "Exercise and TZD Effects on Myocardial Substrate Metabolism and Function in HIV"  
Mentored Research Scientist Development Award  
NIH KDK074343A (PI: Cade WT)

The major goal of this project is to examine the effects of cardiorespiratory exercise training and Pioglitazone® on myocardial substrate metabolism and contractile function in HIV-infected individuals with impaired whole-body glucose metabolism.

- 2009-2012 “Characterization of Nutrient Metabolism in Barth Syndrome”  
Barth Syndrome Foundation  
Research Grant (PI: Cade WT)  
The major goal of this project is to examine the relationship between whole body nutrient metabolism and cardiac function in boys and young men with Barth syndrome.
- 2010-2012 “Left Ventricular Function in HIV-Negative Children Exposed to HIV and HAART *in Utero*”  
GlaxoSmithKline  
HIV Collaborative Investigator Research Award (PI: Cade WT)  
The major goal of this project is to examine if left ventricular function is impaired in pre-adolescent HIV-negative children who were exposed to HIV and HAART *in utero*.
- 2009-2013 “Adrenergic Mechanisms in Metabolic Pathophysiology: Thalamic Activation in Exercise Induced Hypoglycemia Associated Autonomic Failure”  
Washington University Children’s Discovery Institute (Arbelaez AM, Role: Co-I)  
The major goal of this study is to determine if antecedent exercise increases dorsal midline thalamic synaptic activation in response to subsequent hypoglycemia in healthy subjects.
- 2010-2013 “Safety and Efficacy of Aerobic Exercise Training in Barth Syndrome”  
Barth Syndrome Foundation (PI: Cade WT)  
The major goal of this project is to examine the safety and efficacy of aerobic exercise training in boys and young men with Barth syndrome.
- 2011-2014 “Maternal Lipid Metabolism and Neonatal Heart Function in Diabetes Mellitus”  
Thrasher Research Fund (PI: Cade WT)  
The major goals of this study are to examine the effect of maternal nutrient metabolism during pregnancy on heart function in neonates born to women with diabetes.
- 2012-2013 “Effects of Resistance Exercise Training on Cardiac, Metabolic and Muscle Function and Quality of Life in Barth Syndrome”  
Barth Syndrome Foundation (PI: Cade WT)  
The major goal of this project is to examine the safety and efficacy of resistance exercise training in boys and young men with Barth syndrome.
- 2014-2015 “Lipid Metabolomics in Diabetic Pregnancy”  
Washington University Diabetic Cardiovascular Disease Center (PI: Cade WT)  
The major goal of project is to explore the relationship between maternal and fetal lipidomics and obstetric and neonatal metabolic and cardiovascular outcomes in diabetic pregnancy.
- 2014-2015 “Application of the WMS for Advanced Physical Training and Endurance Testing of Manual Wheelchair Users”  
Missouri Spinal Cord Injuries Foundation (PI: Klaesner J, Role: Co-I)  
The major goal of the project is to develop and validate software for endurance exercise testing and training using the Wheel Mill System (WMS) in people with spinal cord injuries.

- 2013-2015 “Characterizing Neurodevelopment and Neurologic Injury in Infants Born to Diabetic Women”  
American Diabetes Association (PI: Cahill AG, Role: Co-I)  
With this study we aim to characterize neurodevelopmental delay in IBDW compared to the offspring of obese, non-diabetic controls, and to further estimate the role of measures of lipid metabolism in identifying those IBDW at greatest risk of delay. Finally, we aim to begin to explore the use of neonatal non-sedated magnetic resonance imaging as a biomarker for neurodevelopmental delay in IBDW. Given the dramatic growth in the rates of obesity and diabetes, and the negative impact on both pregnancy and the health of off-spring, it is critical that we gain greater understanding of the neurologic sequelae and the mechanisms that lead to these outcomes in order to work toward prevention of neurologic injury and neurodevelopmental delay in IBDW.
- Current**
- 2016-2018 “Physical Activity During Pregnancy: Novel Pathways and Intervention Strategies for Improving Maternal and Neonatal Outcomes”  
Kentucky Biomedical Research Infrastructure Network and INBRE Investigator Development Award (PI: Tinius RA, Role: Co-I, Mentor) - Parent NIH R15  
This project will explore the role of post-prandial lipid metabolism, inflammation and physical activity on maternal and neonatal outcomes in overweigh and obese women.
- 2015-2019 “Exercise Training to Improve Brain Health in HIV+ Individuals”  
NIH 1 R01 NR015738-01A1 (PI: Ances B, Role: Co-I)  
This project will test the impact of a combined endurance and resistance exercise training program on the cognitive health of people with HIV infection.
- 2015-2019 “Choline Metabolomics in Diabetic Pregnancy”  
Washington University Diabetes Research Center (PI: Cahill AG, Role: Co-I)  
This project will examine the relationship between maternal choline metabolism and offspring outcomes in diabetic pregnancy.
- 2015-2016 “Planning for Clinical Gene Therapy Program for Barth Syndrome”  
Barth Syndrome Foundation (PI: Byrne, BJ, Role: Co-I)  
The overall goal of the project is to refine and translate the current preclinical work with the goal of pushing toward clinical realization. In particular, we propose simultaneous initiation of regulatory paperwork processes along with completing necessary baseline characterization data and toxicological analysis of a gene therapy strategy of systemic delivery of AAV9-TAZ for the treatment of Barth syndrome.
- 2015-2016 “Effects of Resistance Exercise Training on Cardiac, Metabolic and Muscle Function and Quality of Life in Barth Syndrome: Part 2”  
Barth Syndrome Foundation (PI: Cade WT)  
The major goal of this project is to examine the safety and efficacy of resistance exercise training in boys and young men with Barth syndrome.
- 2012-2017 “Heart and Skeletal Muscle Nutrient Metabolism, Energetics and Function in Barth Syndrome”  
NIH 1 R01HL107406-01A1 (PI: Cade WT)

The major goals of this project are to characterize myocardial and skeletal muscle nutrient metabolism, energetics and function in children and young adults with Barth syndrome.

2011-2016 “Weight Management in Obese Pregnant Underserved African American Women”  
NIH U01 DK094416 (PI: Klein S, Haire-Joshu D, Cahill AG, Role: Co-I)  
This project will test a novel lifestyle intervention to help obese socioeconomically disadvantaged African American women achieve healthy weight control during and after pregnancy and improve the health of their offspring.

**Pending**

2016-2022 “Molecular Transducers of Physical Activity Clinical Centers-Pediatric Site”  
NIH (NIAMS) U01 (Co-PI’s: Cade WT, Nicol G) March 2016  
Serving as part of a multi-site trial as a clinical center, the project will collect biological tissues in response to acute and chronic aerobic and resistance exercise in 300 children ages 12-18 years to be used in metabolomics, proteomics, genomics, transcriptomics and epigenomics analyses.

2016-2017 “Human Urinary Renal Epithelial Cells as Metabolic Biomarkers in Barth Syndrome”  
(PI: Pacak C, Role: Co-I) March 2016  
Southeastern Center for Integrated Metabolomics Pilot & Feasibility Project  
This project will examine the utility of human urinary renal epithelial cells as biomarkers of metabolic status in patients with Barth syndrome.

2016-2018 “Metformin for Altered Maternal Lipid Metabolism and Infant Body Composition in Diabetic Pregnancy” (Co-PI’s: Cade WT, Cahill AG) June 2016  
NIH (NIDDK) R21  
This project will test the effect of daily metformin during pregnancy on maternal lipid metabolism and infant body composition in women with type 2 diabetes

**CLINICAL TITLE and RESPONSIBILITIES**

Not applicable at this time

**TEACHING TITLE and RESPONSIBILITIES**

***Current Responsibilities at Washington University***

***Professional Doctor of Physical Therapy Curriculum***

2004-present Lecturer  
Topic: HIV  
*M02 610: Cell Systems and Diseases II*

2005-present Lecturer  
Topic: Diabetes, Heart Failure, Aging Athlete  
*M02 653: Health, Fitness & Prevention*

2011-present Co-Course Master  
*M02 604: Cell Systems and Disease I*

*Program in Movement Science (PhD), School of Arts and Sciences*

*Post-Professional Doctor of Physical Therapy Program*

2005-present Course Master  
*L63 5410: Muscle Bioenergetics, Structure and Function*

**Past Responsibilities at Washington University**

2005-2013 Lecturer  
Topic: Cardiac responses to exercise training  
*M02 610: Exercise Physiology*

*University College, School of Arts and Sciences*

2005-2011 Lecturer  
Topic: Oxidative Stress and Aging  
U29 BIO 431: *Biology of Aging*

**Advisement & Mentoring**

9/2006-12/2006 Shannon Goebel, DPT  
Mentor  
Washington University Physical Therapy Research Clinical Rotation  
*HIV-related physical and metabolic complications*

2006-2007 Eugene Mutimura, PT, PhD, Kigali, Rwanda  
Faculty Mentor  
United States Fulbright Scholarship Program  
Fulbright study: *Effects of Progressive Exercise Training on Tissue Adipokines and Cardiovascular and Diabetes Risk Factors in HIV-Infected Individuals with Metabolic Complications*

2008-2010 Dustin Hardwick, PT, PhD  
Dissertation Committee  
Washington University Movement Science Program  
PhD Dissertation: *Shoulder Movement and Pain after Stroke*

2008-2011 Lori Tuttle, PT, PhD  
Dissertation Committee  
Washington University Movement Science Program  
PhD Dissertation: *Skeletal Muscle Adaptation in People with Diabetes Mellitus and Peripheral Neuropathy*

2009-2011 Stacey DeJong, PT, PhD  
Dissertation Committee  
Washington University Movement Science Program  
PhD Dissertation: *Effects of Movement Context on Reach-Grasp-Lift Motion and Grip Force after Stroke*

2009 Karen Bahow, DPT  
Mentor  
NIH TL1 RR024994 Predoctoral Clinical Research Fellow  
Program in Physical Therapy, Washington University  
Project: *Whole-body Nutrient Metabolism during Pregnancy in HIV*

2009-2014 Ericka Merriwether, PT, PhD  
Faculty Advisement Committee  
National Research Service Award F31 DK088512-01A1  
Washington University Movement Science Program



PhD Dissertation: *Foot Progression Angle in Individuals with Diabetes & Peripheral Neuropathy*

- 2011-2012 Paula Newton, MD  
Fellowship Research Committee Member  
Department of Pediatrics, Washington University School of Medicine  
Project: *Impact of a Short Duration of Moderate Exercise on Blood Glucose in Children and Young Adults with Type 2 Diabetes Mellitus*
- 9/2011-8/2015 Rachel Tinius, MS, PhD  
Mentor  
Washington University Movement Science Program  
PhD Dissertation: *Physical Activity and Inflammation in Obese Pregnancy*
- 9/2013-present Adam Bittel, DPT, PhD Candidate  
Mentor  
Washington University Movement Science Program  
PhD Dissertation: *Reduced Velocity Resistance Training in Diabetes*

## Bibliography:

### Peer-reviewed publications

1. Keyser RE, Peralta L, **Cade WT**, Miller S, Anxist J. Functional Aerobic Impairment in Adolescents Seropositive for HIV: A Quasi-Experimental Design. *Arch Phys Med Rehabil* 2000; 84: 1479-84. PMID:11083351
2. Keyser RE, Rus V, **Cade WT**, Kalappa N, Flores RH, Handwerger, BS. Evidence for Aerobic Insufficiency in Women with Systemic Lupus Erythmatosus. *Arthritis Care Res* 2003; 49(1): 16-22. PMID:12579589
3. **Cade WT**, Peralta L, Keyser RE. Aerobic Capacity in Adolescents with HIV and Controls. *Pediatric Rehabil* 2002; 5(3): 161-69. PMID:12581478
4. **Cade WT**, Fantry LE, Nabar SR, Shaw DK, Keyser RE. A Comparison of Qt and a-vO<sub>2</sub> in Individuals with HIV Taking and Not Taking HAART. *Med Sci Sport Exer* 2003; 35(7): 1108-1117. PMID:12840630
5. **Cade WT**, Fantry LE, Nabar SR, Keyser RE. Decreased Arteriovenous Oxygen Difference During Treadmill Testing in Individuals Infected with HIV. *Arch Phys Med Rehabil* 2003; 84:1595-1603. PMID: 14639557
6. **Cade WT**, Fantry LE, Nabar SR, Shaw DK, Keyser RE. Impaired Oxygen On-Kinetics in Individuals with HIV. *Arch Phys Med Rehabil* 2003; 84: 1831-1838. PMID: 14669191
7. **Cade WT**, Nabar SR, Keyser RE. Reproducibility of the Exponential Rise Technique of CO<sub>2</sub> Rebreathing for Measuring P<sub>V</sub>CO<sub>2</sub> and C<sub>V</sub>CO<sub>2</sub> to Non-Invasively Estimate Cardiac Output During Incremental, Maximal Treadmill Exercise. *Eur J of Appl Physiol* 2004; 91:669-76. PMID: 14652761
8. Reeds DN, Yarasheski KE, Fontana L, **Cade WT**, Laciny E, Demoss A, Patterson BW, Powderly WG, Klein S. Alterations in liver, muscle, and adipose tissue insulin sensitivity in men with HIV infection and dyslipidemia. *Am J Physiol Endocrinol Metab.* 2006; 290(1):E47-E53. PMID: 16118251
9. Reeds DN, **Cade WT**, Patterson BW, Powderly WG, Klein S, Yarasheski, KE. Whole body proteolysis rate is elevated in HIV-associated insulin resistance. *Diabetes*, 2006; 55(10):2849-55. PMID: 17003352
10. Subramanian S, DeRosa MA, Bernal-Mizrachi C, Laffely N, **Cade WT**, Yarasheski KE, Cryer PE, & Semenkovich CF. PPAR $\alpha$  activation elevates blood pressure and does not

- correct glucocorticoid-induced insulin resistance in humans. *Am J Physiol Endocrinol Metab*, 2006 Dec;291(6):E1365-71. PMID: 16868225
11. **Cade WT**, Reeds DN, Mittendorfer B, Patterson BW, Powderly WG, Klein S, & Yarasheski, KE. Blunted lipolysis and fatty acid oxidation during moderate exercise in HIV-infected subjects taking HAART. *Am J Physiol Endocrinol Metab*. 2007 Mar; 292(3):E812-9. PMID: 17106066
  12. Mutimura E, Crother N, **Cade WT**, Yarasheski KE, & Stewart A. Exercise training reduces central adiposity and improves metabolic indices in HAART-treated HIV-infected subjects in Rwanda: a randomized controlled trial. *AIDS Res Hum Retroviruses*. 2008 Jan;24(1):15-23. PMID: 18275343
  13. **Cade WT**, Reeds DN, Davila-Roman VG, Waggoner AN, Lasso-Claxton S, Powderly WG, & Yarasheski KE. Post-Exercise Heart Rate Recovery in HIV+ Subjects Taking HAART: Indicator of Early CVD? *HIV Med* 2008 Feb;9(2):96-100. PMID: 18093131
  14. Carper MJ, **Cade WT**, Cam M, Zhang S, Shalev A, Yarasheski KE, & Ramanadham S. HIV-Protease Inhibitors Induce Expression of Suppressor Cytokine Signaling-1 in Insulin-Sensitive Tissues and Promote Insulin Resistance and Type 2 Diabetes. *Am J Physiol Endocrinol Metab*, Apr;296(4):E925-35. PMID: 18171911
  15. Mutimura E, Stewart A, Crowther N, Yarasheski KE, & **Cade WT**. The Effects of Exercise Training on Quality of Life in HAART-Treated HIV-Positive Rwandans with Body Fat Redistribution. *Qual Life Res*. 2008 Apr;17(3):377-85. PMID: 18320351
  16. Schambelan M, Wilson PW, Yarasheski KE, **Cade WT**, Dávila-Román VG, D'Agostino RB Sr, Helmy TA, Law M, Mondy KE, Nachman S, Peterson LR, Worm SW; for Working Group 5. Development of Appropriate Coronary Heart Disease Risk Prediction Models in HIV-Infected Patients. *Circulation*. 2008 Jul 8; 118(2): e48-53. PMID: 18566316
  17. Zhang S, Carper MJ, Lei X, **Cade WT**, Yarasheski KE, Ramanadham S. Protease inhibitors used in the treatment of HIV+ induce  $\beta$ -cell apoptosis via the mitochondrial pathway and compromise insulin secretion. *Am J Physiol Endocrinol Metab* 2009 Apr;296(4):E925-35. PMID: 19208856
  18. O'Connor RD, Bashir A, **Cade WT**, Yarasheski KE, Gropler RJ. 1H-magnetic resonance spectroscopy for quantifying myocardial lipid content in humans with the cardiometabolic syndrome. *J Clin Hypertens (Greenwich)*. 2009 Sep;11(9):528-32. PMID: 19751469
  19. **Cade WT**, Reeds DN, Mondy KT, Overton ET, Grassino J, Tucker S, Bopp C, Laciny E, Hubert S, Lassa-Claxton S, & Yarasheski KE. Yoga lifestyle intervention reduces blood pressure in HIV-infected adults with cardiovascular disease risk factors. *HIV Med* 2010 Jul 1;11(6):379-88. PMID: 20059570
  20. Yarasheski KE, **Cade WT**, Lassa-Claxton S, Laciny E, Overton ET, Wang J, & Reeds DN. Exercise training augments the peripheral insulin sensitizing effects of pioglitazone in HIV-infected adults with insulin resistance and central adiposity. *Am J Physiol Endocrinol Metab*. 2011 Jan;300(1):E243-51. PMID: 20959530
  21. Tuttle LJ, Sinacore DR, **Cade WT**, Mueller MJ. Lower Physical Activity is Associated with Higher Intermuscular Adipose Tissue in People with Diabetes and Peripheral Neuropathy. *Phys Ther* 2011 Jun; 91(6): 923-30. PMID: 21474636
  22. Spencer CT, Byrne BJ, Bryant RM, Margossian R, Maisenbacher M, Breitenger P, Benni PB, Redfearn S, Marcus E, & **Cade WT**. Impaired Cardiac Reserve and Severely Diminished Skeletal Muscle Oxygen Utilization Mediate Exercise Intolerance in Barth Syndrome. *Am J Physiol Heart Circ Physiol*, 2011 Nov;301(5):H2122-9. PMID: 21873497
  23. **Cade WT**, Reeds DN, Overton ET, Herrero P, Waggoner AD, Davila-Roman VG, Lassa-Claxton S, Gropler RJ, Soto PF, Krauss MJ, Yarasheski KE, & Peterson LR. Effects of Human Immunodeficiency Virus and Metabolic Complications on Myocardial Nutrient

- Metabolism, Blood Flow, and Oxygen Consumption: A Cross-Sectional Analysis. *Cardiovasc Diabetol*, 2011 Dec 8;10:111. PMID: 22151886
24. **Cade WT**, Spencer CT, Reeds DN, Waggoner AD, O'Connor R, Maisenbacher M, Crowley JR, Byrne BJ, & Peterson LR. Substrate Metabolism During Basal and Hyperinsulinemic Conditions in Adolescents and Young-Adults with Barth Syndrome. *J Inherit Met Dis*, 2013 Jan;36(1):91-101. PMID: 2280961
  25. **Cade WT**, Waggoner AD, Hubert S, Krauss MJ, Singh GK, & Overton ET. Reduced Diastolic Function and Left Ventricular Mass Index in HIV-Negative Pre-Adolescent Children Exposed to Antiretroviral Therapy in Utero. *AIDS*. 2012 Oct 23;26(16):2053-8. PMID: 22874520
  26. **Cade WT**, Overton ET, Mondy K, de las Fuentes L, Davila-Roman VG, Waggoner AD, Reeds DN, Lassa-Claxton S, Krauss MJ, Peterson LR, & Yarasheski KE. Relationships Among HIV Infection, Metabolic Risk Factors and Left Ventricular Structure and Function. *AIDS Res Hum Retroviruses*. 2013 Aug; 29(8): 1151-60. PMID: 23574474
  27. Kiebish MA, Yang K, Liu X, Mancuso DJ, Guan S, Zhao Z, Sims HF, Cerqua R, **Cade WT**, Han X, & Gross RW. Dysfunctional Cardiac Mitochondrial Bioenergetic, Lipidomic, and Signaling in a Murine Model of Barth Syndrome *J. Lipid Res*. 2013, 54(5):1312-25. PMID: 23410936
  28. Harper LM, Renth A, **Cade WT**, Colvin R, Macones GA, & Cahill AG. Impact of Obesity on Maternal and Neonatal Outcomes in Insulin-Resistant Pregnancy. *Am J Perinatol*. 2013 Jul 22 [Epub ahead of print]. PMID: 23877768
  29. **Cade WT**, Reeds DN, Overton TO, Herrero P, Waggoner AD, Laciny E, Bopp C, Lassa-Claxton S, Gropler RJ, Peterson LR, & Yarasheski KE. A Pilot Study of Pioglitazone and Exercise Training Effects on Basal Myocardial Substrate Metabolism and Left Ventricular Function in HIV+ Individuals with Metabolic Complications. *HIV Clin Trials*. 2013, 14(6): 303-12. PMID: 24334183
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43. Khoury N\*, **Cade WT\***, Nelson S, Shackelford A, Semenkovich KA, & Arbeleaz AM. Hypoglycemia during exercise reduces counterregulatory responses to subsequent hypoglycemia in humans. 2015, *In Review (\*co-first authors)*.
44. Tinius RA, Cahill AG, & **Cade WT**. Movement promotion and prescription in pregnancy complicated by obesity: potential role of physical therapy. 2015, *In Review*.
45. **Cade WT**, Bohnert KL, Bittel AJ, Peterson LR, Byrne BJ, & Reeds DN. Resistance exercise training in Barth syndrome: a pilot trial. *In Preparation*.
46. **Cade WT**, Levy PT, Holland MR, Sing GT, Reeds DN, & Cahill AG. Reduced Left Ventricular Function in Neonates Born to Women with Obesity and Type 2 Diabetes. *In Preparation*.
47. **Cade WT**, Peterson LR, Bohnert KL, Reeds DN, Bittel A, Bittel D, Byrne BJ & Bashir A. Impaired cardiac and skeletal muscle energetics in children with Barth syndrome. 2015, *In Preparation*.
48. **Cade WT**, Bohnert KL, Peterson LR, Bittel A, Bittel D, Byrne BJ & Reeds DN. Plasma acylcarnitines at rest, during low-intensity exercise and recovery in children and young adults with Barth syndrome. *In Preparation*.

#### Invited Publications

1. **Cade WT**, Peralta, L, and Keyser, RE. Aerobic Exercise Dysfunction in HIV: A Potential Link to Physical Disability. *Phys Ther* 2004; 84: 655-664. PMID: 15225084
2. **Cade WT** & Yarasheski KE. Cardiometabolic Disease in the Human Immunodeficiency Virus: The Tip of the Iceberg? *J CardioMet Synd* 2007 Spring;3(2):77-8. PMID: 18453805
3. **Cade WT**. Left Ventricular Dysfunction in HIV. *J CardioMet Synd* 2007 Spring;3(2):83-7. PMID: 18453807

4. Mutimura E, Stewart A, Crowther N & **Cade WT**. The Cardiometabolic Syndrome in the Developing World: An African Perspective. *J CardioMet Synd* 2007 Spring;3(2):106-110. PMID: 18453811
5. **Cade WT**. Diabetes-Related Microvascular and Macrovascular Diseases in the Physical Therapy Setting. *Phys Ther*. 2008 Nov;88(11):1322-35. PMID: 18801863
6. Racette SB, **Cade WT**, & Beckman LR. School-Based Physical Activity and Fitness Promotion. *Phys Ther*. 2010 Sep 90(9): 1214-1218. PMID: 20810388

#### Invited Book Chapters

1. **Cade WT** and Yarasheski KE. "HIV". *Encyclopedia of Exercise Medicine in Health and Disease*. Editor: Mooren FC. Berlin Heidelberg: Springer 2012: 410-414.
2. **Cade WT** and Yarasheski KE. "Molecular Aspects of Sarcopenia and Aging". *Principles of Molecular Medicine*. 2006, 2nd Edition. Editors: Runge MS & Patterson WC. Humana Press Inc., Totowa, NJ.
3. **Cade WT**. "Diseases: Exercise Testing and Training Prescription: Human Immunodeficiency Virus". *Exercise Physiology: From a Cellular to an Integrative Approach*. 2010. Editors: Connes P, Hue O, Perrey S. IOS press, Amsterdam.

#### Invited Monographs

1. **Cade WT**. Exercise Considerations for the Patient with Diabetes. American Physical Therapy Association, Orthopedic Section, 2009.

#### Abstracts

1. **Cade WT**, Peralta L, Keyser R. Fatigue Severity Score and Index of Functional Aerobic Impairment are Not Related in Adolescents Seropositive for HIV. *J Hum Virol* 1999: 2: 219.
2. **Cade WT**, Peralta L, Keyser R. Predictability of Vigor and Fatigue T Scores of Profile of Mood States (POMS) to Functional Aerobic Impairment in Adolescents with HIV Seropositivity. *APTA Combined Sections Meeting*, New Orleans, LA, 2000.
3. **Cade WT**, Peralta L, Keyser R. Oxygen Pulse in Adolescents Seropositive For HIV Versus Control During Maximal Exercise Testing. *Med Sci Sport Exer* Suppl. 2000: 32.
4. **Cade WT**, Alexander C, Keyser RE. Functional Aerobic Impairment in Adults with HIV Seropositivity: A Pilot Study. *Med Sci Sport Exer* Suppl. 2001: 54.
5. **Cade WT**, Fantry LE, Nabar SR, Keyser RE. Attenuated Peak Tissue Oxygen Extraction in Individuals Infected With HIV. *Med Sci Sport Exer* Suppl. 2002: 34: S135.
6. **Cade WT**, Fantry LE, Nabar SR, Keyser RE. A Comparison of Cardiac Output and Arteriovenous Oxygen Difference in Individuals Taking and Not Taking Antiretroviral Therapy. *Antiviral Therapy* 2002: 7: L10.
7. Nabar SR, **Cade, WT**, Handwerger BS, Keyser RE. Normalization of  $\Delta V O_2$  to a Mean Response Time is a Robust Indicator of the Oxygen On-Transient in Individuals with Muscle Oxygen Extraction Limitations. *Med Sci Sport Exer* 2004: 36: S233.
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12. Goeble-Hoffman S, Reeds DN, Mondy K, Lassa-Claxton S, Yarasheski KE, **Cade WT**. Evaluation of Indirect Measures of Insulin Resistance in HIV-Positive Patients. *Diabetes* 2007; 56: A681.
13. Spencer-Taylor C, Bryant R, Byrne BJ, Margossian R, Heal E, & **Cade WT**. Impaired Skeletal Muscle Oxygen Utilization Contributes to Exercise Intolerance in Barth Syndrome. American Heart Association National Meeting, Orlando, FL. 12/2007.
14. **Cade WT**, Reeds DN, Herrero P, Lassa-Claxton S, Gropler RJ, Peterson LR & Yarasheski KE. Effect of Pioglitazone on Myocardial Glucose and Palmitate Metabolism in HIV-Associated Metabolic Syndrome: A Preliminary Report. *Antiviral Therapy*, 2008, 13 Suppl. 4: A53.
15. **Cade WT**, de las Fuentes L, Mondy K, Reeds DN, Davila-Roman V, Waggoner A, Herrero P, Lassa-Claxton S, Yarasheski KE and Peterson LR. A Comparison of Cardiac Function Between HIV-infected and HIV-Seronegative People With and Without The Metabolic Syndrome. *Antiviral Therapy*, 2008, 13 Suppl. 4: A61.
16. **Cade WT**, Reeds DN, Herrero P, Lassa-Claxton S, Gropler RJ, Peterson LR & Yarasheski KE. Impaired Myocardial Glucose Metabolism in HIV. *Antiviral Therapy*, 2008, 13 Suppl. 4: A17.
17. **Cade WT**, Holland MR, Stephens AS, Reeds DN, Laciny DN, Cilbuka N, Overton ET, & Singh GK. Decreased Myocardial Longitudinal Strain in HIV-Negative Neonates Exposed to HIV and HAART *in Utero*. *Antiviral Therapy*, 2009: 14, Suppl.2.
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19. Tuttle LJ, Sinacore DR, **Cade WT**, Mueller MJ. Average Step Count is Associated with Intermuscular Adipose Tissue in People with Diabetes and Peripheral Neuropathy. *American Physical Therapy Association, Combined Sections Meeting, 2011*.
20. **Cade WT**, Waggoner AD, Hubert S, Krauss MJ, Singh GK, & Overton ET. Lower Diastolic Function and Left Ventricular Mass Index in HIV<sup>-</sup> Pre-adolescent Children Exposed to ART *in Utero*. *Conference for Retroviruses and Opportunistic Infections, Seattle, WA, 2012, #1034*.
21. Levy PT, Holland MR, Sekarski TJ, **Cade WT**, Cahill AG, Hamvas A, Sing GK. Maturational Changes in Myocardial Mechanics During the First Month of Life in Healthy term Neonates. *American Heart Association Scientific Sessions, Dallas, TX, 11/2013*.
22. Bashir A, Bohnert K, Reeds DN, Peterson LR, Tinius RA, de las Fuentes L, Byrne BJ, & **Cade WT**. Impaired myocardial energetics (PCr/ATP) in children with Barth syndrome: a 31P MRS study. *Presented at the Society for Heart and Vascular Metabolism Conference, Cambridge, MD, 9/30/2013*.
23. Bashir A, Bohnert K, Reeds DN, Peterson LR, Tinius RA, Byrne BJ, & **Cade WT**. Impaired skeletal muscle oxidative metabolism in Barth syndrome: a 31P MRS study. *Society for Heart and Vascular Metabolism Conference, Cambridge, MD, 9/30/2013*.
24. Levy PT, Holland MR, Sekarski TJ, **Cade WT**, Cahill A, Hamvas A Singh GK. Maturational changes of Right and Left Ventricular Longitudinal Strain in Healthy Term infants. *Circulation*. 2013;128:A9578 *American Heart Association, Moderated Poster presentation 11/ 2013*.
25. Blanner P, Neilson A, Martinez R, & **Cade WT**. Generation of Induced Pluripotent Stem Cells From Urine for the Study of Barth Syndrome. *International Society for Stem Cell Research 12<sup>th</sup> Annual Meeting, Vancouver, BC, 6/19, 2014*.
26. Bittel AJ, Bittel DC, Tuttle LJ, Hastings MK, **Cade WT**, & Sinacore DR. Calf Muscle and Compartmental Intermuscular Adipose Tissue (IMAT) Accumulation in Obese, Type 2 Diabetes Mellitus and Peripheral Neuropathy: Relationship to Physical Function. *APTA Combined Sections Meeting, Indianapolis, IN, 2/2015*.

27. Bittel AJ, Bittel DC, Tuttle LJ, Hastings MK, **Cade WT**, & Sinacore DR. Critical values of leg intermuscular adipose tissue, plantar flexor strength, and stair power to differentiate individuals with sarcopenia and obese Type 2 DM. *APTA Combined Sections Meeting, Indianapolis, IN, 2/2015*.
28. Bittel AJ, Bittel DC, Tuttle LJ, Hastings MK, Mueller, MJ, **Cade, WT**, & Sinacore, DR. Thresholds of leg muscle composition, performance, and physical function as indicators of sarcopenia diabetes. *APTA Combined Sections Meeting, Indianapolis, IN, 2/2015*.
29. Cahill AG, Tinius RA, Roehl K, & **Cade WT**. Metabolic Abnormalities in Insulin-Resistant Pregnancies: Beyond Glucose. *AJOG*, 2015, 212: S21-22.
30. **Cade WT**, Bohnert KL, Reeds DN, Peterson LR, Tinius RA, Bittel AJ, Bittel DC, de las Fuentes L, Byrne BJ & Bashir A. Impaired cardio-skeletal muscle energetics in children with Barth syndrome: a <sup>31</sup>P MRS study. Accepted for the 2015 *American Physiological Society Conference Physiological Bioenergetics: From Bench to Bedside, Tampa, FL, 9/9-12, 2015*.
31. **Cade WT**, Laforest R, Dence C, Kisrieva-Ware Z, Bohnert KL, Reeds DN, Robert J. Gropler RJ & Peterson LR. Myocardial fatty acid, glucose and leucine metabolism in Barth Syndrome: a Preliminary Report. *Society for Heart and Vascular Metabolism Conference, Tarrytown, NY, 10/2015*.
32. Yoshino M, Bittel A, Bittel D, Holloszy J, Reeds DN, Stein R, **Cade WT**, Sinacore DR, Patterson BW & Klein S. Effective intensive lifestyle therapy for people with obesity and type 2 diabetes can be provided in a worksite setting. *2015 Obesity Society Meeting, Los Angeles, CA*.
33. **Cade WT**, Tinius RA, Reeds DN, & Cahill AG. Long-Chain Ceramides in Women with Metabolic Abnormalities: a Possible Mechanistic Explanation for Off-Spring Risk for Insulin Resistance. Submitted to the Society for Maternal-Fetal Medicine, 2016 Conference.

#### **COMMUNITY SERVICE**

2003-present	The Journey Church (Tower Grove Campus), St. Louis, Missouri
2004-2012	Deacon
2004-2007	Community Group (Leader)
2009-2012	Response Team (Member)
2009-2012	Benevolence Team (Head)
2009-present	Journey Kids (Member)