

**University of Alabama at Birmingham
School of Medicine Faculty
Curriculum Vitae**

Date: February 26, 2024

PERSONAL INFORMATION

Name: Carrie R. Howell, Ph.D.
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RANK/TITLE

Title: Assistant Professor
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HOSPITAL AND OTHER (NON-ACADEMIC) APPOINTMENTS:

06/2016-11/2019 **Clinical Research Scientist**
Department of Epidemiology and Cancer Control, St. Jude Children's Research Hospital,
Memphis, TN

02/2016-06/2016 **Research Assistant**
Department of Epidemiology and Cancer Control, St. Jude Children's Research Hospital,
Memphis, TN

11/2014-02/2016 **Research Assistant**
PROMIS Pediatric Asthma Study: Department of Epidemiology and Cancer Control, St.
Jude Children's Research Hospital, Memphis, TN

05/2013-08/2014 **Graduate Assistant**
Harvest for Health Study: Department of Nutrition Sciences, University of Alabama at
Birmingham, Birmingham, AL

07/2008-07/2012 **Manager of Clinical Research Operations**
Department of Epidemiology and Cancer Control, St. Jude Children's Research Hospital,
Memphis, TN

03/2007-07/2008 **Community Health Specialist**
Department of Epidemiology and Cancer Control, St. Jude Children's Research Hospital,
Memphis, TN

09/2005-02/2007 **Project Director**
The Center for Health Promotion and Evaluation, Department of Psychology, The
University of Memphis, Memphis, TN

08/2004-05/2005 **Counseling Intern**
Exchange Club Family Center, Memphis, TN

01/2003-08/2004 **Assistant to the Dean**
Department of Residence Life, The University of Memphis, Memphis, TN

08/2002-07/2003 **Full Time Member**
AmeriCorps Program, Exchange Club Family Center, Memphis, TN

05/1998-02/2001 **Lab Coordinator**
Civitan Research Center, University of Alabama at Birmingham, Birmingham, AL

05/1997-05/1998 **Psychology Research Assistant**
University of Alabama at Birmingham, Birmingham, AL

EDUCATION:

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
2012-2015	PhD, Health Behavior	University of Alabama at Birmingham, Birmingham, AL
2003-2005	MS, Counseling	The University of Memphis, Memphis, TN
1994-1998	BS, Psychology	University of Alabama at Birmingham, Birmingham, AL

ADADEMIC APPOINTMENTS:

<u>Year</u>	<u>Rank/Title</u>	<u>Institution</u>
2022	Assistant Professor, Tenure Track	University of Alabama at Birmingham, Department of Medicine / Division of Preventive Medicine, Birmingham, AL
2019-2022	Faculty Instructor	University of Alabama at Birmingham, Department of Medicine / Division of Preventive Medicine, Birmingham, AL

SECONDARY/CENTER APPOINTMENTS:

2020-Present	Associate Scientist, Nutrition Obesity Research Center (NORC), UAB
2020-Present	Scientist, Diabetes Research Center (DRC), UAB
2021-Present	Associate Scientist, Center for Clinical and Translational Science (CCTS), UAB
2021-Present	Scientist, Center for Outcomes Effectiveness Research and Education (COERE), UAB
2021-Present	Associate Scientist, Minority Health & Health Disparities Research Center (MHRC), UAB
2022-Present	Member, Social Determinants of Health Core, Forge Ahead Center, UAB
2023-Present	Member, Investigator Development Core, Forge Ahead Center

TRAINING AND CERTIFICATIONS:

2022-2023	Health Disparities Research Education Program Certificate, UAB Minority Health & Health Equity Research Center (MHERC), Heersink School of Medicine Program sponsorship: Obesity Health Disparities Research Center, NIMHD
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AWARDS/HONORS:

2022-2023	CARES at UAB funding recipient, Doris Duke Fund to Retain Clinical Scientists program
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2019-2021	National Institutes of Health Pediatric Loan Repayment Program, National Cancer Institute
2016	Selected for membership in the national public health honor society, Delta Omega
2014-2015	Tuition Scholarship, Department of Health Behavior, School of Public Health, University of Alabama at Birmingham
2012-2013	Tuition Scholarship, Department of Health Behavior, School of Public Health, University of Alabama at Birmingham
2012-2013	Pre-Doctoral Fellowship, Department of Health Behavior, School of Public Health, University of Alabama at Birmingham
1994-1998	S. Richardson Hill Full Tuition Scholarship, University of Alabama at Birmingham

PROFESSIONAL SOCIETIES:

2021-Present	Society of Behavioral Medicine
2021-Present	American Heart Association
2015-Present	The Obesity Society
2015-Present	Sedentary Behaviour Research Network
2017-2020	American Society of Clinical Oncology
2004-2008	Chi Sigma Iota, Professional Counseling Honor Society
2005-2008	American Counseling Association

COUNCILS AND COMMITTEES:

2004-2005	Chi Sigma Iota, Counseling Honor Society, Membership Chair
2006-2006	Chi Sigma Iota, Counseling Honor Society, Secretary
2023	UAB Department of Medicine Task Force for Wellness committee
2023	DRC Translational and SDoH Core Special Interest Group

SERVICE:

Grant Reviews

2023	Center for Scientific Review, Special Emphasis Panel, National Institutes of Health - National Institute of Environmental Health Sciences
2023	Social Determinants of Health (SDoH) and Cancer Outcomes Pilot Program
2023	CCTS Partner Network Pilot Program
2022	SBM abstract reviewer
2020	CCTS Partner Network Pilot Program

Ad Hoc Invited Manuscript Reviews

2016, 2019-2023	Obesity Journal
2015	Quality of Life Research
2017, 2018, 2022	Preventing Chronic Disease
2017	International Social Science Journal
2017	Journal of Immigrant and Minority Health
2017, 2022	Scientific Reports
2018-2023	Pediatric Blood and Cancer
2019	Pediatric Hematology and Oncology
2019	Pediatrics
2019, 2022	Clinical Obesity
2019	Archives of Gerontology and Geriatrics
2019	Integrative Cancer Therapies
2020	Psycho-Oncology

2020	JACC: Journal of the American College of Cardiology
2021, 2022	Sleep Health
2021	Health Education and Behavior
2021	International Journal of Cancer
2021, 2022	Journal of Advanced Nursing
2021	Journal of the National Cancer Institute
2022	JNCI: Cancer Spectrum
2022	Plos One
2022	Open Heart
2022	Field Methods
2022	Cancer Epidemiology, Biomarkers and Prevention
2022	Medicine
2022	Clinical Endocrinology
2023	Behavioral Sciences
2023	Journal of the American Heart Association
2023	Journal of Clinical Medicine
2023	Stroke
2023	Diabetes Care

MAJOR RESEARCH INTERESTS:

I am a health disparities researcher whose independent research focuses on using population health methodologies to explore how social determinants, particularly neighborhood level determinants, influence cardiometabolic abnormalities and disparities. I am specifically interested in integrating clinical, social determinant and health behavior data to inform the prevention of cardiometabolic disease to reduce health disparities among socially vulnerable, low SES populations. This includes incorporating SDoH data into risk prediction models to aide in stratifying populations based on both social and clinical parameters as well as exploring how social risks cluster within individuals. The end goal is to use this information to inform clinical care and intervention targets. Current cardiometabolic-related studies include (1) evaluating adding SDoH measures to a validated diabetes risk prediction model to improve risk stratification; (2) examining associations between clinical markers, individual and neighborhood level SDoH and major cardiovascular events; (3) conducting a mixed methods study in emerging Latino communities to examine the influence of community-level factors and of the COVID-19 pandemic on diabetes-related behaviors; and (4) using patient reported electronic medical record (EMR) data to examine social risk clusters associated with diabetes and obesity.

TEACHING EXPERIENCE:

1995-1998	Tutor, College Athletic Department, University of Alabama at Birmingham
2002	Facilitator, Court ordered Parenting Class, The Exchange Club Family Center
2004	Co-facilitator, Course title: Leadership 201, The University of Memphis
2019	Epidemiology in Public Health, St. Jude Children's Research Hospital Graduate School

Mentoring

2023- Shiori Tanaka, PhD – post-doctoral fellow

Student Mentoring

2021-	Emily Harrison, Medical Student, School of Medicine, University of Alabama at Birmingham, Project Title: Social determinants of health and diabetes distress in adults with type 2 diabetes covered by Alabama Medicaid
2021-	Li Zhang, Doctoral student, Department of Biostatistics, School of Public Health, University of Alabama at Birmingham, Dissertation Title: TBD; *served on dissertation as committee member

- 2021- Shanquela Williams, Doctoral student, Department of Health Behavior, School of Public Health, University of Alabama at Birmingham, Project Title: Associations Between Hba1c, Area Level Social Vulnerability, and Poor COVID-19 Outcomes, Dissertation Title: The Influence of Economic Disadvantage on Health and Wellbeing of Youth Transitioning to Adulthood *served on dissertation as committee member
- 2020-2021 Leeann Carmichael and Lisa Walters, Doctor of Nursing Practice, School of Nursing, University of Alabama at Birmingham, Project Title: Risk Stratified Acuity-Based Scheduling in Cancer Survivorship, Committee Member
- 2019 Divya Srivastava, Pediatric Oncology Education intern, St. Jude Children's Research Hospital, Project Title: Autonomic dysfunction in survivors of childhood cancer treated with chest radiation and anthracyclines, Analytical Mentor
- 2019 Aynsley Hartney, Pediatric Oncology Education intern, St. Jude Children's Research Hospital, Project Title: Association between p16 and abnormal body composition in survivors with frailty, Analytical Mentor
- 2018-2019 Matthew Krull, Master's in Epidemiology, The University of Memphis, Thesis title: Impact of resistance training and-protein supplementation on lean muscle mass in adult survivors of childhood cancer survivors engaged in resistance training, Analytical Mentor
- 2018 Naziyya Haque, Pediatric Oncology Education intern, St. Jude Children's Research Hospital, Project Title: Inflammation and Frailty in Childhood Cancer Survivors and NHANES controls, Analytical Mentor
- 2018 Emily Zumbro, MS, Pediatric Oncology Education intern, St. Jude Children's Research Hospital, Project Title: Association between p16 and Frailty in Adult Survivors of Pediatric Cancer, Analytical Mentor
- 2017-2019 Hannah Williams, Master of Public Health, The University of Memphis, Thesis title: Diabetes among adult survivors of childhood Acute Lymphoblastic Leukemia, Analytical Mentor
- 2017-2018 Matt Wogksch, MS, Epidemiology Doctoral Student, The University of Memphis, Manuscript title: Physical Fitness in survivors of childhood Hodgkin Lymphoma: report from the St. Jude Lifetime Cohort, Analytical Mentor
- 2016 Leslie Jones, Master of Public Health, The University of Memphis, Thesis title: Reduced Walking Efficiency: Body Composition and Energy Imbalance in Adult Survivors of Acute Lymphoblastic Leukemia

GRANT SUPPORT:

Current

- AWD-000543345 (Howell), ADA 01/01/2024-06/29/2024
A Strategic Approach to Advancing Health Equity for Priority Populations with or at Risk Diabetes
Role: Principal Investigator
- 1K01MD017270 (Howell), NIMHD 06/26/2022-03/31/2026
Harnessing social determinant of health data to identify and engage high risk, socially vulnerable populations for diabetes prevention

Major Goals: The goals of this K01 proposal are to: (1) evaluate the addition of SDoH to a validated diabetes risk prediction model — the cardiometabolic disease staging (CMDS) — to determine improvement of risk classification in two population-based cohorts; (2) determine the prevalence of adults at high-risk for diabetes, both clinically and socially, in the UAB Health System using risk stratification; and (3) identify strategies to engage high-risk, socially vulnerable individuals in diabetes prevention using stakeholder engagement.

Role: Principal Investigator

- National CDTR/DRC P&F Award (Salvo, Howell), NIDDK 05/01/2022-04/30/2024
Context matters: harnessing the CDTR/DRC network to examine the influence of community-level factors and of the COVID-19 pandemic on diabetes-related behaviors in emerging Latino communities
Major Goals: We will conduct a 2-year mixed methods pilot and feasibility study in select emerging Latino communities of Missouri and Alabama to examine the influence of community-level factors and of the COVID-19 pandemic on diabetes-related behaviors. We will further seek to establish a formal collaborative network involving multiple CDTR/DRC researchers across the US, to help advance research focused on diabetes prevention and management in emerging Latino communities across the countries, where health disparities have been recently exacerbated by the COVID-19 pandemic.
Role: Co-Principal Investigator
- Career Development Award (Howell), AHA 04/01/2022-03/31/2025
Assessing Populations at High Risk for Major Cardiac Events using Social Determinant and Cardiometabolic data (AT-RISC)
Major Goals: We will build upon prior work using the cardiometabolic disease staging (CMDS) by seeking to examine the ability of the CMDS to predict major adverse cardiovascular events (MACE); integrating individual and neighborhood level SDoH data into the risk prediction model to assess model improvement; and applying final models to local health system EMR data to determine the prevalence and describe clinical and SDoH characteristics of adults at high-risk for MACE in our local catchment area.
Role: Principal Investigator
- 3U19AI142737-04S1 (Lund), NIAID 08/05/2022 – 06/30/2023
Cooperative Centers on Human Immunology: Tissue and organ specific human B cell immunity: Supplement – Metabolic Risk Factors and Inflammation in PASC Development
Major Goals: The goal of this proposal is assess whether specific health factors, including obesity, cardiometabolic syndrome or diabetes, alter the immune system response to SARS-CoV-2 and increase the risk of developing PASC.
Role: Co-investigator
- P50 MD017338 (Cherrington), NIMHD 09/24/2021-06/30/2026
Deep South Center to Reduce Disparities in Chronic Diseases
Major Goals: The mission of the Deep South Center to Reduce Disparities in Chronic Diseases is to promote health equity and reduce the burden of cardiometabolic diseases across the Deep South. The center specifically focuses on the prevention, treatment and management of cardiometabolic diseases, including obesity, diabetes, and hypertension, associated with health disparities in Alabama, Mississippi, and Louisiana.
Role: Co-investigator
- 1 U54 CA280770-01 (Pisu, Fouad) 07/01/2023-06/30/2028
Center for Cancer Control in Persistent Poverty Areas (C3P2)
Major Goals: In collaboration with residents and representatives of communities living in Persistent Poverty in Alabama, C3P2 will build a research program and build research capacity to improve cancer prevention and control in these communities.
Role: Co-investigator

Submitted, Pending

- UM1TR004771 (Gutierrez, Kimberly & Delafontaine), NIC / NCATS 05/01/2025 – 04/2031
CTSA UM1 at the University of Alabama at Birmingham (Center for Clinical and Translational Science)
Major Goals: The Center for Clinical and Translational Science (CCTS) and its tristate Partner Network of eleven institutions in the Deep South are dedicated to improving health and advancing health equity in a region disproportionately burdened by chronic diseases. The Center will expand its diverse, highly-trained clinical and translational research workforce, assembling faculty, trainees, clinical research professionals and community stakeholders to create collaborative synergies in clinical and translational science research, to catalyze team science-driven investigation into new therapies and health care delivery paradigms and to enhance the dissemination and implementation of evidence-based knowledge toward health impact. This work will complement and inform translational research efforts to improve public health locally, regionally and beyond as the CCTS remains poised to serve as a national resource for responding to current and future public health emergencies.
Role: Co-investigator

Past

- UAB Diabetes Research Center Pilot Grant (Howell) 09/01/2021-05/31/2023
Social determinant of health (SDoH) clusters and type 2 diabetes: harnessing data to develop targeted interventions
Major Goals: This pilot will seek to identify SDoH clusters using electronic medical record and neighborhood level data, and assess the cross sectional relationship between cluster membership and diabetes status at the clinical encounter.
Role: Principal Investigator
- U01DP006302 (Carson), CDC 09/01/2021-09/30/2022
Prioritizing County-Level Social Determinants that Contribute to the Greater Burden of Diabetes and Hypertension in the US.
Major Goals: This study will use extant national databases, the Medicare administrative claims database, and the Reasons for Geographic and Racial Differences in Stroke Study to investigate the association of county-level and individual-level social determinants of health with diabetes, and separately, hypertension in the southeastern US. This study will investigate social determinants of health from 9 domains to prioritize those that are associated with a greater burden of diabetes and hypertension, which may then be used in the development of targeted prevention programs and policies.
Role: Co-investigator
- UAB Obesity Health Disparities Research Center Pilot Grant (Howell) 12/29/2020-06/30/2022
Impact of social determinants of health on insulin resistance and poor COVID-19 outcomes
Major Goals: This pilot will elucidate potential social determinants of health (SDOH) that influence insulin resistance and COVID-19 outcomes among patients in the UAB Health System's electronic medical record (EMR).
Role: Principal Investigator
- UAB OHDRC Secondary Analysis Grant (Howell) 09/30/2021-06/30/2022
Examining associations of social determinant of health (SDoH) clusters and obesity using electronic medical record data from an academic medical center in the Deep South
Major Goals: Identify and characterize social determinant of health (SDoH) clusters based on patient reported and neighborhood level data from the UAB Health System electronic medical record (EMR) and evaluate associations between obesity (BMI \geq 30kg/m²) and cluster membership.
Role: Principal Investigator

- R01DK118939 (Dutton), NIDDK 03/01/2020-06/30/2022
Daily Self-Weighing for Obesity Management in Primary Care
Major Goals: This project will include a 2-arm trial to evaluate the 2-year outcomes of a low-intensity intervention focused on daily self-weighing and feedback to prevent continued weight gain among primary care patients with obesity.
Role: Co-Investigator
- 5R18DK109501 (Cherrington), NIDDK 03/01/2020-11/30/2021
The Alabama Care Plan: Assessing the Impact of Regional Care Organizations on Diabetes Outcomes in a Sample of Alabama Medicaid Recipients.
Major Goals: This proposal will conduct a rigorous evaluation of the impact of this transition on outcomes in three dimensions: health of a population, experience of care, and per capita cost.
Role: Co-Investigator
- 5I01CX000432-07 (Garvey), Department of Veterans Affairs 07/01/2020-01/01/2021
Merit Review Research Grant: Mechanisms of Insulin Resistance in Diabetes.
Major Goals: The goal of this study is to assess molecular mechanisms contributing to glucose-induced insulin resistance in diabetes, with an emphasis of the role of tribbles homolog 3 in insulin action and systemic metabolism. This is accomplished through the Specific Aims: (1) Identify the mechanisms by which glucose induces TRIB3 gene expression. (2) In muscle-specific transgenic and knockout mice, examine whether (i) glucose-induced insulin resistance in diabetes and (ii) the metabolic effects of nutrient deprivation and excess, are mediated in a TRIB3 dependent manner. (3) Assess the contribution of muscle TRIB3 in regulating insulin sensitivity and metabolism, both systemically and at the level of skeletal muscle.
Role: Co-investigator
- R01DK103863 (Dutton), NIDDK 03/01/2021-06/01/2021
Fixed Versus Variable Energy Reduction During Behavioral Obesity Treatment
Major Goals: The aim of this study is to compare assignment of a fixed caloric diet to a variable caloric diet in a behavioral obesity treatment intervention.
Role: Co-investigator
- U01CA195547 (Hudson), NCI 06/30/2016-11/15/2019
The St. Jude Lifetime Cohort
Major Goals: To expand eligibility of the SJLIFE cohort to include a clinically well-characterized cohort of five-year survivors, to undertake uniform medical assessments in all cohort participants, to establish a resource for the conduct of innovative intervention-based research, and to develop innovative methodologies to maintain the SJLIFE cohort.
Role: Clinical Research Scientist
- U01 AR052181 (Reeve, DeWalt, Gross, Huang), NIMH 11/01/2014-02/28/2016
PROMIS Pediatric Asthma Study
Major Goals: The aim of this study was to evaluate the psychometric properties, responsiveness and minimal important differences of the Patient Reported Outcomes Measurement Information System (PROMIS) pediatric short forms and computer adaptive tests in a pediatric asthma population.
Role: Research Assistant
- Community Foundation of Greater Birmingham (Demark-Wahnefried) 06/01/2013-08/30/2014
Harvest for Health for Breast Cancer Survivors
Major Goals: The aims of this study were to evaluate the feasibility and the effects of a mentored home based gardening intervention with breast cancer survivors on physical function living in Jefferson, Shelby, Blount, Walker and St. Clair Counties in Alabama.
Role: Graduate Assistant

- 1R21CA182508-01 (Demark-Wahnefried), NCI 09/30/2013-08/30/2014
Vegetable Garden Feasibility Trial to Promote Function in Older Cancer Survivors
Major Goals: The aims of this study were to evaluate the feasibility and the effects of a mentored home based gardening intervention with older cancer survivors on physical function living in Cullman and Mobile Counties in Alabama.
Role: Graduate Assistant
- R21HD059292-01A2 (Ness), NICHD 09/30/2008-09/29/2010
Vibration Intervention for Bone Enhancement in Childhood Cancer Survivors
Major Goals: The aims of this study were to evaluate the effects of low magnitude, high frequency stimulus on bone mineral content (BMC), BMD, and bone strength in childhood cancer survivors.
Role: Project Manager
- R01 CA132901-01 (Ness), NCI 09/30/2008-09/29/2013
Motor Proficiency and Physical Activity in Adult Survivors of Childhood ALL
Major Goals: The aim of this study was to evaluate musculoskeletal function, sensory capacity, fitness, motor proficiency and physical activity patterns among adults who were treated for childhood ALL and compare them to an age, sex and race matched comparison group.
Role: Project Manager
- RSGPB CPPB-112069 (Ness), American Cancer Society 06/01/2006-05/31/2008
Physical performance, Disability and QOL in childhood Brain Tumor Survivors
Major Goals: The aims of this study were to estimate the prevalence of physical performance limitations in adult survivors of childhood brain tumors, compare physical performance between childhood brain tumor survivors and population controls, estimate the impact of physical performance limitations on quality of life, and to determine the characteristics of brain tumor survivors at greatest risk for a functional loss.
Role: Project Manager

BIBLIOGRAPHY:

MANUSCRIPTS:

Manuscripts already published:

1. **Howell CR**, Zhang L, Yi N, Mehta T, Cherrington AL, & Garvey WT. Associations between cardiometabolic disease severity, social determinants of health (SDoH) and poor COVID-19 outcomes. 2022. Obesity; 30(7): 1483-1494.
2. Amerson A, Juarez L, **Howell CR**, Agnes AA, Levitan E & Cherrington AL. Diabetes distress and self-reported health in the Alabama Medicaid population before and during the COVID-19 pandemic. 2022. Frontiers in Clinical Diabetes; 3:835706.
3. **Howell CR**, Zhang L, Yi N, Mehta T, Garvey WT & Cherrington AL. Race versus social determinant of health correction in cardiometabolic disease prediction of COVID-19 hospitalization. 2022. American Journal of Preventive Medicine; 63(1 Suppl 1): S103-S108.
4. **Howell CR**, Juarez L, Agne AA, Nassel A, Scarinci I, Ayala GX, & Cherrington AL. Assessing Hispanic/Latino and non-Hispanic white social determinants of obesity among a community sample of residents in the rural Southeast US. 2022. Journal of Immigrant and Minority Health; 24(6):1469-1479.
5. Thorpe LE, Adhikari S. Lopez P, Kanchi R, McClure LA, Hirsch AG, **Howell CR**, Zhu A, Alemi F, Rummo P, Ogburn EL, Algur Y, Nordberg CM, Poulsen MN, Long DL, Carson AP, DeSilva SA, Meeker M, Schwartz BS, Lee DC, Siegal KR, Imperatore G, & Elbel B. Neighborhood socioeconomic environment and risk of Type 2 Diabetes: Associations and mediation through food environment pathways in three independent study samples. 2022. Diabetes Care; 45(4): 798-810.

6. Lubas MM, Mandrell BN, Greene W, **Howell CR**, Christensen R, Kimburg C, Li C, Ness KK, Srivastava DK, Hudson MM, Robison LL, Krull KR, & Brinkman TM. A Randomized Double-Blind Placebo Controlled Trial of the Effectiveness of Melatonin on Neurocognition and Sleep in Survivors of Childhood Cancer. 2022. *Pediatric Blood and Cancer*; 69(1): e29393.
7. Lubas MM, Szklo-Coxe M, Mandrell BN, **Howell CR**, Ness KK, Srivastava DK, Hudson MM, Robison LL, Krull KR, & Brinkman TM. Concordance between Self-Reported Sleep and Actigraphy-Assessed Sleep in Adult Survivors of Childhood Cancer: The Impact of Psychological and Neurocognitive Late Effects. 2022. *Supportive Care in Cancer*; 30(2): 1159-1168.
8. Jefferies JL, Mazur WM, **Howell CR**, Plana JC, Ness KK, Li Z, Vijaya J, Green D, Mulrooney D, Towbin JA, Martinez HR, Goldberf JF, Howell R, Srivastava K, Robison LL, Hudson MM, & Armstrong GA. Cardiac Remodeling After Anthracycline and Radiotherapy Exposure in Adult Survivors of Childhood Cancer; 2021. *Cancer*; 127(24): 4646-4655.
9. Williams AM, Krull KR, **Howell CR**, Banerjee P, Brinkman TM, Kaste SC, Partin RE, Yasui Y, Srivastava D, Armstrong GT, Robison LL, Hudson MM & Ness KK. Physiologic Frailty and Neurocognitive Decline Among Young-Adult Childhood Cancer Survivors: A Prospective Study from the St. Jude Lifetime Cohort. 2021. *Journal of Clinical Oncology*; 39(31): 3485-3495.
10. Borgatti AC, Schenider-Worthington CR, Stager LM, Krantz OM, DavisA, Blevins M, **Howell CR**, & Dutton GR. The COVID-19 Pandemic and Weight Management in the Deep South: Effective Behaviors and Pandemic-Specific Risk Factors. 2021. *Obesity Research & Clinical Practice*; 15(5): 518-521.
11. Dutton GR, Kinsey AW, **Howell CR**, Pisu M, Turner TJ, Allison DB, Pengcheng X, Levitsky DA, & Fontaine KR. The Daily Self-Weighing for Obesity Management in Primary Care Study: Rationale, Design and Methodology. 2021. *Contemporary Clinical Trials*; 107:106463.
12. Baedke JL, Lindsey LA, James AS, Huang IC, Ness KK, **Howell CR**, Bhakta N, Ehrhardt MJ, Im C, Letsou W, & Yasui Y. Forgoing needed medical care among long-term survivors of childhood cancer: racial/ethnic-insurance disparities. 2022. *Journal of Cancer Survivorship*; 16(3):677-687.
13. Juarez L, Presley C, **Howell CR**, Agne AA, & Cherrington AL. The mediating role of self-efficacy in the association between diabetes education and support and self-care management. 2022. *Health Education & Behavior*; 49(4):689-696.
14. Delaney A, **Howell CR**, Krull KR, Brinkman TM, Armstrong GT, Chemaitilly W, Wilson CL, Mulrooney DA, Wang Z, Lanctot JQ, Johnson RE, Krull MR, Partin RE, Shelton KC, Srivastava DK, Robison LL, Hudson MM, Ness KK. Progression of frailty in survivors of childhood cancer: a St. Jude Lifetime Cohort report. 2021. *J Natl Cancer Inst*; 113(10): 1415-21.
15. McCastlain K, **Howell CR**, Welshe CE, Wang Z, Wilson CL, Mulder H, Easton J, Mertens AC, Zhang J, Yasui Y, Hudson MM, Robison LL, Kundu M & Ness KK. The association of mitochondrial copy number with sarcopenia in adult survivors of childhood cancer. *J Natl Cancer Inst*; 113(11): 1570-80.
16. **Howell CR**, Bjornard KL, Ness KK, Alberts N, Armstrong GT, Bhakta N, Brinkman T, Caron E, Chemaitilly W, Green DM, Folse T, Huang IC, Jeffries J, Kaste S, Krull K, Lanctot JQ, Mulrooney DA, Neale G, Nichols KE, Sabin ND, Shelton K, Srivastava DK, Wang Z, Wilson C, Yasui Y, Zaidi A, Zhang J, Robison LL, Hudson MM, and Ehrhardt MJ. Cohort profile: the St. Jude Lifetime Cohort Study (SJLIFE). *Int J Epidemiol*. 2021; 50(1):39-49.
17. **Howell CR**, Su W, Nassel AF, Agne AA & Cherrington AL. Area based stratified random sampling using geospatial technology in a community-based survey. 2020. *BMC Public Health*; 20(1): 1678.

18. Olsson IT, Lubas MM, Mandrell BN, Li C, Banerjee P, **Howell CR**, Ness KK, Srivastava DK, Robison LL, Hudson MM, Krull KR, and Brinkman TM. Insomnia and neurocognitive functioning in adult survivors of childhood cancer. *JNCI Spectrum*. 2020; 4(3): pkaa008.
19. Wilson CL, Liu W, Chemaitilly W, **Howell CR**, Srivastava DK, Howell RM, Hudson MM, Robison LL and Ness KK. Body composition, metabolic health and functional impairment among adults treated for abdominal and pelvic tumors during childhood. *Cancer Epidemiology, Biomarkers and Prevention*. 2020; 29(9): 1750-1758.
20. Christoffersen LN, Gibson TM, Pui CH, Joshi V, Partin RE, Green DM, Lanctot JQ, **Howell CR**, Mulrooney DA, Armstrong GA, Robison LL, Hudson MM, and Ness KK. Cardiac autonomic dysfunction in survivors of childhood acute lymphoblastic leukemia: a report from the St. Jude Lifetime Cohort Study (SJLIFE). *Pediatric Blood and Cancer*. 2020; 67(7): e28388.
21. Bjornard KL, **Howell CR**, Klosky JL, Chemaitilly W, Srivastava DK, Brinkman TM, Green DM, Willard VW, Jacola LM, Krasin MJ, Hudson MM, Robison LL and Ness KK. Psychosexual functioning of female childhood cancer survivors: a report from the St. Jude Lifetime Cohort Study. *J Sex Med*. 2020; 17(10): 1981-1994.
22. Im C, Qin N, Wang Z, Qiu W, **Howell CR**, Sapkota Y, Moon W, Chemaitilly W, Gibson TM, Mulrooney DA, Ness KK, Wilson CL, Morton LM, Armstrong GT, Bhatia S, Zhang J, Hudson MM, Robison LL, and Yasui Y. Generalizability of "GWAS Hits" in Clinical Populations: Lessons from Childhood Cancer Survivors. *Am J Hum Genet*. 2020; 107(4): 636-653.
23. Dixon SB, **Howell CR**, Lu L, Plana JC, Joshi VM, Leupker RV, Durand JB, Ky B, Lenihan DJ, Jefferies JL, Green DM, Partin RE, Santucci AK, Howell RM, Srivastava DK, Hudson MM, Robison LL, Ness KK, & Armstrong GT. Cardiac biomarkers associated with subsequent cardiomyopathy and mortality among adult survivors of childhood cancer: a report from the St. Jude Lifetime Cohort. 2021. *Cancer*; 127(3):458-466. PMID: PMC7855049.
24. Krull MR, **Howell CR**, Partin RE, Carney G, Smith K, Mulrooney DA, Robison LL, Hudson MM, and Ness KK. Impact of resistance training and-protein supplementation on lean muscle mass in adult survivors of childhood cancer survivors engaged in resistance training. *Medicine & Science in Sports & Exercise*. 2020. *Med Sci Sports Exerc*; 52(10): 2069-2077.
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53. **Howell CR**, Harada C, Mugavero M, Fontaine KR & Cherrington AL. Hierarchy of social needs in diabetes clinical care and prevention. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*; 16: 161-166.
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57. Amerson A, Cherrington AL, **Howell CR**, Agne A, Herbey I, & Wingo B. Perspectives of Primary Care Providers on Preventing and Managing Diabetes in the Rural Deep South. 2022. *Journal of Primary Care and Community Health*; 3:835706.

Manuscripts in Press:

58. **Howell CR**, Bradley H, Zhang L, Cleveland D, Lung D, Horton T, Mugavero M, Williams W, Amerson A & Cherrington AL. Real-world integration of the Protocol for Responding to and Assessing Patient Assets, Risks, and Experience (PRAPARE) tool to assess social determinants of health (SDoH) at an academic medical center. *Digital Health*; *in press*.
59. Presley CA, Khodneva Y, **Howell CR**, Riggs KR, Huang L, Levitan EB, & Cherrington AL. Patient Level Factors Associated with Receipt of Hemoglobin A1c Testing in Alabama Medicaid Beneficiaries with Diabetes. *Primary Care Diabetes*; *in press*.
60. Uddin J, Zhu S, Adhikari S, Nordberg CM, **Howell CR**, Malla G, Judd SE, Cherrington AL, Rummo P, Lopez P, Macias G, Kanchi R, Siegel K, De Silva SA, Algur Y, Lovasi GS, Lee NL, Carson AP, Hirsch AG, Thorpe LE, & Long DL. Age and sex differences in the association between neighborhood socioeconomic environment and incident diabetes: Results from the Diabetes Location, Environmental Attributes and Disparities (LEAD) Network. *SSM – Population Health*; *in press*.
61. **Howell CR**, Zhang L, Mehta T, Wilkinson L, Carson AP, Levitan EB, Cherrington AL, Yi N & Garvey WT. Cardiometabolic Disease Staging and Major Adverse Cardiovascular Event Prediction in Two Prospective Cohorts. *JACC Advances*; *in press*.
62. **Howell CR**, Zhu S, Malla G, Carson AP, Cummings D, Uddin J, Levitan EB, Safford M, Cherrington AL, & Long DL. Defining diabetes status using medication groups in Medicare data: Trends over time. *Diabetes, Obesity and Metabolism*; *in press*.
63. Zhang L, Clay OJ, Lee SY & **Howell CR**. Analyzing Multiple Social Determinants of Health using different clustering methods; *in press*.

Manuscripts submitted but not yet accepted:

1. Zhang, L; Zhang, X; Leach, J M; Rahman, F; **Howell, CR**; Yi, N. Bayesian Compositional Generalized

Linear Mixed Models for Analyzing Microbiome Data; Biometrics; *submitted*.

2. Pisu M, Agne A, Mondesir F, Shelley J, Amerson A, Presley C, **Howell CR**, & Cherrington AL. There's more to the story: Perspectives on engaging and caring for low-income patients with diabetes in Alabama. *Science of Diabetes Self-Management and Care*; *submitted*.
3. Goggin KP, Lu L, Lee DE, **Howell CR**, Srivastava D, Brinkman TM, Armstrong GT, Bhakta N, Robison LL, Ehrhardt MJ, Hudson MM, Krull KR, Pui CH, Rubnitz J, Ness KK, & Wolf J. Long-term effects of severe sepsis during treatment for childhood leukemia: An analysis from the St. Jude lifetime cohort (SJLIFE). *Journal of Clinical Oncology*; *submitted*.
4. **Howell CR**, Zhang L, Clay OJ, Dutton G, Horton T, Mugavero MJ & Cherrington AL. Social determinants of health phenotypes and associations with cardiometabolic risk factors among patients in a large academic health system: A Latent Class Analysis. *JMIR Public Health and Surveillance*; *revise and resubmit*.
5. Berkman AM, Goodenough CE, Durakiewicz P, **Howell CR**, Wang Z, Easton J, Mulder HL, Armstrong GT, Hudson MM, Kundu M, & Ness KK. Associations between mitochondrial copy number, exercise capacity, physiologic cost of walking and cardiac strain in young adult survivors of childhood cancer. *Journal of Cancer Survivorship*; *revise and resubmit*.
6. Faur A and **Howell CR**. Financial Hardship & Neighborhood Socioeconomic Disadvantage in Long-term Childhood Cancer Survivors, *Journal of the National Cancer Institute*; *submitted*.

Published abstracts:

1. Morris B, Khan R, Ledet D, **Howell C**, Pui C, Hudson M, Ness K. Neurological morbidity in survivors of childhood acute lymphoblastic leukemia (ALL). *J Clin Oncol* 27(15_suppl): 9529; 2009.
2. Ness KK, Nolan VG, Morris EB, **Howell CR**, Gilchrist LS, Neglia JP. Limitations in Physical Function among Adult Survivors of Childhood Brain Tumors. *Pediatr Blood Cancer* 52 (6):73; 2009.
3. Ness KK, Allgood R, Li Z, **Howell CR**, & Neglia JP. Mobility related social isolation and quality of life among adult survivors of childhood brain tumors. *Neuro-oncology* 12(6): ii30; 2010.
4. Klosky J, **Howell C**, Zhenghong L, Foster R, Mertens A, Robison L, Ness K. Risky health behavior in adolescent survivors of childhood cancer and their siblings: A report from the Childhood Cancer Survivor Study. *Pediatr Blood Cancer* 57 (5): 48; 2011.
5. Klosky JL, Foster RH, Li Z, Peasant C, **Howell C**, Mertens AC, Robison LL & Ness KK. Risky sexual behavior in adolescent survivors of childhood cancer: A report from the childhood cancer survivor study. *Pediatric Blood & Cancer* 59 (6); 1122.
6. Ness KK, Huang S, Smith WA, Pui CH, Lanctot J, **Howell CR**, Karlage R, Shelton KC, Robison LL, and Hudson MH. Global fitness in adult survivors of childhood acute lymphoblastic leukemia (ALL). *J Clin Oncol* 31 (15_suppl): 10022; 2013.
7. **Howell CR**, Gross H, Reeve B, DeWalt D, and Huang IC. Validation of PROMIS Scales in Adolescents and Young Adults with Special Health Care Needs: A Report from the PROMIS Linking Study. *Qual Life Res*; 24 (1): 66-67; 2015.
8. Varedi M, Lu L, **Howell CR**, Partin R, Robison LL, Hudson MM, McKenna R, and Ness KK. Peripheral neuropathy, function and quality of life (QoL) in adult survivors of childhood acute lymphoblastic leukemia (ALL). *Archives of Physical Medicine and Rehabilitation*; 98 (10):e91-e92; 2017.

9. Green DM, Wang M, Krasin MJ, Srivastava D, Relling MV, **Howell CR**, Ness KK, Greene W, Fernandez-Pineda I, Pui CH, Jeha S, Bishop M, Furman W, Robison LL, and Hudson MH. 2017. Hepatic injury after treatment for childhood cancer. *Journal of Clinical Oncology*; 36 (15_suppl): 10567; 2017.
10. Bjornard KL, **Howell CR**, Klosky JL, Chemaitilly W, Srivastava DK, Brinkman TM, Green DM, Willard VW, Jacola LM, Krasin MJ, Hudson MM, Robison LL, & Ness KK. Psychosexual Dysfunction in Female Childhood Cancer Survivors. *Journal of Clinical Oncology*; 36 (7_suppl):136; 2018.
11. **Howell CR**, Krull KR, Partin RE, Kadan-Lottick NS, Robison LL, Hudson MM, & Ness KK. Randomized web-based physical activity intervention in adolescent survivors of childhood cancer. *Journal of Clinical Oncology*; 36 (7_suppl):102; 2018.
***Selected as one of five abstracts featured in the ASCO press program**
12. Partin RE, **Howell CR**, Pui CH, Inaba H, Robison LL, Hudson MM, & Ness KK. Neuropathy and fine motor function in adult survivors of childhood cancer. *Medicine & Science in Sports and Exercise*; 50 (5S):705-706; 2018.
13. Wogksch MD, **Howell CR**, Partin RE, Chambliss H, Inaba H, Pui CH, Hudson MM, Robison LL & Ness KK. Obesity and Walking Efficiency in Survivors of Acute Lymphoblastic Leukemia: A Report from the St. Jude Lifetime cohort study. *Medicine & Science in Sports and Exercise*; 50 (5S):584; 2018.
14. Ehrhardt, MJ, **Howell CR**, Hale K, Baassiri MJ, Rodriguez C, Wilson CL, Joshi SS, Lemond TC, Shope S, Howell RM, Wang Z, Mulrooney DA, Zhang J, Robison LL, Ness KK, and Hudson MM. Breast cancer risk and detection in female childhood cancer survivors in the St. Jude Lifetime Cohort study. *Pediatric Blood and Cancer* 65: S40. 2018.
15. Phillips N, **Howell CR**, Krull KK, Hudson MM, Robison LL, & Ness KK. Fitness and neurocognitive outcomes in acute lymphoblastic leukemia survivors. *Pediatric Blood and Cancer* 65: S694-S695. 2018.
16. Krull MR, **Howell CR**, Partin RE, Carney G, Smith K, Mulrooney DA, Robison LL, Hudson MM, and Ness KK. Impact of resistance training and-protein supplementation on lean muscle mass in adult survivors of childhood cancer survivors engaged in resistance training. *Journal of Clinical Oncology* 37(15_suppl):10027; 2019.
17. Dixon S, **Howell CR**, Lu L, Ness KK, Plana J, Joshi V, Luepker RV, Durand JB, Ky B, Lenihan DJ, Green DM, Partin R, Santucci A, Howell RM, Srivastava D, Hudson MM, Robison LL, Armstrong GT. Serum Biomarkers for Detection of Cardiomyopathy in Survivors of Childhood Cancer: A Report from the St. Jude Lifetime Cohort. *Journal of Clinical Oncology* 37(15_suppl): e21526; 2019.
18. **Howell CR**, Wilson CL, Yasui Y, Srivastava DK, Lu W, Bjornard KL, Ehrhardt MJ, Brinkman TM, Chemaitilly W, Green DM, Lanctot JQ, Robison LL, Hudson MM, & Ness KK. Neighborhood effects and obesity in adult survivors of pediatric cancer: A report from the St. Jude Lifetime Cohort Study. *Journal of Clinical Oncology* 37(15_suppl): e23051; 2019.
19. Ness KK, Partin RE, **Howell CR**, Krull KR, Brinkman TM, Armstrong GT, Chemaitilly W, Wilson CL, Mulrooney DA, Gibson TM, Lanctot JQ, Johnson RE, Krull MR, Shleton K, Srivastava DK, Robison LL and Hudson MM. Progression of frailty in young adult childhood cancer survivors. *Journal of Clinical Oncology* 37(15_suppl): e10057; 2019.
20. Green DM, Wang M, Krasin MJ, Srivastava D, **Howell CR**, Ness KK, Greene W, Lanctot JQ, Shleton KC, Davidoff A, Ehrhardt MJ, Mulrooney DA, Robison LL, and Hudson MH. Renal function after treatment for childhood cancer. A report from the St. Jude Lifetime Cohort Study. *Journal of Clinical Oncology* 37(15_suppl): e10048; 2019.

21. Williams AM, Krull KR, **Howell CR**, Banerjee P, Brinkman TM, Kaste SC, Partin RE, Srivastava D, Armstrong GT, Robison LL, Hudson MM & Ness KK. Frailty and Neurocognitive Decline in Young Adult Survivors of Childhood Cancer: A Longitudinal Analysis from the St. Jude Lifetime Cohort. *Journal of Clinical Oncology* 38(15_suppl): e10555; 2020.
22. Green DM, Wang M, Krasin MJ, Srivastava K, Relling MV, **Howell CR**, Ness KK, Kaste SC, Greene W, Jay DW, Davidoff AM, Pui CH, Jeha S, Bishop M, Furman WL, Robison LL, & Hudson MM. Longitudinal evaluation of alanine aminotransferase after treatment for childhood cancer. A report from the St. Jude Lifetime Cohort Study. *Journal of Clinical Oncology* 37(15_suppl): e22525; 2020.
23. **Howell CR**, Bradley H, Cleveland D, Long D, Horton T & Cherrington AL. Prevalence of social determinants of health collected using the PRAPARE tool at an academic medical center in the Deep South. *Annals of Behavioral Medicine* 56 (ISS S1): S529.
24. Amerson A, Juarez A, **Howell CR**, Agnes AA, Levitan E & Cherrington AL. Diabetes distress and self-reported health in the Alabama Medicaid population before and during the COVID-19 pandemic. *Annals of Behavioral Medicine* 56 (ISS S1): S158.
25. Pisu M, Agne A, Mondesir F, Shelley J, Amerson A, Presley C, **Howell CR**, & Cherrington AL. There's more to the story: Perspectives on engaging and caring for low-income patients with diabetes in Alabama. *Annals of Behavioral Medicine* 56 (ISS S1): S652.
26. Ness E, Juarez L, Lohman L, **Howell CR**, Cherrington AL, & Presley C. Cost-Related Medication Non-Adherence in Alabama's Medicaid Population with Diabetes. *Diabetes* 71(Supplement_1):1212-P.
27. **Howell CR**, Zhang L, Williams S, Yi N, Garvey WT, & Cherrington AL. Associations Between Hba1c, Area Level Social Vulnerability, and Poor COVID-19 Outcomes. *Diabetes* 71(Supplement_1):1210-P.
28. Presley CA, **Howell CR**, Khodneva Y, Riggs KR, Huang L, Levitan EB, & Cherrington AL. Trends and predictors of hemoglobin A1c testing in Alabama Medicaid beneficiaries with type 2 diabetes. *Diabetes* 71(Supplement_1):1191-P.
29. Bai J, Qiu W, Yasui Y, Barandouzi ZA, Kadan-Lottick N, Leisenring W, Webster C, Hudson MM, Ness KK, Zhang Q, **Howell CR**, King TZ, Huang IC, Armstrong GA, and Krull KR. Social determinants of health and neurocognitive and psychosocial outcomes in adult childhood cancer survivors: a report from the Childhood Cancer Survivor Study (CCSS). 2023. *Journal of Clinical Oncology*; 16_suppl:12084.
30. **Howell CR**, Zhang L, Mehta T, Wilkinson L, Carson AP, Levitan EB, Cherrington AL, Yi N & Garvey WT. Cardiometabolic Disease Staging and Major Adverse Cardiovascular Event Prediction in Two Prospective Cohorts. *Journal of the American Heart Association Scientific Sessions*, Philadelphia, PA; 2023.

Abstracts submitted but not yet accepted:

1. Berkman AM, Goodenough CG, Durakiewicz P, **Howell CR**, Wang Z, Easton J, Mulder HL, Armstrong GT, Hudson MM, Kundu M, Ness KK. Associations between mitochondrial copy number, exercise capacity, physiologic cost of walking and cardiac strain in young adult survivors of childhood cancer, *Submitted*
2. Bateman L, Pisu M, Demark-Wahnefried W, Rocque G, **Howell CR**, Roughsedge V, McGlawn S, Richards J, Gagnon K, Bae S, Rogers LQ. Using Community-Engagement and Implementation Science to Improve Diet and Physical Activity Among Cancer Survivors in Persistent Poverty Areas, *submitted*

Poster Exhibits:

1. Randazza LA, **Robertson CM**, & Walley AC. The effect of feedback on children's and adults' recognition of spoken, gated words. Poster presented at the Conference on Human Development, Mobile, AL; 1998.
2. Grupe LA, Huffman, LF, Barnes, L, **Robertson C** & Bray NW. Strategy discovery by children with and without mental retardation in a simple addition task. Poster presented at the Gatlinburg Conference on research and theory in Mental Retardation and Developmental Disabilities, Charleston, SC; 1999.
3. **Robertson CM**, Grupe LA, & Bray NW. Strategy discovery marked by imprecision in children with and without mental retardation performing simple addition. Poster presented at the Conference on Human Development, Memphis, TN; 2000.
4. Robinson LA, **Howell CR**, Cummings CB, & Ali KS. Religious prohibitions against smoking, ethnicity, and the odds of tobacco use among adolescents. Poster presented at the Society for Research on Nicotine and Tobacco Thirteenth Annual Meeting, Austin, TX; 2007.
5. Robinson LA, Ali KS, **Howell CR**, & Riedel BW. Adolescent evaluations of smoking cessation program components: What gets their attention? Poster presented at the Society for Research on Nicotine and Tobacco Thirteenth Annual Meeting, Austin, TX; 2007.
6. **Howell CR**, Mertens AC, Krull KK, Klosky JL, & Ness KK. Risky behaviors in teen cancer survivors. Poster presented at the 10th International Conference on Long-term Complications of Treatment of Children and Adolescents for Cancer, Niagara on the Lake, Ontario; 2008.
7. Ness KK, Nolan VG, Morris EB, **Howell CR**, Gilchrist, LS, & Neglia JP. Limitations in Physical Function among Adult Survivors of Childhood Brain Tumors. Poster presented at the 22nd Annual Meeting of the American Society of Pediatric Hematology/Oncology, San Diego, CA; 2009.
8. **Howell CR**, Ness KK, Hudson MM, and Robison LL. Challenges of Intervention Research in Children Diagnosed with Cancer. Poster presented at the 12th International Conference on Long-term Complications of Treatment of Children and Adolescents for Cancer, Williamsburg, VA; 2012.
9. Smith WA, Hudson MH, Pui CH, Delany J, Lanctot J, **Howell CR**, Karlage R, Robison LL, & Ness KK. Physical Activity Levels and Cardiorespiratory Fitness in Adult Survivors of Childhood Acute Lymphoblastic Leukemia. Poster presented at the 12th International Conference on Long-term Complications of Treatment of Children and Adolescents for Cancer, Memphis, TN; 2013.
10. Schroder KE, Warriner A, & **Howell CR**. Increases in Body Mass and Associations with Metabolic Risk Among HIV-Tested Adults in NHANES. Poster presented at the 34th Annual Meeting and Scientific Sessions, Society of Behavioral Medicine, San Francisco, CA; 2013.
11. Burroughs LN, Kaste SC, Ferry RJ, Mogil R, **Howell CR**, Hudson MM, Robison LL, & Ness KK. A Randomized Trial of Low Magnitude High Frequency Mechanical Stimulation (Lms) For Bone Density in Childhood Cancer Survivors (Ccs). Poster accepted at the 13th International Conference on Long-term Complications of Treatment of Children and Adolescents for Cancer, Richmond, VA; 2015.
12. Wilson CL, **Howell CR**, Lu L, Kaste SC, Mulrooney DA, Pui CH, Karlage RE, Lanctot JQ, Srivastava D, Robison LL, Hudson MM, & Ness KK. The influence of physical fitness on health outcomes among survivors of childhood ALL. Poster presented at the International Society of Pediatric Oncology, Dublin, Ireland; 2016.

13. **Howell CR**, Mehta T, Ejima K, Ness KK, Cherrington A, Fontaine KR. Body Composition and Mortality in Hispanic Adults. Poster presented at Obesity Week (The Obesity Society Annual Meeting). New Orleans, LA; 2016. * **Selected as one of the top ten abstracts from the Research in Diverse Populations Section of the Obesity Society.**
14. Bjornard K, **Howell CR**, Klosky J, Chemaitilly W, Srivastava K, Brinkman TM, Green D, Willard T, Jacola L, Krasin M, Hudson MM, Robison LL, & Ness KK. Sexual dysfunction in women surviving childhood cancer. Poster presented at the annual fellow symposium at St. Jude Children's Research Hospital, Memphis, TN; 2017.
15. Green DM, Wang M, Krasin MJ, Srivastava D, Relling MV, **Howell CR**, Ness KK, Greene W, Fernandez-Pineda I, Pui CH, Jeha S, Bishop M, Furman W, Robison LL, & Hudson MH. 2017. Hepatic injury after treatment for childhood cancer. Poster presented at the American Society of Clinical Oncology Annual Meeting, Chicago, IL; 2017.
16. **Howell CR**, Wilson CL, Partin R, Johnson R, Pui CH, Lanctot JQ, Hudson MM, Robison LL & Ness KK. Sedentary behaviors in adult survivors of acute lymphoblastic leukemia. Poster presented at the 15th International Conference on Long-term Complications of Treatment of Children and Adolescents for Cancer, Atlanta, GA; 2017.
17. Varedi M, Lu L, **Howell CR**, Partin R, Robison LL, Hudson MM, McKenna R, & Ness KK. Peripheral neuropathy, function and quality of life (QoL) in adult survivors of childhood acute lymphoblastic leukemia (ALL). Poster presented at the American Congress of Rehabilitation Medicine 94th Annual Conference, Atlanta, GA; 2017.
18. **Howell CR**, Krull KR, Partin RE, Kadan-Lottick NS, Robison LL, Hudson MM, & Ness KK. Randomized web-based physical activity intervention in adolescent survivors of childhood cancer. Poster presented at ASCO Cancer Survivorship Symposium, Orlando, FL; 2018.
19. Bjornard KL, **Howell CR**, Klosky JL, Chemaitilly W, Srivastava DK, Brinkman TM, Green DM, Willard VW, Jacola LM, Krasin MJ, Hudson MM, Robison LL, & Ness KK. Psychosexual Dysfunction in Female Childhood Cancer Survivors. Poster presented at ASCO Cancer Survivorship Symposium, Orlando, FL; 2018.
20. Bjornard KL, **Howell CR**, Klosky JL, Chemaitilly W, Srivastava DK, Brinkman TM, Green DM, Willard VW, Jacola LM, Krasin MJ, Hudson MM, Robison LL, & Ness KK. Psychosexual Dysfunction in Female Childhood Cancer Survivors. Abstract accepted for poster presentation at ASCO Cancer Survivorship Symposium, Orlando, FL; 2018.
21. Partin RE, **Howell CR**, Pui CH, Inaba H, Robison LL, Hudson MM, & Ness KK. Neuropathy and fine motor function in adult survivors of childhood cancer. Abstract presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN. 2018.
22. Wogksch MD, **Howell CR**, Partin RE, Chambliss H, Inaba H, Pui CH, Hudson MM, Robison LL & Ness KK. Obesity and Walking Efficiency in Survivors of Acute Lymphoblastic Leukemia: A Report from the St. Jude Lifetime cohort study. Abstract presented at the American College of Sports Medicine Annual Meeting, Minneapolis, MN. 2018.
23. Phillips N, **Howell CR**, Krull KK, Hudson MM, Robison LL, & Ness KK. Fitness and neurocognitive outcomes in acute lymphoblastic leukemia survivors. Abstract presented at the International Society of Paediatric Oncology Annual Meeting, Kyoto, Japan. 2018. ***Selected for poster discussion**

24. Green DM, Wang M, Krasin MJ, Srivastava D, **Howell CR**, Ness KK, Greene W, Lanctot JQ, Shleton KC, Davidoff A, Ehrhardt MJ, Mulrooney DA, Robison LL, & Hudson MH. 2017. Renal function after treatment for childhood cancer. A report from the St. Jude Lifetime Cohort Study. Poster presented at the American Society of Clinical Oncology Annual Meeting, Chicago, IL; 2019.
25. Brinkman TM, Mandrell BN, Lubas MM, **Howell CR**, Li C, Srivastava DK, Ness KK, Robison LL, Hudson MM, & Krull KR. Melatonin Intervention for Neurocognitive Deficits in Adult Survivors of Childhood Cancer. Poster presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
26. O'Neil S, Partin RE, **Howell CR**, Pui CH, Inaba H, Robison LL, Hudson MM, & Ness KK. Neuropathy and fine motor function in adult survivors of childhood cancer. Poster presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
27. Wogksch MD, **Howell CR**, Partin RE, Chambliss H, Inaba H, Pui CH, Hudson MM, Robison LL & Ness KK. Obesity and Walking Efficiency in Survivors of Acute Lymphoblastic Leukemia: A Report from the St. Jude Lifetime cohort study. Poster presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
28. Lubas MM, Mandrell BN, Ehrhardt MJ, Tonning Olsson I, Li C, **Howell CR**, Srivastava DK, Robison LL, Hudson MM, Krull KR, & Brinkman TM. Sleep Disturbances and Physical and Mental Health Among Adult Survivors of Childhood Cancer. Poster presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
29. Dixon S, Ky B, Vijaya J, Ness KK, Green DM, Partin RE, Santucci A, Howell RM, Srivastava DK, **Howell CR**, Hudson MM, Lu L, Lenihan D, Plana J, & Armstrong G. Serum Biomarkers for Detection of Cardiomyopathy in Survivors of Childhood Cancer: A Report from the St. Jude Lifetime Cohort. Poster presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
30. Ness KK, Partin RE, **Howell CR**, Krull KR, Brinkman TM, Armstrong GT, Chemaitilly W, Wilson CL, Mulrooney DA, Gibson TM, Lanctot JQ, Johnson RE, Krull MR, Shelton K, Srivastava DK, Robison LL & Hudson MM. Progression of frailty in young adult childhood cancer survivors. Poster presented at the American Society of Clinical Oncology Annual Meeting, Chicago, IL and at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
31. Krull MR, **Howell CR**, Partin RE, Carney G, Smith K, Mulrooney DA, Robison LL, Hudson MM, & Ness KK. Impact of resistance training and-protein supplementation on lean muscle mass in adult survivors of childhood cancer survivors engaged in resistance training. Poster presented at the American Society of Clinical Oncology Annual Meeting, Chicago, IL and at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019. ***selected for poster discussion at the American Society of clinical Oncology Annual Meeting**
32. **Howell CR**, Wilson CL, Yasui Y, Srivastava DK, Liu W, Bjornard KL, Ehrhardt MJ, Brinkman TM, Chemaitilly W, Lanctot JQ, Robison LL, Hudson MM & Ness KK. Neighborhood effects and obesity in adult survivors of pediatric cancer: A report from the St. Jude Lifetime Cohort Study. Poster presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
33. **Howell CR**, Wilson CL, Yasui Y, Srivastava DK, Liu W, Bjornard KL, Ehrhardt MJ, Brinkman TM, Chemaitilly W, Lanctot JQ, Robison LL, Hudson MM & Ness KK. Neighborhood Effect And Obesity In Adult Survivors Of Pediatric Cancer. Poster presented at Obesity Week, Las Vegas, Nevada; 2019.

34. **Howell CR**, Bradley H, Cleveland D, Long D, Horton T & Cherrington AL. Prevalence of social determinants of health collected using the PRAPARE tool at an academic medical center in the Deep South. Society of Behavioral Medicine, Baltimore, MD; 2022.
35. Amerson A, Juarez A, **Howell CR**, Agnes AA, Levitan E & Cherrington AL. Diabetes distress and self-reported health in the Alabama Medicaid population before and during the COVID-19 pandemic. Society of Behavioral Medicine, Baltimore, MD; 2022.
36. Pisu M, Agne A, Mondesir F, Shelley J, Amerson A, Presley C, **Howell CR**, & Cherrington AL. There's more to the story: Perspectives on engaging and caring for low-income patients with diabetes in Alabama. Society of Behavioral Medicine, Baltimore, MD; 2022.
37. Ness E, Juarez L, Lohman L, **Howell CR**, Cherrington AL, & Presley C. Cost-Related Medication Non-Adherence in Alabama's Medicaid Population with Diabetes. Presented at the American Diabetes Association Scientific Sessions; New Orleans, LA 2022.
38. **Howell CR**, Zhang L, Williams S, Yi N, Garvey WT, & Cherrington AL. Associations Between Hba1c, Area Level Social Vulnerability, and Poor COVID-19 Outcomes. Presented at the American Diabetes Association Scientific Sessions; New Orleans, LA 2022.
39. Harrison E, Juarez L, **Howell CR**, Levitan EB, & Cherrington AL. Associations between suboptimal social determinants of health and diabetes distress. Presented at the Society of General Internal Medicine Annual Meeting; Orlando, FL 2022.
40. Riggs KR, Presley CA, Agne A, **Howell CR**, Huang L, Levitan EB & Cherrington AL. Measuring Continuity of Care for Patients with Diabetes: Which Type of Provider Visits to Include? Presented at the Society of General Internal Medicine Annual Meeting; Orlando, FL 2022.
41. Presley CA, **Howell CR**, Khodneva Y, Riggs KR, Huang L, Levitan EB, & Cherrington AL. Trends and predictors of hemoglobin A1c testing in Alabama Medicaid beneficiaries with type 2 diabetes. Presented at the American Diabetes Association Scientific Sessions; New Orleans, LA 2022.
42. Zhang L, Williams S, Yi N, Mehta T, Cherrington AL, Garvey WT & **Howell CR**. Associations Between BMI, Area Level Social Vulnerability, and Poor COVID-19 Outcomes. Presented at Obesity Week, San Diego, CA 2022.
43. Williams S, Zhang L, & **Howell CR**. Body Mass Index, Neighborhood Environment (NSEE) and Poor COVID-19 Outcomes. Presented at American Public Health Association Annual Meeting, Boston, MA 2022.
44. Bai J, Qiu W, Yasui Y, Barandouzi ZA, Kadan-Lottick N, Leisenring W, Webster C, Hudson MM, Ness KK, Zhang Q, **Howell CR**, King TZ, Huang IC, Armstrong GA, and Krull KR. Social determinants of health and neurocognitive and psychosocial outcomes in adult childhood cancer survivors: a report from the Childhood Cancer Survivor Study (CCSS). Poster presented at the American Society of Clinical Oncology Annual Meeting, Chicago, IL; 2023.
45. Zhang L, Yi N, Mehta T, Garvey W, Cherrington A, & **Howell CR**. Associations between cardiometabolic disease severity, social determinants of health (SDoH) and poor COVID-19 outcomes. Poster presented at the School of Public Health Research Day, Birmingham, AL 2023.
46. WT Garvey, Zhang L & **Howell CR**. Cardiometabolic Disease Severity and not BMI per se Predicts Poor COVID-19 Outcomes. Oral poster presented at the European Congress on Obesity, Dublin, Ireland 2023.

47. **Howell CR**, Zhang L, Edmond KS, Clay O, Dutton G, Bradley H, Horton T, Mugavero MJ, and Cherrington AL. Clusters of Social Determinants of Health and Associations with Cardiometabolic Disease. Poster presented at Obesity Week, Dallas, TX 2023.
48. **Howell CR**, Zhang L, Mehta T, Wilkinson L, Carson AP, Levitan EB, Cherrington AL, Yi N & Garvey WT. Cardiometabolic Disease Staging and Major Adverse Cardiovascular Event Prediction in Two Prospective Cohorts. Poster presented at the American Heart Association Scientific Sessions, Philadelphia, PA; 2023.

Oral Presentations

Scientific papers presented at national and international meetings

1. **Howell CR**, Cherrington AC, Watson C, Miller C, Jones A, Aloia T, Rice E, Conrad B, Garrett-Ray S, Fogel R & Masoudi F. Social risks, glycemic control and elevated blood pressure among patients with diabetes in the Ascension Health System. Accepted for oral presentation at the AHA/Epi Council meeting in Chicago, IL; Mar 2024.
2. Fauer A, Yabroff R, Casillas JN, Leisenring W, **Howell CR**, Kirchoff A, Ganz P, Huang IC, Armstrong GA, Yasui Y, and Nathan P. Environmental Factors Associated with Financial Hardship in Long-Term Survivors of Childhood Cancer, Accepted as oral presentation at the Sigma 34th International Nursing Research Congress, Abu Dhabi, United Arab Emirates, July 2023.
3. **Howell CR**, Zhang L, Yi N, Mehta T, Cherrington AL & Garvey WT. Cardiometabolic Disease Severity, Social Determinants of Health and Poor COVID-19 Outcomes. Oral presentation at Obesity Week, San Diego, CA 2022.
4. Schwartz L, Dhaduk R, **Howell CR**, , Brinkman T, Ehrhardt M, Delaney A, Srivastava L, Lanctot JQ, Armstrong GA, Robison LL, Hudson MM, Ness KK, Henderson T. The association of neighborhood effects and frailty in childhood cancer survivors: a report from the St. Jude lifetime cohort study. International Symposium on Late Complications after Childhood Cancer (ISLCCC 2022); Utrecht, Netherlands.
5. Schwartz L, **Howell CR**, Dhaduk R, Brinkman T, Ehrhardt M, Delaney A, Srivastava L, Lanctot JQ, Armstrong GA, Robison LL, Hudson MM, Ness KK, Henderson T. The association of neighborhood effects and frailty in childhood cancer survivors: a report from the St. Jude lifetime cohort study. The 53rd Congress of the International Society of Paediatric Oncology (SIOP 2021). *Selected as one of top six SIOP abstracts.
6. McClure L, Thorpe LE, McAlexander TP, Rummo P, **Howell CR**, Hirsch AM. Multi-site initiative to assess the role of the neighborhood socioeconomic environment and food environment on diabetes incidence: Lessons learned from the Location, Environmental Attributes and Diabetes (LEAD) Network. Symposium presented at Society of Epidemiologic Research Annual Meeting, San Diego, CA; 2021.
7. **Howell CR**, Malla G, Carson A, Long DL, Zu S. Creating a Neighborhood Social and Economic Environment (NSEE) measure for evaluation across geographic regions and community types. Symposium presented at Society of Epidemiologic Research Annual Meeting, San Diego, CA; 2021.
8. Song N, Li Z, Qin N, **Howell CR**, Wilson CL, Easton J, Mulder H, Edmonson MN, Rusch MC, Zhang J, Hudson MM, Yasui Y, Robison LL, Ness KK, & Wang Z. Leukocyte telomere length and occurrence of chronic health conditions among survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. Abstract presented at the American Society of Human Genetics, Houston, Texas; 2019.
9. Im C, **Howell CR**, Sapkota Y, Moon W, Chemaitilly W, Gibson TM, Mulrooney DA, Ness KK, Wang Z, Wilson CL, Hudson MM, Robison LL, & Yasui Y. The generalizability of general-population GWAS hits in

childhood cancer survivors: An analysis of 12 anthropometric and cardiometabolic phenotypes in the St. Jude Lifetime Cohort Study (SJLIFE). Abstract presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.

10. Ness KK, Partin RE, **Howell CR**, Krull KR, Brinkman TM, Armstrong GT, Chemaitilly W, Wilson CL, Mulrooney DA, Gibson TM, Lanctot JQ, Johnson RE, Krull MR, Shleton K, Srivastava DK, Robison LL & Hudson MM. Progression of frailty in young adult childhood cancer survivors. Abstract presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
11. Ehrhardt, MJ, **Howell CR**, Hale K, Baassiri MJ, Rodriguez C, Wilson CL, Joshi SS, Lemond TC, Shope S, Howell RM, Wang Z, Mulrooney DA, Zhang J, Robison LL, Ness KK, & Hudson MM. Breast cancer risk and detection in female childhood cancer survivors in the St. Jude Lifetime Cohort study. Abstract presented at the North American Symposium on Late Complications after Childhood Cancer, Atlanta, GA; 2019.
12. Ehrhardt, MJ, **Howell CR**, Hale K, Baassiri MJ, Rodriguez C, Wilson CL, Joshi SS, Lemond TC, Shope S, Howell RM, Wang Z, Mulrooney DA, Zhang J, Robison LL, Ness KK & Hudson MM. Breast cancer risk and detection in female childhood cancer survivors in the St. Jude Lifetime Cohort study. Abstract presented at the International Society of Paediatric Oncology Annual Meeting, Kyoto, Japan. 2018.
13. **Howell CR**, Gross H, Reeve B, DeWalt D, & Huang IC. Validation of PROMIS Scales in Adolescents and Young Adults with Special Health Care Needs: A Report from the PROMIS Linking Study. Abstract selected for Oral Presentation at the 22nd Annual Conference, International Society for Quality of Life Research, Vancouver, British Columbia, Canada; 2015.

Invited lectures/workshops at local and regional courses and meetings

1. Utilizing clinical and SDoH data in the electronic medical record to inform cardiometabolic disease prevention. Southeast Regional Clinical and Translational Science Conference invited speaker, February 2024.
2. Assessing and acting on SDoH: utilizing the PRAPARE at UAB. UAB Learning Health Systems month panelist, March 2023.
3. Assessing and acting on SDoH: an update on the Tinsley Harrison pilot project. Center for Population Health Studies monthly seminar, August 2022.
4. Harnessing social determinants of health data from the EMR for cardiometabolic outcomes research. Integrative Center for Aging Research Seminar, April 2022.
5. Harnessing social determinant of health data to inform cardiometabolic disease prevention and control. Division of Preventive Medicine Grand Rounds, December 2021.
6. Social determinants of health, insulin resistance and poor COVID-19 outcomes: A tale of two datasets, Invited panelist for UAB Learning Health Systems (LHS) month, Spring 2021.
7. Harnessing social determinant of health (SDoH) data to inform cardiometabolic disease intervention: Works in progress, Invited talk for the UAB Center for Outcomes and Effectiveness Research and Education (COERE) works in progress monthly seminar, Winter 2021.
8. Measuring and utilizing social determinants of health (SDOH) to inform cardiometabolic disease prevention and intervention: Works in progress, Invited talk for the UAB Center for Population Health Studies monthly seminar, Fall 2020.
9. Master Gardener Training for Walker and St. Clair Counties, Provided training about Harvest for Health project to volunteers, Jefferson County Forestry Office, May 2014.

10. A Vegetable Gardening Feasibility Study in Older Cancer Survivors, Presentation at the Race for the Cure Breakfast, Cullman, AL, April 2014.
11. Gardening and Health with Cancer Survivors: The Harvest for Health for Breast Cancer Survivors Program, Presentation to the Little Garden Club, Mountain Brook, AL, February 2014.
12. Master Gardener Training for Shelby and Blount Counties, Provided training about Harvest for Health project to volunteers, North Shelby County Library, December 2013.
13. Master Gardener Training for Jefferson County, Provided training about Harvest for Health project to volunteers, Birmingham Botanical Gardens, August 2013.
14. Harvest for Health for Breast Cancer Survivors, Presentation at the Princeton Baptist Breast Cancer Survivor Support Group, Birmingham, AL, July 2013.
15. Harvest for Health for Breast Cancer Survivors, Presentation at the St. Vincent's Cancer Survivor Support Group, Birmingham, AL, July 2013.
16. Community Gardens – A Micro Level Approach to Address Health Disparities. Minority Health. University of Alabama at Birmingham. Birmingham, AL, April 2013.
17. Data Collection in the Community Setting, St. Jude Children's Research Hospital, Cancer Prevention and Control Meeting, Spring 2008.

Media Presentations

TV Interview, WBRC Channel 40, Promoting Harvest for Health: Gardening Intervention in Breast Cancer Survivors, February 2014.

MISCELLANEOUS:

Statistical Languages: SAS

Software: ESRI ArcGIS for Desktop, June 2018 – Certificate in Cartography (ESRI)