

Health Sciences Center Research Division at Prisma Health

2022 Health Sciences Center Seed Grants

Presented by Title in Alphabetical Order

Transformative Seed Grant Awardees

| TITLE | PI/Co-PI | Team Members |
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| A Non-invasive Diagnostic Assay for Pediatric Eosinophilic Esophagitis | Mac Gilliland <i>Furman University</i> Jonathan Markowitz <i>Prisma Health</i> | Mike Wang (Prisma Health), Morgan Thomas (Furman University) |
| Adaptation of a Prediction Model for Neonatal Abstinence Syndrome in a Population of High-Risk Infants | Lori Ann Dickes <i>Clemson University</i> Jennifer Hudson <i>Prisma Health</i> | Dr. Windsor Sherrill, Clemson University; Dr. Rachel Mayo, Clemson University; Farah Tahsin and Leah Holcomb, Clemson University PhD students |
| Analysis and integration of patient galectin profiles into the clinical cancer database | Anna Blenda <i>USCSOMG</i> Jeffrey Edenfield <i>Prisma Health</i> | Julie Martin, Prisma Health; Larry Gluck, Prisma Health |
| Buddy to Care: Building Understanding of Determinants and Deficits impacting your Recovery | Jess Knapp <i>Prisma Health</i> Margie Stevens <i>USCSOMG</i> Alain Litwin <i>Prisma Health</i> | Meredith Eicken (Medicine; Co-I); Darin Thomas (Accountable Communities; Co-I); Caroline Rudisill (USC Arnold School of Public Health) Clemson Co-PI: Moonseong Heo (Department of Public Health Sciences) and Irene Pericot-Valverde (Department of Public Health Sciences) Furman Co-I: Shaniece Criss (Health Sciences) |
| Chagas disease seroprevalence among Latinx residents in South Carolina | Melissa Nolan <i>UofSC</i> | Patrick Kent-Prisma Health; Alain Litwin-Prisma Health; Jeff Hall-Prisma Health/UofSC SOM; Morgan Rhodes-Prisma Health/UofSC SOM; Kylie Stevens-UofSC SOM; Justin Cole-UofSC SOM |
| Early Detection of Adults At-Risk for Cognitive and Functional Decline | Christy Phillips <i>Clemson University</i> | Lesley Ross (Clemson), Melissa Bailey (Prisma), John Absher (Prisma) and Peter Tilkemeier (Prisma) |
| Emergency Medical Services (EMS) Cleaning Protocols: Efficacy of Decontamination Methods Against Bacterial Pathogens | Jennifer Grier <i>USCSOMG</i> Jenny Meredith <i>Prisma Health</i> | Steven Fiester Ph.D. UofSC SOMG; Elias Wheibe, USCSOMG; Kyleigh Connolly, USCSOMG |
| Equitability and health outcomes of telehealth supported HIV care in South Carolina | Jan Ostermann <i>UofSC</i> Helmut Albrecht <i>Prisma Health</i> | Caroline Derrick, Nicole Hair, Xiaoming Li, Nabil Natafqi, Bankole Olatosi, Shawn Owens, Shan Qiao, Sharon Weissman |

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| Establishing a microRNA biomarker system to monitor cardiorespiratory fitness | Kurt Barringhaus <i>Prisma Health</i> Sarah Slone <i>UofSC</i> | Victoria Yandle--PRISMA/UofSC Nursing; Consultant: Francis Spinale, UofSC |
| Evaluation of Community Appropriateness of a Pediatric Wellness Program | Kerry Sease <i>Prisma Health</i> Sarah Griffin <i>Clemson University</i> | Melissa Fair (Furman University) |
| Expanding Community Paramedicine at Prisma Health-Upstate: The Implementation and Evaluation of Point of Care Testing on Health Care Utilization and Stakeholder Satisfaction for Chronic Disease Management | Wesley Wampler <i>Prisma Health</i> Jennica Siddle <i>Prisma Health</i> Sarah Floyd <i>Clemson University</i> | Scott Gosnell, Mirinda Gormley, Alex Ewing, Ronald Pirrallo (all Co-Is are Prisma Health) |
| Feasibility of a clinic-to-community partnership providing vouchers to promote healthy food access among SNAP families with food insecurity | Elizabeth Adams <i>UofSC</i> | Dr. Kathryn Stephenson at Prisma Health, University of South Carolina (Clinical Investigator); Beverly Wilson, Executive Director of FoodShare; Carrie Draper at University of South Carolina; Dr. Elizabeth A. Steeves at University of Tennessee at Knoxville; Statistical & Data Management Core at University of South Carolina |
| Feasibility of the CP iLink program: A novel telemedicine intervention in which community paramedics connect patients with Hepatitis C virus to treatment | Mirinda Gormely <i>Prisma Health</i> Phillip Moschella <i>Prisma Health</i> Moonseong Heo <i>Clemson University</i> | Prerana Roth PRISMA Health, Susan Cordero-Romero PRISMA Health, Wesley Wampler PRISMA Health, Scott Gosnell PRISMA Health, and Jennica Siddle PRISMA Health |
| Finger-to-Nose (FTN) Test to Improve Emergency Medical Services (EMS) Pre-Hospital Recognition of Posterior Stroke | Sarah Fabiano <i>Prisma Health</i> | Daniel Schwerin, Department of Emergency Medicine; Lauren Fowler, UofSC SOM-Greenville; Zach Langston, Prisma Health-Upstate Stroke Program |
| High-resolution real-time brain imaging system using novel CdZnTeSe semiconductor detector arrays trained with convolutional neural network | Krishna Mandal <i>UofSC</i> Souvik Sen <i>USCSOMC</i> | Prof. Chris Rorden, SmartState Endowed Chair of Neuroimaging, Dept. of Psychology, UofSC, rorden@mailbox.sc.edu |
| How Low Can You Go? Clinician Shortages and System Resilience in the Emergency Department | Emily Tucker <i>Clemson University</i> Arwen Declan <i>Prisma Health</i> | Joshua Gray (Prisma); Zachary Kahler (Prisma); Jessica Hobbs (Prisma); Ben Grannan (Furman); Michael Ramsay (Prisma) |
| Identifying predictive factors of HIV care discontinuation using clinical Natural Language Processing | Chen Liang <i>UofSC</i> | Sharon Weissman, MD (Prisma) |

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| Integrating Home Virtual Home Assistant Use into Prisma Health SeniorCare PACE Participants' Care Plans | Cythia Corbett <i>UofSC</i> Michael Parmer <i>Prisma Health</i> | Kate Jones, University of South Carolina; Otis Owens, University of South Carolina |
| Intergenerational impact of adverse childhood experiences on offspring gene expression | Jessica Britt <i>Prisma Health</i> Moonseong Heo <i>Clemson University</i> | Amy Crockett, MD, MPH, Prisma Health; Lauren Keenan-Devlin, PhD, NorthShore University; Ann Borders, MD, NorthShore University |
| Investigating the Use of Exoskeletons for Reducing Musculoskeletal Injuries in Surgical Care Tasks | Jackie Cha <i>Clemson University</i> Alfredo Carbonell <i>Prisma Health</i> | Anjali Joseph (Clemson University); Divya Srinivasan (Clemson University) |
| Longitudinal assessment of the relationship between sleep, fatigue, pain, cognition and quality of life in breast cancer survivors | Lauren Fowler <i>USCSOMG</i> Matt Hudson <i>Prisma Health</i> | Mark O'Rourke, Prisma Health and USCSOMG |
| Mixed-methods Study to Evaluate and Improve Emergency Department Handoffs Based on Stakeholder Experience | Sudeep Hegde <i>Clemson University</i> Ronald Pirrallo <i>Prisma Health</i> | Kevin Taaffe, Clemson University; Steven Foster, Clemson University |
| Molecular mechanisms of cancer metastasis and new strategies for treatment | Luigi Boccutto <i>Clemson University</i> Jeffery Edenfield <i>Prisma Health</i> | Diana Ivankovic, Clemson University; Ki Chung, Prisma Health |
| Ostomy Nursing Care Tasks and Patient Outcomes: Pilot Study | Melinda Harman <i>Clemson University</i> Casey Hopkins <i>Clemson University</i> | Abby Washburn, BSN, RN, CWOCN; Elizabeth Dray, MD; Yuliya Yurko, MD, FASCRS |
| Precise taxonomic profiling of the postmenopausal urothelium microbiome associated with recurrent urinary tract infections towards informed probiotic design | Vincent Richards <i>Clemson University</i> Kimberly Burgess <i>Prisma Health</i> | |
| Preventing Falls among Older Adults in Upstate South Carolina through Hospital Emergency Department Screenings, Referrals & Follow-up | Brandi Crowe <i>Clemson University</i> Arwen Declan <i>Prisma Health</i> | Marieke Van Puymbroeck, PhD, CTRS (Clemson University); Karen Kemper, MSPH, PhD (Clemson University); Bill Chiles, MD (Prisma Health-Upstate); Nathan Hudepohl, MD (Prisma Health-Upstate); Michael Ramsay, MD (Prisma Health-Upstate); and Alex Ewing, PhD (Prisma Health-Upstate) |
| Project GROW - An Outreach Program to Improve Lung Cancer Screening in Rural Communities | Sarah Tomashefski <i>Prisma Health</i> Tracy Fasolino <i>Clemson University</i> | Whitley Redfearn (Prisma), Jessica Lamb (Prisma), Azim Surka (Prisma), Joe Bible (Clemson) |

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| Quantification of Plantar Pressure and Diabetic Foot Ulcer Healing Metrics to Evaluate Treatment Strategies | Jordan Gilmore <i>Prisma Health</i> Joel Kidd <i>Clemson University</i> | Dr. John DesJardins - Clemson University |
| Transcription profiling of non-coding RNA alternative splicing | Congyue Peng <i>Clemson University</i> Ki Chung <i>Prisma Health</i> | Liangjiang Wang, Clemson University |
| Uncovering fatigue mechanisms with cancer treatment: mitochondrial capacity and correlated molecular changes in breast cancer patients undergoing comparative chemotherapy regimens | Jennifer Trilk <i>USCSOMG</i> Larry Gluck <i>Prisma Health</i> | Randolph Hutchison PhD (Furman), Renee Chosed PhD (UofSC), Carla Jorgensen MD (Prisma), Joe Stevenson MD (Prisma), Jeff Edenfield MD (Prisma) |
| Using CGM technology to assess acute impact of food insufficiency and food insecurity on glycemic control in persons with youth-onset type 1 and type 2 diabetes | Angela Liese <i>UofSC</i> | Elaine Apperson (Prisma Health Upstate), Lisa Knight (Prisma Health Midlands), Caroline Rudisill (UofSC), Jay Mendoza (University of Washington); Ann Blair Kennedy, University of South Carolina School of Medicine Greenville (USCSOMG) |
| Using Data to Drive Implementation - Stakeholder Perspectives on Screening and Addressing Social Determinants of Health at Prisma Health | Caroline Rudisill <i>UofSC</i> Meredith Eicken <i>Prisma Health</i> | Darin Thomas, MSW, MBA (Prisma Health); Stella Self, PhD (Arnold School of Public Health, Univ of SC); Mark Macuada, PhD (Arnold School of Public Health, Univ of SC); Deeksha Gupta, MA (student, Arnold School of Public Health, Univ of SC); Jackson Hartley (student, School of Medicine Greenville, Univ of SC); Ann Blair Kennedy, PhD (School of Medicine Greenville, Univ of SC) |