

Health Sciences Center at Prisma Health 2023 Research Seed Grant Awardees

Presented by Title in Alphabetical Order

Title	Principal Investigator / Co-Investigator	Team Members
A Produce Prescription Program to Address Food Security and Increase Fresh Fruit and Vegetable Consumption among Low-income Pediatric Patients	Melissa Fair, <i>Furman University</i> ; Kerry Sease, <i>Prisma Health</i>	MacKenzie Stuenkel, <i>Prisma Health</i> ; Sally Wills, <i>LiveWell Greenville</i> ; Susan Frantz, <i>LiveWell Greenville</i>
Advancing Methods for the Diagnosis of Adverse Developmental Programming	Celina M. Checura, <i>Clemson University</i> ; Jessica Britt, <i>Prisma Health</i>	Amy Crockett, <i>Prisma Health</i> ; Yu-Bo Wang, <i>Clemson University</i>
Analysis of Patient Glycomic Profiles in Search for Breast Cancer Signatures Using Machine Learning Approach	Homayoun Valafar, <i>University of South Carolina</i> ; W. Jeffery Edenfield, <i>Prisma Health</i>	Anna Blenda, <i>USCSOMG</i>
Application of Artificial Intelligence (AI) in Predicting the Outcome of Cancer in Patients Using Cancer-Critical Gene Sequences and Clinical Data	Anna Blenda, <i>USCSOMG</i> ; Julie Martin, <i>Prisma Health</i>	Homayoun Valafar, <i>USC</i> ; W. Jeffery Edenfield, <i>Prisma Health</i>
Boundary Spanning to Improve NICU Teamwork	Allison Traylor, <i>Clemson University</i> ; Bryan Ohning, <i>Prisma Health</i>	Riley McCallus, <i>Clemson University</i> ; Lizzie Bell, <i>Clemson University</i> ; Jordan Smith, <i>Clemson University</i>
Brain Age as a Potential Biomarker for Early Stroke Symptoms and Recovery	Sigfus Kristinsson, <i>University of South Carolina</i> ; John Absher, <i>Prisma Health</i>	Roger Newman-Norlund, <i>USC</i> ; Lisa Johnson, <i>USC</i> ; Alex Teghipco, <i>USC</i> ; Julius Fridriksson, <i>USC</i> ; Naveen Parti, <i>Prisma Health</i> ; Jan Vargas Machaj, <i>Prisma Health</i>
Community and Institutional Impacts of the Root Cause Community Health Initiative	Jennifer Springhart, <i>Prisma Health</i> ; Jennifer Grier, <i>USCSOMG</i>	Jennifer Trilk, <i>USCSOMG</i> ; Lauren Fowler, <i>Wake Forrest School of Medicine</i> ; Darby Billing, <i>USCSOMG</i> ; Elise Kao, <i>USCSOMG</i> ; Katelyn Haywood, <i>USCSOMG</i> ; Alyssa Guo, <i>USCSOMG</i> ; Jason Li, <i>Greenville Technical College</i>
Comprehensive and User-Analytics-Friendly Cancer Patient Database for Physicians and Researchers	Homayoun Valafar, <i>University of South Carolina</i> ; W. Jeffery Edenfield, <i>Prisma Health</i>	Anna Blenda, <i>USCSOMG</i> ; Julie Martin, <i>Prisma Health</i>
Countermeasures for Fatigue and Assessment of Functional Capacity in Residents	Jennifer Grier, <i>USCSOMG</i> ; Emily Hirsh, <i>Prisma Health</i>	Lauren A. Fowler, <i>Wake Forest School of Medicine</i> ; Jennifer T. Grier, <i>USCSOMG</i> ; Haley C. Meltzer, <i>USCSOMG</i> ; Elias Wheibe, <i>USCSOMG</i>

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Detecting and mitigating AI bias in automated medical diagnosis	Yongkai Wu, <i>Clemson University</i> ; Mike Devane, <i>Prisma Health</i>	Ervin Lowther, <i>Prisma Health</i>
Development and Pilot of a Trauma Screening/Referral and Sexual Violence Prevention Protocol for Women with Substance Use Disorders	Heidi Zinzow, <i>Clemson University</i> ; Kacey Eichelberger, <i>Prisma Health</i>	Irene Pericot-Valverde, <i>Clemson University</i> ; Alain Litwin, <i>Prisma Health</i> ; Melissa Fair, <i>Furman University</i> ; Prerana Roth, <i>Prisma Health</i> ; Kimbley Smith, <i>Phoenix Center</i>
Development of a High-Resolution Ion Mobility-Mass Spectrometry-Based Assay for the Study of Pediatric Gastritis	Christopher Chouinard, <i>Clemson University</i> ; Michael Dougherty, <i>Prisma Health</i>	Ralph Aderorho, <i>Clemson University</i>
Establishing current state of practice for using therapeutic yoga with older adults	Em V Adams, <i>Clemson University</i> ; Arwen Declan, <i>Prisma Health</i>	Brandi M. Crowe, <i>Clemson University</i> ; Marieke Van Puymbroeck, <i>Clemson University</i> ; Arlene A. Schmid, <i>Colorado State University</i>
Evaluation of a Novel Sperm Fertility Cycle Marker in IVF Patients undergoing Intra-Cytoplasmic Sperm Injection	Richard Kordus, <i>Prisma Health</i> ; William Roudebush, <i>USCSOMG</i>	Paul Miller, <i>Prisma Health</i> ; Creighton Likes, <i>Prisma Health</i> ; Lisa Green, <i>Prisma Health</i> ; Johanna Von Hofe, <i>Prisma Health</i> ; Chelsea Fox, <i>Prisma Health</i> ; Aubrey Schaab, <i>Prisma Health</i> ; Stephanie Sheppard, <i>Prisma Health</i> ; Savannah Erck, <i>Prisma Health</i> ; Allie Fusco, <i>Prisma Health</i> ; Ross Lordo, <i>Prisma Health</i> ; Emily Strawbridge, <i>Prisma Health</i> ; Nicole Russell, <i>USCSOMG</i> ; Andi Gilmorex, <i>USCSOMG</i>
Examining the Effectiveness of Behavioral Interventions for Methamphetamine Use Disorder	Kaileigh Byrne, <i>Clemson University</i> ; Alain Litwin, <i>Prisma Health</i>	Irene Pericot-Valverde, <i>Clemson University</i> ; Moonseong Heo, <i>Clemson University</i>
Exploring Client Meaningful Experiences within the Department of Psychiatry at Prisma Health	Corrine R. Sackett, <i>Clemson University</i> ; Bailey Nevels, <i>Prisma Health</i>	Ryan M. Cook, <i>University of Alabama</i> ; Neha Hudepohl, <i>Prisma Health</i>
Frequency and timing of positive screening for perinatal depression via automated MyChart screening	Neha Hudepohl, <i>Prisma Health</i> ; Laura Carlson, <i>Prisma Health</i>	Anna Baker, <i>Clemson University</i>
Improving Blue Light Distribution in Hyperbilirubinemia Treatment	Vincent Y. Blouin, <i>Clemson University</i> ; Jennifer A. Hudson, <i>Prisma Health</i>	Rachel Mayo, <i>Clemson University</i> ; Lori Dickes, <i>Clemson University</i> ; Windsor Sherrill, <i>Clemson University</i>
Investigation of Mitophagy Activation in the Preimplantation Embryo	Chelsea Fox, <i>Prisma Health</i> ; Luigi Boccuto, <i>Clemson University</i>	Rich Kordus, <i>Prisma Health</i> ; Renee Chosed, <i>USCSOMG</i> ; Jessie Britt, <i>Clemson University</i> ; Diana Ivankovic, <i>Clemson University</i>
Leveraging Data to Promote Health Equity: Assessing maternal health outcomes during the 4th trimester for women with substance use disorders at the Magdalene Clinic	Phyllis Raynor, <i>University of South Carolina</i> ; Abbas Tavakoli, <i>University of South Carolina</i>	Kacey Eichelberger, <i>Prisma Health, USCSOMG</i> ; Melissa Fair, <i>Furman University</i>

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Leveraging existing community programs as a treatment modality for hypertension risk among youth	Bridget Armstrong, <i>University of South Carolina</i> ; Sudha Garimella, <i>Prisma Health</i>	Abbi Lane, <i>USC</i> ; Michael Beets, <i>USC</i>
Medical Legal Partnership- Return on Investment Study	Kerry Sease, <i>Prisma Health</i> ; Melissa Fair, <i>Furman University</i>	Samantha Renaud, <i>USC CRPH</i>
Menstrual Knowledge and Self-Efficacy Among Young Women with Intellectual and Developmental Disabilities	Casey Hopkins, <i>Clemson University</i> ; Tina Randall, <i>Clemson University</i>	Dianna Gurich, <i>Prisma Health Upstate</i>
Neuro-trauma Feedback System, An investigational study of electroencephalography variability monitoring in emergency care clinicians for the early detection of acute stress disorder	Nicholas D. Boltin, <i>University of South Carolina</i> ; Ronald Pirralo, <i>Prisma Health</i>	Brandon Williams, <i>Cogito LLC</i> ; Sam Yeboah, <i>Cogito LLC</i> ; Yogesh Rana, <i>Cogito LLC</i> ; Bashar Elkatib, <i>USC</i> ; Pranav Saravanan, <i>USC</i> ; Gabriel Anolin, <i>USC</i> ; Kyle Geolas, <i>USC</i> ; MacKenzie Meier, <i>USC</i>
Persistent Frequent Emergency Department Users in South Carolina: Who Are They and How Do They Use Other Cross-Sector Services?	Theodoros V. Giannouchos, <i>University of South Carolina</i> ; Ronald Pirralo, <i>Prisma Health</i>	
Pharmacokinetics and drug extraction of phenobarbital in an operational ex-vivo extracorporeal membrane oxygenation (ECMO) circuit.	Daniel LoVerde, <i>Prisma Health</i> ; Amber Stola, <i>Prisma Health</i>	Haley Thompson, <i>Prisma Health</i> ; Jeoungsoo Lee, <i>Clemson University</i>
Piloting a Physical Exam Teaching Associate (PETA) Program for Preclinical Medical Students	E. Page Bridges, <i>USCSOMG</i> ; Rob Morgan, <i>Prisma Health</i>	Clare Shaffer, <i>Simulation Center</i> ; Emily Pritchard, <i>Simulation Center</i> ; Kara Templeton, <i>Simulation Center</i> ; April Brown, <i>Simulation Center</i> ; Caroline Astemborksi, <i>Prisma Health</i> ; Jeremy Byrd, <i>Prisma Health</i> ; Phil Manley, <i>Prisma Health</i>
Pre-exposure Prophylaxis Provided in the Emergency Department: The PrEPPED Study	Phillip Moschella, <i>Prisma Health</i> ; Moonseong Heo, <i>Clemson University</i>	Mirinda Gormley, <i>Prisma Health</i> ; Alain Litwin, <i>Prisma Health</i> ; Prerana Roth, <i>Prisma Health</i>
PREMISCE: Prehospital MOUD in South Carolina, our Endeavor!	Mirinda Gormley, <i>Prisma Health</i> ; Sarah Floyd, <i>Clemson University</i>	Phillip Moschella, <i>Prisma Health</i> ; Aaron Dix, <i>Prisma Health</i> ; Gerald Beltran, <i>Prisma Health</i> ; Wesley Wampler, <i>Prisma Health</i> ; Luke Estes, <i>Prisma Health</i>
Restoring function and enhancing self-management in pediatric chronic pain patients via the RESET program	Kate Gamwell, <i>Prisma Health</i> ; Anna Baker, <i>Clemson University</i>	Blake Windsor, <i>Prisma Health</i> ; Crystal Cmeyla, <i>Prisma Health</i>
Tandem VR: Synchronized nature-based experiences in virtual reality for hospice patients and their caregivers	Joshua Keais Pope, <i>Prisma Health</i> ; Jason R. Thrift, <i>Clemson University</i>	Tracy Fasolino, <i>Clemson University School of Nursing</i> ; Matt Browning, <i>Clemson University Virtual Reality and Nature Lab</i> ; Olivia McAnirlin, <i>Clemson University</i>

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The DREAM: developing a pipeline for integrating automated extraction of clinical data, quality data, and neuroimaging metadata in acute stroke hospitalizations	Alex Teghipco, <i>University of South Carolina</i> ; John Absher, <i>Prisma Health</i>	Alex Teghipco, <i>USC</i> ; John Absher, <i>Prisma Health</i> ; Roger Newman-Norland, <i>USC</i> ; Naveen Parti, <i>Prisma Health</i> ; Jan Vargas, <i>Prisma Health</i> ; Nicholas Perkins, <i>Prisma Health</i> ; Lisa Johnson, <i>USC</i> ; Sigfus Kristinsson, <i>USC</i> ; Julius Fridriksson, <i>USC</i> ; and Chris Rorden, <i>USC</i>
Towards a Compassionate Approach to Pregnancy and Substance Use – A Clinical Partnership to Measure Efficacy of a Novel Treatment Approach to Prenatal Care for Women with Substance Use Disorders	Lori A. Dickes, <i>Clemson University</i> ; Kacey Eichelberger, <i>Prisma Health</i>	Melissa Fair, <i>Furman University</i> ; Rachel Mayo, <i>Clemson University</i> ; Jennifer Hudson, <i>Prisma Health</i> ; Windsor Sherrill, <i>Clemson University</i> ; Katie Howle, <i>Prisma Health</i>
Understanding and Preventing Follow-up Visit Noncompliance in Orthopedic Trauma Patients	Paisley Myers, <i>Prisma Health</i> ; Sarah Floyd, <i>Clemson University</i>	Kevin Murr, <i>Prisma Health</i> ; Benjamin Jackson III, <i>Prisma Health</i>
Usability-driven Anomaly Identification for Physiological Sensors in Training	Jackie Cha, <i>Clemson University</i> ; Alfredo Carbonell, <i>Prisma Health</i>	Dan Li, <i>Clemson University</i>
Using Targeted Mass Spectrometry to Screen IVF-Generated Embryos for Molecular Markers Associated with Pregnancy Outcomes	Renee Chosed, <i>USCSOMG</i> ; Lisa Green, <i>Prisma Health</i>	William Roudebush, <i>USCSOMG</i> ; Richard Kordus, <i>Prisma Health</i> ; Aubrey Schaab, <i>Prisma Health</i> ; Savannah Erck, <i>Prisma Health</i> ; Alexandria Fusco, <i>Prisma Health</i> ; Michael Walla, <i>USC Columbia Mass Spec</i>
Wearable robotics and training interventions to improve the quality and safety of patient handling by emergency medical service providers	Divya Srinivasan, <i>Clemson University</i> ; Gerald Beltran, <i>Prisma Health</i>	Jackie Cha, <i>Clemson University</i> ; Jessica Aviles, <i>Clemson University</i>