

Prisma Health Education & Research Institute 2025 Research Seed Grant Awardees

Presented by Title in Alphabetical Order

Title	Principal Investigator	Team Members
A Prospective Comparison of Two Different Sperm Preparation Techniques on the Presence of DNA Fragmentation and Embryo Development	Richard Kordus, <i>Prisma Health</i>	Celina Checurea, <i>Clemson University</i> ; Carolina Elgarresta, <i>Clemson University</i> ; Emily Grace Strawbridge, <i>Prisma Health</i> ; Allie Fusco, <i>Prisma Health</i> ; Savannah Erck, <i>Prisma Health</i> ; Johanna Von Hofe, <i>Prisma Health</i>
Biopsychosocial-environmental Factors and Cognitive Function in Mid to Later Life: Translating Findings to Clinical Practice	Hye Won Chai, <i>Clemson University</i>	Abigail Stephan, <i>Clemson University</i> ; Veronica Deas, <i>Prisma Health</i> ; Lesley Ross, <i>Clemson University</i> ; Alyssa Gamaldo, <i>Clemson University</i>
Bridging the Gap: Ensuring connection to care for HCV+ individuals living with addiction	Michelle Strong, <i>Prisma Health</i>	Moonseong Heo, <i>Clemson University</i> ; Wesley Wampler, <i>Prisma Health</i> ; Prerana Roth, <i>Prisma Health</i> ; Mirinda Ann Gormley, <i>Prisma Health</i> ; Alain Litwin, <i>Prisma Health</i>
Burnout Prevention for Medical Professionals	Sarah Waylett, <i>Furman University</i>	Russ Kolarik, <i>Prisma Health</i> ; Kerry Sease, <i>Furman University</i> ; Rachel Brown, <i>Thriving Workforce Solutions</i>
Characteristics and Outcomes among Rural Kidney Transplant Recipients	Erin Weeda, <i>USCSOMG</i>	Derek Dubay, <i>Prisma Health</i> ; Arwen Declan, <i>Prisma Health</i>
Determination of Minority-Inclusive Circular RNAs as Ethnicity-Specific Lung Cancer Biomarkers	Anna Blenda, <i>USCSOMG</i>	W. Jeffrey Edenfield, <i>Prisma Health</i> ; Michael Shtutman, <i>University of South Carolina</i> ; Julie Martin, <i>Prisma Health</i> ;
Developing an empirical model to support seamless integration of wastewater-based epidemiology into the chronic disease care model	Devin A. Bowes, <i>University of South Carolina</i>	Meenu Jindal, <i>Prisma Health</i> ; Jennifer May, <i>University of South Carolina</i> ; Curisa Tucker, <i>University of South Carolina</i> ; J. Alton Crocker, <i>University of South Carolina</i>
Developing models to enable responsive decision-making and manage capacity in short-term in the ED	Kevin Taaffe, <i>Clemson University</i>	Chris Gaafary, <i>Prisma Health</i> ; Ronald Pirrallo, <i>Prisma Health</i> ; Jessica Hobbs, <i>Prisma Health</i> ; Michael Ramsay, <i>Prisma Health</i> ; William Jackson, <i>Prisma Health</i>

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Development and Evaluation of an AI Assistant for Trauma Triage Level Classification	Sudeep Hegde, <i>Clemson University</i>	Hussein Gaafary, <i>Prisma Health</i> ; Carl Ehrett, <i>Clemson University</i> ; Ronald Pirrallo, <i>Prisma Health</i>
Development of a noninvasive swabbing method for colonic polyp detection	Carole Oskeritzian, <i>USCSOMC</i>	Amelia Bartholdi, <i>Prisma Health</i> ; Laketa (Monique) Hillman-Daughety, <i>Prisma Health</i> ; Julia Adams, <i>Prisma Health</i> ; Helmut Albrecht, <i>Prisma Health</i> ; Yvonne Hui, <i>University of South Carolina</i>
Digital PCR Quantification of Replication Competent and Defective Provirus: A New Diagnostic and Prognostic Tool for the Management of People Living with HIV	Michael Shtutman, <i>University of South Carolina</i>	Helmut Albrecht, <i>Prisma Health</i> ; Rosemarie Booze, <i>University of South Carolina</i>
Drug Resistance in Esophageal Cancer Through the Use of Omeprazole	Christopher Farrell, <i>Clemson University</i>	W. Jeffrey Edenfield, <i>Prisma Health</i>
Elucidating the biological mechanisms of vaginal progesterone on reducing pre-term birth: Does vaginal progesterone alter vaginal microbiome profiles leading to perinatal vaginal homeostasis?	Melissa Nolan, <i>University of South Carolina</i>	Anthony Gregg, <i>Prisma Health</i>
Expanding Emergency Department Alternatives to Opioids to Non-English, Spanish-Speaking Patients	Phillip Moschella, <i>Prisma Health</i>	Sarah B. Floyd, <i>Clemson University</i> ; Jose Carrea Ibarra, <i>Prisma Health</i> ;
Exploring the health of Black preterm infants and psychosocial challenges faced by mothers in relationship to multiple determinants of health	Karen Warren, <i>University of South Carolina</i>	Joshua Cooper, <i>Prisma Health</i> ; Nicole Cothran, <i>Prisma Health</i>
Frequency Modulation of Tumor Treating Fields for Management of Glioblastoma: Precision Medicine in Oncology	Jennifer Grier, <i>USCSOMG</i>	John O'Connell, <i>Prisma Health</i> ; Christine Schammel, <i>Prisma Health</i> ; Charles Opalak, <i>Prisma Health</i> , Jonathan Stenbeck, <i>Prisma Health</i> ; Kati McCord, <i>Prisma Health</i> ; Jason Henderson, <i>Quiverent</i>
Identifying causative pathogens in bloodstream infections in patients with leukemia	Peter Gyarmati, <i>USCSOMG</i>	Aniket Saha, <i>Prisma Health</i>

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Implementing Fit for Function in South Carolina: An Evidenced-Based Exercise Program for People After Stroke. A Pilot Effectiveness and Implementation Study	Elizabeth Regan, <i>University of South Carolina</i>	Ashlee Gregory, <i>Prisma Health</i>
Improving Intrapartum Infection Diagnostics and Treatment	Pamela Bailey, <i>Prisma Health</i>	Amy Crockett, <i>Prisma Health</i> ; Brian Chen, <i>University of South Carolina</i>
Investigating synergism of frequency-modulated tumor treating fields and chemotherapies for treatment of triple-negative breast cancer	Brian Booth, <i>Clemson University</i>	John O'Connell, <i>Prisma Health</i>
Over the Counter Continuous Glucose Monitors: Effectiveness Evaluated as a Tool to Improve Prediabetes and Diabetes-related Outcomes	Vivian Haley-Zitlin, <i>Clemson University</i>	Michelle Stancil, <i>Prisma Health</i> ; Meenu Jindal, <i>Prisma Health</i>
Predicting Responsiveness to Renal Denervation	Kurt Barringhaus, <i>Prisma Health</i>	Sarah Slone, <i>University of South Carolina</i> ; Hata Mujadzic, <i>Prisma Health</i> ; Vince Vismara, <i>Prisma Health</i> ; Summer Aldrugh, <i>Prisma Health</i> ; Nicholas Caulder, <i>Prisma Health</i> ; Lisa Freeburg, <i>USCSOMC</i>
Reducing Hospital Falls: A Cross-Disciplinary Approach to Evaluating and Improving Fall Prevention Strategies	Jessica Aviles, <i>Clemson University</i>	Dechristian Barbieri, <i>Clemson University</i> ; Carol Tuten, <i>Prisma Health</i> ; Sonia Paul, <i>Prisma Health</i> ; Shawn Toole, <i>Prisma Health</i> ; Laura Beth Soler, <i>Prisma Health</i>
Salivary Biomarkers as Indicators for Concussion Diagnosis: A Non-Invasive Approach	Carolyn Banister, <i>University of South Carolina</i>	Jeffrey Holloway, <i>Prisma Health</i>
STI BAD: Sexually Transmitted Infection Biobank for Advanced Diagnostics	Jeff Anker, <i>Clemson University</i>	Phillip Moschella, <i>Prisma Health</i> ; Tzuen-Rong Jeremy Tzeng, <i>Clemson University</i> ; Jose Correa-Ibarra, <i>Prisma Health</i>
Targeted prehabilitation with physical exercise and inspiratory muscle training for elderly frail patients prior to ventral hernia repair.	Jeremy Warren, <i>Prisma Health</i>	Alfredo Carbonell, <i>Prisma Health</i> ; Brittany Kothari, <i>USCSOMG</i> ; Elizabeth Regan, <i>University of South Carolina</i>

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The ARCHIV Study – Assessing the Completeness of EHR data in Capturing Prescription and Non-Prescription Polypharmacy Burden in People Living with HIV	Brian Chen, <i>University of South Carolina</i>	Caroline Derrick, <i>Prisma Health</i> ; Jan Ostermann, <i>University of South Carolina</i> ;
Understanding fertility care decision making among sexual and gender minorities in South Carolina	Marta Bornstein, <i>University of South Carolina</i>	Lisa Green, <i>Prisma Health</i>
Unraveling the Impact of Fetal Sex on Expression and Activity of Xenobiotic Transporters at the Blood-Placenta Barrier	Kylie Rock, <i>Clemson University</i>	Amy Crockett, <i>Prisma Health</i>
Using CliftonStrengths Training to Promote Well-Being and Team Communication in Medical Students	Riley McCallus, <i>Furman University</i>	Elizabeth Page Bridges, <i>Prisma Health</i> ; Anna Cass, <i>Furman University</i> ; Kim Keefer, <i>Furman University</i> ; Jennifer Springhart, <i>USCSOMG</i> ; Jennifer Grier, <i>USCSOMG</i>