



GOOD NEWS!

Wake Forest University School of Medicine Cardiovascular Sciences Center

Summer 2024

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Dr. Michael Shapiro Appointed as President of the American Society for Preventive Cardiology



Shapiro

We are proud to announce that Dr. Michael Shapiro, Professor of Cardiovascular Medicine, has been appointed as the [President](#) of the [American Society for Preventive Cardiology](#) (ASPC). This prestigious appointment is a testament to Dr. Shapiro's leadership, expertise, and longstanding commitment to the advancement of cardiovascular health and disease prevention.

As the new President of the ASPC, Dr. Shapiro will lead the Society's mission to promote the prevention of cardiovascular disease, which remains the leading cause of death globally. Under his leadership, the ASPC aims to expand its educational programs, foster collaborative research, and advocate for policies that enhance preventive care practices.

Dr. Shapiro's extensive work in preventive cardiology, including his involvement in clinical trials, research, and education, has significantly impacted the field. His vision for the ASPC includes a strong focus on bridging the gap between clinical practice and emerging research, particularly in areas such as lipid management, risk assessment, and innovative prevention strategies.

This appointment is not only a significant achievement for Dr. Shapiro but also reflects the continued excellence and influence of Wake Forest University School of Medicine in shaping the future of cardiovascular care.

Please join us in congratulating Dr. Shapiro on this remarkable achievement and his ongoing efforts to lead the fight against cardiovascular disease.

AWARDS AND ACCOMPLISHMENTS



Khanna

Congratulations to **Ashish K. Khanna, MD, MS, FASA, FCCM** for being selected as the recipient of the American College of Critical Care Medicine's (ACCM) Distinguished Investigator Award. This is the highest recognition given by the ACCM and is awarded to "an individual whose scientific and educational contributions to the art and science of critical care demonstrates career

commitment and excellence." The award encourages excellence in clinical research and recognizes an established and active Society of Critical Care Medicine (SCCM) clinical investigator for meritorious and pioneering clinical research in critical care that has significantly contributed to the treatment and/or understanding of patients. Dr. Khanna will be presented this award during the ACCM Convocation/SCCM Awards Presentation at the SCCM Congress in Orlando, February 2025.

Continued on page 7

FUNDING

During the months of May to August, CVSC members were awarded **29** grants. Below we highlight some of these awards.



Tomar



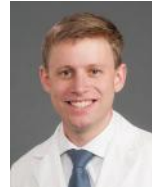
Jadiya

Drs. Tomar (PI) and Jadiya (Co-I) received an American Heart Association Transformational Project Award for their grant titled MICU1's Protein Quality Control in Cardiac Health with

a project period of 07/01/2024-06/30/2027 and a total cost of \$299,995.30.



Mahler



Ashburn

Drs. Mahler (PI), Ashburn, Snavelly and Supples (Co-Is) were awarded \$430,000 from Abbott to investigate point-of-care high-sensitivity cardiac troponin I assays in a multisite emergency department study

over a three-year period with the ACUTE (Assessing Chest Pain Using Point-of-Care High-Sensitivity Troponin I in the Emergency Department) study.



Chappell



Khanna

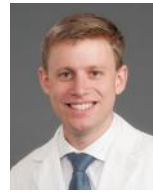


Schaich



Files

Drs. Mark Chappell and Ashish Khanna (CPIs) received a fundable score of 11 percentile for their NIH R01 HL177834 "Dysfunctional Renin-Angiotensin System in Septic Shock." Co-Investigators include **Drs. Christopher Schaich** and **D. Clark Files** along with Drs. Marica Goldberg, Michael Filbin, Daniel Leisman from Massachusetts General Hospital/ Harvard University.



Ashburn



Mahler



Shapiro



Herrington

Drs. Ashburn (PI), Mahler, Snavelly, Shapiro, and Herrington (Co-Is) were awarded \$100,000 from the Emergency Medicine Foundation to assess the role of lipoprotein(a) and glycated albumin in emergency medicine chest pain risk stratification with the CHARISMA (Chest Pain and ASCVD Risk Stratifcation in a Multisite Emergency Department Cohort) study.



Allred



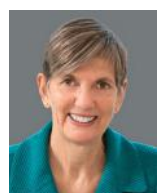
Banks



Bertoni



Das



Wagenknecht

Drs. Fang-Chi Hsu, **Nichollette Allred**, and **Mike Banks (MPIs)** were chosen for funding to join an NIDDK U01 consortium on diabetes heterogeneity (NIDDK RFA: Integration of Novel Markers for Improved Classification of Type 2 Diabetes). The U01 from WFUSM is titled Metabolomic and Genomic Expansion of

Type 2 Diabetes Subtyping in Multiethnic Populations. The proposal team includes Drs. Ralph D'Agostino Jr., **Alain Bertoni**, **Swapan Das**, and **Lynne Wagenknecht**.



Yamaleyeva



Cruz-Diaz



Pulgar



Shaltout

Dr. Liliya Yamaleyeva was awarded a NIH R21 grant (1R21HD114073-01) for her project "Apelin Receptor Axis and Long-term Consequences of Preeclampsia" from 9/01/2024- 08/30/2026 for a total amount of \$426,250. The goal is to establish the effects of apelin receptor axis on cerebrovascular function postpartum. Co-Investigators include Drs. Robert Gould (Translational Neuroscience), Tao Ma (Gerontology), **Nildris Cruz-Diaz** (Surgery/Hypertension), **Victor Pulgar** (Campbell University; Surgery/Hypertension, WFUSM), **Hossam Shaltout** (Department of Obstetrics and Gynecology; Surgery/Hypertension), Jeffrey Denney (Department of Obstetrics and Gynecology).



Cyrille-Superville

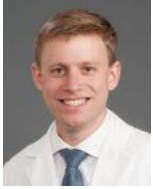
Dr. Nicole Cyrille-Superville (PI: Dr. Dalane Kitzman) was awarded a NHLBI administrative supplement grant (3U01HL160272-04S1) for the "Wake Forest Atrium HeartShare Clinical Center" study.

INVITED PRESENTATIONS



Tomar

Dhanendra Tomar, PhD, served as an organizing committee member at the 6th Asian Cardiovascular Symposium, held on July 21, 2024, in Chicago, IL. He also co-chaired the session titled Data Blitz: Pre-doctoral Trainee Presentations.



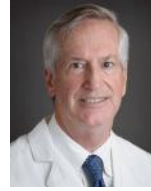
Ashburn

On June 27th, **Dr. Nicklaus Ashburn** presented at the 28th Annual Building Partnerships for Healthier Heart Conference. He talked about the recently funded NIH clinical trial Emergency Medicine Cardiovascular Risk Assessment for Lipid Disorders (EMERALD) on ED-initiated preventive cardiovascular care.



Schaich

Dr. Christopher Schaich has been invited to present "Dysfunction of the Renin-Angiotensin System in Critical Illness" at Winthrop University's Department of Biology on November 6.



Wilson

B. Hadley Wilson, MD, MACC presented "Introduction to the ACC" at the The Society for Cardiovascular Angiography & Interventions (SCAI) Emerging Leaders Mentorship (ELM) Program on May 2.

On May 16, **B. Hadley Wilson, MD, MACC** presented "Late Breaking EMPACT MI Trial" for the New Jersey Chapter of the American College of Cardiology.

B. Hadley Wilson, MD, MACC presented "Does ischemia evaluation still have a place in these patients?" for the Uruguayan Society of Cardiology on May 23.

Dr. Michael Moore was an invited speaker for the Virginia Osteopathic Medical Association's 2024 Spring CME Conference in Williamsburg, VA, April 26-27, 2024. He presented two online lectures: "Getting a Hypertensive Patient's Blood Pressure to Goal" and "Recognizing Glomerular Disease."



AUSTIN'S DATA TIPS & TOOLS

Metrics for Evaluating Binary Classification Models

In this edition of data tools and tips we'll review some of the most common metrics for assessing the quality of binary classification models. Binary classification is one of the most common problems addressed in research so it's important to know what makes a good (or bad) classification model. Commonly reported ones are area under the curve (AUC), sensitivity, specificity and no information rate (NIR).

AUC represents the probability that the model, if given a randomly chosen positive and negative example, will rank the positive higher than the negative. AUC has values between 0 and 1. The closer to 1 the AUC is the better the model. Generally values above 0.7 or 0.8 are considered good.

Sensitivity and Specificity are complements of one another. Sensitivity is the likelihood that a test will correctly identify a patient with a disease as positive while specificity is the likelihood that a test will correctly identify a patient without a disease as negative. These two often have an inverse relationship as when one is high the other tends to be low. The two values can be useful in deciding if your training data is biased in any way (i.e. imbalanced outcomes creating biased model) especially if one is really high and the other is extremely low.

Lastly there is NIR. It's a statistical test that assesses if a classification system's accuracy is significant for a given problem. NIR compares a classifier's performance to random assignment, and is calculated as the proportion of observations that fall into the majority class. If a classifier's accuracy is lower than the NIR, it's performing worse than simply guessing the majority class. NIR can be helpful in determining if your accuracy is high enough.

Note that the last three metrics mentioned depend on the classification cutoff for predicted probabilities (Are probabilities > 0.5 classified as positive? Or > 0.6?).

This is not an exhaustive list of metrics but are ones you can look for in most research publications. Others you might see are: F1, False Positive Rate, and True Positive Rate.

Thanks for reading this edition of data tools and tips. Don't hesitate to reach out to me if you have any questions or would like to talk more.

Austin Seals, MSA
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CAREER CORNER

The **Cardiovascular Sciences Center (CVSC)**, Sticht Center for Healthy Aging and Alzheimer’s Prevention and Hypertension and Vascular Research Center welcomed the undergraduate college students and WFUSM medical students listed below into 3 summer research programs for 2024.

These programs involve CVSC faculty and are led by a collaborative team of members committed to increasing diversity in the biomedical sciences (BMS). The programs are made possible by the outstanding mentors who host these students for meaningful research experiences and the students who are selected from schools across the nation. The cohorts this year represent 9 different universities within North Carolina, 3 HBCUs and 3 different campuses of the University of Puerto Rico. Research topics address aging, cardiovascular function and disease, and child health broadly, within the overarching concept of health disparities that impact the lifespan.

Our partners include many other summer programs, the Graduate School BMS programs, prior participants who have gone on to successful careers for professional development, career opportunities and social activities to provide networking and a sense of community. Our **CVSC members** and staff (particularly Ms. Lydia Durr and Dr. Claudia Olivier) deserve many, many thanks for all they do to make these programs successful, and we are very appreciative of the continuing support and enthusiasm they provide to the students.

The following trainees and mentors participated in the programs for 2024:

Excellence in Cardiovascular Sciences (EICS)

| EICS STUDENT | UNDERGRAD INSTITUTION | MENTOR(S) & DEPARTMENT | PROJECT TITLE |
|-------------------------------|---------------------------------------|---|---|
| Moesha Andze | MCPHS University | Patricia Smyre, PhD; TanYa Gwathmey, PhD MACHE | The Role of Health Ministries in Reducing Cardiovascular Health Disparities: Faith Leaders’ Perspectives of Impact |
| Ellie Cyrus | Winston-Salem State University | Katherine Cook, PhD Cancer Biology | Investigating the Effects of Oral Probiotics on Mitigating Cardiac Dysfunction Induced by Breast Cancer Therapies |
| Mykyrah Davis | Delaware State University | Xuewei Zhu, PhD Molecular Medicine | Mamaki Tea Extract Modulation of Macrophage Polarization into Different Phenotypes Atherosclerosis using Mbmdm |
| Jalen Furqan | Morehouse College | Sophie Maiocchi, PhD Biomedical Engineering | Precision Control of Nanoparticle Size via Flash Nanoprecipitation |
| Serinity Her | University of Wisconsin-Madison | Leslie Poole, PhD Biochemistry | TREX1 Regulates the Inflammation Response to Oxidatively Damaged Cytosolic DNA |
| Alayna Lisbon | University of West Georgia | Jill Keith, PhD; Ryan Fitzgerald, PhD Biochemistry, WSSU | Chiral Synthesis of WSSU-5: A Diphenylpyraline Derivative for Cardiovascular Activity Analysis |
| Nayelis Lorenzo Mendez | University of Puerto Rico - Aguadilla | Allison Caban-Holt, PhD MACHE | Trust in Hispanics: The Relationship of Acculturation with Trust in Healthcare Researchers |
| Kevin Rosa Dieppa | University of Puerto Rico at Cayey | Chia-Chi Key, PhD Molecular Medicine | Propofol Effects on Bioenergetics in Blood Cells (PEBBLE) |
| Noah Sampson | East Carolina University | Megan Irby, PhD Health & Exercise Science, WFU | Perceptions of Pain and Pain Management Among Cancer Survivors Participating in an Online Pain Coping Skills Training Program |
| Adah Stancil | UNC Charlotte | Nicole Levi, PhD Plastic & Reconstructive Surgery | Disrupting Staphylococcus Aureus Biofilms Using Farnesol in Polyoctanediol Citrate Nanoparticles |
| Ashley Szymonski | Wake Forest University | David Soto-Pantoja, PhD Cancer Biology | The Influence of Cancer in Chemotherapy-Related Cardiotoxicity |
| Nicole Wu | Wake Forest University | Jeffrey Willey, PhD Radiation Oncology | The Additive Effects of Diabetes and a Sedentary Lifestyle Decreases Joint Health |

Enhancing UNderGraduate Education and Research in AGing to EEliminate Health DDisparities (ENGAGED)

| ENGAGED STUDENT | UNDERGRAD INSTITUTION | MENTOR(S) & DEPARTMENT | PROJECT TITLE |
|---------------------|--|--|---|
| Chloe Bryant | Winston-Salem State University | Tina Brinkley, PhD Gerontology & Geriatric Medicine | Association Between Area Deprivation Index Scores and Primary Care Physician Visits Among Rural Older Adults |
| Kayari Harris | Winston-Salem State University | Daniel Kim-Shapiro, PhD Physics, WFU | Reaction of Catalase, Azide, and Hydrogen Peroxide |
| Abigail Hilsman | St. Olaf College | Gagan Deep, PhD Gerontology & Geriatric Medicine | Mitochondrial Signatures in Small Extracellular Vesicles to Predict Age-Related Muscle Dysfunction |
| Niyah Lindsay | Western Carolina University | William Booth, PhD Clinical Laboratory Science, WSSU | Initiation of Structural Determination Experiments for Nicotinamide Adenine Dinucleotide Dehydrogenase Subunit-6 |
| Leah Osei | Howard University | Sarah Adjei-Fremah, PhD Biological Sciences, WSSU | PFAS-Induced Mitochondrial Dysfunction and Aging in Neuroblastoma Cells (N18) |
| Luis Perez Dieppa | University of Puerto Rico at Cayey | Rachel Zimmer, DNP, NP Implementation Science | Evaluation of Food Landscape in Winston Salem: A City-Academic Partnership |
| Gargi Rao | Cornell University | Caryn Gee Morse, MD, MPH Infectious Diseases | Targeting Frailty in Older Adults with HIV |
| Bailey Reutinger | Elon University | Emilie Duchesneau, PhD Epidemiology & Prevention | The Association Between Frailty and Incident Cognitive Impairment in the National Health and Aging Trends Study |
| Marcus Stamps | Cornell University | Tennille Presley, PhD Physics, WSSU | Exploring the Effects of Pure Tone Solfeggio Frequencies on Galvanic Skin Response and Cell Activity |
| Diana Umpierre Diaz | University of Puerto Rico - Rio Piedras Campus | Christopher Schaich, PhD Hypertension & Vascular Research | The Association of Lipoprotein(a) with Atherosclerotic Cardiovascular Disease and Interactions by Body Mass Index |
| Kayla Young | Mississippi State University | Ashley Weaver, PhD Biomedical Engineering | Computed Tomography to Assess Body Composition and Lung Volumes in Heart Failure Patients and Controls |

Training in Research Affecting Child Health (TRAC)

| TRAC UNDERGRAD STUDENT | UNDERGRAD INSTITUTION | MENTOR(S) & DEPARTMENT | PROJECT TITLE |
|------------------------|---------------------------------|---|---|
| Aaliyah Alston | UNC Greensboro | Elizabeth Jensen, PhD Epidemiology & Prevention | Blood Lead Level Testing Rate Among Different Demographics |
| Adah Freeman | North Carolina State University | Giya Harry, MD, MPH, MSc Pediatrics- Rheumatology | Impact of Weight Status on Health-Related Quality of Life in Adolescents with Rheumatic Conditions: A Study of Spanish and English-Speaking Cohorts |
| Sophia Garganta | Elon University | Thomas McLean, MD; Joanna Robles, MD Pediatrics- Hematology & Oncology | Association of Language and Healthcare Utilization Among Pediatric Cancer Patients |
| Daniel Lake | Queens University of Charlotte | Cara Janusz, PhD, MPH, MA Implementation Science | Implementation of HPV Vaccination in Retail Pharmacies: Foundational Survey |
| Corinne Laws | UNC Greensboro | Arezoo Movaghar, PhD Pediatrics | Co-Occurrence of Depression and Physiological Conditions in Patients with Down Syndrome |
| Autumn Lynch-Coleman | UNC Chapel Hill | Sarah Vess, PhD Pediatrics- Developmental | Evaluating the Efficacy of Parent-Child Interaction Therapy in Medically Complex Children Aged 3-8 |
| TRAC MEDICAL STUDENT | MEDICAL INSTITUTION | MENTOR(S) & DEPARTMENT | PROJECT TITLE |
| Riayn Deria | WFU School of Medicine | Asma Ahmed, PhD, MD Epidemiology & Prevention | Maternal Traumatic Injuries During Pregnancy: Validity of Diagnostic Code |
| Mary Graham | WFU School of Medicine | Sarah Cilvik, MD, PhD Pediatrics - Neonatology | The Effects of Maternal Age on Offspring Growth in a Non-Human Primate Model |
| Brittney Hoard | WFU School of Medicine | Carol Vincent, MD Pediatrics - Nephrology | Understanding Pediatrician Perspective and Practice Regarding Hydration in Youth |
| Jamie Means | WFU School of Medicine | Kristina Lewis, MD, MPH, SM Epidemiology & Prevention | Quantifying the Knowledge and Perceptions about the WIC Program in Pregnant Patients and OBGYN Staff Members |
| Jeremy Odens | WFU School of Medicine | Jillian Urban, PhD, MPH Biomedical Engineering | Relationship Between Tackling Form and Head Acceleration Events in Youth Football Competition |
| Sydney Warner | WFU School of Medicine | Callie Brown, MD, MPH Pediatrics-General | Effects of Family Intervention of Parental Diabetes Mellitus |

ANNOUNCEMENTS

Welcome to our newest CVSC members!

| | | | |
|------------------------|-------------------------------|---------------------------|-------------------------------|
| Jorge Alegria, MD | Sherry J. Saxonhouse, MD, MS | Priyesh A. Patel, MD | Satish Misra, MD |
| Theodore A. Frank, MD | Nicole Cyrille-Superville, MD | Jonathan G. Schwartz, MD | Brian D. Powell, MD |
| Andrew E. Kott, MD | Sanjeev K. Gulati, MD | William E. Downey, MD | Gregory James Sinner, MD, MPT |
| Michael Olivier, PhD | Troy Leo, MD, MHCM | John Holshouser, MD | John M. Fedor, MD |
| Geoffrey A. Rose, MD | Neel Jaiprakash Patel, MD | Joseph D. Mishkin, MD | Noreen P. Kelly, MD, MBA |
| Nyal Ernest Borges, MD | Markus D. Scherer, MD | Dermot M. Phelan, MD, PhD | Shuktika Nandkeolyar, MD |
| Holly Gonzales, MD | Amar Doshi, MD | Jai Singh, MD | Michael J. Rinaldi, MD |
| Glen J. Kowalchuk, MD | Terrence E. Hill, MD | Michael D. Elliott MD | B. Hadley Wilson, MD |
| Amar P. Parikh, MD | George Mawardi, MD | Thomas V. Johnson, MD | |

For a complete list of members see [WFUSM CVSC](#).

The Cardiovascular Sciences Center (CVSC) is seeking proposals for the 2025 Pilot Award Program. The projects should be those in need of support to promote new areas or technologies for cardiovascular research (basic, clinical, population), as well as to foster new collaborations, particularly across the Atrium Health System. The goal of the CVSC Pilot Program is to allow investigators (particularly early career researchers) to pursue novel and innovative ideas that will improve the likelihood of obtaining extramural funding for their research. We encourage research that uses Institutional Cores and other shared resource. The funding is also meant to allow investigators to perform critical experiments, access core facilities or improve analyses to address specific critiques raised by reviewers for already submitted and reviewed applications.

Completed applications are due Spring 2025. Please contact Dr. Liliya Yamaleyeva (lyamaley@wakehealth.edu) if you need further guidance.

The **ENVISION Campaign**, the campaign to accelerate discovery, hope and health continues to raise the critical funding needed to support promising research efforts across the enterprise. Funds raised will enable us to invest in research throughout an individual's lifespan across key areas of focus including cardiovascular research.

To learn more about the ENVISION Campaign, visit:
<https://giving.wakehealth.edu/find-your-cause/greatest-need/envision/cardiovascular>

Contact the Office of Philanthropy and Alumni Relations for more information. Philanthropy@wakehealth.edu or 336.716.4589



AWARDS AND ACCOMPLISHMENTS *continued*

Michael A. Moore, MD, FACP, FAHA has been appointed the Chairperson of the Southern States CME Collaborative (SSCC) which manages Category 1 AMA CME credit for physicians' educational programs in Mississippi, North Carolina, and Virginia. For over 25 years, Dr. Moore has been the Director of CME for Sovah Health in Danville VA. He was a member of the Medical Society of Virginia's Interstate Accreditation (CME) Committee of which he was Chairperson in 2023 until it merged into the SSCC.



Cyrille-Superville



Kitman

Congratulations to **Dr. Nicole Cyrille-Superville** on being awarded the Top Principal Investigator Award by the Heart Failure Collaboratory (HFC), in collaboration with the AHA. She was nominated by **Dr. Dalane W. Kitman** for her outstanding

performance in the REHAB-HFpEF and HeartShare clinical trial. **Dr. Cyrille-Superville** will be recognized during an event at the AHA's annual Scientific Sessions conference, at the McCormick Convention Center in Chicago, IL.



Velazquez

Kudos to **Gabriela Velazquez, MD, FACS** for receiving the 2025-2026 James IV Traveling Fellowship Award. The James IV Travelling Fellowship is designed to promote communication and collaboration in the surgical community. Travelers are both ambassadors representing their home countries, and conduits for the dissemination of knowledge.



South

Researchers at WFUSM, led by PI **Dr. Andrew M. South**, launched the website for the [Study of the Epidemiology of Pediatric Hypertension \(SUPERHERO\)](#), a retrospective registry of youth referred to subspecialty clinics for hypertension disorders. The first SUPERHERO manuscript was recently published in the [American Journal of Epidemiology](#).

South AM, Giammattei VC, Bagley KW, Bakhoun CY, Beasley WH, Bily MB, Biswas S, Bridges AM, Byfield RL, Campbell JF, Chanchlani R, Chen A, D'Agostino McGowan L, Downs SM, Fergeson GM, Greenberg JH, Hill-Horowitz TA, Jensen ET, Kallash M, Kamel M, Kiessling SG, Kline DM, Laisure JR, Liu G, Londeree J, Lucas CB, Mannemuddhu SS, Mao KR, Misurac JM, Murphy MO, Nugent JT, Onugha EA, Pudupakkam A, Redmond KM, Riar S, Sethna CB, Siddiqui S, Thumann AL, Uss SR, Vincent CL, Viviano IV, Walsh MJ,

White BD, Woroniecki RP, Wu M, Yamaguchi I, Yun E, Weaver DJ Jr. [The Study of the Epidemiology of Pediatric Hypertension Registry \(SUPERHERO\): Rationale and Methods](#). Am J Epidemiol. 2024 Jun 17;kwae116. doi: 10.1093/aje/kwae116. Epub ahead of print. PMID: 38881045.

The study was established in January 2015 with more than 16,000 study participants to date. It is the largest cohort of youth with hypertension disorders, and WFUSM is the primary coordinator center. The study is open to enrollment for other hospitals interested in participating, and currently includes [14 Children's Hospitals](#) in North America that will follow participants from childhood through adulthood.



Kim

Dr. Esther Kim has been named as a director to the inaugural proposed independent Board of Cardiovascular Medicine. The proposed American Board of Cardiovascular Medicine is governed by a Board of Directors comprising cardiovascular professionals spanning the field of cardiology. The directors will guide the new Board and be responsible for strategically developing and implementing the initial certification and supporting continuous certification programs once a decision by the American Board of Medical Specialties has been made.



Rose

Dr. Geoffrey Rose was recently named to Board of Trustees for the American College of Cardiology, starting in 2025.

Olivia Gilbert, MD, MSc, on behalf of the American College of Cardiology (ACC) and the Solution Set Oversight Committee (SSOC), has been invited to serve as Chair of the writing committee for the Concise Clinical Guidance: An ACC Expert Consensus Statement on Weight Loss Medications for CV Benefit.

SHVI held its first APP Grand Rounds on July 23 with **Dr. Nyal Borges** discussing Cardiogenic Shock 101. There were over 55 attendees (virtually and in person). SHVI APP Grand Rounds have been created to provide education on the clinical application of cardiovascular medicine. This educational offering will be occurring monthly.

PUBLICATIONS

Between the months of May-August, Cardiovascular Sciences Center members published **82** manuscripts. Of these, **8** were CVSC first author publications. Below we highlight publications from the CVSC and SHVI.

Millard MJ, **Ashburn NP**, Snavely AC, Hashemian T, Supples M, Allen B, Christenson R, Madsen T, McCord J, Mumma B, Stopyra J, Wilkerson RG, **Mahler SA**. European Society of Cardiology O/1-hour algorithm (high-sensitivity cardiac troponin T) performance across distinct age groups. *Heart*. 2024 May 23;110(12):838-845. doi: 10.1136/heartjnl-2023-323621. PMID: 38471727.

Marzook H, Gupta A, Jayakumar MN, Saleh MA, **Tomar D**, Qaisar R, Ahmad F. GSK-3 α -BNIP3 axis promotes mitophagy in human cardiomyocytes under hypoxia. *Free Radic Biol Med*. 2024 Aug 20;221:235-244. doi: 10.1016/j.freeradbiomed.2024.05.041. Epub 2024 May 28. PMID: 38815772.

Hughes TM, Tanley J, Chen H, **Schaich CL**, **Yeboah J**, **Espeland MA**, Lima JAC, Ambale-Venkatesh B, Michos ED, Ding J, Hayden K, Casanova R, **Craft S**, Rapp SR, Luchsinger JA, Fitzpatrick AL, Heckbert SR, Post WS, Burke GL. Subclinical vascular composites predict clinical cardiovascular disease, stroke, and dementia: The Multi-Ethnic Study of Atherosclerosis (MESA). *Atherosclerosis*. 2024 May;392:117521. doi: 10.1016/j.atherosclerosis.2024.117521. Epub 2024 Mar 15. PMID: 38552474; PMCID: PMC11240239.

Lerakis S, Kini AS, Giustino G, Anastasius M, Asch FM, Weissman NJ, Grayburn PA, Kar S, Lim DS, Mishell JM, Whisenant BK, **Rinaldi MJ**, Kapadia SR, Rajagopal V, Sarembock II, Brieke A, Tang GHL, Li Y, Alu MC, Lindenfeld J, Abraham WT, Sharma SK, Mack MJ, Stone GW. Changes in Left Ventricular Function and Outcomes After Transcatheter Edge-to-Edge Repair for Secondary Mitral Regurgitation. *J Soc Cardiovasc Angiogr Interv*. 2024 Feb 23;3(5):101345. doi: 10.1016/j.jvscai.2024.101345. PMID: 39132458; PMCID: PMC11307461.

Kelly N, Scherer E, Swayampakala K, **Phelan D**, Ross E, Johnson T, **Rose G**, **Scherer M**. Precardioversion assessment with computed tomography compared with transesophageal echocardiography in patients with atrial fibrillation or flutter. *Heart Rhythm*. 2024 Jun 22:S1547-5271(24)02805-4. doi: 10.1016/j.hrthm.2024.06.031. Epub ahead of print. PMID: 38909719.

Wells BJ, Wood MJ, O'Duffy AE, Sumner JA, Chi G, Grodzinsky A, Gornik HL, Kadian-Dodov D, Taylor A, Hess CN, Sanghavi M, Henkin S, Wells G, Tam L, Orford J, Lindley K, Kumbhani DJ, Vitarello C, Alkhalaf F, Gibson CM, Leon KK, Naderi S, Kim ES. Migraine headache in patients with spontaneous coronary artery dissection: A report of the iSCAD Registry. *Vasc Med*. 2024 Jun;29(3):286-295. doi: 10.1177/1358863X241252444. PMID: 38898631; PMCID: PMC11188565.

Cyrille-Superville N, Rao SD, Feliberti JP, **Patel PA**, Swayampakala K, Sinha SS, Jeng EI, Goswami RM, Snipelisky DF, Carroll AM, Najjar SS, Belkin M, Grinstein J; FLIGHT Working Group. PREDICT HF: Risk stratification in advanced heart failure using novel hemodynamic parameters. *Clin Cardiol*. 2024 Jun;47(6):e24277. doi: 10.1002/clc.24277. PMID: 38838029; PMCID: PMC11151004.

Misra S, Swayampakala K, Rajwani A, Davenport E, **Fedor J**, **Saxonhouse S**, **Holshouser J**, **Patel N**, Thompson J, Beaty E, Jain M, **Powell B**, Mehta R. Outcomes of an expedited same-day discharge protocol following cardiac implantable electronic device (CIED) implantation. *J Interv Card Electrophysiol*. 2024 Aug;67(5):1173-1179. doi: 10.1007/s10840-024-01734-w. Epub 2024 Jan 9. PMID: 38194120.

Rymer JA, Wegermann ZK, Wang TY, Li S, Smilowitz NR, **Wilson BH**, Jneid H, Tamis-Holland JE. Ventricular Arrhythmias After Primary Percutaneous Coronary Intervention for STEMI. *JAMA Netw Open*. 2024 May 1;7(5):e2410288. doi: 10.1001/jamanetworkopen.2024.10288. PMID: 38717772; PMCID: PMC11079687.

Sadjadi M, von Groote T, Weiss R, Strauß C, Wempe C, Albert F, Langenkämper M, Landoni G, Bellomo R, **Khanna AK**, Coulson T, Meersch M, Zarbock A. A Pilot Study of Renin-Guided Angiotensin-II Infusion to Reduce Kidney Stress After Cardiac Surgery. *Anesth Analg*. 2024 Jul 1;139(1):165-173. doi: 10.1213/ANE.0000000000006839. Epub 2024 Jan 30. PMID: 38289858



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