About the Research Forum

The Wilbert C. Jordan (WCJ) Research Forum was introduced in 1984 as part of the Student National Medical Association (SNMA)’s Annual Medical Education Conference to extend an opportunity for SNMA members to display their scientific competence and award them for their academic and research accomplishments. Since its inception, more than $155,000 has been awarded to Forum participants. Support for the Research Forum has come from several individuals, organizations, and corporate entities that are aligned with SNMA’s goals and programs. Most notably, the Forum has been consistently supported by generous contributions from The Charles R. Drew University and Dr. Jordan himself.

In 1999, the SNMA House of Delegates voted to name the Research Forum after Dr. Wilbert C. Jordan in honor of his commitment to the SNMA and his significant personal and financial support of the forum. Dr. Jordan is an internationally renowned leader in the research community with a long history of research in infectious diseases such as tuberculosis and smallpox. He is especially noted for his research on AIDS in the African American community. Attesting to the respect Dr. Jordan has earned in his field, he was listed among the top African American physicians in an article in Black Enterprise magazine entitled, “The Doctor is In.” In light of the many demands placed on his time, SNMA is truly grateful to Dr. Jordan for his continual support of SNMA and the academic and research accomplishments of its members.

The 2021 Wilbert C. Jordan Research Forum will be hosted virtually, for the second time in AMEC History. Participants will have the opportunity to explore more than 70 abstracts and virtual presentations that encompass the basic sciences, clinical sciences, social/behavioral sciences, community service and public health. The following abstracts were carefully reviewed and selected by the Wilbert C. Jordan Research Forum Subcommittee of the Diversity Research Committee. They have been compiled to showcase the investigative endeavors of our members. We hope that you find them educational, thoughtful, exciting, and influential.

Thank you for your interest in the hard work of our members!

Yours in SNMA,

Sarah Martinez
Sarah Martinez
MD Candidate | Albany Medical College
Diversity Research Co-Chair 2020-2021

Umaru Barrie
Umaru Barrie
MD/PhD Candidate
University of Texas Southwestern Medical Center
Diversity Research Co-Chair 2020-2021

Melissa Hernandez
Melissa Hernandez
FIRM Founder

Marae Thompson and Oghale Best
Marae Thompson and Oghale Best
WCJF Subcommittee Co-Chairs
Basic Science
The Role of CD14 in Toll-like Receptor-2 and -4 Activation by Pathogen- and Damage-associated Molecular Patterns and the Inhibitory Effect of Phosphatidylglycerol
Presenter: Nyemkuna Fortingo, MD Candidate, Medical College of Georgia

Could Our Medical Education on Race Be Outdated? A Literature Review and Analysis on Medical Students’ Perspectives
Presenter: Viviane Rutabingwa, Graduate Student, Saba University School of Medicine

Clinical Science
The Effect of Metformin in MEN1 Related-Pancreatic Neuroendocrine Tumors
Presenter: Ava Akua Graf, MD Candidate, University of Illinois Chicago School of Medicine

Social and Behavioral Sciences and Public Health
The Impact of Childhood Violence Exposure on Pregnancy Loss among Black American Women
Presenter: Rachel Eleazu, MD Candidate, University of Pittsburgh School of Medicine

Providers and Civic Engagement
Presenter: Jordan Jackson, DO/MS Candidate, Oklahoma State University College of Osteopathic Medicine

Naloxone Access and Availability without a Provider Prescription at Pharmacies in Minnesota, 2020
Presenter: Derrick Lewis, MD Candidate, Mayo Clinic Alix School of Medicine

Identifying and Comparing Race-Conscious Gaps in Dermatology Residencies in the United States: Does Race Matter To Medical Training and Can It Impact Care Delivered To Black Patients?
Presenter: Nabeta Geraldine, MD Candidate, St. George’s University School of Medicine

Undergraduate Research Presentations
Basic Science
Potentiated Opiod Analgesia By a Serotonin 5-HT Receptor Antagonist Suggests a New Therapeutic Target for Pain Management
Presenter: Xiomara Cuno Lavilla, Johns Hopkins University

Cyclic-AMP Regulation of Nongenetic Heterogeneity in Candida Albicans and Candida Tropicalis
Presenter: Matiza Sacotingo, Wesleyan University

Tau Biomarker for Prostate Cancer
Presenter: Stacy Bawuah, Elms College

Social and Behavioral Sciences and Public Health
Impacts of Civil Unrest on Social and Economic Development Non-Governmental Organizations (NGOs) in Nicaragua
Presenter: Arielle Bernardin, The State University of New York College at Old Westbury

The Group Reference Effect: How Our Collective Identities Can Provide Useful Organizational Frameworks
Presenter: Cary Friday, Pomona College

Screening for Social Determinants of Health in Baltimore: Comparison of Effectiveness Between Reach™ and Newly Developed MyChart Screening Tool
Presenter: Niat Habtemariam, Johns Hopkins University
Age Differences in Patients Receiving Telemedicine Versus In-Person Primary-Care Services Among A Multiracial Group of Uninsured Adults: A Pre and Post-COVID-19 Pandemic Comparison
Presenter: Innah Lachica, Florida International University

Extracellular Vesicles of Herpes Simplex Virus 1 Infection Have Opposite Immunomodulatory Functions but the Net Effect is Antiviral
Presenter: Shadia Saleh, MD Candidate, University of Kansas School of Medicine

Clinical Science

Prevalence of Thrombotic Events during Hospitalization of Patients with Sickle Cell disease
Presenter: Christina Anagonye, MD Candidate, Michigan State University College of Human Medicine

Efficacy of Fluoroscopically-guided Corticosteroid Injections for Foot and Ankle Pain Avulsion Fractures in Two Adolescent Hockey Players
Presenter: Ania Bartholomew, DO Candidate, Ohio University Heritage College of Osteopathic Medicine

Acute Versus Chronic Humeral Lesser Tuberosity Avulsion Fractures in Two Adolescent Hockey Players
Presenter: Joel Bervell, MD Candidate, Washington State University Elson S. Floyd College of Medicine

Cutaneous Immune-related Adverse Events in Immune Checkpoint Inhibitor Therapy: The Experience at a Tertiary Care Center
Presenter: Isabelle Brown, MD Candidate, Eastern Virginia Medical School

Machine Learning and MRIs: A Novel Genomic Analysis Technique for Glioblastoma
Presenter: Mark Dapash, MD Candidate, University of Chicago

Frenotomy Practice in Pediatric Patients with Ankyloglossia
Presenter: Stefan Edemobi, MD Candidate, Eastern Virginia Medical School

A Tale of Two Drugs
Presenter: Alsiddig Elmahdi, MD Candidate, Eastern Virginia Medical School

Local Wound Infiltration With Liposomal Bupivacaine Decreases Post-cesarean Pain Scores
Presenter: Avni Gupta, MD Candidate, Wright State University Boonshoft School of Medicine

Basic Science

Evaluating the Effectiveness of Early Exposure: Obstetrics and Gynecology Two-Week Virtual Elective
Presenter: Elisabeth Adkins, MD/MBA Candidate, Wright State University, Boonshoft School of Medicine

Assessing the Effect of a Novel Contraceptive Gel on Elements of the Vaginal Microbiome
Presenter: Olatunde Badejo, MD Candidate, University of Texas Southwestern Medical Center at Dallas

Dr. Wilbert C. Jordan Poster Presentations

Community Service

School-Related Gender-Based Violence in Secondary Schools
Presenter: Amira Richards, Northwestern University

Translational Science

7-AAD Annexin Five Apoptosis Assay
Presenter: Christopher Jones, University of Illinois Urbana Champaign

Clinical Science

Exposure to Community Violence in ED Patients with Non-Traumatic Chief Complaints
Presenter: Susan Panek, University of Illinois at Chicago

Machine Learning and MRIs: A Novel Genomic Analysis Technique for Glioblastoma
Presenter: Mark Dapash, MD Candidate, University of Chicago
Caring During COVID: The Impact of Telehealth Implementation in a Student-Run Free Clinic
Presenter: Simone Herzberg, MD/PhD Candidate, Vanderbilt University Medical School

Dermatological Manifestations of Endocrine Diseases
Presenter: Kala Hurst, DO Candidate, Philadelphia College of Osteopathic Medicine - Georgia Campus

More Than Skin Deep: An Assessment of Skin Color Representation in the AAD Basic Dermatology Modules
Presenter: Marah Jolibois, MD Candidate, Albany Medical College

Assessing the Safety of the Q-switched 755nm Alexandrite Laser in Darker Skin: A Retrospective Study
Presenter: Jamie Karch, MD Candidate, Geisel School of Medicine at Dartmouth

A Call for Specialized Medication Re-Dosing Considerations Following Major Limb Amputation Surgery
Presenter: Nicole Kloosterman, MD Candidate, Vanderbilt University School of Medicine

How Hyperintensities Of The Basal Ganglia, Coupled With Various Vitamin Deficiencies, Paint A Peculiar Picture Of A Possible Polyneuropathy: A Case Report
Presenter: Theandra Madu, MD Candidate, Howard University College of Medicine

Content Analysis of Skin Bleaching Treatments on YouTube
Presenter: Abena Maranga, MD/MS Candidate, Perelman School of Medicine, University of Pennsylvania

Case Fatality Rates Among Minority Populations With COVID-19 In Southern Nevada
Presenter: Damien Medrano, MD Candidate, University of Nevada, Las Vegas School of Medicine

Understanding How Hand Surgery Hashtags Are Used To Educate and Promote
Presenter: Desiree Morris, MD Candidate, University of Nevada, Las Vegas School of Medicine

Investigating Complication Rates and Pregnancy Outcomes of Women With Severe Morbid Obesity
Presenter: Catalina Mulanax, MD Candidate, University of Iowa, Roy J. and Lucille A. Carver College of Medicine

Comparison of Cutaneous Adverse Events of PD-1 and PD-L1 Inhibitors in People of Color vs. Ethnically White Patients
Presenter: Tracy Ngo, MD Candidate, Albert Einstein College of Medicine

Racial and Ethnic Disparities in Hospital Length of Stay for Neonatal Abstinence Syndrome, 2009-2017
Presenter: Nguemeni Tiako Max Hordan, MD Candidate, Yale School of Medicine

Surgical Applications of Ultrasound Use in Low and Middle-Income Countries: A Systematic Review
Presenter: Simisola Odusanya, MD Candidate, University of Minnesota Medical School

Methotrexate in the Treatment of Immune Checkpoint Inhibitor-Induced Bullous Pemphigoid
Presenter: Tracey Otto, MD Candidate, Rutgers - Robert Wood Johnson Medical School

Race Association With Delayed Recognition of Tuberous Sclerosis Complex: A Retrospective Study
Presenter: Rabiah Tameez, DO Candidate, Arkansas College of Osteopathic Medicine

SARS-CoV-2 Infection and Racial Disparities in Children: Protective Mechanisms and Severe Complications Related to MIS-C
Presenter: Fatou Agnes Tine, MD Candidate, Howard University College of Medicine

Adjunctive Use of Intra-arterial tPA in Embolectomy for Large Vessel Occlusion (LVO): Angiographic and Clinical Outcomes
Presenter: Racquel Whyte, MD Candidate, University of Rochester School of Medicine and Dentistry
Spine Centers of Excellence: A Systematic Literature Review and Single-Institution Description of a Spine Center of Excellence
Presenter: Jordan Petitt, Graduate Student, Case Western Reserve University School of Medicine

Community Service
An Observational Study of Referrals and Follow-Ups of the Homeless Populations
Presenter: Louisa Appiah, MD Candidate, Brody School of Medicine at East Carolina University

Adaptation of a Medical Student-Lead Addiction and Substance Abuse Module for an Online Audience During COVID-19
Presenter: Shreya Joshee and Shalini Jayaweera, MD Candidate, University of Nevada, Reno School of Medicine

Keeping the Faith to Fight COVID-19: A Community Partnership to Increase Testing and Education in Black Communities in Miami, FL
Presenter: Jennifer Knight, MD Candidate, Florida International University

Educating Youth About Their Skin: Collaboration With The American Academy of Dermatology To Deliver the Good Skin Knowledge Curriculum
Presenter: Vanessa Ramos, MD Candidate, Eastern Virginia Medical School

Postpartum Depression Screening and Education
Presenter: Gennipher Smith, DO Candidate, University of the Incarnate Word School of Osteopathic Medicine

Knowledge of Neuromodulation in Rural Family Medicine Training Programs: A Call for Implementation Research
Presenter: Jasmine Thompson, MD/MPH Candidate, University of Arkansas for Medical Sciences

White Coats 4 Black Lives Racial Dialogue Collective: Shaping Medical Student Leadership and Awareness through Discussions on Systemic Racism and Anti-Racist Practices
Presenter: Ameisha Tutwiler, MD/MBA Candidate, University of Toledo College of Medicine and Life Sciences

Get to Know Me: A Novel Intervention for Critically Ill Patients with COVID-19
Presenter: Azeb Yirga, MD Candidate, Harvard Medical School

Social and Behavioral Sciences and Public Health
Improving Harm Reduction Resources Available to Providers at Fenway Health
Presenter: Sherifat Ademola, MD Candidate, The Brody School of Medicine at East Carolina University

Healthcare provider and Health Promoter (HP) Perceptions of HP Clinical Integration at Primary Care Clinics
Presenter: Danielle Andrews, MD/MPH Candidate, Loyola University Chicago Stritch School of Medicine

Presenter: Victoria Buckman, MD Candidate, Rush Medical College

Racial Disparities in the Rates of Infection and Mortality of COVID-19 Highlights Structural Inequality in DC Wards
Presenter: Stephanie Carter, MD Candidate, Howard University College of Medicine

Cardiovascular Disease (CVD) in the United States: Addressing the #1 Silent Killer
Presenter: Sabrina Coaxum, MD Candidate, Saint George’s University School of Medicine

Age Trending Gender Differences in Musculoskeletal Telehealth Utilization
Presenter: Lisa Coleman, MD/MPH Candidate, The Ohio State University College of Medicine and Public Health

COVID Confusion: Quantifying and Modulating Public Health Knowledge Gaps Amongst Physicians and Medical Students in a Pandemic
Presenter: Joshua Daniel, DO Candidate, A.T. Still University School of Osteopathic Medicine Arizona
Quality Improvement: Patient Education for Management of Hypertension in Pregnancy
Presenter: Kriti Goel, MD Candidate, Wright State University Boonshoft School of Medicine

Cultural Competence in Medical School Education: A Mini Review
Presenter: Sharice Hill, MD Candidate, Ross University School of Medicine

It’s Hard To Believe That You Belong: Interviews with Eight Black Medical Students at the Uniformed Services University of the Health Sciences in 2020 With Recommendations From a Focus Group
Presenter: Monnique Johnson, DO/MS Candidate, Uniformed Services University, of the Health Sciences

Factors Associated with Hospitalizations and Readmissions among Patients with Sickle Cell Anemia in Two Hospitals in Cameroon
Presenter: Tchouda Sani Leticia Armelle MD Candidate, Faculty of Health Sciences University of Buea

The Power of the Pipeline
Presenter: Amundam Mancho, Graduate Student Candidate, University of Rochester School of Medicine and Dentistry

Attitudes and Experiences of Medical Students Underrepresented in Medicine (UIM) Considering Applying to Ophthalmology Residency
Presenter: Brandon McKenzie, MD Candidate, Howard University College of Medicine

Evaluating Social Determinants: Disparities in Access to Resources Amongst Clients of the Center for Law and Justice
Presenter: Ogechukwu Opaigbeogu, MD Candidate, Albany Medical College

Storytelling and Empathy: A Pilot Intervention for Reducing Weight Bias in Healthcare
Presenter: Gisselle Pichardo, DO Candidate, Ohio University College of Osteopathic Medicine

Female Sex, White Race, and Younger Age Are Associated With Hidradenitis Suppurativa Diagnostic Delay
Presenter: Fatuma-Ayaan Rinderknecht, MD Candidate, University of California, San Francisco School of Medicine

A Literature Review of Neuropsychiatric Manifestations of COVID-19
Presenter: Joyce Sadiku, MD Candidate, American University of Antigua

Addressing an Epidemic Through Engagement: Utilization of a Community Asset Map to Discuss Solutions for Opioid Problems in Minority Communities
Presenter: Jasmine Thompson, MD Candidate, Howard University School of Medicine

Translational Science

The Role of Alcohol on Osteogenic Differentiation of Human Mesenchymal Stem Cells and its Effect on Fracture Healing Through wnt/β-catenin Signaling Pathway and SIRT1 Deacetylase Activity
Presenter: Eseosa Aiwerioghene, MD Candidate, Loyola University Chicago School of Medicine

Developing Functional Network Connectivity of the Dorsal Anterior Cingulate Cortex Mediates Externalizing Psychopathology in Adolescents With Child Neglect
Presenter: Simone Boney, MD Candidate, East Carolina Brody School of Medicine

Social Isolation Associates With NKp46 Expression on Natural Killer Cells Through a Relationship Partially Mediated by RANTES in African-American Women
Presenter: Veronica Gray, MD Candidate, National Institutes of Health

The Ability of PROMIS (Patient Reported Outcome Measurement Information System) to Predict Generalizable Postoperative Outcomes in Foot and Ankle Patients: A Systematic Review
Presenter: Shayar Kian, MD Candidate, Meharry Medical College