RUTGERS

Robert Wood Johnson Medical School

2021 RWJMS Medical Students Summer Research Symposium

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Keynote Speaker

Reynold A. Panettieri, Jr., MD

Professor of Medicine, Robert Wood Johnson Medical School

Vice Chancellor, Clinical & Translational Science

Director, Rutgers Institute for Translational Medicine & Science

Emeritus Professor of Medicine, University of Pennsylvania

Organized by: RWJMS Office of Research

LIST OF ABSTRACTS

#	Student	Mentor	Title
1	**Lily Adler**	William E. Beckerman, MD	Evaluating Neutrophil-to-Lymphocyte Ratio as a Predictive Tool for Post-Operative Outcomes in Patients Undergoing Open Lower Extremity Revascularization Procedures
2	**Kemi Alabi & Joseph DeMarzo**	Jonathan McCoy, MD	The characterization of emergency department utilization for patients with sickle-cell disease
3	**Vineeth Amba**	Michael K. Gusmano, PhD, MA	Impact Of The Patient Protection And Affordable Care Act On Disparities In Revascularization
4	**Tania Atanassova**	Daniel B. Horton, MD, MSCE	The Association Between Antihistamine Exposure and New-Onset Juvenile Idiopathic Arthritis: A Nationwide Analysis
5	**Melanie Babi**	Michael Lewis, PhD	Environmental Risk as a Predictor of Shame and Pride in Children
6	**Benjamin Basseri**	Mark Russo, MD, MS	Utilizing Ambulatory Electrocardiogram Monitoring to Reduce Conduction Related Death after Transcatheter Aortic Valve Replacement (TAVR)
7	**Adrianna Bella**	Jonathan McCoy, MD	Emergency Use Authorization Monoclonal Antibody Therapy and Return Visit Rate for Emergency Department Patients with COVID-19
8	**Daniel Brenner**	Hai Sun, MD, PhD	Determining the Role of PV Interneurons in Seizure Genesis
9	**Russell Caratenuto III**	M. Chiara Manzini, PhD	Genotype/Phenotype Correlation in Mutations Causing Congenital Muscular Dystrophy
10	**Maria Victoria Castillo**	Vinod Rustgi, MD, MBA	Hepatology Biobank Development, Establishment, and Auditing
11	**Mary Cawley**	William E. Beckerman, MD	Evaluation of Type II Endoleak Repair Outcomes in Patients with Endovascular Repair of Abdominal Aortic Aneurysm
12	**Taylor Chiang**	Gloria A. Bachmann, MD, MSS	TranZap: An App for Transgender Folks Seeking Gender Affirming Healthcare Providers
13	**Erica Comsti**	James Coromilas, MD	Prevalence and significance of the malignant early repolarization pattern on the 12-lead electrocardiogram in a diverse in-patient and out-patient population

14	**Jennifer Dai**	Adrian Balica, MD	Diagnosing Endometriosis using Artificial Intelligence on Ultrasound
15	**Nehar Damle**	James Coromilas, MD	Prevalence and significance of the malignant early repolarization pattern on the 12-lead electrocardiogram in a diverse in-patient and out-patient population
16	**Hayley Donaldson**	Amit Singla, MD	Does intracerebroventricular (ICV) delivery of adenosine improve neurological outcomes following induction of subarachnoid hemorrhage (aSAH)
17	**Maxwell Everett**	Soko Setogguchi, MD, DrPH	Examining the Role of Google Trends in Explaining the Epidemiology of Hypertension in the United States
18	**Peter Filtes**	Michael Dunn, PhD	Biomechanical Testing of Lateral Meniscus Scaffolds in Human Cadaveric Knees
19	**Clare Flanagan**	Juana Hutchinson-Colas, MD, MBA	Adherence to Home Blood Pressure Monitoring in New Brunswick Pregnant Women
20	**Elizabeth Flatley**	Carolyn Heckman, PhD	The Association of Elastosis Perforans Serpiginosa and Genetic Disorders
21	**Samantha Fong**	Babar K. Rao, MD, FAAP	Monitoring of carbon dioxide laser treated actinic keratoses and non-melanoma skin cancers with reflectance confocal microscopy
22	**Daniel Gallagher**	Stephen Kayiaros, MD	The Safety of Inpatient Versus Outpatient Hip and Knee Arthroplasty
23	**Jasmine Gamboa**	Zhiping Pang, MD, PhD	Constructing a peripheral nervous system model: Investigating the interactions between Schwann cells and Schwann cell-induced neurons to improve peripheral nerve injury interventions
24	**George Gayed**	Malcom Mattes, MD	Assessing Views on Acceptable Informed Consent in Multidisciplinary Care
25	**Jennifer Geller**	Joshua Bucher,MD, FAAEM	Use of the Word Quiet in the Emergency Department
26	**Tyler Goldberg**	Cynthia Koziol-White, PhD	Vascular Endothelial Growth Factor (VEGF) 165 Attenuates Formoterol-induced pHSP20 Expression in Human Small Airways and Airway Smooth Muscle (HASM)
27	**Madeleine Granovetter**	Caroline Coffield, PhD	Experiences of Early Intervention Providers in Referring Children for Autism Evaluation

28	**Sean Hong**	Salma Jabbour, MD	Pathologic Complete Response as a Prognostic Marker of Survival in Rectal Cancer
29	**Monica Hsu**	Nancy A. Phillips, MD	The potential role of the dietician/nutritionist in preconception dietary counseling
30	**Mehdi Husaini**	M. Chiara Manzini, PhD	Establishing Patterns Using a Digging Behavior Discrimination Test in Mice
31	**Deshae L. Jenkins**	Hari S. Tunuguntla, MD	The Association of Elastosis Perforans Serpiginosa and Genetic Disorders
32	**Stephanie Ji**	Michael Steinberg, MD, MPH	Physicians' knowledge and beliefs regarding low dose CT for lung cancer screening
33	**Najm Khan**	Craig A. Bollig, MD	Risk Factors for Sternotomy/ Thoracotomy in Substernal Thyroid Goiters: A Systematic Review
34	**Raadhika Kher**	Anupama Doraiswamy, MD	An Institutional Retrospective Study of Patient Characteristics, Treatment Patterns, and Putcomes in Adult Patients with Philadelphia-Positive B-cell Acute Lymphoblastic Leukemia
35	**Juliana Kim**	Eric Singer, MD, MA, MS, FACS	Study of Informed Consent Procedures in Urology
36	**Tomohiro Ko**	Martin Blaser, MD	Cardiopulmonary Vital Signs upon Hospital Admission Associated with Severe COVID-19
37	**N. Deena Korenblit**	Laryssa Patti, MD, FACEP	Instagram as an education tool for the emergency medicine clerkship
38	**Cooper Lathrop**	Adam C. Berger, MD	Can Molecular Analysis Identify Stage II Melanoma Patients at the Highest Risk for Recurrence?
39	**Charles Levin**	Marc W. Lafonte, MD	The Impact of Stellate Ganglion Stimulation on Exogenous Pressor Requirements During Septic Shock in Weanling Pigs
40	**Erica Levin**	Martin Blaser, MD	Expression Variation of Urea Transporter Genes in Pregnant, Lactating, and Non-Pregnant, Non-Lactating Mice
41	**Pablo Llerena**	Craig A. Bollig, MD	Comparison of Complications and Outcomes in Fibula, Scapula, and Osteocutaneous Radial Forearm Free Flaps —A Multi-Institutional Study

42	**Joanna Madej**	Daniel B. Horton, MD, MSCE	Acid suppressive medication and incidence of chronic childhood immunological diseases: a scoping review
43	**Sneha Manikandan**	Jeanne Ferrante, MD, MPH	Implementing Lung Cancer Screening Programs in New Jersey: A Qualitative Study
44	**Erin McDonnell**	Martin Blaser, MD	Understanding Predictive Laboratory Parameters to Aid in COVID-19 Prognosis
45	**Sarah McGuire**	Daniel B. Horton, MD, MSCE	Relationship between Race/Ethnicity and Time to Diagnosis of Juvenile Idiopathic Arthritis (JIA)
46	**Justin Montague**	Nur Zeinomar, PhD	Assessing the Validity of Self-reported Weight, Height, and Body Mass Index Among Hispanic and Latina Breast Cancer Survivors
47	**David Natanov**	Martin Blaser, MD	InterStim® Therapy: A Novel Approach to Restore Bladder Function in Patients with Non-obstructed Urinary Retention
48	**Michael Park**	Anna Konova, PhD	The intersection of ongoing and cumulative stress: Impact on craving and clinical outcomes in opioid use disorder
49	**Kayla Peña**	Gloria Bachmann, MD, MMS	Identifying Hurdles to Prenatal Care: Dismantling Stigma Against Pregnancies Complicated by Opioid Use Disorders
50	**Jeremy Perrelle**	Zhiping Pang, MD, PhD	A Semi-Autologous Graft to Remediate Peripheral Nerve Injury
51	**Nicholas Persaud**	Zeeshan Ahmed, PhD	Investigating functional and nonfunctional mutations in known human genes among high-risk CVD population
52	**Riaad Persaud**	Zeeshan Ahmed, PhD	Investigating Metabolomics for Identifying Potential Biomarkers of Inflammatory Bowel Disease
53	**Raag Rambhatla**	Babar K. Rao, MD, FAAP	Identifying Skin Signs and Patterns in Human Trafficking
54	**Giomilsy Ramos**	Lakshmi N. Moorthy, MD, MS	A Literature Review: Assessing the Triggers of Periodic Fevers
55	**Charmi Rana**	Richard Marlkin, MD	Evaluating the Need for Patient Navigation Systems to Support Breast Cancer Patient Journeys in Botswana

56	**Camille Reeves**	Chistoph Buettner, MD, PhD	The physiological role of hypothalamic inflammation is to induce counter regulation
57	**Pamela Ribeiro**	Richard L. Agag, MD	Surgical Outcomes of Same-Day Discharge vs. Overnight Stay in Patients Undergoing Mastectomy and Immediate Prosthetic Breast Reconstruction: A COVID-19 Quality Improvement Project
58	**Faryal Rizvi**	Malcom Mattes, MD	Development and Evaluation of Educational Content To Improve Patients' Knowledge and Utilization of Palliative Radiation Therapy
59	**Bianca Sanabria**	Babar K. Rao, MD, FAAP	A Literature Review: Perceptions of Tanning and Systemic Absorption of Sunscreen Ingredients, Influencers of Sunscreen Use
60	**Alan Sang**	John Nosher, MD	Nonoperative Management and Operative Management of Hepatic Trauma
61	**Belquis Shahsamand**	Bo Qin, PhD	Neighborhood Social and Built Environment and Mortality Among Black Breast Cancer Survivors
62	**Samantha Shave**	Nell Maloney-Patel, MD, FACS	Assessing the Geographic Trends of the General Surgery Residency Match during the COVID-19 Pandemic
63	**Patricia Shelton**	Deborah M. Spitalnik, PhD	Longitudinal Training in Primary Care for Adults with Intellectual and Developmental Disabilities with the Support of Care Coordination in Family Medicine Residency: A Retrospective Survey
64	**Anaika Singh**	Sara Heinert, PhD, MPH	A Novel HTN Assessment Tool to Measure Hypertension Knowledge in Youth.
65	**Hartej Singh**	Issac Kim, MD	The Oncological Implications of Prostatic Anterior Fat Pad Lymph Node Metastasis
66	**Lucas Smith**	Lisa Denzin, PhD	Identification of MHCII pathway proteins as prognostic markers for children with multiple sclerosis
67	**Jerry So**	Sally Radovick, MD	Metabolomics Study of NICU Persistent Hypoglycemia and Pediatric Growth Hormone Deficiency
68	**Avery Tamakloe**	Todd Mowery, PhD	A Low Frequency Hearing Animal Model of Noise Induced and Hidden Hearing Loss
69	**Ruchi Tejwani**	Biren Saraiya, MD	Financial Toxicity in Patients Undergoing Cancer Treatment

70	**Akshay Thaper**	Eric Singer, MD, MA, MS, FACS	Characterizing Stage-specific Survival for Patients with Unfavorable Histology Wilms Tumor
71	**Roshni Thyagrajan**	Joseph Hanna, MD, PhD	Identifying Geographic Gaps in Access to Surgical Care in Colombia
72	**Krystle Vera**	Lawrence Kleinman, MD, MPH	Myocarditis and COVID-19 in Adolescents and Young Adults: Past, Present and Future
73	**Usman Zareef**	John B. Kostis, MD	Yelp Data on Socioeconomic Variables Predict Adverse Cardiovascular Outcomes
74	**Jeffrey H. Xu**	Anthony J. Deo, MD, PhD	Virtual Reality Reconstruction of Auditory Hallucinations
75	**Michelle Zhao**	Jennifer Amico, MD	Exploring perceptions about contraceptive counseling within a diverse urban New Jersey population
76	**Wenxin Zhu**	Joseph Hanna, MD, PhD	A Preliminary Ecologic Assessment of Access and Service Delivery of Colombian Neurosurgical Services
77	**Pasquale Gencarelli**	Richard S. Yoon, MD	Fix and Replace (FaR) vs Open Reduction Internal Fixation (ORIF) for Acute Geriatric Acetabular Fractures: A Pilot Study
78	**Sirjanhar Singh**	Kathleen Beebe, MD	Characterization of Opioid Prescribing Tendencies Amongst Orthopaedic Surgeons: A National Perspective