RUTGERS

Robert Wood Johnson Medical School

2022 RWJMS Medical Students Summer Research Symposium

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Keynote Speaker

Reynold A. Panettieri, Jr, MD

Vice Chancellor for Translational Medicine and Science

Director, Rutgers Institute for Translational Medicine and Science

Professor of Medicine, Robert Wood Johnson Medical School

Organized by: RWJMS Office of Research

2022 RWJMS Medical Students Summer Research Symposium

Abstract #	Student	Mentor	Title of Research
1	**Affan Aamir**	Sara Heinert, PhD	Youth Feedback on a Youth-Led Digital Education Intervention to Improve Blood Pressure for Adults Who Present to the Emergency Department with Hypertension
2	**Lucy Aaron**	Biren Saraiya, MD	Development of Physician-Patient Communications Elective for Pre Clinical Medical Students
3	**Kathryn Abbott**	Tammy Chung, PhD	Racial/Ethnic Differences in Maternal Smoking Before Pregnancy and Childhood Prodromal Psychosis from the ABCD Study
4	**Shareif Abdelwahab**	Mariam Eskander, MD	Assessing geographic disparities in accessing clinical trials for pancreatic cancer treatments in the United States
5	**Audrey Abend**	Kelvin Kwong, MD	Evaluation of sleep stages using electroencephalogram (EEG) and electromyogram (EMG) findings during drug-induced sleep endoscopy (DISE) in pediatric population
6	**Lily Adler**	William Beckerman, MD	Evaluating Neutrophil-to-Lymphocyte Ratio as a Presurgical Risk Calculator in Comparison to Modified Frailty Index and the ACS NSQIP Presurgical Risk Calculator in Patients Undergoing Open Lower Extremity Revascularization Procedures
7	**David Agyapong**	Hai Sun, MD, PhD	Correlation of hippocampal sclerosis and parvalbumin expression with distinct seizure ending patterns in mice subjected to the intrahippocampal kainic acid model of status epilepticus
8	**Andres Alba**	Huizhou Fan, PhD	Development of 3rd-generation selective antichlamydials (SAC) with improved potency
9	**Josephine Alegun**	Lara Hathout, MD	Assessing the Impact of MMR Status on the Prognosis of Patients with Endometrioid Endometrial Cancer
10	**Leila Alidoost**	Peter Cole, MD	Self-Identified Race and Ethnicity in Pediatric Oncology/Hematology
11	**Ava-Dawn Anigbogu**	Gail Burack , PhD	The Clinical Outcomes of People Living with HIV/AIDS during the COVID-19 Pandemic
12	**Nathan Arnold**	Nell Maloney Patel, MD	Effect of Spaced Repetition Surgical Simulation Training on Skill Retention
13	**Nicholas Baker**	Ernest Leva, MD	Assessment of Pediatric Trauma Pain Management Strategies at Robert Wood Johnson University Hospital
14	**Kacie Barry**	Benjamin Crabtree, PhD	Perceptions of Oncologists on Survivorship Care: Survivorship Models and Care Delivery
15	**John Carlson**	Joseph Hanna, MD	Nitric Oxide use in Covid-19 ICU patients
16	**Rachel Cary**	Rachel Choron, MD	The Impact of Prehospital EMS Education on Improving the Under Triage Rate for Trauma Patients at a Level 1 Trauma Center

17	**Qianwei Chen**	Michele T. Pato, MD	Childhood-onset and Lifetime Traumatic Events in the Evolution of Bipolar Disorder
18	**Sruti Cheruvu**	Mi-Hyeon Jang, PhD	Time-Course of Neurogenesis in Hippocampus after Acute Spinal Cord Injury
19	**Ojas Chinchwadkar**	Hai Sun, MD, PhD	Loss of Inhibitory Interneuron Activity is Possibly Linked to Distinct Seizure Ending-Patterns in Epileptic Mice in the Kainic Acid Model
20	**Emily Costello**	Wayne Fisher, PhD	How to Best Define Different Levels of Severe Challenging Behavior in Individuals with Autism Spectrum Disorder and Intellectual Disability
21	**Michael Daidone**	William Beckerman, MD	Comparison of Longitudinal Outcomes for CLI Patients Receiving Antegrade and Retrograde Interventions
22	**Nicholas Dante**	Christoph Buettner, MD	What is the Role of the Sympathetic Nervous System in Overnutrition-Induced Insulin Resistance and Metabolic Disease?
23	**Sarah Decedue**	Katie Devine, PhD	Relationship between mental health and sleep quality in adult and young adult survivors of childhood cancer
24	**Jennifer Delgado**	X.F. Steven Zheng, PhD	Superoxide Dismutase 1 and Its Role in Cancer as A Nuclear Transcription factor: SOD1 Effect on Genes Involved in Nucleotide Biosynthesis
25	**Sanjana Eranki**	Steven Brant, MD	Understanding the Epigenetic Differences in Various Ethnic Groups relevant to the Pathogenesis of Inflammatory Bowel Disease
26	**William Fahy**	Bruce Haffty, MD	Clinical toxicity in hypofractionated and conventionally fractionated radiation in breast cancer patients with germline mutations in various DNA repair genes
27	**Charlene Fermin**	Jennifer Amico, MD, MPH	Exploring Bias among NJ Family Medicine Providers when Recommending Contraception
28	**Daniel Fernandes**	Adam C. Berger, MD	Sentinel Lymph Node Biopsy in Patients with Non-Melanoma Skin Cancers: A Single Center Experience
29	**Derek Ge**	Sabiha Hussain, MD	Screening for Social Risk Factors in the Intensive Care Unit During the Pandemic
30	**Taylor Glassman**	Lawrence Kleinman, MD	Examining the relationship between perceived emotional support and changes in anxiety or depression among parents of children with COVID-19: Project CONNECT to Predict Sick Children
31	**Michelle Gnidash**	Babar Rao, MD	The use of line-field confocal optical coherence tomography (LC-OCT) to visualize acne lesions in-vivo
32	**Kevin Guerrero**	Manuel Jimenez, MD	Examining the user experience of a family wellness program for Latino families: A qualitative study
33	**Juline Hanna**	Brad Kamitaki, MD	Addressing Barriers to Comprehensive Epilepsy Care: A Mixed-Methods Study
34	**Jason Hua**	Jag Sunderram, MD	Does Chronic Intermittent Hypoxia exacerbate World Trade Center dust induced lung injury?
35	**Osaumwense Idemudia**	Jeffrey Carson, MD	Quality of Life Measurement in Red Blood Cell Transfusions based on Restrictive versus Liberal Red Blood Cells Transfusion Strategy
36	**Umin A Jalloh**	William Beckerman, MD	Comparing outcomes in patients on preoperative antiplatelet therapy undergoing open lower extremity revascularization
37	**Connie Jiang**	Michael Steinberg, MD, MPH	National Web-based Survey Evaluating Cigarette Relighting Behavior: Prevalence, Beliefs, and Practices
38	**Srivarsha Kaloth**	Denalee O'Malley, PhD	Colorectal Cancer Survivorship and Comorbidity Burden through a Racial/Ethnic Lens: Implications for Risk-based Models

39	**Sophie Kauderer**	Huong Truong, MD	Peripheral Vascular Disease by Sex: Is There a Difference in Anatomic Site of Lesions?
40	**Natalia Kellam**	Deepak Jain, MD	Impact of SARS-CoV-2 infection during pregnancy on neonatal and early childhood outcomes
41	**Nadia Kenfack Kembou**	Richard Marlink, MD	Applying the RE-AIM and PRECIS-2 Evaluation Frameworks of Dissemination and Implementation Science to Analyze the Implementation Strategy of a Screening Intervention for Breast Cancer in Regional Botswana
42	**Labeeqa Khizir**	Sammy E. Elsamra, MD	Assessing the accuracy of intraoperative ureteroscopy in determining ureteral stricture length at time of robotic ureteral reconstruction.
43	**Susan Kim**	Michele T. Pato, MD	Schizophrenia with Comorbid OCD in African-Ancestry and European-Caucasian Ancestry Subjects in the Genomic Psychiatry Cohort
44	**Sharwani Kota**	Craig Bollig, MD	Interposition Vein Grafts in Head and Neck Microvascular Reconstruction: A Systematic Review
45	**Neha Kuderu**	Advaitha Madireddy, PhD	Assessment of the Effects of Red Dye 40 on DNA Integrity in FANCD2 Deficient Fanconi Anemia Cells.
46	**Rahul Kukreja**	Naveena Yanamala, PhD	The longitudinal effect of social isolation on sleep and cognition in dementia patients
47	**Isha Kumbam**	John Calvin Chatlos, MD	Inducing and Measuring Spiritual Experiences in Clinical Setting
48	**Yena Kwak**	Jag Sunderram, MD	A literature search of the ROX index as an effective predictive tool for high-flow nasal cannula treatment in COVID-19 patients
49	**Daniel Lam**	Daniel Horton, MD	Patterns of Psychotropic Prescription Prescriptions and Psychiatric Comorbidities in Youth with ADHD, 2002-2018
50	**Eileen Lee**	Soko Setoguchi Iwata, MD, MPH, DrPH	"Healthy" Diet Perception vs. Actual Diet Quality: Prevalence and Risk Factors Among US Adults
51	**Karen Makar**	Jeremy Sinkin, MD	Practice Patterns and Surgeon Preferences for Gender-Affirming Surgery in New Jersey
52	**Emilia Maliborski**	Hilary Grosso Jasutkar, MD, Phd	The effect of Atg7 gene deactivation on hippocampal muscarinic acetylcholinergic synapses.
53	**Sapir Mashiach**	Nancy Philipps, MD	Association of Lateral Pain in Vulvodynia and co-morbidity of Bowel disorders
54	**Moira McGevna**	William Beckerman, MD	Perioperative outcomes for the treatment of juxtarenal aortic aneurysms.
55	**Meghan McMullin**	Gloria Bachmann, MD	Extreme ticklish sensation with vulvar-vaginal contact: a case report
56	**Eric Muller**	Ankit Shah, MD	Assessment of Clinical Correlates to Plasma Kisspeptin Levels in Patients with Nonalcoholic Fatty Liver Disease
57	**Ricardo Munoz**	Jason Womack, MD	Understanding the interaction of menstrual cycle function and injury in female athletes
58	**Sorasicha Nithikasem**	Saum Rahimi, MD	Using 3D Reconstruction Software to Measure Intraluminal Thrombus Burden in Patients with Abdominal Aortic Aneurysms
59	**Sarah Oh**	Salma jabbour, MD	Dose-painting stereotactic body radiotherapy for central lung tumors adjacent to critical organs: an analysis of tumor control
60	**Temitope Oshinowo**	Cheryl Dreyfus, PhD	Interactions Between the TrkB Pathway and the mTOR Pathway in Response to Demyelination

61	**Akhil Patel**	Cynthia Koziol-White, PhD	Specific SNPs within CDHR3 and GSDMB Genome may be Associated with Heightened Response to Rhinovirus Infection and Attenuated Response to a β-2 Agonist
62	**Kush K. Patel**	Zeeshan Ahmed, PhD	Exploring Genome Wide Association Studies in Precision Medicine
63	**Khushi Patel**	William Beckerman, MD	Smoking Based Differences in Autogenous Vein Versus Prosthetic Grafts for Open Lower Extremity Infrainguinal Bypass
64	**Mann Patel**	Saum Ghodoussipour, MD	Contemporary Analysis of the Tolerability of Induction Bacille Calmette-Guerin Immunotherapy for Non-muscle Invasive Bladder Cancer: Retrospective Data from a Single Institution
65	**Nimi Patel**	Jennifer Amico, MD, MPH	Option of Self-Collected HPV Testing Effect on Cervical Cancer Screening Rates
66	**Riya Patel**	Gloria Bachmann, MD	Examining Factors that Influence a Woman's Choice Between Surgical Interventions In The Case of Breast Cancer
67	**Joseph Phelan**	Sally Radovick, MD	Growth and Metabolic Effects of Hypopituitarism Associated with POU1F1 Gene Mutations Remediated by Treatment with Growth Hormone
68	**Aaliyah Phillips**	Cande Ananth, MD	Stroke-related Maternal Mortality in the United States, 2000-2020: Epidemiological Trends and Race/Ethnic Disparities
69	**Kayla Piiwaa**	Adrian Balica, MD	Deep Learning with Image Enhancement for Ultrasound Imaging of Endometriosis
70	**Alyssa Pilch**	Sabiha Hussain, MD	Assessing the Effectiveness of an Opera-Based Breathing and Wellness Program in the Management of Long COVID Patients
71	**Aravind Rajagopalan**	Saum Ghodoussipour, MD	Development of a Novel Procedure-Specific Risk Calculator for Radical Cystectomy with Machine Learning
72	**Sonya Rao**	Thomas Hegyi, MD	Assessing the Knowledge Baseline of Medical Students on Sudden Infant Death Syndrome
73	**Tricia Mae Raquepo**	David Zald, PhD	Contingency Perception
74	**Sahithi Reddi**	Craig Bollig, MD	Virtual Surgical Planning in Head and Neck Osseous Free Flaps —A Multi-Institutional Study
75	**Valerie Ricciardi**	Vadim Ten, MD	A model of neonatal brain injury induced by asphyxia with circulatory arrest in mice
76	**Leena Rijhwani**	Soko Setoguchi Iwata, MD, MPH, DrPH	Temporal Trends in Intravenous Iron Use among Medicare Beneficiaries, 2008-2019
77	**Shaheer Rizwan**	John Nosher, MD	Investigation of tumor texture as a biomarker predicting response to yttrium-90 radioembolization for patients with primary or metastatic hepatocellular carcinoma
78	**Brian Rust**	Benton Purnell, Detlev Boison, PhD	Determining the role of adenosine in the postictal hypercapnic ventilatory response
79	**Chandravathi Sayani**	William Beckerman, MD	Impact of IMA Patency on Aortic Remodeling Following Endovascular Aortic Aneurysm Repair (EVAR)
80	**Jake Schade**	Nur Zeinomar, PhD, MPH	An Evaluation of Clinical and Demographic Factors that Predict Smoking Cessation in Black Breast Cancer Survivors

81	**Samantha Shave**	Matin Imanguli, MD	Patient Outcomes Following Observation, Reirradiation, or Reirradiation with Chemotherapy After Salvage Surgery for Head and Neck Cancer
82	**Jordan Shinn**	James Coromilas, MD	Survival After In-Hospital Cardiac Arrest and its Relationship to the Cardiac Rhythm at the Time of Arrest
83	**Trisha Sindhu**	Juana Hutchinson-Colas, MD	Examining Hospice Care Service Utilization among Ovarian Cancer Patients at Rutgers Cancer Institute of New Jersey
84	**Sidharth Srinivasan**	Gian Pal, MD	Characterization of the Clinical Phenotype of Parkinson's Disease in South AsIan Patients
85	**Julie Sumski**	Hari S. Tunuguntla, MD	Postoperative Outcomes in Patients Receiving InterStim® Therapy for the Treatment of Overactive Bladder
86	**Namita Thomas**	Daniel Horton, MD	Racial and Ethnic Disparities in Eye Screenings for Juvenile Idiopathic Arthritis
87	**Aaron Tucker**	Todd Mowery, MD	Animal model of Third Window Syndrome: Insight into semicircular canal dehiscence induced CNS dysfunction in humans
88	**Anisha Tyagi**	Patrick Buckley, MD	Distraction Related Complications after Hip Arthroscopy: A Systematic Review of Distraction Techniques
89	**Athmika Vaseeharan**	Zhongren Zhou, MD, PhD	Investigation of the Role of Zonula Occludin-1 in the Pathogenesis of Barrett's Epithelium and Esophageal Adenocarcinoma
90	**Madhir Vyas**	Bo Qin, PhD	Sleep Disturbance in a Population-Based Longitudinal Cohort of Black Breast Cancer Survivors
91	**Joyce Xu**	X.F. Steven Zheng, PhD	SOD1 Regulates Metabolism in Non-Small Cell Lung Cancer
92	**Sara Youssef**	Cindy Wassef, MD	Assessing the Effectiveness of Valacyclovir in the Treatment of Pityriasis Rosea: A Literary Review and Case Series
93	**Joshua Yu**	Rachel Choron, MD	Use of Diaphragmatic Ultrasound in Predicting Extubation Success or Failure in the Surgical Intensive Care Unit
94	**Kailyn Ramirez**	Albert S. Khouri, MD	Health Literacy as Measured by The Short Assessment of Health Literacy as a Predictor of Glaucomatous Severity

THANK YOU

Thank you for attending the **2022 Medical Student Summer Research Symposium**.

We truly appreciate your participation and continued support.

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