6th Annual Student Research Symposium

January 10, 2025

SYMPOSIUM SCHEDULE

Anna Blenda, PhD Director of Research Strategy and Operations University of South Carolina School of Medicine Greenville

Phylis MacGilvray, MD, FAAFP, Dip ABLM Dean University of South Carolina School of Medicine Greenville

Alain H. Litwin, MD Chief Scientific Officer Prisma Health Professor of Medicine University of South Carolina School of Medicine Greenville

Oral Presentations		9:00 AM - 10:30 AM
Main Ballroom	A series and a series of the s	

Coffee Break	
Poster Session 1 Carolina Ballroom	10:45 AM – 12:00 PM
Carolina Balloonn	

Lunch and Recognition of Student Mentors 12:00 PM – 12:45 PM Atrium

Poster Session 2	12:45 PM – 2:00 PM
Carolina Ballroom	

Adjournment



Find the Abstract Book on our website at https://grco.de/bffHPQ

POSTER SESSION 1

Rachel Adickes - Abstract #47

Clinical Nutrition Collaborative

Brittany Austin - Abstract #99

Racial Realities: Breast Cancer Through Different Lenses

Louise Averitt - Abstract #51

Burnout in Medical Students Involved in Community Outreach

Anna Bazell - Abstract #35

Applications of Commercially Available Human Amniotic Membrane (hAM)-Derived Products in Peripheral Nerve Repair: A Current Literature Review

Sarah Brown - Abstract #59

The Role of Social Determinants of Health on Patient Outcomes Using Lifestyle Medicine Interventions

Victoria Callicott - Abstract #105

Prehospital Buprenorphine Programs in the United States: A Scoping Review

Sabrina Carrel - Abstract #112

Research Ready: Meeting Student Needs at USCSOMG

Makayla Cook - Abstract #34

Patient Education and Preferences on A1C Testing: POC vs Venipuncture

Haven Curtis - Abstract #126

Hybrid Academic/Community Cellular Therapy (CT) Program, Adverse Events and Outcomes Post CAR-T in Hematological Malignancies Including Outpatient Experience: A Retrospective Chart Review

Austin D'Addario - Abstract #110

Prevena Negative Pressure Wound Therapy on Surgical Site Occurrences Following Open Femoral Access in Vascular Surgery

Jared Dawson - Abstract #76

Cultural Humility in Action: Clinician Strategies for Approaching Lifestyle Medicine Interventions Across Cultural Barriers

Rachel Donaldson - Abstract #53

Quantifying Plastic and Reconstructive Surgery Engagement in the Evolution of ICD-10 Codes

Andrew Doty - Abstract #83

Preliminary Evidence of Effectiveness of Frequency Modulated Tumor Treating Fields in the Treatment of Glioblastoma Multiforme in vitro

Erin Dozier - Abstract #7

Radial Scars: To Excise or Not to Excise

Emily Duckworth - Abstract #2

Breast Reduction as a Catalyst for Positive Lifestyle Change: A Retrospective Survey Analysis

Ashleigh Farmer - Abstract #103

Retrospective Analysis of Radiation Dose Savings Among Patients Undergoing UAE, PAE, and TIPS Procedures

Nathan Faulstich - Abstract #101

Sex Differences in Clinical Risk Factors for Alzheimer's Disease Patients with Early-Onset and Late-Onset

Delaney Foster - Abstract #32

Sex-Dependent Nutritional Impacts on Puberty Onset

Andre Gagliano - Abstract #44

Defining Medication Reconciliation Practices and Needs at GMH: A Pilot Qualitative QI Exploration

Bricen Ghent - Abstract #87

Investigating Patient-Reported Outcomes Measurement Information System Scores (PROMIS) and Skeletal Muscle Mitochondrial Function in Breast or Gynecologic Cancer Patients Undergoing Chemotherapy

Hanes Grafe - Abstract #49

Impact of Various Adaptive Sports on Depression and Quality of Life in Persons with Disabilities

Patricia Greene - Abstract #30

Unveiling Opioid Prescribing Patterns Following Outpatient Anorectal Surgery

Shannon Harold - Abstract #55 Decoding Disparities: How Genetic Mutations Impact Breast Cancer Across Racial Groups

Jayda Hart - Abstract #114

Epigenetic Profiling of Cell-Free DNA in IVF Embryos

Samuel Horkey - Abstract #10

Percutaneous Cholecystostomy

Kyle Jardim - Abstract #95

Intersection of Stress, Sex & Gender, and Coronary Artery Disease

Conner Johnson - Abstract #57

Impact of the COVID-19 Pandemic on Emergency Department Utilization of Initial Fibrinolysis for the Treatment of ST-Segment Elevation Myocardial Infarction

Nabeeha Khan - Abstract #14

GRASP Dynamic Contrast Enhanced MRI Can Be Used to Monitor Response to Stereotactic Radiosurgery in Head and Neck Paragangliomas

John Kurtz - Abstract #90

Al Decision Support Tool for Detecting Stressful Events and Characterizing Neurological Biomarkers to Understand Burnout in Emergency Physicians

Ronnie Keel - Abstract #67

The Impact of Community-based Adaptive Sports on Depression and Quality of Life in Persons with Disabilities

Sammy Khalil - Abstract #116

Exploring Motivation and Barriers in Weight Loss Adherence

Megan McFarland - Abstract #40

Non-Traumatic Rhabdomyolysis in the Setting of COVID-19 Infection

Gina McKay - Abstract #36

Impact of Social Determinates of Health on Access to Private Duty Nursing Services for Children with Tracheostomy tubes in South Carolina Communities

Katherine Morgan - Abstract #120

Alertness, Effort Perception, and Performance: A Case Study

Jakayla Moses - Abstract #42

Exploring targeted mass spectrometry use with conditioned media from IVF-embryos as a screening tool for apoptotic protein presence

Alicia Moylan - Abstract #124

Addressing Lifestyle Medicine Components of the Female Athlete Triad: Expanding the Definition for Sex and Gender

Kenny Nguyen - Abstract #108

Enhancing Systematic Review Efficiency with Artificial Intelligence: Developing a Severity Scoring Tool for Pediatric RSV

10:45 AM - 12:00 PM Carolina Ballroom

Connor O'Brien - Abstract #97

Sex Differences in Clinical Risk Factors for Dementia Patients with and without Encephalopathy

Maria Gabriela Pita - Abstract #69

Beyond Fitness: Revolutionizing Women's Health Monitoring with INCORA - The Ear-Inserted Wearable Changing Disease Prevention

Sergiy Pustogarov - Abstract #21

Understanding the relationship between aspects of clinical encounters and overall satisfaction in an LGBTQ+ primary care clinic

Ryleigh Rawson - Abstract #78

Diversity in Healthcare Website Images: a visual content analysis of Australian massage therapists' and general practitioners' website pages.

Emilie Russell - Abstract #61

Lifestyle Medicine in Practice: Lifestyle Medicine Provider Methods and Impact on Patient Outcomes within Prisma Health

Bailey Schneider - Abstract #12

Ectrodactyly: System Wide Treatment Strategies and Outcomes in a Pediatric Orthopaedic Hospital Healthcare System

Emma Sherman - Abstract #38

The implementation and utilization of a new supplementary resource between first- and second-year medical students.

Dylan Singhi - Abstract #9

Deleterious Impact of Plasminogen Activator Inhibitor-1 (PAI-1) on Podocyte Morphology and Function

Alexandra Smith - Abstract #80

Macro and Micro Level Artifical Intelligence Analysis of Prostate Cancer TNM Staging from Electronic Health Records

Adaya Sturkey - Abstract #63

Racial/Ethnic and Sex Disparities in Pediatric Primary Hypertension: A Systematic Review

Whitney Sussman - Abstract #28

Medication Adherence to sodium-glucose cotransporter-2 (SGLT2) inhibitors versus glucagon-like peptide-1 (GLP-1) receptor agonists: a meta-analysis

Rorie Vander Ploeg - Abstract #72

Hampton Warner - Abstract #18

Cameron Whitacre - Abstract #65

Joshua Wiggins - Abstract #74

Campbell Yates - Abstract #122

Treatment of Atorvastatin leads to multidrug resistance in colorectal cancer cells

Transcriptional Responses to Necrotizing Fasci-

itis-causing Acinetobacter baumannii Infection in

Robotic vs. Laparoscopic excision of gastrointestinal stromal tumors: The experience of a regional

Efficacy of Platelet-Rich Plasma Injections in the

Dissecting the Impact of Robotics: An Investigation of Nontechnical Skills in Robotic-Assisted

Putting Our Foot Down on Opioid Dependency:

Lower Extremity Amputation Performed with a

Reduction in Postoperative Opioid Use Following

Management of Large-Joint Osteoarthritis: A

Yash Verma - Abstract #92

Human Macrophages

institution

Review

Surgery

Nerve Block

POSTER SESSION 2

Veronica Able-Thomas - Abstract #71

Diversity, Equity, Inclusion: Understanding the Patient Experience Through Assessment of Health Literacy and Identification of Patient Preferences When Receiving Health Information

Chase Abshier - Abstract #118

Partial Fundoplication vs TIF: A Retrospective Review

David Arnold - Abstract #50

Exploring the Impact of Genetic Mutations on Treatment Efficacy in Colon Cancer

Vanessa Bartholomew - Abstract #6

Primary leiomyosarcoma of the inferior vena cava: a case series

Brionna Bennett - Abstract #13

Improving the Diagnosis of Infectious Endophthalmitis and Keratitis via Next Generation Sequencing and Rapid NanoString Based Pathogen Detection

Ellie Bisese - Abstract #31

Sex Differences in Associations Between Various Dietary Interventions and the Prevention and Management of Hypertension

David Bu - Abstract #121

Time to Discontinuation of AEDs when started for AWS

Rowan Burns - Abstract #11

Decreasing 72-hour Readmissions in Sepsis and Pyelonephritis Patients

Rachel Donaldson - Abstract #3

Non-Occlusive Airway Balloon Dilator Analysis in the Treatment of Laryngotracheal Stenosis

Abigail Donato - Abstract #33

ED Utilization in a Primary Care Clinic

Andrew Doty - Abstract #85

Clinical Correlations of Vectors of Neoplastic Spread in Patients with Pituitary Adenoma

Raj Dwivedi - Abstract #62

A case of concurrent Immune Checkpoint Inhibitor Associated Necrotizing Myopathy and Acute Inflammatory Demyelinating Polyneuropathy associated with Pembrolizumab therapy for Metastatic Renal Cell Carcinoma

Sameer Ebrahim - Abstract #125

Is a spring plate for a posterior wall acetabular fracture a harbinger of eventually needing total hip arthroplasty?

Ryan Ellis - Abstract #123

Effectiveness of Cycloheximide and Spermine Inhibition in Cryptococcus neoformans

Keith Epps - Abstract #93

Overview of sex-related differences in sleep patterns and its association with the development and regulation of type 2 diabetes.

Shiloh Eyabi - Abstract #96

Drivers of Inequity in Colorectal Cancer Screening Among Minority and Underserved Groups and Proposed Interventions to Bridge Gaps

Kathleen Fallon - Abstract #39

Investigating Diagnostic Technology Use and Adoption in the Workflow of Sepsis Diagnosis and Treatment in the Emergency Department

Jillian Florez-Bhandari - Abstract #81

Evaluating Fatigue and the Effects of Chemotherapy Regimens on Skeletal Muscle Mitochondrial Function in Breast and Gynecological Cancer Patients using Near-Infrared Spectroscopy

Burns Gaskins - Abstract #54

A Novel Al-Based Solution for Streamlining Prostate Cancer Documentation in Electronic Health Records

Kendall Gassman - Abstract #15

SARS-CoV-1 Non-Structural Protein 1 Mutagenesis for the Investigation of Coronavirus Immune Inhibition Mechanisms

Sarah Goncher - Abstract #19

Stroke Outcome Optimization Project - Comparing Patient Demographics and Language Outcomes

Melfry Gonzalez - Abstract #98

Respiratory Syncytial Virus (RSV) and SARS-CoV-2 in Pediatric Patients and its Relationships with Social Determinants of Health

Evan Gossett - Abstract #79

Castleman's Disease: a single institution's experience and review of the literature

Jasmine Hawkins - Abstract #60

Baseline Sunscreen Habits and Awareness Among Medical Students

Savannah Heitmann - Abstract #104

An Investigation into Deprescribing Proton Pump Inhibitors

Tatiana Joseph - Abstract #115

A Comparative Exploration of Tools for Measuring Fc Receptor Expression on Human Sperm.

Zechariah Karsana - Abstract #68

Investigating Aspergillus fumigatus Physiology in Polymicrobial Infections via Reverse Genetics

Himashreya Katti - Abstract #100

The importance of person-to-person interaction in promoting conversation and engagement with vaccine information within the community

Brittany Kothari - Abstract #23

Robotic extended-view totally extraperitoneal ventral hernia repair: Single-center experience with 2-year follow-up

Sean Lippincott - Abstract #43

Supervised machine learning and predictive analytics to determine the optimal allocation of resources for pediatric surgical patients in the United States - A pilot project

Sydny Long - Abstract #1

Examining the benefits of a medical education-focused clinical anatomy elective for fourthyear medical students

Julia Lunt - Abstract #107

The Impact of High Value Care Education on First Year Medical Students

Lily Moore - Abstract #20

Influence of the Six Pillars of Lifestyle Medicine on Breast Cancer with Consideration of Sex and Gender: A Systematic Review

Luke Morcos - Abstract #73

Establishing a PPI Deprescription Algorithm

Reagan Musselman - Abstract #8

Pre-hospital Bacterial Resistance Surveillance in Greenville, SC, USA

Sarah Noonan - Abstract #75

Analyzing the Impact of Supplemental Continuous Glucose Monitoring and Foodshare Programs on Glycemic Control Among Women With Diabetes Mellitus.

12:45 PM - 2:00 PM Carolina Ballroom

Timi Ojo - Abstract #45

Exploratory observational study of shift work exposure and arterial stiffness

Sammy Omar - Abstract #89

Sex and Gender Differences in Alzheimer's Disease: The Preventative Potential of Lifestyle Medicine

Tina-Nhung Pham - Abstract #66

Prehospital Buprenorphine Programs in the United States: A Scoping Review

Madeline Reilly - Abstract #113

Does Sternal Talon Plating Increase Healing in Sternal Nonunion After Cardiac Surgery?

Luis Rivero - Abstract #86

Identifying Differentially Expressed Genes during Acinetobacter baumannii Infection of Human Cell Lines Using RNA Sequencing

Maegan Rudolph - Abstract #17

Validation of Temperature, Heart Rate, and Blood Oxygen Saturation Measurements from Incora Earrings Wearable Technology for Monitoring of Menstrual Cycle and Fertility

Jennifer Rumsey - Abstract #77

Emergency Clinician log in frequency and EHR application loading speed differ across workstation types: a quantitative pilot study of Emergency Clinician:workstation interactions across technological transition

Sara Schmedding - Abstract #48

Sex and Gender Specific Impacts of Whole Food, Plant-Based Nutrition on Colorectal Cancer: A Review on Dietary Fiber and Risk Reduction

Adarsh Shidhaye - Abstract #29

A case of suspected Drug Induced Subcutaneous Lupus following IVIG therapy

Jason Smith - Abstract #58

The Impact of Sarcopenia on Pancreaticobiliary Cancer Prognosis

Ryan Stover - Abstract #56

The Impact of Community-based Adaptive Sports on Depression and Quality of Life in Persons with Disabilities

Karl Swiger - Abstract #111

Optimizing Dialysis Care: A Retrospective Analysis of Omentopexy's Impact on Catheter Function

Brooke Taylor - Abstract #102

Madelaine Tedrick - Abstract #64

Charlotte Vogel - Abstract #41

Emily Waters - Abstract #4

tion of Early Relapse in Clubfoot

Victoria Wilson - Abstract #37

Caroline Wright - Abstract #109

pact of Physical Activity on Depression

intravenous ketamine

Therapy

Evaluating Outcomes and Complications of Inspire® Hypoglossal Nerve Stimulation for Obstructive Sleep Apnea: A Retrospective Analysis

Pain Interference and Impaired Sleep in Breast

Effects of the subjective mystical experience on

major depressive disorder in patients receiving

Ankle Range of Motion Following Surgical Correc-

Lifestyle Interventions for Sarcopenia: An Investigation of Sex and Gender Differences

Exercise is Medicine: Sex Differences in the Im-

Cancer Survivors Taking Estrogen Deprivation

STUDENT ORAL PRESENTATION SCHEDULE

9 AM - 10:30 AM | Main Ballroom

Vanessa Bartholomew - Abstract #5

Preliminary Evidence of Effectiveness of Frequency Modulated Tumor Treating Fields in the Treatment of Glioblastoma Mult forme in vitro

Kenan Delbridge - Abstract #88

Assessing Physical Activity Behaviors and Skeletal Muscle Mitochondrial Oxidative Capacity in Patients undergoing Chemotherapy for Breast or Gynecologic Cancer

Katherine Howey - Abstract #82

Harnessing Artificial Intelligence for TNM Staging Extraction from Electronic Health Records: A Note-by-Note Analysis in Prostate Cancer Documentation

Kayla Beth Jernigan - Abstract #94

Addressing low osteoporosis screening rates in postmenopausal females younger than 65 years old

Garrett Kaufman - Abstract #70

Functional roles of afu-182 in azole response and pathobiology of Aspergillus fumigatus

Aahil Merchant - Abstract #117

Isolation and Differentiation of SVF Derived Adipocytes in a Murine Model of Insulin Mediated Pseudoacromegaly

Samantha Morales - Abstract #27

Efficacy and Cost Effectiveness of Trigger Finger Management and its Relation to A1c Levels

Dylan Singhi - Abstract #9

Deleterious Impact of Plasminogen Activator Inhibitor-1 (PAI-1) on Podocyte Morphology and Function

Jack Stomberger - Abstract #26

Balancing Depth and Simplicity: Faculty Experiences with the ScholarRx Digital Learning Platform

Emily Thomas - Abstract #22

Comparative Analysis of Laparoscipic and Robotic Appendectomy: A Multi-Hopsital Retrospective Cohort Study

ACKNOWLEDGEMENTS

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Student research efforts support the vision of the School of Medicine Greenville in empowering the next generation of physicians through cutting-edge technology, interprofessional collaboration, innovative teaching, and transformational research.

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