Background

The Center for Children’s Healthy Lifestyles & Nutrition seeks to become a leading voice in the local, regional and national movement to prevent and treat childhood obesity. As a research center, our primary goal is to contribute new knowledge regarding pediatric obesity and nutrition ranging in scope from its biological origins to its societal impact. Research currently conducted in the Center includes evidence-based, comprehensive studies of the assessment of behavior, nutrition and physical activity interventions on prevention and treatment, the development and analysis of public policy pertaining to pediatric obesity, the development of programs to engage communities, and the provision of leadership regarding education related to obesity prevention and treatment. Future directions for research will include relevant genomics pertaining to obesity and its association with secondary disease processes and the impact of chronic over- and under-nutrition on drug disposition and action. We are committed to reaching all children in our area, especially those in underserved, ethnic minority, low-income communities, and in assisting others to do so.

Kansas City's Center for Children’s Healthy Lifestyles & Nutrition represents an extension of the committed collaboration in the area of pediatric obesity research between two neighboring institutions who serve the health needs of children across the bi-state region of Missouri and Kansas. Supported by a state-of-the-art facility, researchers at the University of Kansas Medical Center and the Children’s Mercy Hospital lead a wide range of childhood obesity treatment and prevention initiatives designed to benefit children, families and communities. The Center is poised to serve as a leader for pediatric obesity research in the Midwest and as a centralized resource for community members, academic and business leaders who are interested in arresting the current rates of childhood obesity and moving forward to ensure the healthy lifestyles and nutrition of all children.

Facilities

The Center for Children’s Healthy Lifestyles & Nutrition is located at 610 E 22nd Street in Kansas City, Missouri at the Donald Chisholm Center. It is a 14,000 square foot facility designed to support clinical and bench research, individual clinical and group educational interventions and house faculty and research staff. The Center’s 800 square foot demonstration kitchen features four prep stations, each with a GE Profile refrigerator and microwave. The kitchen contains four oven/stove/exhaust hood combinations and two dishwashers. The 500 square foot
wet lab features extensive countertop space, an exhaust hood and a -80 degree freezer. Testing rooms contain an indirect calorimeter, treadmill and DEXA. Clinical exam rooms and a waiting room are also available. The Center’s 2400 square foot exercise facility features treadmills, stationary bicycles, elliptical trainers and weight machines, and has a large area for group physical activity. Locker rooms, showers and laundry facilities are also available. The Center provides conference room facilities for 10-50 attendees, and a second room that can seat up to 50.

**Scientific Advisory Board**

**Sean Adams, PhD**
Director, Department of Pediatrics  
Section of Developmental Nutrition  
University of Arkansas for Medical Sciences

The Arkansas Children's Nutrition Center, a partnership of the Arkansas Children's Hospital and the USDA-Agricultural Research Service, is a translational research center that studies child development, especially the very early effects of diet and lifestyle on prevention of childhood diseases and adult diseases that initiate early in life. Dr. Adams' research interests are in the area of metabolic physiology.

**Katherine K. Christoffel, MD, MPH**
Professor Emeritus in Pediatrics-Smith Child Health Research  
Northwestern University Feinberg School of Medicine

Dr. Christoffel's current research interests lie in 1) understanding the relationship between community factors and clinical ones, particularly related to childhood obesity; 2) early origins of childhood obesity; 3) means to intervene to reduce obesity and its co-morbidities in young children; 4) the effects of community based interventions on obesity prevalence and health behaviors.

**Denise Wilfley, PhD**
Professor, Depts. of Psychiatry, Medicine, Pediatrics and Psychology  
Washington University in St. Louis

Dr. Wilfley's program of research centers on the causes, prevention, and treatment of eating disorders and obesity among children, adolescents, and adults. Current programs of research include: (1) the classification, characterization, assessment, and risk factors of eating and weight disorders; (2) the development of effective treatments for individuals suffering from eating disorders and obesity; and (3) the development of innovative and cost-effective methods for early intervention and prevention of eating disorders and obesity.

**Faculty/Staff**

**Center Leadership**

**Ann Davis, PhD, MPH, ABPP**
Center Director  
Dr. Ann Davis is a professor and pediatric psychologist who is passionate about the intersection between behavioral principles and eating/nutrition. The core of her work focuses on pediatric obesity in urban and rural children, and is treatment outcome focused. She is also interested in
behavioral principles as they apply to young children who do not eat enough to sustain a healthy weight.

**Brooke Sweeney, MD, FAAP**  
*Center Medical Director*

Dr. Brooke Sweeney is a combined internal medicine/pediatric physician and the medical director of weight management services at Children’s Mercy Kansas City. Her clinical expertise is in prevention and treatment of chronic disease, weight management, and clinical care for children with obesity. Her research interests include improving the effectiveness of weight management clinics, transitional care, and using a national registry to improve pediatric weight management.

**Meredith Dreyer, PhD**  
*Center Associate Director*

Dr. Meredith Dreyer is a pediatric psychologist at Children’s Mercy Kansas City and associate professor of pediatrics at the University of Missouri-Kansas City School of Medicine. She works primarily in the treatment and prevention of childhood obesity, with a special emphasis on the challenges that are encountered among parents of young children and those with special needs such as Autism Spectrum Disorders or Down Syndrome.

**Center Members**

Dr. Amy Beck is a clinical psychologist at Children’s Mercy Kansas City and an assistant professor of pediatrics at the University of Missouri-Kansas City School of Medicine. Dr. Beck primarily provides psychological services for families involved in multidisciplinary weight management treatment. She is particularly interested in the impact of psychosocial factors in the etiology and maintenance of pediatric obesity.

Dr. Charles Barnes is a basic science researcher and the director of the Allergy, Asthma, Immunology Research Laboratory at Children’s Mercy Kansas City. His research interests revolve around factors that contribute to allergy and asthma in the pediatric population. He has a 25-year history of identifying protein allergens and studying their prevalence in the environment. Currently he is interested in how these proteins lead to the chronic inflammatory state that associates with asthma and the impact of obesity, and the cytokines produced by adipose tissue, on pediatric asthma.

Andrea Bradley-Ewing is the Director of Community Engaged Research in the division of Health Services and Outcomes Research at Children’s Mercy Kansas City. Ms. Bradley-Ewing’s is primarily interested in engaging patients and members of the community in the design, development, implementation, and dissemination of health science research. Ms. Bradley Ewing has collaborated extensively with researchers, health care providers, patients and families, and community organizations to develop and test effective individual and community level strategies to promote health behavior change, particularly in underserved communities. Ms. Bradley-Ewing’s current research involves establishing partnership networks between academic health researchers, patients, and community members to improve health outcomes.

Dr. Amanda Bruce is an associate professor at the University of Kansas Medical Center and a pediatric obesity researcher. She uses functional neuroimaging (fMRI) to conduct research on how the brain is involved in childhood obesity. She is also interested in the ability to delay gratification and how this contributes to obesity.
Dr. Jordan Carlson is Director of Community-Engaged Health Research at Children's Mercy Kansas City and assistant professor of pediatrics at the University of Missouri-Kansas City School of Medicine. His research interests include active living, school-based physical activity, neighborhood walkability, improving uptake and implementation of physical activity interventions, and physical activity measurement technology.

Dr. Mark Connelly is an associate professor of pediatrics at the University of Missouri-Kansas City School of Medicine and a clinical psychologist at Children's Mercy Kansas City, where he is the Director of Pain Research for Comprehensive Pain Management and Co-Director of the Comprehensive Headache Clinic. Dr. Connelly's research interests center on the assessment and management of pain in children, with a specific focus on the integration of eHealth and mHealth technologies into chronic pain assessment and treatment.

Dr. Christopher Cushing is a faculty member in the clinical child psychology program at the University of Kansas. He is interested in sleep, diet, and physical activity. Specifically, he uses smartphones and body sensors as well as laboratory tasks to study the impact of these behaviors on children's mood, cognition, and social functioning.

Dr. Leon Greene is a faculty member in the Health, Sport, and Exercise Sciences Department at the University of Kansas. During the last 10 years, he has been involved with research projects involving school age children that studied nutrition and physical activity intervention programs as well as examining the relationship of physical activity to academic achievement. He has trained a number of educators on how to use physical activity to deliver academic lessons.

Dr. Sarah Hampl is a member of the Section of General Pediatrics at Children's Mercy Kansas City. She is an associate professor of pediatrics at the University of Missouri-Kansas City School of Medicine. Dr. Hampl works in the areas of childhood obesity treatment, prevention, healthcare professional education and community and statewide advocacy.

Dr. Christina Hester is Assistant Director for Research, Residency Program, Department of Family Medicine, at the University of Kansas Medical Center. Her clinical and research focus is medically underserved children and families, particularly immigrants and refugees.

Dr. Cara Hoffart is a pediatric rheumatologist at Children’s Mercy Kansas City and assistant professor of pediatrics at the University of Missouri-Kansas City. Dr. Hoffart specializes in pediatric pain amplification syndromes.

Dr. Kelly Kreisler is a general pediatrician with extensive experience in the safety net system of medical care. She is an assistant professor at the University of Kansas Medical Center, where her clinical and research focus is medically underserved children and families, particularly immigrants and refugees.

Dr. Jennifer Lundgren is chair of the Psychology Department and director of the Eating, Sleep and Circadian Rhythm Laboratory at the University of Missouri – Kansas City. Her primary area of research is on night eating syndrome (NES). She is currently collaborating on a longitudinal family study of NES among children and parents enrolled in QUALITY (QUebec Adiposity and Lifestyle InvestIgation in Youth), a study on the prevention of cardiovascular disease and type 2 diabetes in children and adolescents.

Christina Pacheco is Director of the Great Lakes Inter-Tribal Epidemiology Center in Lac du Flambeau, Wisconsin. She received her Juris Doctor from William Mitchell College of Law in
Saint Paul, MN, and her master’s in public health from the University of Kansas Medical Center. She has been involved in community outreach with American Indian populations for more than 10 years. Her research interests include tobacco control, access to quality affordable care, environmental health and public health policy, all aimed at addressing health disparities among underserved populations.

Dr. Susana Patton is a pediatric psychologist at the University of Kansas Medical Center. Her research focuses on the promotion of health and the prevention of disease-related complications through diet, a healthy lifestyle, and improved adherence to medical treatment for children living with chronic illness. The core of her work centers on children with type 1 diabetes mellitus and she is conducting both treatment outcome and descriptive studies. Dr. Patton is also interested in child eating behaviors as they relate to child nutrition and overweight and she has an interest in research related to the treatment of common childhood digestive problems, including constipation.

Dr. Brenda Salley is a clinical psychologist and assistant professor of pediatrics at the University of Kansas Medical Center and the University of Missouri-Kansas City School of Medicine. Dr. Salley is the Director of the Baby Lab at the University of Kansas Medical Center, which focuses on understanding developmental pathways towards adaptive and healthy outcomes in children. She is particularly interested in the early cognitive and communication development of young children and how the social world can impact learning in these areas.

Dr. Jane Sosland is a clinical associate professor at the University of Kansas Medical Center and a member of the multidisciplinary team for the Healthy Hawks clinic, which serves children and adolescents with obesity. Her clinical interests include evaluation and treatment of anxiety disorders, ADHD, depression children and adolescents.

Dr. Debra Sullivan is department chair of Dietetics and Nutrition at the University of Kansas Medical Center and the Midwest Dairy Council Professor in Clinical Nutrition. Her research focuses on prevention and treatment of obesity and its co-morbid conditions. She also maintains a nutrition assessment laboratory in order to conduct measurement of dietary intake and body composition.

Dr. John Thyfault is an associate professor in the Department of Molecular and Integrative Physiology at the University of Kansas Medical Center where he examines the effect of chronic physical inactivity, sedentary behavior, and low aerobic fitness on the development of chronic disease conditions including obesity, insulin resistance, fatty liver disease, type 2 diabetes, and cardiovascular disease. In contrast, daily physical activity and maintenance of aerobic fitness throughout the lifespan are associated with protection against chronic disease(s). The mechanism(s) underlying the development of these diseases and the role that activity and fitness status play in altering susceptibility remain largely unknown and are the focus of our research. We utilize integrative (multi-tissue and whole body), translational (cells, rodents, humans) approaches to perform studies in these areas with a focus on clinical or human relevance.

Dr. Dustin Wallace is a pediatric psychologist at Children’s Mercy Kansas City and assistant professor of pediatrics at the University of Missouri-Kansas City. Dr. Wallace specializes in pain management, pediatric pain rehabilitation and acceptance based treatment.

Graduate Research Staff
Marcie Berman is a graduate student in the Experimental Health Psychology doctoral program at the University of Missouri-Kansas City. Marcie is primarily interested in the effectiveness of health disparity interventions addressing chronic illness. She is currently evaluating the Healthy Lifestyles Initiative at Children's Mercy.

Kelsey Briggs Borner is a graduate student in the Clinical Child Psychology doctoral program at the University of Kansas. Kelsey is primarily interested in the effectiveness of pediatric obesity interventions for weight-related change, health-related quality of life, and symptoms of mood disorders. Kelsey is currently investigating the relations between physical activity, quality of life, and mood, in the treatment of obesity.

Courtney A Bothwell is a graduate student in the Dietetics and Nutrition program at the University of Kansas Medical Center. Her primary interests in research are children's dietary habits and how they are related to overall diet quality. Courtney is also interested in dietary interventions involving children who face health complications such as overweight/obese, type 1 diabetes, or autism spectrum disorder.

Lindsay Huffhines is a graduate student in the Clinical Child Psychology doctoral program at the University of Kansas. Lindsay is primarily interested in how child maltreatment and trauma result in pediatric health problems such as obesity, diabetes, and cardiovascular disease, and how psychosocial factors can mitigate these effects. Lindsay is currently working on projects examining chronic health conditions in foster youth, childhood adversity and diabetes, and treatment for parents of children with type 1 diabetes.

Genevieve Maliszewski is a Postdoctoral Psychology Fellow at the University of Kansas Medical Center. She specializes in research and clinical work to promote healthy adjustment and medical adherence in children and youth with Type 1 Diabetes Mellitus. Her other clinical interests include pediatric obesity, cystic fibrosis, and working with underserved populations.

Tarrah Mitchell is a doctoral student in the Clinical Child Psychology Program at the University of Kansas. Broadly, her research interests include physical and psychological health promotion in youth, with particular attention to the integration of psychological and social predictors of physical activity and appetitive processes. Tarrah is currently working on projects examining physical activity, sedentary behavior, and health-related quality of life in children and adolescents.

Amy Noser is a doctoral student in the Clinical Child Psychology program at the University of Kansas. Broadly, her research interests include pediatric health promotion and prevention. Specifically, she is interested in how individual differences in self-processes (e.g., motivation, self-efficacy, and self-concept) and behaviors (i.e., diet, physical activity, and sleep) impact the present and long-term health of youth. Amy is currently working on projects examining predictors of glycemic control and adherence in youth with type 1 diabetes mellitus.

Teresa Yeong-Yi Pan is a graduate student in the Clinical Psychology doctoral program at the University of Kansas. Her primary research interests are in common comorbidities that occur
with obesity and eating disorders, such as depression. Teresa's previous work was supported by the University of Kansas's Psychology Strategic Initiative Grant and Doctoral Student Research Fund, and explored cognitive and neural processing of facial size and valence in depression and obesity. Her current work is evaluating the longitudinal relationship between weight and depression in children and adolescents. Teresa also plans to evaluate how behavioral weight loss programs may affect symptoms of depression in parent-child dyads.

Lauren Pollack is a doctoral student in the Clinical Psychology Program at the University of Missouri--Kansas City. Her research interests are broadly related to women’s health, with specific interest in eating disorders. She has worked on a number of projects related to health and eating disorders including intervention studies, measurement development, eating disorder prevention programming in local high schools, and medical provider perceptions of psychological disorders. Her current research focuses on the ability of adolescents with eating disorders to understand emotional information.

Staff

Children's Mercy Hospital

Administrative Assistant
Renée VanErp
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Nurse Manager
Venise Mobley, RN, MSN, CPN
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Faculty Grant Support

KUMC Members

Dr. Amanda Bruce
Completed Research Support
PI: Bruce 3/14 - 2/15
Frontiers Trailblazer Award
Neuroimaging genetic predictors of bariatric surgery success
The goal of this project is to sequence two single nucleotide polymorphisms, DRD2 and COMT, to examine the relationship between genetics and functional magnetic resonance imaging (fMRI) data relevant to impulsivity.

PI: Steele 4/14 - 3/15
Frontiers Clinical and Translational Sciences Award
Impulsivity as a Mechanism to Predict Treatment Outcome in Childhood Obesity
This project examines impulsivity using behavioral measures and functional magnetic resonance imaging (fMRI) using impulsivity as a mechanism of treatment outcomes.

Role: Co-Investigator

PI: Lim 3/14 - 2/15
University of Missouri Research Board
Mechanisms of approach-avoidance decisions in anxiety
The goal of this project is to use functional magnetic resonance imaging (fMRI) to better understand approach and avoidance decisions in adult participants with clinical anxiety.

Role: Co-Investigator  
Total Direct Costs: $50,000

**Proposed Research Support**

PI: Bruce JM Invited-full proposal
National MS Society
Development of a treatment decision model in Multiple Sclerosis
This application applies the economic model approach of probability discounting to explaining risk versus benefit treatment decision making.

Role: Co-Investigator

PI: Gibbs Pending
NIH R21
Choosing Healthy fOod, Observing uSe and mEdiators of (CHOOSE) nutrition literacy
The goal of this project is to examine the factors involved in food choices and nutrition education.

Role: Co-Investigator

PI: Bruce JM 19% percentile
NIH R01 NINR
Motivational Intervention to Improve Treatment Adherence in MS
The goal of this project is to assess whether an intervention based on cognitive-behavioral and motivational interviewing principles can impact multiple sclerosis patients’ adherence to disease modifying therapies.

Role: Co-Investigator

PI: Davis Submitted Oct 2014
NIH R01 NINR
A remote behavioral intervention for children with feeding problems: iKanEat
This research project will assess the effectiveness of a home-based behavioral training program for children with severe feeding problems utilizing real-time telemedicine.

Role: Co-Investigator

PI: Boyland, E (PI) Submitted July 2014
University of Liverpool
Undermining parental control: An examination of neurocognitive influences of food advertisements in children.
This research project will examine both the behavioral and the neurofunctional influences of food advertisements in children using food intake as one outcome measure.

Role: Co-Investigator

**Dr. Ann Davis**
Ongoing Research Support
Waitman (PI) 9/07/15-09/07/18
Patient Centered Outcomes Research Institute
The Greater Plains Collaborative; a PCORnet Clinical Data Research Network
Major Goals: extend the capacity of the research network that captures complete and
comprehensive data from patients at twelve medical centers. Continue governance, regulatory
processes, technical infrastructure, and patient engagement strategies to enable a learning
healthcare system by integrating Comparative Effectiveness Research within clinical
workflows. Develop sustainable model for this digital infrastructure.
Role: Obesity Cohort Site Lead KUMC and CMH

Completed Research Support
PI: Waitman 03/01/2014 – 09/01/2015
PCORI (The National Patient Centered Clinical Research Network)
The Greater Plains Collaborative: a PCORnet Clinical Research Data Network
The purpose of this award is to combine electronic medical record systems from 8-10
midwestern health systems to answer important clinical research questions related to
obesity, ALS and breast cancer.
Role: Site Lead for KUMC and CMH

PI: Steele 3/1/14 - 6/28/15
NIH: Clinical and Translational Science Award
Impulsivity and Neural Mechanisms Predicting Treatment Outcome in Childhood Obesity
The purpose of this award is to use functional magnetic resonance imaging and behavioral
measures to assess overweight and obese children at baseline and model the use of these
variables as predictors for treatment outcome success or failure.
Role: Co-Investigator

PI: Davis 4/23/14 – 10/22/15
Health Care Foundation of Greater Kansas City
A partnership between an obesity program and a primary care organization: Healthy Hawks
at the Turner House Children’s Clinic
The purpose of this award is to test the feasibility and outcomes of a family based behavioral
group treatment program called Healthy Hawks at a safety net clinic in a high need urban
area.

Dr. Kelly Kreisler
Ongoing Research Support
PI: Kreisler 2015 - 2016
Improving ADHD Care Coordination Using a Nurse Led Patient Centered Medical Home Model

Christina Pacheco
Ongoing Research Support
PI: Daley 7/01/14 – 4/30/17
National Institute on Minority Health and Health Disparities
Smokeless Tobacco Cessation among American Indians Using In-person Groups
Role: Investigator

PI: Pacheco 9/01/14 – 8/31/16
Robert Wood Johnson Foundation
Evaluation of tribal college smoking policies
Completed Research Support
PI: Pacheco 4/30/14 - 5/01/15
American Cancer Society Institutional Research Grant
American Indian Comprehension of Informed Consent & Trust in Medical Researchers

Dr. Susana Patton
Ongoing Research Support
NIH R21
Modifiable behaviors & dietary predictors of overweight in children with ASD.

PI: Patton 2014 - 2019
NIH R01
Longitudinal test of adherence & control in kids new to T1 diabetes

PI: Patton 2015 – 2017
NIH: R21
Reducing hypoglycemia fear in parents of young kids with vide-based telemedicine

PI: Patton 2015 – 2019
An interactive mHealth app for better glycemic control in families of young kids with T1D

Dr. Brenda Salley
Ongoing Research Support
PI: Salley 9/25/15 – 7/31/18
NIH (NICHD)
Visual attention, joint attention and emergent language in infancy
Longitudinal examination of the co-development of visual attention and joint attention in infancy and associations with emerging language.

Completed Research Support
PI: Salley (PI) 6/1/13 – 9/24/15
NIH (NICHD)
Visual attention, joint attention and emergent language in infancy
Examines the co-development of infants’ early visual attention regulation and co-emerging preverbal social communication behaviors

Dr. Debra Sullivan
Ongoing Research Support
Co-PIs: Sullivan, Donnelly 9/25/12 – 6/30/16
NIH
A virtual reality intervention (second life) to improve weight maintenance

PI: Barohn 7/01/11 - 6/30/16
NIH
Institutional clinical and translational science award
Role: Nutrition Core Director

PI: Donnelly 4/01/14 – 3/31/19
NIH
Weight management for adolescents with intellectual and developmental disabilities
Role: Co-investigator

PI: Gibbs 7/01/14 – 6/30/16
NIH
Adaptation and validation of a nutrition literacy assessment instrument
Role: Co-investigator

PI: Befort 7/01/10 – 6/30/16
NIH
Group Phone-based weight control among rural breast cancer survivors
Role: Co-investigator

PI: Donnelly 5/04/12 – 4/30/16
NIH
A randomized trial of recommendations for exercise to prevent weight regain
Role: Co-investigator

PI: Savage 4/01/10 – 1/31/16
NIH
Neuroimaging studies of reward impulsivity and adherence to an exercise program
Role: Co-investigator

PI: Donnelly 2/06/11 – 03/31/16
NIH
Physical activity and academic achievement across the curriculum
Role: Co-investigator

**Completed Research Support**

PI: Sullivan 2/01/12 – 12/31/15
KUMC Frontiers
Feasibility of the ketogenic diet in individuals with Alzheimer’s disease.

PI: Donnelly 7/01/10 – 8/31/15
NIH
Weight Loss and maintenance for individuals with intellectual and developmental disabilities
Role: Co-investigator

PI: Goetz 3/01/14 – 8/28/15
KUMC Frontiers
The $ensible weigh: a weight management intervention tailored to low income women
Role: Co-investigator

PI: Hamilton-Reeves 3/01/14 – 8/28/15
KUMC Frontiers
Caloric restriction to reduce prostate cancer risk
Role: Co-investigator

PI: Hull 2/01/14 – 1/31/15
Kansas City Area Life Sciences Institute
Novel methods to prevent excessive gestational weight gain in overweight women
Role: Co-investigator

PI: Hull 8/01/11 – 7/30/15
KUMC Building Interdisciplinary Research Careers in Women’s Health K12 Program
Maternal diet and weight gain during pregnancy and impact on infant body composition
Role: Mentor

Dr. John Thyfault
Ongoing Research Support
PI: Thyfault 4/1/11 – 3/31/16
NIH
Title: Aerobic fitness, mitochondrial dysfunction, and fatty liver disease.

PI: Thyfault
Veterans Affairs Merit Review 10/2/14 – 9/31/18
October 1 2014 to September 31, 2018
Title: Mitochondrial mitophagy in the development and treatment of NAFLD.

PI: Fadel 8/1/14 – 7/31/16
American Heart Association, Midwest Affiliate Grant in Aid
Title: Impaired insulin-stimulated blood flow in diabetic patients: Underlying mechanisms
Role: Co-Investigator

Proposed Research Support
Co-PIs: Thyfault, Neufer 4/1/14 – 3/31/19
NIH RO1HL124960-01
Title: Impact of statin therapy on muscle mitochondrial function and aerobic capacity

Center Members from Children’s Mercy Kansas City, KU-Lawrence, UMKC

Dr. Amy Beck
Ongoing Research Support
PI: Randell 6/15/15 – 6/14/16
Pilot grant awarded from The Center for Children’s Healthy Lifestyles & Nutrition
Role: Co-Investigator

Dr. Charles Barnes
Ongoing Research Support
PI: Kennedy K 10/1/13 - 9/30/16
HUD Healthy Homes Technical Studies
The project involves a series of data collection and analysis tasks and development of an exposure probability model in order to evaluate the relationship between housing hazards and health and to validate this model through a combination of health data analysis and community-based home environmental health assessments.
Role: Research Laboratory Director, Kansas City Home Environmental Assessment Research Taskforce

Proposed Research Support
PI: Daley C. 7/1/16-6/30/21
Healthy Homes to Eliminate ETS Exposure in American Indians
Description: This research proposes to study tobacco use behavior in the American Indian Community. The goal of this study is to develop a Healthy Home Intervention to eliminate exposure to ETS in the homes of American Indians. The multi-level intervention will consist of: 1) culturally-tailored smoking cessation for the individual smoker/s; 2) healthy homes assessment and feedback to the family/household; and 3) ETS and environmental health education to the community.
Role: PI at Children's Mercy Kansas City

Andrea Bradley-Ewing
Ongoing Research Support
PI: Talebizadeh 10/1/15 – 09/30/16
Patient Centered Outcomes Research Institute
Incorporating Genetic Data in PCOR Studies: Building a roadmap for stakeholder engagement
Major goal(s): To develop a stakeholder advisory board to inform future genetic research.
Role: Co-investigator

PI: Goggin (CM) 7/1/14 – 2/29/16
NIMHHD
Assessing HIV Screening in African American Churches
Major Goal(s) a) To test a religiously and culturally-appropriate HIV screening intervention delivered by church leaders using a supportive HIV Tool Kit in African American churches; b) evaluate the role of mediators and moderators related to HIV screening behaviors of church members and community members using church outreach services; and c) conduct a process evaluation to determine intervention exposure, facilitators, barriers, and costs in order to identify essential intervention components.
Role: Research Associate

Completed Research Support
PI: Fitzmaurice (CM) 12/1/13 – 6/30/15
PCORI
The Greater Plains Collaborative
Major goal(s): To establish a network of 10 leading medical centers in seven states committed to a shared vision of improving healthcare delivery through ongoing learning, adoption of evidence based practices, and active research dissemination. The primary goal of this collaborative is to build a data set from electronic medical records that will be sued to contribute to new research in the fields of breast cancer, obesity, and amyotrophic lateral sclerosis (also known as ALS, or Lou Gehrig’s disease).
Role: Site Co-Investigator/ Patient Engagement Coordinator

Dr. Jordan Carlson
Ongoing Research Support
R21 CA194492-01 12/01/15 - 11/30/17
PI: Carlson, J
Title: Ecological Video Analysis for Automated Assessment of Physical Activity (E-VIP)
Details: The goal of this study is to develop and validate novel video analysis algorithms for automated ecological assessment of physical activity in settings. In response to PAR-12-197: Improving Diet and Physical Activity Assessment.
Role: PI

R01 DK106209-01 7/01/15 - 06/30/19
Co-PIs: Allison/Gallo
Title: Neighborhood Environments and Metabolic Health in Hispanics/Latinos
Details: This ancillary study to the Hispanic Community Health Study/Study of Latinos aims to investigate built and social neighborhood environment impacts on cardiometabolic health in Latinos. In response to PAR-12-265: Ancillary Studies to Major Ongoing Clinical Research Studies to Advance Areas of Scientific Interest within the Mission of the NIDDK.
Role: Co-Investigator

L40 renewal 7/01/15 - 6/30/17
Awardee: Carlson
Title: NIH Pediatric Research Student Loan Repayment Program (LRP): Improving Uptake of Evidence-Based Strategies to Increase Physical Activity in Youth
Details: The goal of this project is to utilize implementation science methodology to investigate sustainable and scalable implementation strategies for supporting youth’s physical activity.

Completed Research Support
L40 HL 120007
Awardee: Carlson 7/01/13 - 6/30/15
Title: NIH Pediatric Research Student Loan Repayment Program (LRP): Advancing Evidence on Built Environments and Physical Activity in Youth
Details: The goal of this project is to use existing data to lead three studies on dynamic exposure to built environments using GPS, GIS and accelerometry.
Role: Awardee

T32 HL 79891 4/01/13 - 03/31/15
PI: Criqui
Title: Influences and Endpoints of Physical Activity for Public Health
Details: The goal of this fellowship is to gain training in cardiovascular disease epidemiology and behavioral medicine and advance research on physical activity and chronic disease.
Role: Postdoctoral Fellow

California Endowment Research Grant
PI: Sallis 6/01/13 - 3/31/15
Title: Impacts of Classroom Physical Activity Interventions
Details: The goal of this project is to investigate impacts of classroom physical activity breaks on students' concentration, behavior and amount of physical activity during school.
Role: Co-Investigator

Proposed Research Support
PI: Carlson 7/1/16 – 6/30/18
NIH Implementation Evaluation of Existing Walking School Bus Programs

PI: Carlson 1/1/16 – 12/31/17
Katharine B. Richardson Award
KBR Walking School Bus Implementation Study

Dr. Mark Connelly

Ongoing Research Support
PI: Connelly 7/1/15 – 6/30/17
Agency for Healthcare Research and Quality
Registry-facilitation Dissemination of Mobile Evidence-based Pain Management for Youth with Juvenile Idiopathic Arthritis

PI: Kashikar-Zuck 4/13/15 – 3/31/16
NIH
Randomized Clinical Trial of FIT Teens for Juvenile Fibromyalgia
Role: Site PI/Project Co-investigator

Dr. Christopher Cushing
Ongoing Research Support

**Dr. Christopher Cushing**
**Ongoing Research Support**

PI: Cushing 2/01/15 – 7/31/16
Children’s Mercy Kansas City
*Pathophysiology and Treatment of Pediatric Functional Abdominal Pain.*

CoPIs: Schurman, Cushing 7/1/15 – 7/1/16
Katharine B. Richardson Fund, Children’s Mercy Kansas City
*Precision Medicine in Pediatric Functional Gastrointestinal Disorders: Individualized Assessment for Tailored Treatment.*

**Completed Research Support**

PI: Cushing 1/1/15 – 12/31/15
Society of Pediatric Psychology
*Ecological Momentary Assessment of Affect and Health Behavior.*

PI: Cushing 2/1/15 – 7/31/15
Children’s Mercy Kansas City
*Pathophysiology and Treatment of Pediatric Functional Abdominal Pain.*

**Dr. Meredith Dreyer Gillette**
**Ongoing Research Support**

PI: Dreyer-Gillette M. 11/1/15 – 5/1/17
Healthy Weight Research Network
An Adaptive Research Design to Optimize Weight Management Intervention in Young Children with ASD.

PI: Dreyer-Gillette M. 6/1/15 – 5/31/16
Junior League
PHIT Kids – Healthy Eating

PI: Patton S. 1/1/14 - 12/31/15
NIH
*Modifiable Behavior & Dietary Predictors of Overweight in Children with ASD*
This grant will assess specific mealtime and dietary behaviors that are associated with overweight in youth with ASDs using behavioral coding of mealtime interactions and dietary analysis.
Role: Co-investigator

**Completed Research Support**
PI: Dreyer M. 10/1/12 - 6/30/15
Menorah Legacy Foundation-Philip S. Astrowe Trust Award
Community Partnerships for the Zoom to Health Program
This grant will allow for dissemination of the Zoom to Health Program to YMCA Head Start sites on a pilot study basis.
Role: Co-investigator

Dr. Leon Greene
Ongoing Research Support
PI: Greene 3/6/15 – 2/29/16
NIH
Weight Management for Adolescents with IDD
Co-PIs: Greene, Donnelly 2/6/11 – 3/31/16
NIH
Physical Activity and Academic Achievement (A+PAAC)

Completed Research Support
Co-PIs: Greene, Donnelly 4/1/10 – 3/31/15
NIH
Physical Activity and Academic Achievement (A+PAAC)

Dr. Sarah Hampl
Completed Research Support
PI: Dreyer Gillette 10/1/12 - 6/30/15
Menorah Legacy Foundation
Community Partnership for the Zoom to Health Program
Role: Co-investigator

Dr. Cara Hoffart
Ongoing Research Support
PI: Connelly 6/01/15- 3/31/16
NIH U34
Randomized Clinical Trial of FIT Teens for Juvenile Fibromyalgia
Role: Co-investigator

CoPIs: Hoffart/Wallace 3/01/15 – 3/31/17
Cross Family Foundation Grant
When Sleep Is a Pain

Dr. Jennifer Lundgren
Ongoing Research Support
PI: Lundgren 7/1/14 – 6/30/16
Dept. of Health
Mobilizing Interprofessional Care

PI: Petri 10/1/15 – 9/30/20
US Dept. of Education
UMKC Pathways: Inclusion, Self-Determination and Employment for People with Intellectual Disabilities
Role: Co-PI

**Proposed Research Support**

PI: Petri
US Dept. of Education
UMKC Pathways: Inclusion, Self-Determination and Employment for People with Intellectual Disabilities
Role: Co-PI
Status: Awarded

PI: Lundgren
Dept. of Health
Bright Light Treatment for Night Eating
Status: Declined

PI: Lundgren
American Psychological Foundation
Evaluating Efficacy of Rebel
Status: Declined

**Dr. Brooke Sweeney**

**Ongoing Research Support**

Bhatnagar (PI)
NIH COBRE
Center of Excellence in Diabetes and Obesity Research
The primary objective and the central focus of the Center are to enable, promote, and support scientific research related to the cardiovascular causes and consequences of diabetes and obesity.
Role: Co-investigator of Project I

**Dr. Dustin Wallace**

**Ongoing Research Support**

PI: Cara Hoffart
Cross Family Foundation Grant
When Sleep Is a Pain

**Publications**

**Book Chapters**


Cushing CC. eHealth applications in pediatric psychology. In MC Roberts & RG Steele (Eds.), *Handbook of Pediatric Psychology, 5th ed.* (in press)


**Training Manuals and Reports**


**Peer-reviewed Journals**

*denotes supervision of student-led paper


Crespi JM, Lusk JL, Cherry JBC, Martin LE, McFadden BR, & Bruce AS. Neural Activations Associated with Decision-Time and Choice in a Milk Labeling Experiment. *American Journal of Agricultural Economics*. (in press)


*Francisco AJ, Lim SL, Crespi JM, Bruce JM, Lusk JL, McFadden M, Aupperle RL, & Bruce AS. Are consumers as constrained as hens are confined? Brain activations and behavioral choices after informational influence. *Journal of Agricultural and Food Industrial Organization.* (in press)


McFadden BR, Lusk JL, Crespi JM, Cherry JBC, Martin LE, Aupperle RL, **Bruce AS.** Can neural activation in dorsolateral prefrontal cortex predict responsiveness to information? An application to egg production systems and Proposition 2 advertising. *Plos ONE.* 2015;10(5):e0125243. PMID: 26018592


**Bruce AS,** Lim SL, Smith TR, Cherry JBC, Black WR, Davis AM, & Bruce JM. Apples or Candy? Internal and external influences on children’s food choices. *Appetite.* 2015;93:31-34. PMID:25937512


Brannon EE, Cushing CC, Crick CJ, & Mitchell TB. The promise of wearable sensors and ecological momentary assessment measures for dynamical systems modeling in adolescents: A feasibility and acceptability study. (in revision)

Mitchell TB, Cushing CC, & Amaro CM. Psychometric Properties of the Power of Food Scale in a Community Sample of Preadolescents and Adolescents. (in review)


Reed DD, Kaplan BA, Cushing CC, & Jarmolowicz DP. Delay discounting predicts diabetes risk. (in review)

Canter KS, Roberts MC. & Davis AM. The Role of Health Behaviors and Food Insecurity in Predicting Food Intake in Low-Income Children. Accepted to Children’s Healthcare 9/12/15.


Bruce AS, Lim SL, Smith TR, Cherry JBC, Black WR, Davis AM, & Bruce JM. Apples or Candy? Internal and external influences on children’s food choices. Appetite. 2015;93:31-34. PMID:25937512


Canter KS, Roberts MC. & Davis AM. The Role of Health Behaviors and Food Insecurity in Predicting Food Intake in Low-Income Children. Accepted to Children’s Healthcare 9/12/15.


Nelson E. & Patton SR. Using televideo to deliver individual therapy and pediatric psychology interventions with children. Accepted to the *Journal of Child and Adolescent Psychopharmacology*.

Patton SR, DeLurgio SA, Clements MA. Evaluation of the average daily risk range (ADRR) as a measure of glycemic variability in youths with type 1 diabetes. Accepted to *Diabetes Technology and Therapeutics.*


Currie LM, Tolley EA, Thodosoff JM, Kerling EH, Sullivan DK, Colombo J, Carlson SE. Long chain polyunsaturated fatty acid supplementation in infancy increases length- and weight-for-


Valencia AP, Schappal AE, Matthew Morris E, **Thyfault JP**, Lowe DA, Spangenburg EE. The
presence of the ovary prevents hepatic mitochondrial oxidative stress in young and aged female mice through glutathione peroxidase 1. *Exp Gerontology.* (in press)


**Published Abstracts**


Jara D, Portnoy JM, Dhar M, Barnes C. Comparison of Year Round Outdoor and Indoor Fungal Spore Count in Kansas City. *Journal of Allergy and Clinical Immunology*. 2015;135(2). AB19 Abstract. Impact factor of journal: 12.1


**Posters/Presentations**

* denotes supervision of student-led presentation


Beck AR. Weight bias in the pediatric healthcare setting (2015, July). Keynote oral presentation at the 32nd Annual Pediatric Nursing Conference, Chicago, IL.


Remigo-Baker RA, LaCroix A, Carlson JA, Kerr J, & Allison MA. (2015, March). Walking may be a viable alternative to recreational physical activity for promoting physical and mental
wellbeing among the elderly: the Women’s Health Initiative – San Diego. Poster presentation at the 2015 Annual Meeting of the American Heart Association EPI-NPAM. Baltimore, MD.


*Bellettiere J, Carlson JA, Rosenberg D, et al. (2015, September). Gender and Age Differences in Hourly and Daily Patterns of Sedentary Time in Older Adults Living in Retirement Communities. Poster presentation at the 9th International Conference of Diet and Activity Measurement. Brisbane, Australia.


†Remigo-Baker RA, LaCroix A, Carlson JA, Kerr J, & Allison MA. (2015, March). Walking may be a viable alternative to recreational physical activity for promoting physical and mental wellbeing among the elderly: the Women’s Health Initiative – San Diego. Poster presentation at the 2015 Annual Meeting of the American Heart Association EPI-NPAM. Baltimore, MD.


*Borner KB, Black WR, Dreyer Gillette M, Davis AM, Bruce AS. (2015, November). Parenting Styles, Ethnicity, and Pediatric Obesity Intervention Outcomes. Poster presented at The Obesity Society, Los Angeles, CA.


aged children with severe obesity: NHANES 1999-2012. Poster presented at The Obesity Society annual meeting, Los Angeles, CA.


*Borner K, Black WR, **Dreyer Gillette ML**, Davis A & Bruce, AS. (2015, November). Parenting Styles, Ethnicity and Pediatric Obesity Intervention Outcomes. Poster presented at The Obesity Society annual meeting, Los Angeles, CA.


Hampl SE, Dean KM, Borner KB, et al. (2015, April) Outcomes of Structured Weight Management in Pediatric Tertiary Care poster presentation at the Pediatric Academic Societies Annual Meeting, San Diego, CA.


Hoffart C, (2015, October) Amplified musculoskeletal pain can be such a pain. AAP National Conference, Washington, DC. (invited lecture)

Hoffart C, (2015, June) Amplified Pain Syndromes: Treating pain does not have to be painful. Storemont Vail Grand Rounds, Topeka KS. (invited lecture)


Patton, SR, Driscoll, KA, Barnes, M, & Clements, MA (2015, October). Adherence to insulin pump behaviors among young children with type 1 diabetes (T1D): Opportunities for
intervention. Poster presented at the 41st Annual Conference of the International Society of Pediatrics and Adolescent Diabetes, Brisbane, Australia.


Sweeney B, King E, Rhodes E, et al. (2015, November) Severity of Obesity and Six-Month Outcomes among Youth in Pediatric Weight Management: POWER Retrospective Cohort Study 2009-2010. Poster presented at The Obesity Society annual meeting, Los Angeles, CA.


Thyfault, JP. (2015, August) Statins and Exercise Training. Mitochondrial Physiology, From Organelle to Organism Meeting, Copenhagen, Denmark.
Thyfault, JP. (2015, April) Aerobic fitness, mitochondrial dysfunction and susceptibility for NAFLD. St. Louis University, St. Louis, MO.

Thyfault, JP. (2015, September) Statins negatively impact muscle health. Pharmacology, Toxicology, and Therapeutics Department Seminar. KUMC, Kansas City, KS.


a. Specific topic: Knowledge, attitudes, and pain management practices of physicians, nurse practitioners, and nurses in a pediatric clinic.