UNIVERSITY OF MISSISSIPPI MEDICAL CENTER DEPARTMENT OF MEDICAL CENTER









IMPACT REPORT

The University of Mississippi MEDICAL CENTER[™]





MESSAGE FROM THE CHAIR

Friends and colleagues,

The past 20 months have certainly tested us in every way imaginable. The Department, tasked with caring for every inpatient infected with COVID-19, was stretched to new limits and met with seemingly unending challenges. Our faculty channeled their expertise into what they do best - caring for Mississippi - and in doing so, helped UMMC lead the way in this effort.

Inside this Impact Report, you'll find examples of some of the wonderful work being done by our outstanding faculty and trainees, innovations in each realm of our tripartite mission, and metrics of growth in our clinical and research activities. There is a special section on the Department's role in the COVID-19 pandemic. Despite the challenges brought about by the pandemic, the Department had another record year in research productivity, even with the temporary restrictions. Education programs rapidly adapted, both in terms of making sure that trainee education is not negatively affected, as well as how to recruit the best and the brightest class of future trainees. Clinical volumes and services have picked back up, innovative new services have been added, and evolving healthcare delivery modes to accommodate the needs of the pandemic rapidly have been embraced.

In a lot of ways, this experience has made us stronger by building fortitude and forcing us to find ways to adapt and innovate to meet our goals.

The articles in this Impact Report are but a glimpse into the larger picture of what the Department of Medicine is every single day - and what we strive to be. I am fortunate to witness it daily and I hope you will enjoy learning about what it is that makes us so great.

Best,

Fuer

Javed Butler, MBBS, MPH, MBA Professor and Chair, Department of Medicine Patrick H. Lehan Chair in Cardiovascular Research Professor of Physiology and Biophysics University of Mississippi Medical Center

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DEPARTMENT OF MEDICINE LEADERSHIP

CHAIR

VICE CHAIRS

Javed Butler, MBBS, MPH, MBA

Jason Parham, MD, MPH, Executive Vice Chair Myrna E. Alexander Nickens, MD, Vice Chair, Diversity and Inclusion Russell Boles, MBA, Vice Chair, Finance and Business Administration Jimmy Stewart, MD, Vice Chair, Faculty Development Gailen D. Marshall, MD, PhD, Vice Chair, Research S. Calvin Thigpen, MD, Vice Chair, Education Amanda Clark, MD, Associate Vice Chair, Communications, Development and Technology Michael Hall, MD, MS, Associate Vice Chair, Research Demondes Haynes, MD, Associate Vice Chair, Patient Safety

DIVISION DIRECTORS

Frederick Asher, MD, Hospital Medicine Stephanie Elkins, MD, Hematology and Oncology Sarah Glover, DO, Digestive Diseases Michelle Horn, MD, General Internal Medicine Lillian F. Lien, MD, Endocrinology, Metabolism, and Diabetes Vikas Majithia, MBBS, MPH, Vice Chair, Faculty Development Gailen D. Marshall, Jr., MD, PhD, Asthma, Allergy, and Clinical Immunology Michael R. McMullan, MD, Cardiovascular Diseases Jason Parham, MD, MPH, Infectious Diseases Kimberly C. Tarver, MD, Geriatrics and Gerontology Tariq Shafi, MBBS, MHS, Nephrology

Andrew Wilhelm, DO, Pulmonary, Critical Care, and Sleep Medicine

ADMINISTRATIVE STAFF

Hayley Hammon ASSOCIATE DIRECTOR OF ADMINISTRATION AND FINANCE

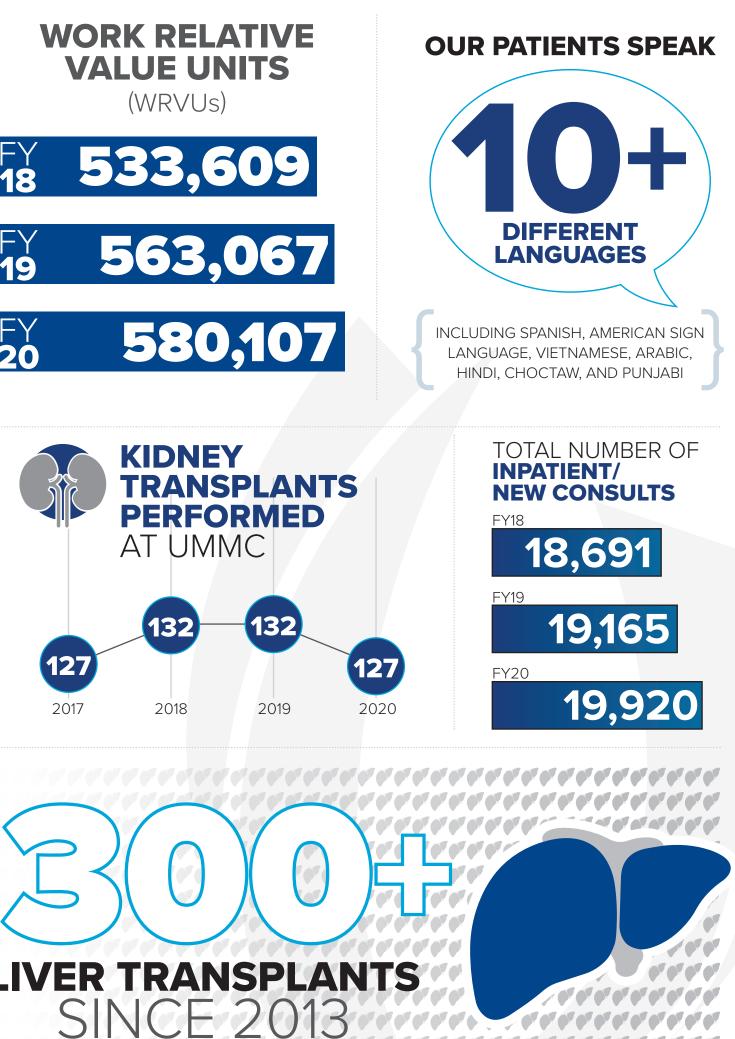
Candice Adams DIRECTOR OF AMBULATORY SERVICES

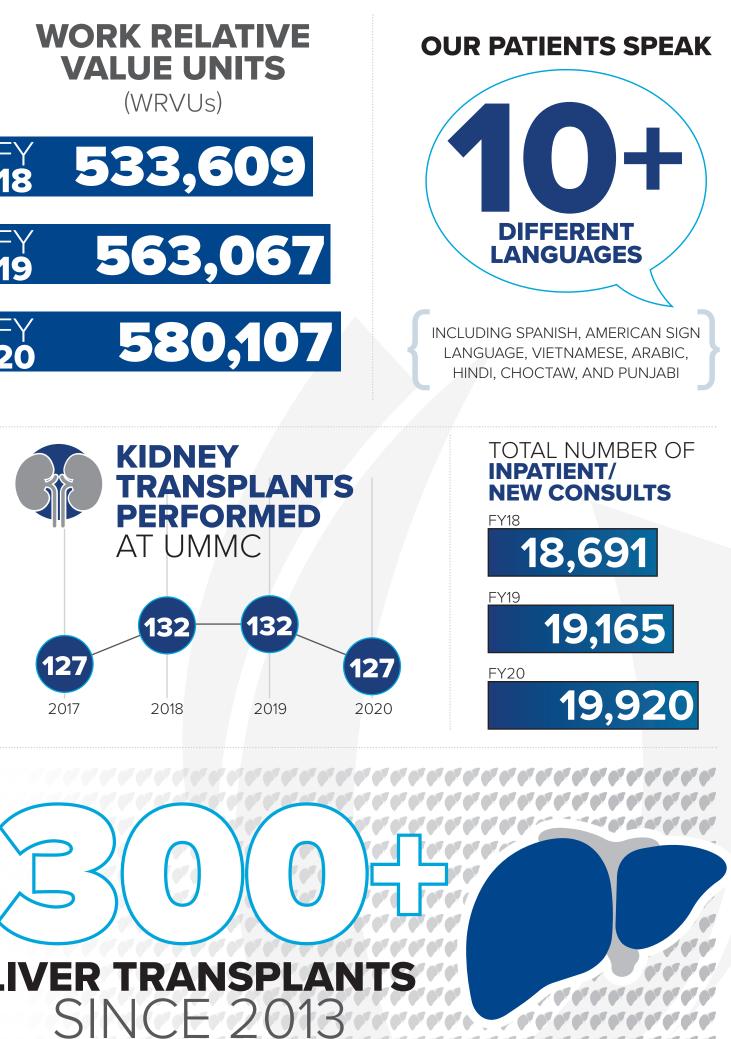
Dimitra Kefalogianni PROJECT MANAGER

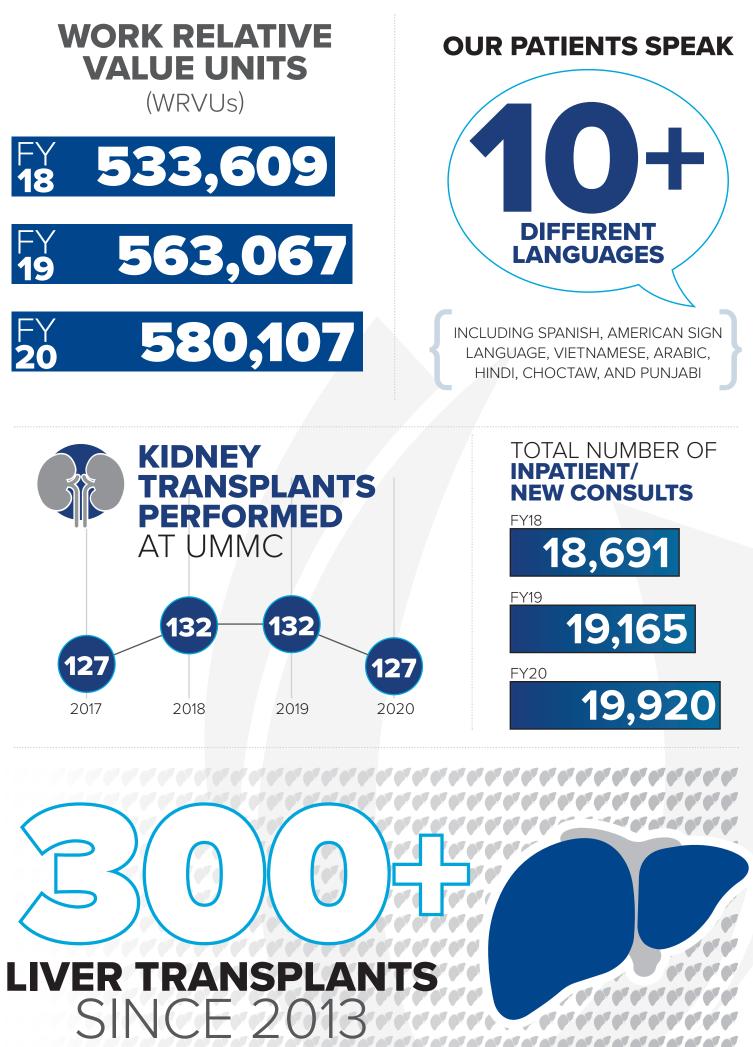
Stacey Hibbard SUPERVISOR OF BUSINESS OPERATIONS

DEPARTMENT OF MEDICINE **BY THE** NUMBERS 66615543 ARE FEMALE YEARS FACULTY DIVISION DIRECTORS **DIVISIONS** ARE FEMALE **SECTIONS**



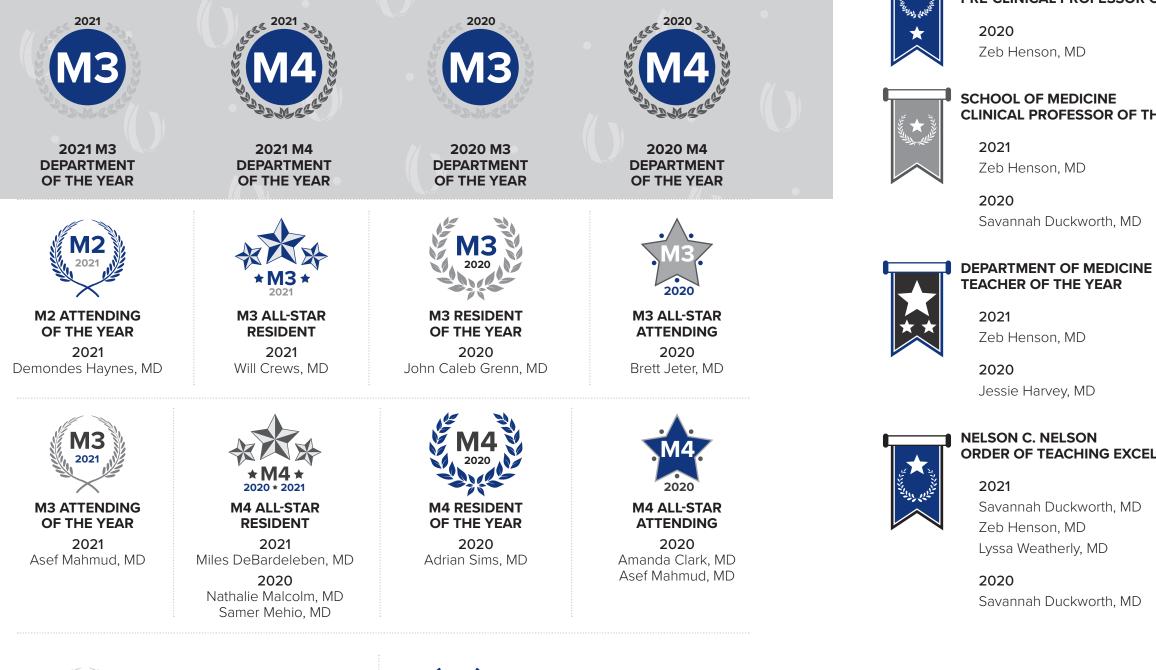








CARL G. EVERS SOCIETY AWARDS



M4 2021

M4 ATTENDING OF THE YEAR 2021 Jessie Harvey, MD



CARL G. EVERS HALL OF FAME INDUCTION 2021 Amanda Clark, MD John Caleb Grenn, MD



PRE-CLINICAL PROFESSOR OF THE YEAR

Zeb Henson, MD



2021

Zeb Henson, MD

2020 Savannah Duckworth, MD

TEACHER OF THE YEAR 2021

Zeb Henson, MD

2020 Jessie Harvey, MD

NELSON C. NELSON ORDER OF TEACHING EXCELLENCE

Savannah Duckworth, MD Zeb Henson, MD Lyssa Weatherly, MD

2020 Savannah Duckworth, MD





X

REGIONS TEACH PRIZE FINALISTS

2021 Lyssa Weatherly, MD

2020 Zeb Henson, MD

TRAILBLAZER TEACHING AWARDS

2021 TRAILBLAZER FACULTY OF THE YEAR Savannah Duckworth, MD

TRAILBLAZER TEACHING AWARDS 2021

Amanda Clark, MD Jessie Harvey, MD Michelle Horn, MD Pegah Hosseini-Carroll, MD

2020

Kenneth Bennett, MD Jessie Harvey, MD Brett Jeter, MD Michael McMullan, MD Rahat Noor, MD Thomas Skelton, MD

OF MEDICINE AWARDS CONTINUED



ALPHA OMEGA ALPHA

AOA FACULTY TEACHER OF THE YEAR 2020 Zeb Henson, MD

AOA INDUCTEES 2021

Michael Hall, MD Michelle Horn, MD Samer Mehio, MD Adam Parker, MD Priya Patel, MD Meredith Sloan, MD Caroline Garraway, MD Kelton Kingsley, MD Jaslyn Paschal, MD Sarah Grace Sobiesk, MD Kelly Dale, MD, AOA President



SCHOOL OF MEDICINE ALUMNI HALL OF FAME

2021 Bryan Barksdale, MD Kenneth Bennett, MD Joe Files. MD

2020 Bernard J. Dreiling, MD



INTERN OF THE YEAR

2021 Raina Muthukumaru, MD

2020 Peyton Reves, MD



HOUSE OFFICER OF THE YEAR

2021 Samer Mehio, MD

2020 R. Jackson Ross. MD



FELLOW OF THE YEAR

2021 Paul Dotherow, MD

2020 Adam Parker, MD



SPIRIT OF THE INTERNAL MEDICINE RESIDENCY PROGRAM

2021 Anna Carr, DO and Amor Royer, MD

2020 J. Cory Coleman, MD

CLINICIAN EDUCATOR TRACK GRADUATES

2021 Will Crews, MD Dana Brunson, MD Ashley Villarreal, MD

2020 Mark Lelli, MD Nathalie Malcolm, MD Meredith Sloan, MD



HUMANISM AND EXCELLENCE IN TEACHING AWARD

2021 Mari Young, MD

2020 Lucas Buchanan, DO John Caleb Grenn, MD



Each year, UMMC's Office of Diversity and Inclusion sponsors "The Pillars," a series of institutional awards that honor individuals who have made meaningful contributions that broaden diversity and promote a climate of inclusion. Recent recipients from the Department of Medicine include



DR. JEREMY COURTNEY PGY-IV. PULMONARY AND CRITICAL CARE

2021 EXCELLENCE AWARD

The Excellence Award honors a student, resident, or fellow from any school of UMMC who demonstrates an outstanding commitment to the institution's goals to promote diversity and inclusion within the institution and through service to the community.

DEPARTMENT OF MEDICINE FACULTY RECEIVE PILLARS AWARDS



DR. ERVIN FOX PROFESSOR OF CARDIOLOGY

2021 BEACON AWARD

The Beacon Award honors any clinical or non-clinical faculty member with an academic designation or rank who demonstrates inclusive excellence in teaching, instruction, research, or clinical practice at UMMC.



DR. DEMONDES HAYNES PROFESSOR OF PULMONARY AND CRITICAL CARE AND ASSOCIATE DEAN OF ADMISSIONS, SCHOOL OF MEDICINE

2019 LIFETIME ACHIEVEMENT AWARD

The Lifetime Achievement Award acknowledges an alumni who has made a significant contribution to improving health outcomes in diverse communities in the state of Mississippi.

DEPARTMENT OF MEDICINE **ANNUAL AWARDS**

MASTER CLINICIAN



DR. DOUGLAS A. WOLFE

(CARDIOLOGY)



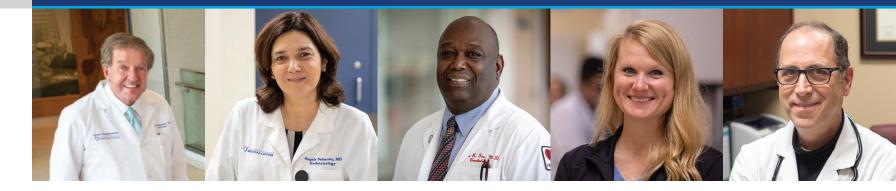
2019-2020 DR. MARK MEEKS (GERIATRICS)

MENTORING



2020-2021 2019-2020 DR. MARION WOFFORD DR. LILLIAN LIEN (GENERAL INTERNAL MEDICINE) (ENDOCRINOLOGY)

DEPARTMENT OF MEDICINE **IMPACT REPORT**



OUR DIVISIONS

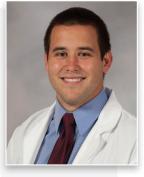
EDUCATOR/TEACHER



(INFECTIOUS DISEASES)

2019-2020 DR. PRAKHAR VIJAYVARGIYA DR. JESSIE HARVEY (PULMONARY AND CRITICAL CARE)

OUTSTANDING SERVICE/FACULTY



2020-2021 DR. BRETT JETER (HOSPITAL MEDICINE)



2019-2020 DR. BRYAN BARKSDALE (CARDIOLOGY)





OUTSTANDING SERVICE/STAFF



2020-2021 SANDY SARTIN (GENERAL INTERNAL MEDICINE)



2019-2020 LORRAINE FINDLEY, RN (ENDOCRINOLOGY)

- ALLERGY, ASTHMA, AND CLINICAL IMMUNOLOGY
- CARDIOVASCULAR DISEASES
- DIGESTIVE DISEASES
- ENDOCRINOLOGY, METABOLISM, AND DIABETES
- GENERAL INTERNAL MEDICINE
- GERIATRICS AND GERONTOLOGY
- HEMATOLOGY AND ONCOLOGY
- HOSPITAL MEDICINE
- INFECTIOUS DISEASES
- NEPHROLOGY
- PULMONARY, CRITICAL CARE, & SLEEP MEDICINE
- RHEUMATOLOGY AND MOLECULAR IMMUNOLOGY



GAILEN D. MARSHALL, JR., MD, PHD R. FASER TRIPLETT SR MD CHAIR OF ALLERGY AND IMMUNOLOGY AND DIVISION DIRECTOR

PATRICIA STEWART, MD ASSOCIATE PROFESSOR AND FELLOWSHIP PROGRAM DIRECTOR

LEIGH SKIPWORTH DIVISION BUSINESS ADMINISTRATOR

Faculty Members with Joint Appointments:

ANNE B. YATES, MD PROFESSOR OF PEDIATRICS AND MEDICINE

JESSICA PERKINS, MD ASSISTANT PROFESSOR OF PEDIATRICS AND MEDICINE AND FELLOWSHIP PROGRAM ASSOCIATE DIRECTOR

NINABEN DAVE, MBBS ASSISTANT PROFESSOR OF PEDIATRICS AND MEDICINE

LINDA SCHMIDT, MD ASSISTANT PROFESSOR OF PEDIATRICS AND MEDICINE

JOHN B. BATES, PHD ASSISTANT PROFESSOR OF MICROBIOLOGY & IMMUNOLOGY AND MEDICINE

RITESH TANDEN, PHD ASSOCIATE PROFESSOR OF MICROBIOLOGY & IMMUNOLOGY AND MEDICINE

DIVISION OF ALLERGY, ASTHMA, AND CLINICAL **IMMUNOLOGY**



Dr. Patricia Stewart teaching fellows in clinic

The Division of Allergy, Asthma, and Clinical Immunology is dedicated to pursuing cutting-edge, immunology-based research with direct clinical application, providing precision medicinebased care for patients with allergy, asthma, and immune-based illness, and educating the next generation of allergy, asthma, and immunology specialists for the citizens of Mississippi.

- Gailen Marshall, MD, PhD serves as Executive Director of the Mississippi Clinical Research and Trials Center and recently completed his term as President of the Southern Society for Clinical Investigation. He serves as editor-in-chief of the Annals of Allergy, Asthma and Immunology, the official journal of the American College of Allergy, Asthma and Immunology. Marshall also serves as the Department of Medicine's Vice Chair for Research.
- Patricia Stewart, MD serves as principal • investigator of a research project focused on improving asthma control. In collaboration with UMMC's Telemedicine Center of Excellence, the study uses remote patient monitoring aimed at improving barriers to appropriate asthma care, including adherence, inhaler technique, and education. Stewart is a past president of the Mississippi Allergy and Asthma Society and just completed her term as President of the Southeastern Allergy, Asthma and Immunology Society.
- The Division provides comprehensive clinical care for patients with allergic and immunebased diseases, both on campus and at the Jackson VA Medical Center. A telemedicinebased remote practice was established recently, which is making it possible for patients to be seen who would not otherwise be able to travel to our clinical facilities.

Dr. Mike Bensler, Jennifer Haselhoff, RN, and Dr. Jimmy Hamilton in the electrophysiology lab

DIVISION OF CARDIOVASCULAR DISEASES

The Division is dedicated to excellence in the diagnosis and treatment of cardiovascular diseases, providing high-quality comprehensive cardiovascular services to the community and state with a continuous commitment to education and research.

HIGHLIGHTS

- UMMC's Structural Heart Program, under the leadership of Kellan Ashley, MD, has received accreditation by the American College of Cardiology as a Transcatheter Valve Center. This accreditation is the first and only of its kind in Mississippi. Ashley's expertise lies in minimally-invasive heart valve procedures, allowing patients to avoid long operations and recovery time.
- UMMC's Advanced Heart Failure and Cardiac Transplant Program offers the only program in the state for advanced therapies for heart failure, including cardiac transplant as well as mechanical circulatory support for extracorporeal membrane oxygenation and ventricular assist device therapy. The program now offers tailored evaluation and management for patients with cancer and heart disease in the new Cardio-Oncology program, led by Brandon Lennep, MD.
- John Winscott, MD directs the Division's Endovascular Cath Lab and its Endovascular Training Program for both interventional cardiology and vascular surgery. He specializes in complex lower extremity revascularization and leads UMMC's multidisciplinary limb salvage program. UMMC is now home to one of the largest cardiac centers in the region that provides endovascular limb salvage, achieving recognition by the American College of Cardiology as a best performer.
- UMMC's Adult Congenital Heart Disease program, under the leadership of William Campbell, MD, offers the state's only program for patients with all forms of congenital heart disease. The program is accredited by the Adult Congenital Heart Association as a Comprehensive Care Center, the only one of its kind in Mississippi.
- Javed Butler, MBBS, MPH, MBA, Professor and Chair of the Department of Medicine is also the Patrick H. Lehan Chair for Cardiovascular Research. He is a leading authority on heart failure and is involved in multiple clinical trials and other national and international initiatives related to heart failure. Butler was identified by Clarivate's Web of Science in 2020 as being in the top one percent of highly cited researchers in clinical medicine.



MICHAEL R. MCMULLAN, MD PROFESSOR AND DIVISION DIRECTO

MYRNA ALEXANDER NICKENS, MD PROFESSOR

KELLAN ASHLEY, MD ASSOCIATE PROFESSOR AND INTERVENTIONAL CARDIOLOGY FELLOWSHIP PROGRAM DIRECTOR

BRYAN BARKSDALE, MD PROFESSOR

JAMES "MICHAEL" BENSLER, MD ASSISTANT PROFESSOR

JAVED BUTLER, MBBS, MPH, MBA PROFESSOR AND CHAIR, DEPARTMENT OF MEDICINE AND PATRICK H. LEHAN CHAIR IN CARDIOVASCULAR RESEARCH

WILLIAM CAMPBELL, MD ASSOCIATE PROFESSOR AND SECTION CHIEF, ADULT CONGENITAL HEART DISEASE

DONALD "TREY" CLARK, III, MD ASSOCIATE PROFESSOR AND CARDIOLOGY FELLOWSHIP PROGRAM DIRECTOR

BRADLEY DEERE, MD ASSISTANT PROFESSOR

ERVIN FOX, MD PROFESSOR AND SECTION CHIEF, IMAGING

MICHAEL HALL, MD, MS ASSOCIATE PROFESSOR AND ASSOCIATE DIVISION DIRECTOR

JAMES HAMILTON, IV, MD ASSISTANT PROFESSOR AND SECTION CHIEF, ELECTROPHYSIOLOGY

GABRIEL A. HERNANDEZ, MD ASSISTANT PROFESSOR

BRANDON LENNEP, MD ASSISTANT PROFESSOR

ROBERT "CRAIG" LONG, MD ASSOCIATE PROFESSOR AND ADVANCED HEART FAILURE FELLOWSHIP PROGRAM DIRECTOR

CHARLES MOORE, MD PROFESSOR AND SECTION CHIEF, HEART FAILURE

LAMPROS PAPADIMITRIOU, MD ASSISTANT PROFESSOR

JAMES "DARYL" POLLARD, MD ASSISTANT PROFESSOR

MEGAN TOOLE, MD ASSISTANT PROFESSOR

KELLY WINGERTER, MD ASSISTANT PROFESSO

JOHN WINSCOTT, MD PROFESSOR

DOUGLAS WOLFE, MD PROFESSOR

VALERIE BRUNT, NP

AMY LEMLY, NP

KIM MILLER, NP

TIFFANY THOMAS, NP

CAMILLE RICHARDS, NP EXECUTIVE DIRECTOR, UNIVERSITY HEART

JOEL SHOWS, MBA, BBA, RN DIVISION BUSINESS ADMINISTRATOR

19

Gastroenterology staff and fellows in the endoscopy suite

DIVISION OF DIGESTIVE DISEASES

The Division of Digestive Diseases is dedicated to advances in clinical and translational science, stateof-the-art clinical care, and the education of future leaders in digestive and liver diseases.

HIGHLIGHTS

- The Division is home to three board-certified hepatologists who work closely with the transplant teams to manage patients before, during, and after their liver transplant. UMMC has performed more than 300 transplants since the program was established in 2013.
- UMMC is the only center in Mississippi that offers EndoFLIP[®] (endoluminal functional lumen imaging probe), a newer, minimally invasive type of technology that can be used during upper endoscopy to measure the dimensions, movement, and pressure inside the esophagus and other organs. This technology is used by our division and in close collaboration with UMMC's Pediatric GI Division.
- The Division employs two experienced and well-trained advanced endoscopists and has the capability to perform advanced biliary direct imaging techniques that allow diagnoses not readily obtained by other methods.
- Sarah Glover, DO, Professor and Division Director, has bolstered the Division's research mission with her distinguished work in hereditary alpha tryptasemia syndrome, inflammatory bowel disease, and COVID-19 and immunity. She is assisted in caring for complicated IBD and short bowel patients by Bobby Owens, PharmD. Her translational science laboratory is run by Tanya Robinson, PhD.



SARAH GLOVER, DO PROFESSOR AND DIVISION DIRECTOR

JOYDEEP CHAKRABORTY, MBBS ASSISTANT PROFESSOR

OLIVIA HENRY, PHD INSTRUCTOR

PEGAH HOSSEINI-CARROLL, MD, MS ASSISTANT PROFESSOR

BOBBY OWENS, PHARMD ASSISTANT PROFESSOR

ELIZABETH PAINE, MD ASSOCIATE PROFESSOR

JAN PETRASEK, MD ASSISTANT PROFESSOR TANYA ROBINSON, PHD ASSISTANT PROFESSOR

DAVID C. SCHAEFER, MD ASSOCIATE PROFESSOR AND FELLOWSHIP PROGRAM DIRECTOR

LAURA SMART, MD ASSISTANT PROFESSOR AND CHIEF, HEPATOLOGY SECTION

SHOU J. TANG, MD PROFESSOR

YILIANYS PRIDE DIVISION BUSINESS ADMINISTRATOR



LILLIAN F. LIEN, MD PROFESSOR AND DIVISION DIRECTOR

LICY YANES CARDOZO, MD ASSOCIATE PROFESSOR

VISHNU GARLA, MD ASSOCIATE PROFESSOR

ANGELA R. SUBAUSTE, MD ASSOCIATE PROFESSOR

JOSE "PEPE" S. SUBAUSTE, MD PROFESSOR AND FELLOWSHIP PROGRAM DIRECTOR

VIRGINIA WRIGHT, MD ASSISTANT PROFESSOR

SHEMINA RANSOM, NP

DEBRA TAYLOR, NP

TERESA CLAYTON DIVISION BUSINESS ADMINISTRATOR

DIVISION OF ENDOCRINOLOGY, METABOLISM, AND DIABETES

The Division of Endocrinology, Metabolism, and Diabetes is committed to excellence and innovation. Our providers deliver state-of-the-art management of diabetes and obesity, thyroid, pituitary, and adrenal disorders, osteoporosis and metabolic bone disease, and all types of subspecialty endocrine disorders.



Dr. Vishnu Garla in clinic with fellows

- UMMC developed the state's first endocrinologist-led subspecialty Diabetes Inpatient Consultation Service, founded by Lillian Lien, MD, Angela Subauste MD, Vishnu Garla, MD, and Shemina Ransom, NP, providing advanced management of patients with type 1, type 2, cystic fibrosis-related, and medicationinduced forms of diabetes mellitus.
- The Division continues to expand subspecialty outpatient services including a Pituitary Disorders Clinic, a Metabolic Bone Diseases Clinic led by Vishnu Garla, MD, and a dedicated Thyroid Ultrasound Clinic offering fine needle aspiration biopsies of thyroid nodules, led by Virginia Wright, MD.
- The UMMC Endocrinology Fellowship Program, led by Pepe Subauste, MD, continues its tradition of excellence, including a 100 percent recruitment rate and a 100 percent pass rate for the American Board of Internal Medicine Certification Exam in Endocrinology, Diabetes, and Metabolism.
- In 2021, Lillian Lien, MD, FACP was awarded the Mississippi ACP (American College of Physicians) Laureate Award, which honors Fellows and Masters of the College who have demonstrated excellence by their example and display a commitment to outstanding medical care, education, or research and in service to their community, and to the ACP.



MICHELLE HORN, MD ASSOCIATE PROFESSOR, DIVISION DIRECTOR

AMANDA CLARK, MD ASSOCIATE PROFESSOR

SAVANNAH DUCKWORTH, MD ASSISTANT PROFESSOR

ELIZABETH FRYOUX, MD ASSISTANT PROFESSOR

D. LYNN HARKINS, MD ASSISTANT PROFESSOR

KIMBERLY HARKINS, MD ASSOCIATE PROFESSOR

ZEB HENSON, MD ASSOCIATE PROFESSOR

JASMINE KENCY, MD ASSISTANT PROFESSOR

JESSIE LAVENDER, MD ASSISTANT PROFESSOR

M. MORGAN MCLEOD, MD ASSISTANT PROFESSOR

LAUREN MCMANUS, MD ASSISTANT PROFESSOR

DEBORAH MINOR, PHARMD PROFESSOR

JARRETT MORGAN, MD ASSISTANT PROFESSOR

JIMMY STEWART, MD PROFESSOR

S. CALVIN THIGPEN, MD ASSOCIATE PROFESSOF

MOHAMMAD I. ULLAH, MD ASSOCIATE PROFESSOR

MARION WOFFORD, MD, MPH PROFESSOR

HA PHAN, PHARMD

KIRSTIN CAUSEY, NP

KELLY LAND, NP

MELISSA STEVENS, NP

CANDICE ADAMS DIVISION BUSINESS ADMINISTRATOR

DIVISION OF GENERAL INTERNAL MEDICINE

The Division of General Internal Medicine is dedicated to improving the lives of adults through excellent patient care, ground-breaking research, and professional education.



Dr. Lauren McManus and NP Kelly Land

- Jimmy Stewart, MD, and Morgan McLeod, MD, serve as regular hosts of weekday radio shows on Mississippi Public Broadcasting (MPB), The Original Southern Remedy and Kids and Teens, respectively. The Original Southern Remedy is MPB's flagship wellness program dedicated to keeping Mississippians healthy, while Kids and Teens is specifically targeted to wellness in the pediatric population. Tune in live or download as a podcast.
- Mohammad I. Ullah, MD is board-certified in both Internal Medicine and Sleep Medicine. In addition to serving as a primary care physician, Ullah conducts evaluations for sleep-related disorders an area in which he is also an active researcher.
- Elizabeth Fryoux, MD and Jarrett Morgan, MD are board-certified in obesity medicine and operate a robust non-surgical weight management clinic.
- Patients with difficult-to-control hypertension are seen in the division's Hypertension Clinic. Faculty members recognized by the American Society of Hypertension as specialists in clinical hypertension are Drs. Kimberly Harkins, Zeb Henson, Jimmy Stewart, and Marion Wofford.
- The Division hosts internal medicine and . medicine-pediatric resident clinics at two locations. Staffed by Division faculty, the clinics include pharmacy consultation by Deborah Minor, PharmD, Professor of Medicine, Ha Phan, PharmD, and rotating pharmacy students.



KIMBERLY C. TARVER, MD ASSISTANT PROFESSOR AND DIVISION DIRECTOR

SCOTT GIBSON, MD ASSISTANT PROFESSOR AND FELLOWSHIP PROGRAM DIRECTOR

ROLA ABI SALEH, MD ASSISTANT PROFESSOR

KATHARINE T. GREGG, MD ASSOCIATE PROFESSOR

CHLOE KILMAN, MD ASSISTANT PROFESSOR

WILLIAM "MARK" M. MEEKS, MD PROFESSOR EMERITUS

THOMAS MOSLEY, PHD ROBBIE AND DUDLEY HUGHES DISTINGUISHED MIND CENTER CHAIR AND DIRECTOR, MIND CENTER

LYSSA WEATHERLY, MD ASSISTANT PROFESSOR

BEVERLY "GWEN" G. WINDHAM, MD PROFESSOR

LYNDSEY DILL, NP

LEIGH SKIPWORTH DIVISION BUSINESS ADMINISTRATOR

DIVISION OF GERIATRICS AND GERONTOLOGY

The Division provides comprehensive health care to older persons throughout Mississippi as well as comprehensive dementia care through the MIND Center, and is dedicated to training future leaders in geriatrics and gerontology.



Dr. Lyssa Weatherly in clinic

- Mark Meeks, MD retired as Division Director after serving for 28 years in this role. Under his leadership, the Division of Geriatrics and Gerontology grew its faculty, created a fellowship program, and expanded both its outreach and research programs. Meeks is highly revered both within the medical center and throughout the state.
- Kim Tarver, MD was tapped to succeed Meeks as Division Director. With more than 20 years as a clinician educator and board certified in both Internal Medicine and Geriatrics, Tarver also serves as Director of Clinical Services for the MIND (Memory Impairment and Neurodegenerative Dementia) Center.
- Gwen Windham, MD was appointed to the Clinical Neuroscience and Neurodegeneration Study Section of NIH's Center for Scientific Review. A prolific author and active researcher, Dr. Windham is Principal Investigator of a study funded by the National Institute for Aging.
- Established and directed by Tom Mosley, PhD, the MIND Center is one of the nation's leading centers of Alzheimer's disease research, diagnosis, and treatment. Mosley continues to serve as Principal Investigator for the long-running ARIC (Atherosclerosis Risk in Communities) Study and the ARIC Neurocognitive Cognitive Study.



STEPHANIE ELKINS, MD PROFESSOR AND DIVISION DIRECTOR

CAROLYN BIGELOW, MD PROFESSOR

BARBARA CRAFT, MD PROFESSOR

ROBERT DARRYL HAMILTON, MD ASSOCIATE PROFESSOR

JOHN "CLARK" HENEGAN, JR., MD ASSOCIATE PROFESSOR

VINCENT HERRIN, MD PROFESSOR AND HEMATOLOGY MALIGNANCY SECTION CHIEF

TALAL HILAL, MD ASSISTANT PROFESSOR

TEREZA HOLMAN, PHD ASSISTANT PROFESSOR

CARTER MILNER, MD ASSOCIATE PROFESSOR

DENNIS MORGAN, MD ASSISTANT PROFESSOR

LOUIS PUNEKY, MD ASSOCIATE PROFESSOR

GRACE SHUMAKER, MD ASSOCIATE PROFESSOR

SHOU-CHING TANG, MD, PHD PROFESSOR

KELLY WILKINSON, MD ASSISTANT PROFESSOR AND FELLOWSHIP PROGRAM DIRECTOR

DANA DELASKI, NP

JANET JOLLY, NP

APRIL LEE, NP

BREANNA TERRELL DIVISION BUSINESS ADMINISTRATOR

DIVISION OF HEMATOLOGY **AND ONCOLOGY**

The Division of Hematology and Oncology is dedicated to developing the next generation of academic investigators and practitioners and providing evidence-based, compassionate care to our patients.



Dr. Kelly Wilkinson evaluates a patient in clinic

- As members of the UMMC Cancer Center and Research Institute, our physicians see approximately 2,000 new patients each year and closely follow around 6,700 patients at any one time.
- Carter Milner, MD recently assumed leadership of the Division's bone marrow transplant program. She was also responsible for securing approval for our new Chimeric Antigen Receptor (CAR) T-cell therapy program. UMMC hosts the only bone marrow transplant and CAR T-cell programs in Mississippi.
- Talal Hilal, MD serves as Transplant Section • Editor for HemOnc.org, the largest, freely available medical wiki of interventions, regimens, and general information relevant to the fields of hematology and oncology.
- Although the COVID-19 pandemic forced the Division to temporarily close its clinical trials program, we recently resumed our program with 13 cooperative group studies and five industry-sponsored studies. Enrollment is now underway for our most recent Phase One clinical trial, directed by Shou-Ching Tang, MD, PhD and funded by Parexel International, LLC.

DIVISION OF HOSPITAL MEDICINE

The Division of Hospital Medicine is dedicated to excellence in delivering collaborative, compassionate, and comprehensive care to high-complexity patients and their families and by shaping the next generation of medical professionals through mentorship and education.

HIGHLIGHTS

- During the first several months of the COVID-19 pandemic, the Division of Hospital Medicine cared for all non-ICU inpatients at UMMC with the novel virus. The exceedingly high census of patients seen by the division during this time was unprecedented.
- The Division recently initiated UMMC's Procedure Service and performed more than 120 procedures in its first three months. This team is composed of Hospital Medicine faculty members and is able to perform paracenteses, lumbar punctures, central venous access, temporary hemodialysis catheter access, and arthrocentesis to any inpatient at UMMC.
- Rahat Noor, MD serves as an associate program director for the internal medicine residency program. In this role, he is a co-director of the quality improvement (QI) curriculum, which includes didactics about patient safety and QI as well as a yearly QI project by each resident.
- Fred Asher, MD and Seema McKenzie, MD serve as two of nine Physician Advisors for the UMMC health system. In this role, they work to enhance care coordination by working alongside social workers, nurse case managers, utilization review nurses, and caregivers to maximize value in quality of care.



FREDERICK ASHER, MD ASSOCIATE PROFESSOR AND DIVISION DIRECTOR

ANUM AKHLAQ, MBBS ASSISTANT PROFESSOR

HARSHESH AMIN, MD ASSISTANT PROFESSOR

PRADEEP BATHINA, MD ASSISTANT PROFESSOR

JOSH BUTLER, DO ASSISTANT PROFESSOR

WILLIAM CREWS, MD ASSISTANT PROFESSO

ELIZABETH FRYOUX, MD ASSISTANT PROFESSOR

MARIA FERMIN GUTIERREZ, MD ASSISTANT PROFESSOR

JOSHUA "BRETT" JETER, MD ASSISTANT PROFESSOR

KATRINA JOHNSON, MD ASSISTANT PROFESSOR

ZACHARY KNOTT, MD ASSISTANT PROFESSOR

LANCE MAJORS, MD ASSISTANT PROFESSO

RACHANA MARATHI, MD ASSISTANT PROFESSOR

SEEMA MCKENZIE, MD ASSISTANT PROFESSOR

JARRETT MORGAN, MD ASSISTANT PROFESSOR

SIVA NALLURI, MD ASSISTANT PROFESSOR

RAHAT NOOR, MD ASSOCIATE PROFESSOR

DAVID RIEM, MD ASSISTANT PROFESSOR SYED ALI TIRMIZI, MD ASSISTANT PROFESSOF

YOUSAF ZAFAR. MD ASSISTANT PROFESSOR

JENNIFER FOREMAN, NP

NICKI RELAN LAWSON, NP

JONATHAN PARKE, PA

MEGHAN SEYMOUR, PA

JESSICA TUCKER, NP

ELLIE HALES DIVISION BUSINESS ADMINISTRATOR

DIVISION OF INFECTIOUS DISEASES

The Division of Infectious Diseases is composed of a diverse group of dedicated faculty who excel in patient care, education, and research, and are aligned in their mission of addressing health disparities and the healthcare needs of vulnerable populations.

HIGHLIGHTS

- The Division of Infectious Diseases hosts the most consulted inpatient program at UMMC, which includes two teams of general ID specialists, a COVID-19 ID service, and a transplant ID service.
- Under the direction of Ben Brock, MD, MSCI, the Adult Special Care Clinic, Mississippi's largest Ryan White-funded clinic, provides comprehensive services for more than 2,100 patients living with HIV with quality metrics for HIV care exceeding regional and national averages.
- The Infectious Diseases Division operates two additional unique ventures that join public health, healthcare, and research:
 - 1. Express Personal Health, which merges private industry and public health funding in an academic setting to explore novel prevention, linkage, and care delivery methods for patients at risk for sexually transmitted diseases, HIV, and chronic viral hepatitis; and
 - CIRCLE (an acronym for Collaborative for Innovation, Research, and Clinical Engagement), which houses several ID clinical trials, including the NIH-funded Multicenter AIDS Cohort Study (MACS)/Women's Interagency HIV Study (WHS) Combined Cohort Study.
- Under the leadership of Jason Parham, MD, MPH, UMMC's Antimicrobial Stewardship Program was awarded Center of Excellence status by the Infectious Diseases Society of America for its comprehensive services engaging all areas of antimicrobial use, always under the guiding principles of pursuing best clinical practice and patient safety.



A JASON PARHAM, MD, MPH PROFESSOR AND DIVISION DIRECTOR

SVENJA ALBRECHT, MD, MPH ASSOCIATE PROFESSOR

KAMIR BOODOO, MBBS ASSISTANT PROFESSOR

JAMES B. BROCK, MD, MSCI ASSOCIATE PROFESSOR

MARY JANE BURTON, MD ASSOCIATE PROFESSOR

LUIS SHIMOSE CUIDAD, MD ASSISTANT PROFESSOR

ZERELDA ESQUER GARRIGOS, MD ASSISTANT PROFESSOR	RISA PROFES
TULIP JHAVERI, MBBS ASSISTANT PROFESSOR	DAVIE
DEBORAH KONKLE-PARKER, PHD, NP	KAYL
BHAGYASHRI NAVALKELE, MBBS ASSISTANT PROFESSOR	MARY
	TAMIK
MARIA BUENO RIOS, MD ASSISTANT PROFESSOR	COLL
PRAKHAR VIJAYVARGIYA, MBBS ASSISTANT PROFESSOR	JENN
	DENIS

32 DEPARTMENT OF MEDICINE IMPACT REPORT

RISA WEBB, MD PROFESSOR DAVID CRETELLA, PHARMD KAYLA STOVER, PHARMD MARY JOYCE WINGLER, PHARMD TAMIKA BROOME-LEWIS, NP COLLEEN CANNON, NP JENNA GADDY, NP DENISE HENDERSON, NP AUBRI HICKMAN, DNP HEATHER KING, NP CACHÉ LONGMIRE, NP BRAD NOBLE, NP COURTNEY SANDERS, NP HOLLY WALKER, NP CHRISTY TAYLOR DIVISION ADMINISTRATOR



TARIQ SHAFI, MBBS, MHS PROFESSOR AND JOHN D. BOWER DIVISION DIRECTOR

NEVILLE R. DOSSABHOY, MD PROFESSOR, CLINICAL DIRECTOR, AND FELLOWSHIP PROGRAM DIRECTOR

MOHAMMAD ATARI, MD ASSISTANT PROFESSOR

MOHAMED HASSANEIN, MD ASSISTANT PROFESSOR

JUAN MEDAURA, MD ASSISTANT PROFESSOR

YOSHITSUGU OBI, MD, PHD ASSISTANT PROFESSOR

BUSHRA SYED, MD ASSISTANT PROFESSOR

MARIA CLARISSA TIO, MD, MPH ASSISTANT PROFESSOR

PRADEEP VAITLA, MD ASSOCIATE PROFESSOR

CATHERINE WELLS, DNP ASSISTANT PROFESSOR

ABBY JOBE, NP

RONEQUA EVANS, NP

ERYN TONEY DIVISION BUSINESS ADMINISTRATOR

DIVISION OF NEPHROLOGY

The Division of Nephrology is dedicated to advancing our knowledge of a wide range of complex kidney diseases and kidney transplants, training the next generation of nephrologist clinicians and leaders, and providing compassionate, pioneering, advanced care for our patients.



Drs. Pradeep Vaitla and Clarissa Tio in the dialysis unit

- Tariq Shafi, MBBS, MHS joined the UMMC faculty in 2018 as Director of the Nephrology Division. An active researcher and prolific author, Shafi is a member of NIH's Health Services Quality and Effectiveness Study Section and two editorial boards: *Clinical Journal of the American Society of Nephrology* and the *American Journal of Kidney Diseases*. In 2020, Shafi was elected a Fellow of the Southern Society of Clinical Investigation. He was also the recipient of the 2020 UMMC Herbert G. Langford Research Mentor Award. He is the principal investigator or co-investigator for five NIH-funded R01s focusing on patients with advanced kidney disease.
- UMMC hosts the state's only kidney transplant center, and the Division evaluates approximately 600 patients each year for kidney transplants and manages about 1,100 transplant recipients in its outpatient clinics. Pradeep Vaitla, MD serves as Medical Director for UMMC's Kidney and Pancreas Transplantation Programs.
- UMMC's Nephrology Fellowship program is the major pipeline for training nephrologists in Mississippi. Neville Dossabhoy, MD, Fellowship Program Director, has revitalized the fellowship program and increased interest in nephrology at UMMC.
- The Population Health, Research, and Innovation for Specialized Management of Kidney Diseases (PRISM-Kidney) program provides state-of-the-art care to patients with kidney disease in Mississippi. As part of this program, the Division is now offering non-radioactive glomerular filtration function (GFR) measurement for persons considering kidney donation. The procedure is included in the living donor transplant evaluation visit. Other PRISM-Kidney activities include a nephrology population health registry, continuous glucose monitoring for dialysis patients with diabetes, home blood pressure monitoring (in conjunction with UMMC's Telehealth Center) for dialysis patients, 24-hour ambulatory blood pressure monitoring, a clinical trial of nocturnal hemodialysis, and an advanced kidney disease education program designed to reduce disparities in living kidney donation. Programs in the final phases of development include two clinical trials focusing on genetic causes and treatment of kidney diseases.



ANDREW "ANDY" M. WILHELM, DO ASSOCIATE PROFESSOR AND DIVISION DIRECTOR

SAURABH CHANDRA, MBBS, PHD ASSOCIATE PROFESSOR AND UMMC CHIEF TELEHEALTH OFFICER

DEMONDES HAYNES, MD PROFESSOR AND VICE CHAIR FOR CLINICAL AFFAIRS

GEORGE "TREY" E. ABRAHAM, III, MD PROFESSOR, INTERVENTIONAL PULMONOLOGY

RAJESH BHAGAT, MD PROFESSOR

LEKHA SUNKARA DEERE, MD ASSISTANT PROFESSOR

SHARON DOUGLAS, MD PROFESSOR AND ASSOCIATE DEAN FOR COORDINATION OF VA EDUCATION

YANGLIN GUO, MD ASSISTANT PROFESSOR

JESSIE HARVEY, MD ASSISTANT PROFESSOR, FELLOWSHIP PROGRAM DIRECTOR, AND MEDICAL ICU DIRECTOR

MICHAL SENITKO, MD ASSISTANT PROFESSOR AND CHIEF, INTERVENTIONAL PULMONOLOGY SECTION

JOHN R. SPURZEM, MD, MSPH PROFESSOR

RICHARD E. WELLS, MD ASSISTANT PROFESSOR

JAMES WILLIAMS, MD AFFILIATE PROFESSOR, VA

MONIQUE BRELAND, NP BAILEY BURKES, NP COLEMAN FARR, NP JONATHAN HONTZAS, NP SHANNON MOFFETT, NP SHANNON RIVES, NP NATHAN STONE, NP EMILEY WELKER, NP

ELLIE HALES DIVISION BUSINESS ADMINISTRATOR

DIVISION OF PULMONARY, CRITICAL CARE, & SLEEP MEDICINE

The Division provides state-of-the-art pulmonary and critical care and is dedicated to research and training future leaders in pulmonary and critical care medicine.



Drs. James Williams, Trey Abraham, and Michal Senitko in the bronchoscopy suite

- Division faculty members and 12 pulmonary/ critical care fellows care for approximately 2,000 ICU patients per year. The Division works closely with the Mississippi Critical Care Organization to provide advanced critical care services such as extracorporeal membrane oxygenation, critical care obstetrics, and a Pulmonary Embolus Response Team.
- The Division's Interventional Pulmonology Section, headed by Michal Senitko, MD, offers advanced minimally invasive diagnostic and therapeutic approaches to various diseases of the trachea, lung, and pleural space.
- John Spurzem, MD, MSPH serves as Director of the Adult Cystic Fibrosis Center. His research includes several clinical trials funded by both industry and the National Cystic Fibrosis Foundation. Together with Joseph Majure, MD, a pediatric pulmonary specialist at UMMC, Spurzem received the Cystic Fibrosis Foundation's 2020 Quality Care Award in recognition of "outstanding QI processes and accomplishments."
- The Division created a Post-ICU Recovery Clinic to accommodate patients recovering from COVID-19. This clinic is a member of the Critical and Acute Illness Recovery Organization global network and one of only 17 similar clinics across the U.S. It has since been expanded to include all non-COVID ICU recovery patients as well.



VIKAS MAJITHIA, MBBS, MPH PROFESSOR, DIVISION DIRECTOR, AND FELLOWSHIP PROGRAM DIRECTOR

CATHY P. LEE CHING, MD ASSISTANT PROFESSOR

DAY LENNEP, MD ASSISTANT PROFESSOR

TERESA CLAYTON DIVISION BUSINESS ADMINISTRATOR

DIVISION OF RHEUMATOLOGY **AND MOLECULAR IMMUNOLOGY**

The Division is committed to improving our understanding of the nature and treatment of rheumatic disease and dedicated to training future leaders in rheumatology and molecular immunology.



Dr. Vikas Majithia teaching fellows in clinic



- Vikas Majithia, MBBS, MPH has an active research portfolio, including several industry-sponsored clinical trials and two sponsored through the Patient-Centered Outcomes Research Institute. In addition to serving as Division Director, Majithia chairs the Department of Medicine's Promotion and Tenure Committee and is Vice Chair of Faculty Development for the Department of Medicine.
- The Division's Metabolic Bone and Osteoporosis Program provides osteoporosis care to Mississippians by supporting bone density measurement using DXA scans and administering as well as maintaining a robust service of injectable agents.
- The Division's Lupus Clinic provides care to more than 200 patients of Systemic Lupus Erythematosus, managing this complex illness in collaboration with other specialties in the institution.
- More than 60 percent of rheumatologists currently practicing in Mississippi were trained in the Division's fellowship program. Together, they formed the Mississippi Arthritis and Rheumatism Society, which meets annually to share the latest research and clinical information.



ZEB **HENSON APPOINTED ASSOCIATE CHIEF OF STAFF**

Zeb Henson, MD was recently appointed UMMC's Associate Chief of Staff. A Mississippi State University graduate, Dr. Henson received his medical degree and his postgraduate training in Internal Medicine and Pediatrics at UMMC, where he also served as Chief Resident in Internal Medicine. He joined the UMMC faculty in 2009 and is now Associate Professor of Medicine and Internal Medicine/Pediatrics Residency Program Director. He also serves as Course Co-Director for "Introduction to the Medical Profession 2" and for the M3 Medicine Clerkship.

As a clinician, teacher, and mentor, Henson is respected, inspirational, well-rounded, and perfectly suited for this role. In addition to board certifications in both internal medicine and pediatrics, he also received certification in hypertension by the American Society of Hypertension. His accolades related to teaching and mentoring are numerous and include Clinical Professor of the Year, Pre-clinical Professor of the Year, AOA Faculty Teacher of the Year, Department of Medicine Teacher of the Year, and was inducted into the Evers Society Hall of Fame and Norman C. Nelson Order. He has also served on various institutional committees and task forces, including the Healthcare Compliance Management Committee, Pharmacy and Therapeutics Committee, Executive Committee, and the Documentation Standards and Architecture Committee, for which he serves as Co-Chair.

Henson joins Kirk Reid, MD, Medical Chief of Staff, and the rest of the Chief Medical Officer (CMO) leadership team in his new role. The CMO leadership team, led by Michael Henderson, MD, oversees the infrastructure for quality improvement at UMMC.

ALEXANDER NICKENS **NAMED VICE CHAIR** FOR DIVERSITY **AND INCLUSION**

Myrna Alexander Nickens, MD, Professor of Medicine, was named the Department of Medicine Vice Chair for Diversity and Inclusion in 2019. Mississippi's first female interventional cardiologist, Nickens has been on faculty at UMMC since 2012. Her current clinical interest lies in cardio-obstetrics focusing on high-risk cardiovascular disorders during pregnancy. She serves as President of the Women in Cardiology section of the American College of Cardiology. In her role as Vice Chair, Nickens formed a Diversity, Equity, and Inclusion (DEI) Committee, which aims to foster and support a work community that allows all people to thrive and prosper.

Committee members include Monica Watkins and Drs. Amanda Clark, Jessie Harvey, Rahat Noor, Elizabeth Paine, Calvin Thigpen, Richard Wells, and Charletta Wright.

The University of Mississippi Medical Center was selected as one of six teams to participate in the AAMC pilot program Applying Holistic Principles to Faculty Recruitment and Retention. This program is based upon work that was conducted at Baylor College of Medicine, and is designed to identify effective strategies to both increase faculty diversity and to increase recruitment of faculty from groups that are historically underrepresented in medicine.

"I'm really excited about the work we are doing throughout the department and campus, which is exemplified through the initiatives of the DEI Committee and the Medical Center's enthusiastic embrace of the AAMC pilot program," said Nickens.



TELEHEALTH CENTER OF EXCELLENCE RECEIVES NEW ROUND OF FUNDING

Originally named one of only two Telehealth Centers of Excellence in the U.S. in 2017, the Health Resources and Services Administration approved continuing its designation for an additional five years, starting September 30, 2021, with funding of slightly more than \$16 million.



SAURABH CHANDRA, MBBS, PHD, UMMC's Chief Telehealth Officer and an associate professor in the Division of Pulmonary, Critical Care, and Sleep Medicine, noted, "Being named a Telehealth Center of Excellence is an incredibly prestigious designation. We will work to be deserving of this honor by thinking strategically about how to implement innovative telehealth programs and provide telehealth services throughout Mississippi and beyond."

Chandra summarized the mission of the UMMC Telehealth Center of Excellence (COE), saying that it was threefold. "We want to (1) serve as a platform for the development of innovative telehealth applications, (2) assess the efficacy and economy of telehealth services in the improvement of healthcare in underserved and rural populations, and (3) share expertise and resources to assist others in the effective integration of telehealth practices into rural healthcare delivery."

Several UMMC Telehealth COE programs have met with great success. DONALD "TREY" CLARK, III, MD, Associate Professor of Medicine in the Department of Medicine's Division of Cardiovascular Diseases, leads the Telehealth Center's Remote Patient Monitoring Program



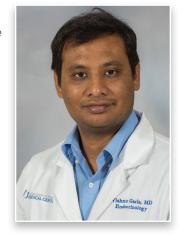
Remote patient monitoring uses digital technologies to collect medical and other forms of health data from individuals in one location and electronically transmit that information securely to healthcare providers in a different location for assessment and recommendations.

"Access to specialty care is often limited, especially to those living in rural areas," said Clark. Remote patient monitoring is a powerful tool in helping to address access to care issues, especially for chronic diseases such as diabetes and hypertension.'

Clark's article, "Digital Informed Consent in a Rural and Low-Income Population," which was published in JAMA Cardiology in June 2020, received special recognition for being rated in the 91st percentile for impact. Another article by Clark and colleagues demonstrating the effectiveness of remote patient monitoring, "Home Blood Pressure Telemonitoring with Remote Hypertension Management in a Rural and Low-Income Population," will be appearing in the journal, Hypertension.

VISHNU GARLA, MD,

Associate Professor of Medicine in the Department of Medicine's Division of Endocrinology, Metabolism, and Diabetes, is working with members of the Telehealth's Center to treat patients with diabetes. Mississippi consistently has among the highest rates of diabetes (14.3%) and prediabetes (36.5%) nationally.



"Mississippians face several barriers for diabetes management," said Garla. "They often have to travel two to three hours to see a doctor, and that's often not feasible for them. The Telehealth Center's Diabetes Management Program provides patients with access to education so they can better manage their disease," he said.

With continued designation as a Telehealth COE, plans are underway for several new initiatives, according to Chandra. One initiative is to address the long-term health consequences of COVID-19 through telehealth. Often referred to as "Long Covid," this initiative will be led by ANDY WILHELM, **MD**, Director of the Department of Medicine's Division of Pulmonary,



Critical Care, and Sleep Medicine. The project team, which includes several faculty members from the Department of Medicine, will follow 300 COVID-19 patients discharged from University Hospital for one year. At the end of one year, clinical and economic outcomes will be assessed and analyzed.



KIM TARVER, MD, Director of the Department of Medicine's Division of Geriatrics and Gerontology, will expand the breadth and reach of a telehealth training program for caregivers of patients with Alzheimer's disease and related dementias (ADRD). In 2020 alone, more than 11 million caregivers of people with Alzheimer's or other

dementias provided an estimated 15.3 billion hours of unpaid care, a contribution to the nation valued at \$257 billion.

Caregiver University comprises a series of 18 educational sessions. Training is delivered over a two-week period in both live/virtual and on-demand video formats on topics ranging from diagnosis and treatment; the disease process; communication, behavior, and medication management; hands-on care delivery; community resources; legal and financial management; managing caregiver stress; and end-of-life considerations.

"We have found," said Tarver, "that completion of this course improves the quality of in-home care delivery for individuals battling ADRD, and reduces caregiver stress and associated health risks.

"The number of patients in Mississippi with Alzheimer's disease is expected to increase by 14 percent between now and 2025," Tarver continued, "so the value of offering this course only increases over time."



Chandra also noted that the Telehealth Center's Remote Patient Monitoring Program will be utilized for management of several chronic diseases, including COPD, congestive heart failure, adult asthma, gestational diabetes, and hypertension in chronic kidney disease. TARIQ SHAFI, MBBS, MHA, Director of the Department

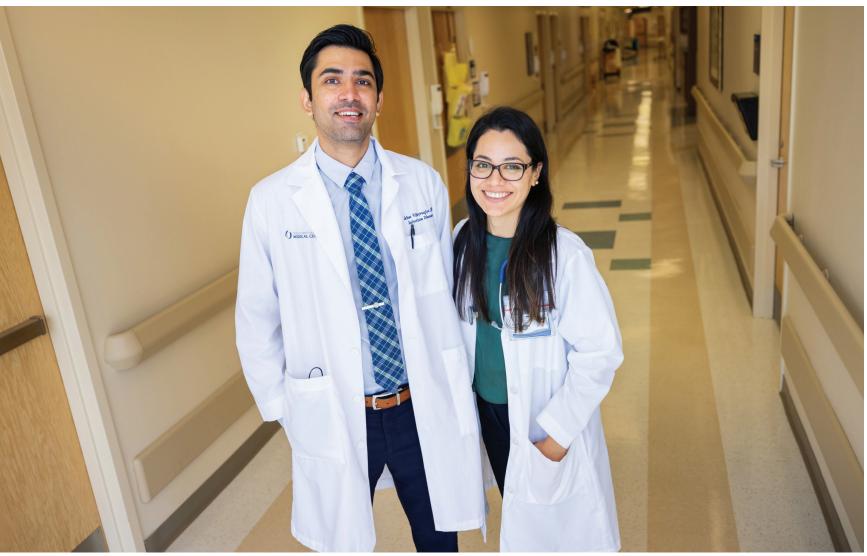


of Medicine's Nephrology Division, will lead efforts for the initiative addressing hypertension in chronic kidney disease.

After earning his medical degree from Dow Medical College in Karachi, Pakistan, Shafi completed his residency at Wayne State University in Detroit and a nephrology fellowship at Johns Hopkins Hospital. He is an NIH-funded clinicianscientist with a research focus on cardiovascular risk factors and outcomes in patients with kidney disease treated with dialysis. Shafi is also a member of the NIH Health Services Quality and Effectiveness Study Section and serves on the editorial boards of the Clinical Journal of the American Society of Nephrology, the American Journal of Kidney Diseases, and Kidney360.

Shafi's telehealth initiative has built a program for remote home blood pressure monitoring for patients with chronic kidney disease including those treated with dialysis. The program expects to provide home blood pressure monitoring to about 50 patients over the course of one year. This population health approach to blood pressure monitoring will be seamlessly integrated into the flow of clinical care with regular reports integrated to the Epic electronic medical record. The project will evaluate the feasibility of broader expansion of blood pressure monitoring in this patient population and also assess clinical outcomes, cost effectiveness, patient satisfaction, and provider satisfaction.

Shafi's clinical research programs also include biomarker studies using large specimen banks to understand the mechanisms of symptoms experienced by patients with kidney failure, a study to understand the cardiac arrhythmias contributing to sudden death in patients on dialysis, and a recently funded collaborative trial (with Duke University) designed to improve living kidney transplantation before dialysis initiation and reduce disparities in this area.



Drs. Vijayvargiya and Garrigos

HUSBAND-AND-WIFE TEAM ESTABLISH UMMC'S TRANSPLANT INFECTIOUS DISEASES PROGRAM

Zerelda Esquer Garrigos, MD and Prakhar Vijayvargiya, MBBS recently joined the faculty in the Department of Medicine's Division of Infectious Diseases with a specific charge: establish UMMC's Transplant Infectious Diseases Program. Their paths to Mississippi were both circuitous in nature and international in scope.

Garrigos was raised in Mexico and earned her MD from the Universidad Autonoma De San Luis Potosi Facultad De Medicina in 2010. She completed her residency at Albert Einstein College of Medicine in New York and a fellowship in general infectious diseases and transplant infectious diseases at Mayo Clinic in Rochester.

Vijayvargiya was raised in Pachore, India and earned his MBBS degree from Grant Medical College in Mumbai. He completed his residency at the University of Miami Palm Beach Campus and a fellowship in general infectious diseases and transplant infectious diseases at Mayo Clinic in Rochester—where he and Garrigos met.

Their interests and expertise in transplant infectious diseases aligned with the planned initiatives of UMMC's administration, including Jason Parham, MD, Director of the Division of Infectious Diseases. "Recruiting faculty to start a comprehensive transplant ID program has been on my wish list for a while," said Parham. "It was clear from our first interview that Drs. Garrigos and Vijayvargiya were two exceptionally well-trained and motivated physicians, and that they were the right team to build this program."

HIV-positive patients frequently experience organ failure and, historically, they were not seen as good candidates for kidney transplants. Over time, however, HIV-positive transplantation surgery was found to be safe and effective.

Mississippi has a relatively large population of residents who are infected with HIV: it has the nation's 8th highest rate of HIV diagnoses among all adults and the 6th highest rate of AIDS diagnoses. UMMC's Adult Special Care Clinic, which specializes in HIV care provided through the Division of Infectious Diseases, serves more than 2,100 patients.

With the arrival of Garrigos and Vijayvargiya, Mississippians with HIV who also have kidney failure will no longer need to travel out of state to get a kidney transplant. They will work closely with UMMC's transplant team to manage the care of their transplant patients.

Garrigos and Vijayvargiya are specifically trained to monitor drug therapy for patients living with HIV and manage any infections they might have before and after the transplant surgery. "We make sure that each patient's immune system will tolerate the antirejection drug therapy they would receive after a transplant," said Garrigos. "We perform a thorough evaluation of patients' previous infections and evaluate their risk."

Vijayvargiya is pleased with the journey that led him and Garrigos to UMMC to establish the Transplant Infectious Diseases Program. "It's a unique opportunity to start something from scratch, and to design a program the way we want it to be," he said. "We really like the transplant team, and the ID team here is incredibly supportive."

UMMC ACCREDITED AS ADULT CONGENITAL HEART DISEASE COMPREHENSIVE CARE CENTER



Dr. Michael McMullan in clinic

UMMC received accreditation from the Adult Congenital Heart Association as one of only 40 Comprehensive Care Centers in the nation.

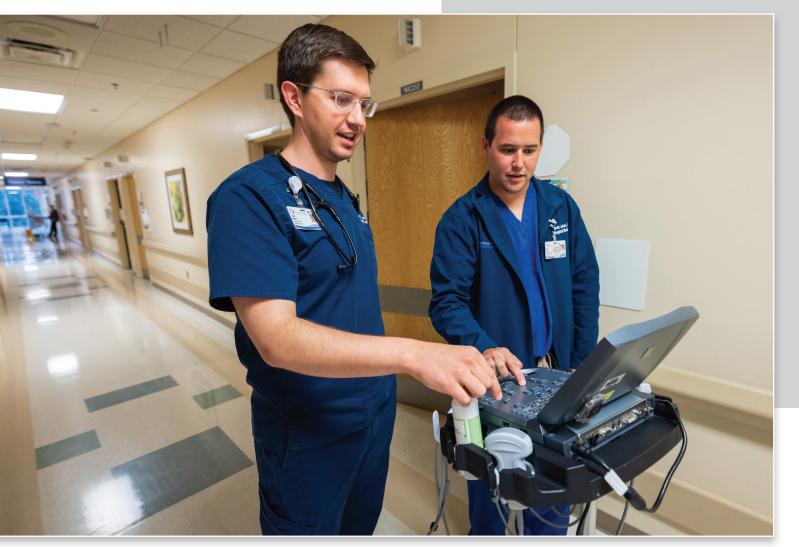
Requirements for certification are stringent. Comprehensive Care Centers must include on their staff a minimum of two adult congenital heart disease (ACHD)-certified cardiologists, boardcertified or board-eligible in either pediatric or internal medicine cardiology. They also must have a cardiothoracic surgery and cardiothoracic intensive care unit led by an ACHD-certified surgical director who is board-certified as a congenital heart surgeon by the American Board of Thoracic Surgery.

Other requirements include having access to heart failure and heart transplant programs; offering interventional cardiac catheterization and interventional electrophysiology; and offering inpatient, outpatient and transitional services, patient-centered care and psychology and social work services.

Comprehensive Care Centers also must offer cardiac MRI, cardiac computed tomography, pulmonary arterial hypertension services, exercise testing and cardiac rehabilitation, and reproductive services.

Congenital heart disease is the most common birth defect in the U.S. and is diagnosed in close to one percent of all births-about 40,000 per year. The Centers for Disease Control and Prevention estimates that approximately 2.4 million children and adults in the U.S. are living with congenital heart disease.

Drs. Lance Majors and Brett Jeter are two of the physicians that staff the Procedure Service



HOSPITAL MEDICINE'S PROCEDURE SERVICE FILLS A NEED ACROSS CAMPUS

The Procedure Service was started in 2019 with four Hospital Medicine faculty and 1-2 rotating internal medicine residents. In its first three months, more than 120 procedures were performed in the hospital. Lance Majors, MD, Assistant Professor, serves as Director; Pradeep Bathina, MD, Brett Jeter, MD and Zack Knott, MD also staff the service. The goals of the service are to provide excellence in patient safety and quality of inpatient procedures, improve patient care by streamlining procedure availability, and decrease unnecessary length of stay from delayed procedures for hospitalized patients. In a review of length-of-stay data related to procedure team interventions, the average hospital length of stay for a patient was 10.5 days for a paracentesis and 24 days for a lumbar puncture when performed by the Procedure Team compared to 20.3 days for a paracentesis and 27.5 days for a LP when performed by other hospital services.

The service is available from Monday-Friday 8:00 AM until 5:00 PM to any hospitalized patient. Procedures performed include paracentesis, lumbar puncture, central venous access, temporary hemodialysis catheters, and arthrocentesis.



UMMC RECEIVES ACCREDITATION FOR TRANSCATHETER AORTIC VALVE REPLACEMENT PROGRAM

Kellan Ashley, MD, Associate Professor in the Department of Medicine's Division of Cardiovascular Diseases, reported that UMMC recently received accreditation from the American College of Cardiology for its Transcatheter Aortic Valve Replacement (TAVR) Program.

Patients who have severe, symptomatic aortic stenosis and wish to avoid traditional open heart surgery might be candidates for TAVR. TAVR is a less invasive procedure that typically allows a new valve to be inserted into the diseased aortic valve through a catheter placed in the groin. It is less complicated than open heart surgery and is especially suitable for older patients with chronic diseases.

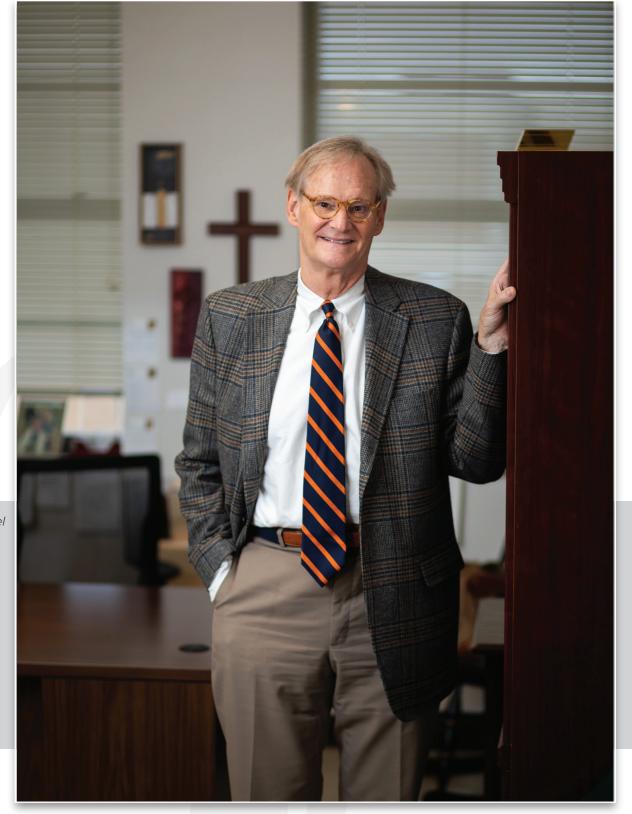
Ashley, who directs UMMC's Structural Heart Program, works with a dedicated TAVR team consisting of cardiologists, cardiothoracic surgeons, echocardiographers,

Dr. Kellan Ashley in clinic

anesthesiologists, nurse practitioners, nurse coordinators and members of the surgical and cardiac catheterization lab staff.

"We enjoy a high level of collaboration among the TAVR team," said Ashley. "As a result," she continued, "We keep improving our procedures and the experiences of our patients. When we first started doing TAVR several years ago, patients went to the ICU and had several days' stay in the hospital. It was better than open heart surgery, but today we take a minimalist approach. Patients generally can go home one day after the procedure."

Ashley, an interventional cardiologist, earned her medical degree and completed her residency at UMMC. She then went to Cleveland Clinic Foundation where she completed a fellowship in cardiovascular medicine and an advanced fellowship in interventional cardiology. She joined the faculty at UMMC in 2018.



Dr. Keith Mansel

PALLIATIVE AND SUPPORTIVE CARE SERVICES BRING HEALING TO UMMC PATIENTS

November is National Hospice and Palliative Care Month. The purpose of the Senate's 2021 bipartisan resolution, endorsed by the National Hospice and Palliative Care Organization, is to honor the work and dedication of long-term and palliative care providers and the critical services they provide to families and their loved ones facing serious illnesses.

Each year, according to the World Health Organization, an estimated 40 million people are in need of palliative care, but only about 14 percent of them receive it.

The Department of Medicine established its Adult Palliative and Supportive Care Service Line in 2016. Headed by J. Keith Mansel, MD, Professor of Medicine, the service line currently operates an inpatient consult service and is most frequently asked to help with goals of care, facilitating family meetings, and guiding patients with decisions surrounding serious illness.

Mansel, a pulmonary and critical care physician, decided to return to training at the age of 58 for a palliative care



fellowship at Mayo Clinic, where he originally trained after completing medical school at UMMC. Afterwards, he remained on staff for four years before being recruited to his home state of Mississippi to lead the Palliative and Supportive Care Service Line. "At age 63, I had to consider if I wanted to start something new," he said. "But my wife and I love Mississippi, and it's a chance to give something back."

Mansel is the director of the fellowship program in Hospice and Palliative Medicine. The one-year training program provides inter-professional learning opportunities, clinical experience, didactic instruction, and intensive communication skills training and practice. Four fellows have trained in the program since 2018.

Working side-by-side with Mansel are Brooke Banks, NP and Carole Ward, RN. Ward, who has worked with Mansel for more than five years, said, "I enjoy working with this team to help our patients and families better understand their illness and make wise decisions."



Drs. Craig Long and Brandon Lennep in clinic

BRANDON LENNEP DIRECTING UMMC'S CARDIO-ONCOLOGY CLINIC

Brandon Lennep, MD, Assistant Professor in the Department of Medicine's Division of Cardiovascular Diseases, has been named to direct UMMC's Cardio-Oncology Clinic, located within the Cancer Center and Research Institute at its Jackson Medical Mall outpatient facilities.

Developments in cancer treatment and care have dramatically improved survival for cancer patients, allowing them to live longer, fuller lives. However, just as these treatments can damage and kill cancer cells, they can also damage other parts of the body, including the heart. Cardio-oncology is an emerging field in cardiovascular medicine, developed in response to the growing need for clinicians with expertise in both cancer and cardiology.

Cardio-oncology focuses on the detection, monitoring, and treatment of cardiovascular disease occurring as a side effect of chemotherapy and radiotherapy. Both cancer treatment modalities can cause cardiac dysfunction, a major cause of morbidity and mortality in the oncologic population.

Lennep completed two fellowships at UMMC: one in cardiovascular diseases, and another in advanced heart failure and transplant cardiology. He also spent additional training time in cardio-oncology clinic at Washington University School of Medicine in St. Louis.

"I've been very pleased with the recent growth of our clinic," said Lennep. "The collaboration between our Cardiology and Hematology/Oncology divisions

allows us to deliver high-quality cardiovascular care in a setting that promotes open communication among doctors and reduces stress on a heavily-burdened patient population."

Stephanie Elkins, MD, Director of the Department of Medicine's Division of Hematology and Oncology, agrees. "We are delighted to have this service to offer to our patients," she said. "It allows us to evaluate and intervene, hopefully, before any cardiac toxicity can occur from our medications."

Lennep is gratified by the strides being made in the cardio-oncology clinic. "It's been rewarding to see our patients with heart disease receiving the best possible cancer treatments, and even more rewarding to hear those patients express their thanks for what we are doing," he said. Dr. Michal Senitko in the bronchoscopy suite

INTERVENTIONAL PULMONOLOGY OFFERS MINIMALLY INVASIVE PROCEDURES FOR BOTH DIAGNOSIS AND TREATMENT



Michal Senitko, MD, Assistant Professor of Medicine and Surgery and Chief of the Department of Medicine's Interventional Pulmonology (IP) Section, is building a team that focuses on minimally invasive diagnostic and treatment methods for patients with lung disease. He is serving as the Section's inaugural chief with a team that includes George E. "Trey" Abraham III, MD, Professor of Medicine; advanced bronchoscopist Yang Guo, MD, Codirector of UMMC's Lung Cancer Program; Jonathan Hontzas, NP; and Carol R. Bartley, RN.

Senitko first performed an endoscopic lung volume reduction procedure in September 2020, the first in the state since FDA approval in 2018. Lung volume reduction is one of a growing number of novel procedures performed by Senitko and his team. They also are using a novel approach to the biopsy of peripheral lung nodules that uses an adjunctive imaging modality added to navigational bronchoscopy, which allows them to confirm instrument location within the lesion in question. Senitko also has expertise in the management of central airway obstruction; the ability to select from several therapeutic approaches helps the team serve as Mississippi's main referral center for lung disease.

Lung cancer is the leading cause of cancer-related deaths in Mississippi, and the IP Section plans to continue introducing new technologies that focus on shortening the 'nodule-to-diagnosis' time and endoscopic treatment. "One of our other top priorities is to offer an endoscopic lung volume reduction treatment option for patients with advanced COPD" said Senitko.

Senitko joined the UMMC faculty in 2016. Born in Slovakia, he graduated from First Faculty of Medicine, Charles University Prague, Czech Republic in 2006. After completing his internal medicine residency and pulmonary and critical care fellowship at UMMC, he completed an interventional pulmonology fellowship at Yale University. Senitko serves as co-director of the UMMC Cancer Center and Research Institute's Lung Cancer Screening Program. He is a diplomate of the American Association of Bronchology and Interventional Pulmonology, serving as its southern chapter representative, and a member of the American Thoracic Society's Clinical Advisory Committee.

DEPARTMENT OF MEDICINE EDUCATION



Dr. Calvin Thigpen

The Department of Medicine has a rich history in education and has paved the way in this mission throughout campus.







Faculty in the

NELSON C. NELSON ORDER OF TEACHING EXCELLENCE Inductees

> CLINICAL PROFESSORS OF THE YEAR



MEDICAL SCHOOL COURSES TAUGHT BY DEPARTMENT OF MEDICINE FACULTY

REQUIRED COURSES

IMP 1: Introduction to the Medical Profession I Course Director: Savannah Duckworth, MD Course Co-Director: Jarrett Morgan, MD

CONJ 621: IMP 2: Introduction to the Medical Profession II Course Co-Directors: Zeb Henson, MD and Lyssa Weatherly, MD

MED 631: Medicine Clerkship Course Co-Directors: Zeb Henson, MD and Michelle Horn, MD

> MED 651: Medicine Sub-Internship Course Director: Michelle Horn, MD

> CONJ 670: Transition to Residency Course Director: Michelle Horn, MD

ELECTIVE COURSES

MED 633: Clinical Endocrinology Course Director: Jose Subauste, MD

MED 634: Outpatient Care of the Geriatric Patient Course Director: Scott Gibson, MD

MED 635: Hematology/Oncology Course Director: Robert Hamilton, MD

MED 636: Infectious Disease Course Director: Svenja Albrecht, MD

MED 637: Pulmonary Medicine Course Director: Jessie Harvey, MD

MED 638: Rheumatology Course Director: Day Lennep, MD

MED 640: Ambulatory Internal Medicine Clerkship Course Director: Savannah Duckworth, MD

MED 641: Cardiology Course Director: Douglas Wolfe, MD

MED 652: Ambulatory Medicine Course Director: Michelle Horn, MD

MED 653: Special Medicine Course Director: Michelle Horn, MD

MED 654: Cardiology Course Director: Brandon Lennep, MD

MED 655: Gastroenterology Course Director: Pegah Hosseini-Carroll, MD MED 657: Infectious Diseases Course Director: Prakhar Vijayvargiya, MD

MED 659: Pulmonary Diseases/ Critical Care Medicine Course Director: Jessie Harvey, MD

MED 660: Nephrology Course Director: Neville Dossabhoy, MD

MED 661: Geriatrics/Gerontology Course Director: Scott Gibson, MD

MED 663: Ambulatory Medicine in the Amazon Jungles of Peru Course Director: Svenja Albrecht, MD

MED 667: Medical Consult Service Course Director: Brett Jeter, MD

MED 668: Rheumatology Course Director: Day Lennep, MD

MED 670: Medical Oncology Course Director: Robert Hamilton, MD

MED 673: Rural Internal Medicine Practice Course Director: Michelle Horn, MD

> MED 674: Hospital Medicine Course Director: Brett Jeter, MD

MED 675 Interventional Cardiology Course Director: Kellan Ashley, MD

PAVING THE WAY: NEW LEADERS IN THE SCHOOL OF MEDICINE





MICHAEL R. MCMULLAN, MD, Professor in the Division of Cardiology, was named Associate Dean for Student Affairs for the School of Medicine in 2020. He also serves as Division Director of Cardiovascular Diseases and Director of the Cardiovascular Service Line, and in the past has served as Director of the state's only Adult Congenital Heart Program. McMullan has received numerous teaching accolades, including the Carl G. Evers Hall of Fame and Normal C. Nelson Order induction, Clinical Professor of the Year, Department of Medicine Teacher of the Year, and the Trailblazer Teaching Award. In his role as Associate Dean for Student Affairs, McMullan, along with Dr. Weatherly, works with more than 650 medical students annually, guiding them through everything from orientation and the White Coat Ceremony at the beginning of medical school, to preparation for the Match, and finally to the Long Coat Ceremony the evening before their graduation from medical school.



DEMONDES HAYNES, MD, Professor in the Division of Pulmonary and Critical Care, was named Associate Dean of Medical School Admissions in 2019. He has served in the past as both Executive Vice Chair for the Department of Medicine and Fellowship Program Director for Pulmonary and Critical Care. Haynes has been awarded numerous accolades, including Intern of the Year, Fellow of the Year, All-Star Clinician, AOA Resident of the Year, Teacher of the Year and, most recently, M2 Clinical Professor of the Year in 2021. In his current role, he focuses on broadening outreach and increasing diversity within each medical school class. One such initiative is an early assurance program for students underrepresented in medicine – the PROMISE program. PROMISE (Promoting Recruitment Opportunities in Medicine with Individual Study Experiences) aids students through the admission process, outlines requirements for acceptance, and provides prep work for the MCAT. PROMISE is just one of the innovations that Haynes and his staff in admissions have created. They also offer numerous webinars and outreach programs to pre-medical students to help them better understand and be better prepared for the medical school admissions process. Haynes spends a significant amount of time providing individual counseling services to students to help them create their individual plans and paths to medical school.



LYSSA WEATHERLY, MD, Assistant Professor in the Division of Geriatrics, was named Assistant Dean of Student Affairs for the School of Medicine in 2019. She serves as an associate program director in the internal medicine residency program with particular interest in medical student and resident education and mentorship. Weatherly also serves as Course Co-director for the M2 Introduction to the Medical Profession and the M3 Bootcamp Transition to Clinical Medicine courses as well the UMMC chapter advisor for the Gold Humanism Honor Society. Weatherly has received numerous accolades, including Intern of the Year, Resident of the Year, Fellow of the Year, Clinical Professor of the Year, Department of Medicine Teacher of the Year, and induction into the Carl G. Evers Hall of Fame and Norman C. Nelson Order. In her role as Assistant Dean of Student Affairs, Weatherly works alongside the Office of Student Affairs to foster an environment that promotes academic success and medical student development. She focuses on student counseling, advising, wellness initiatives, and the smooth transition from classroom to clinical education.



JIMMY STEWART SERVING AS SITE PI OF \$1.8 MILLION AMA GRANT AIMED AT REIMAGINING RESIDENCY PROGRAMS

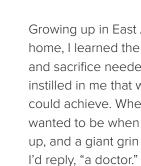
Jimmy Stewart, MD, Professor in the divisions of both General Internal Medicine and Pediatrics, was named Associate Dean of Graduate Medical Education in 2017. In this role, Dr. Stewart serves as the Designated Institutional Officer (DIO) and oversees all resident and fellow training programs at UMMC. Currently, the institution trains 670 residents and fellows in 64 programs throughout campus. The DIO is responsible for assuring compliance with Accreditation Council for Graduate Medical Education (ACGME) Institutional, Common, and specialty-specific program requirements and other applicable professional, educational, accreditation, and regulatory standards.

Stewart serves as Co-Investigator of an American Medical Association (AMA) grant to transform the way future physicians are trained. UMMC was awarded this grant, entitled The GOL2D Project (Goals of Life and Learning Delineated): Collaboration Across Academic Health Systems to Better Align GME with Learner, Patient, and Societal Needs, in partnership with Vanderbilt University Medical Center. The AMA is providing \$1.8 million over five years to fund each of the eleven innovation projects that were selected to promote systemic change in residency training.

CALVIN THIGPEN SELECTED TO LEAD DEPARTMENT'S EDUCATION EFFORTS

S. Calvin Thigpen, MD, Associate Professor in the Division of General Internal Medicine, was named Vice Chair of Education for the Department of Medicine in 2021. A Rhodes Scholar, Thigpen completed medical school, residency, chief residency and a hematology/oncology fellowship at UMMC. He also serves as Director for the Internal Medicine Residency Program. He is the immediate Past-President of the Mississippi American College of Physicians, which received Chapter Excellence Awards under his tenure. He is the recipient of multiple accolades, including Resident of Year, Fellow of the Year, Nelson C. Order, Evers Hall of Fame, Clinical Professor of the Year, Trailblazer Teaching Award, Department of Medicine Teacher of the Year, and AOA Teacher of the Year. In his role as Vice Chair of Education, Thigpen oversees all education programs within the Department, which includes two residency programs, 14 fellowship programs, the third-year medical student clerkship, fourth-year medical student sub-internship, and 26 additional medical school courses.

Dr. Kendra Courtney. 2021 Medicine-Pediatrics residency graduate



My childhood dream of becoming a physician to help heal others was something I held on to despite the hurdles I faced. Coming from Atlanta, Georgia to Mississippi was a considerable adjustment with a slower pace. I attended Alcorn State University on a full band scholarship as I believed that I would be a professional flutist in addition to becoming a doctor.

While attending Alcorn, I was asked by an advisor what my plans were after college. Emphatically I said I was going to be a physician. He took one look at me and said, "Have you considered an alternative?"

Stunned into silence, I sat there looking at him with a blank stare. I had never had a teacher or an advisor tell me that I should consider another career. I explained that there were no other options because I didn't see myself doing anything else. That moment still sticks with me as a reminder that despite what others may think, as long as I believe in myself, that is what counts.

I want to say that the fairy tale of getting into medical school right after college came true, but that was not the case. After failing the MCAT, I enrolled in Mississippi College's Master of Medical Science program, where I learned that I was far more capable than I previously believed.

Third time's a charm

I retook the MCAT, applied to UMMC, but was not accepted. I was working at Target as a cashier to try and make ends meet. One day as I was receiving the items across the conveyor belt, I saw that my customer was the then Dean of Admissions for UMMC Medical School. Immediately, I said excitedly," I know you probably don't remember me, but I'm reapplying to medical school this year." Startled, she said, "That is wonderful, I am so glad you are not giving up."

I retook the MCAT, and this time I was ready. I look back at that time and remember studying my MCAT prep book constantly, even while walking my dog. My MCAT score was high enough not only for admission but to qualify for a full academic scholarship!

Residency Humbles You

I chose Internal Medicine and Pediatrics as my specialty. I loved the idea of being able to take care of anyone at any age-the feeling of wanting to "do it all" in Medicine.

Residency was a trying and humbling time, with the long hours, extensive information one learns, and battling fatigue. Not to mention getting married, having a child, and being a trainee through a pandemic.

But when I reflect on residency, the times that helped me move on were the smallest moments. You know, the ones no one is ever around to witness. For example, I was in the pediatric ER doing a shift when an African-American seven-year-old female came in. After workup, education, and discharge instructions, she beams up and looks at me. Thinking she was just happy that I told her they could leave, her mom looks at her and says, "Go ahead and tell her."

The young girl looks at me and says, "I didn't know we could be doctors. Will you be my doctor?" I looked at her as tears welled in my eyes. I couldn't help but think of myself as a child. Some weeks later, she had a follow-up appointment in my clinic. Her mom explained that she had been so excited to see me and going around telling everyone that she, too, will be a doctor one day, just like Dr. Courtney.

JUST LIKE DR. COURTNEY

"Momma, I'm hungry," I said as we sat on the cold hard bunk bed early one morning. "We have to wait until they tell us to eat," my mother replied. "Now, hold your sister, and tell her to stop crying." Luckily, my sister was too young to comprehend homelessness. I guess some would consider that Ground Zero, leaving nowhere else to go but up.

Growing up in East Atlanta in a single-parent home, I learned the true meaning of hard work and sacrifice needed to survive. My mom always instilled in me that whatever I put my mind to, I could achieve. Whenever anyone asked what I wanted to be when I grew up, my eyes would light up, and a giant grin would come across my face as



SHARON DOUGLAS CELEBRATES 35 YEARS IN EDUCATION

Sharon Douglas, MD, Professor of Medicine and Associate Dean for Education at the G.V. (Sonny) Montgomery VA Medical Center, recently celebrated her 35th anniversary at UMMC. Douglas clinically practices pulmonology at the VA and is heavily involved in medical student education at UMMC. In her education role, she advises medical students about the residency match process, meets twice monthly with the Deans' Group, and addresses all educational issues related to the VA. She also writes Medical Student Performance Evaluations for the Office of Medical Education, which are required letters for residency.

G. V. (50

Douglas also has a strong interest in ethics, having earned certification in healthcare ethics from the University of Washington in 1998. She is a core faculty member of the Center for Bioethics and Medical Humanities at UMMC, Associate Chief of Staff for Education and Ethics at the VA, and a former member of the Veterans Health Administration National Ethics Committee. The VA has recognized Douglas' work with a number of awards, including the 1998 Chief of Staff Award, the 2005 VA Secretary's Hero Award for her work in disaster response following Hurricane Katrina, and the 2009 William A. Nelson Award for Excellence in VHA Healthcare Ethics. Douglas has been selected as a School of Medicine All-Star Teacher three times, AOA Teacher of the Year in 2010, and Keynote Speaker for both the Long Coat and White Coat Ceremonies in recent years.

SAVANNAH DUCKWORTH NAMED INAUGURAL TRAILBLAZER OF THE YEAR

Savannah Duckworth, MD, Assistant Professor in General Internal Medicine, received the 2021 Trailblazer of the Year Award in the School of Medicine. The Trailblazer Teaching Awards are given each year by the Office of Medical Education to celebrate faculty who have shown dedication to excellence and innovation in undergraduate medical education. This award is the only one in the School of Medicine in which a faculty member is recognized for outstanding performance by his or her peers. In 2021, faculty members also placed nominations for the inaugural Trailblazer of the Year award to represent the "best of the best." Duckworth completed medical school and internal medicine residency at UMMC. She serves as Course Director for the Introduction to the Medical Profession I course and M3 Ambulatory Elective in Internal Medicine. Duckworth is also the medical director of the Judith G. Gearhart Clinical Skills Assessment Center, which provides a setting for medical students to practice and be given feedback in communication and clinical skills using a realistic clinical environment and standardized patients.





CHRISTINA WALLACE: **RECORD SETTER FOR MISSISSIPPI BAND OF CHOCTAW INDIANS**



Christina Wallace, MD must be getting used to setting records for the Mississippi Band of Choctaw Indians. In 2019, Wallace was the first member of her tribe to earn her medical degree from UMMC. Now in her third year of residency, Wallace is in line to also become the tribe's first internal medicine physician.

With more than 11,000 members, the Mississippi Band of Choctaw Indians is the only federally-recognized American Indian tribe living within the state of Mississippi. Its lands cover more than 35,000 acres in ten different Mississippi counties.

American Indians and Alaska Natives represent less than one-half of one percent of the nation's physician workforce. Of the estimated 5.2 million American Indians and Alaska Natives in the U.S., only about 3,400 are physicians.

Wallace's interest in medicine started at a young age. Her grandfather was a "traditional healer," and her mother was a nurse at the G.V. "Sonny" Montgomery Veterans Affairs Medical Center in Jackson.

Wallace's mother, Barbara Willis, made a traditional Choctaw dress to help celebrate her daughter's graduation from medical school. (Photo courtesy of Wes Wallace)

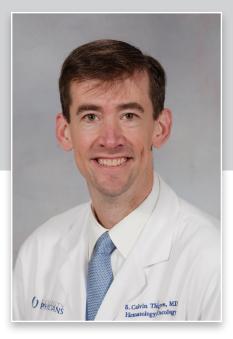
Married with two children, Wallace earned her undergraduate degree in chemistry from the University of Mississippi. Prior to applying to medical school, Wallace worked for the Mississippi State Department of Health in the biomonitoring and chemical terrorism section of its Public Health Laboratory. She also worked as a patient liaison for the Choctaw Health Center in Neshoba County.

Those experiences only strengthened her desire to become a primary care physician. "I plan to practice in Mississippi and stress to my patients the importance of preventive care," said Wallace. "At some point, I want to give back to my community."

Wallace will undoubtedly add tremendous value to her community. When describing her attributes, Michelle Horn, Associate Professor of Medicine and Director of the Department of Medicine's Division of General Internal Medicine, said, "[Wallace] has an innate ability to make patients and their families feel at ease and is able to explain things to them in such an easy-to-understand manner. Even for physicians it's sometimes difficult to achieve this skill, but with Christina, it's a part of her nature, and patients certainly respond to that and to her."

2021-2022 CHIEF MEDICAL RESIDENTS

Drs. Ashley Villarreal, Austin Burkenstock, Anna Owings, and Caleb Stanfield



INTERNAL MEDICINE **RESIDENCY LEADERSHIP**

S. CALVIN THIGPEN, MD

VICE CHAIR OF EDUCATION, DEPARTMENT OF MEDICINE PROGRAM DIRECTOR, INTERNAL MEDICINE RESIDENCY PROGRAM



AMANDA CLARK, MD ASSOCIATE PROGRAM DIRECTOR



KIMBERLY HARKINS, MD ASSOCIATE PROGRAM DIRECTOR



RAHAT NOOR. MD ASSOCIATE PROGRAM DIRECTOR



LYSSA WEATHERLY, MD ASSOCIATE PROGRAM DIRECTOR



CHARLETTA WRIGHT, MD ASSOCIATE PROGRAM DIRECTOR

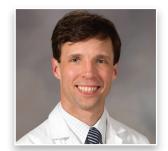


INTERNAL MEDICINE RESIDENCY PROGRAM CORE FACULTY





ASHRAF ABDO, MD





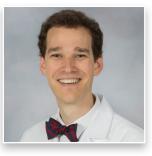
J. CLARK HENEGAN, MD



LICY YANES CARDOZO, MD DIRECTOR, RESIDENT RESEARCH



BRETT JETER, MD



J. BEN BROCK, MD



JESSIE LAVENDER. MD DIRECTOR, PRIMARY CARE TRACK



JESSIE HARVEY, MD DIRECTOR. POINT-OF-CARE ULTRASOUND CURRICULUM



ELIZABETH PAINE, MD CHAIR, CLINICAL COMPETENCY COMMITTEE DEPARTMENT OF MEDICINE | EDUCATION 65

2021-2022 **INTERNAL MEDICINE RESIDENTS**

PGY – III



Hala Abisamra, MD





Gladfelter, MD

Mia

Missel, DO

Kane Edwards, MD



Heidi Latiolais, MD



Shea Qarqish, DO





Thor

Goodfellow, MD

Valencia

Hillary

Daugherty, MD



Taylor

Harvey, MD



Mauricio Ordaz, DO







Paul

Davis, DO

Sandeep

Kancharla, MD

Peyton Reves, MD





Kheirkhahan, MD



Aleks Pivovarova, DO



Joie Young, MD

PGY – II





Zak Ali, MD





Bell, MD

Hilary Elom, MD

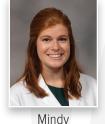




Adil

Michael McCain, MD





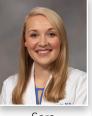
Mohyudin, MD

Ryan Shephard, DO

Talley, MD

PRIMARY CARE PGY - II





Rachel Mullins, DO

Sara Parks, MD







Price, DO



Wallace, MD



Melinda Solomon, MD



Petros Svoronos, MD









Steven Billingsley, MD



Yousef Hindi, MD



Raina Muthukumaru, MD



Spurthi Tarugu, MD



Lauren Bradley, MD

Clara

Hitchcock, DO

Ritesh

Patel, MD

Christopher

Tidwell, MD



Reese Bulmash, DO



Mary Moses Hitt, MD



Mari Rader, MD



Sydney West, MD



Jabari Burks, MD



Jannat Kang, MD



Uttsav Sandesara, DO



Christian Young, MD

2021-2022 **INTERNAL MEDICINE RESIDENTS**

PGY - I





Benjamin Billingsley, DO





Clay, MD



Helmhout, MD

Sam

Thomas, MD

Kelly Dale, MD



Jason Engel, MD

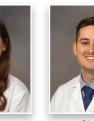
LeBlanc, MD



Fayyaz, MBBS



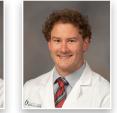
Brandon Heath, DO



Chad Hierlmeier, MD



Brian Monk, DO



Sam Rose, MD





Danielle



Foster, MD



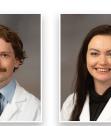
Jaslyn

Paschal, MD

Darron

Hampton, DO

Tejaswi Munagala, DO



Will Ross, MD



Jessica Smith, DO



Khawaia Talha, MBBS





Gio Ponce, MD





Nathan Usry, MD





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DEPARTMENT OF MEDICINE IMPACT REPORT







KeShawn Pope, MD



Nei Shannon, MD

Aaron Poole, MD, PhD

Front (left to right): Donna Bridges, Jennifer Chappell, Monica Watkins; Back: Shannon Coleman, Caroline Griffin, Cheryl Moss

JENNIFER CHAPPELL

MEDICAL EDUCATION ADMINISTRATIVE DIRECTOR

CHERYL MOSS

SENIOR RESIDENCY PROGRAM ADMINISTRATOR

MONICA WATKINS

SENIOR FELLOWSHIP PROGRAMS ADMINISTRATOR

DONNA BRIDGES

ADMINISTRATIVE ASSISTANT

CAROLINE GRIFFIN

PROJECT ADMINISTRATOR

SHANNON COLEMAN

PROJECT ADMINISTRATOR

MEDICINE-PEDIATRICS RESIDENCY PROGRAM



2021-2022 Medicine-Pediatrics Residents and Faculty. Not pictured: Claudia Aayoub, DO; Jackson Browning, MD; Samuel Davidson, MD; Caleb Zumbro, MD; Morgan McLeod, MD



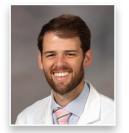
ZEB HENSON, MD PROGRAM DIRECTOR, MEDICINE-PEDIATRICS RESIDENCY PROGRAM



JIMMY STEWART, MD

ASSOCIATE PROGRAM DIRECTOR, MEDICINE-PEDIATRICS RESIDENCY PROGRAM

PGY – IV





SAMUEL DAVIDSON, MD

PGY – III





ANNA BETH CASE, MD

ADAM COOMBS, MD

PGY – II



NATHAN ALEXANDER, MD

BRIANNA ARRINGTON, MD

PGY - I





CLAUDIA AYOUB, DO ADAM BICAK, MD

MEDICINE-PEDIATRICS RESIDENCY PROGRAM CORE FACULTY



DAVID GILLIAM, MD

MICHELLE HORN, MD







STEPHEN STONE. MD



CALEB ZUMBRO, MD





S. GRIFFIN METCALF, MD



JASMINE PADGETT, MD

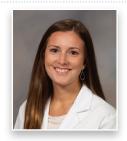


MARLEE WADSWORTH, MD





JACKSON BROWNING, MD



HALEY FRANKLIN, DO



J. AUSTIN PUCKETT, MD





MARIAM EBEID, MD



KELTON KINGSLEY, MD



CANDYCE MEHLER, DO



JASMINE KENCY, MD



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MORGAN
MCLEOD, MD
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JARRETT MORGAN, MD

RESIDENCY PROGRAMS NEW INITIATIVES

- The first "virtually recruited" class consisted of twenty-six categorical and five medicinepediatrics interns, who started in July 2021. Residency and fellowship recruitment is currently virtual for the 2021-2022 academic year.
- · Current board pass rates are 96 percent for internal medicine and 100 percent for medicinepediatrics, both above the national mean of around 91 percent. The Department offers a free board review course for all residents.
- In 2019, the Medicine-Pediatrics intern class increased to five interns per year. This program expansion, now with 19 total residents reflects the growth of the Medical Center and its education efforts.
- The internal medicine residency program implemented an X+Y+Z schedule in the 2021-2022 year, allowing for more schedule flexibility and increased subspecialty clinic exposure.
- Point of Care Ultrasound (POCUS) Curriculum, led by Jessie Harvey, MD, includes ultrasound didactics and hands-on practice with technique. The Department recently obtained two additional ultrasound machines, now with a total of five for use while on wards or in the MICU.
- Licy Yanes Cardozo, MD was named Director of Resident Research for the Internal Medicine Residency Program. She oversees research curricula and aids residents in their pursuit of clinical research or quality improvement projects.

- medicine and subspecialty medicine.
- focused health topics.
- Amanda Clark and Lyssa Weatherly serve as Co-Directors of the track.
- academic year.
- temporary hemodialysis catheters, and arthrocentesis.
- as clinic preceptors.
- throughout UMMC, including:
- J. Ben Brock, MD, Fellowship Program Director, Infectious Diseases
- David Gilliam, MD, Physician Advisor, UMMC Health System
- Zeb Henson, MD, Associate Chief of Staff, UMMC
- Michelle Horn, MD, Division Director, General Internal Medicine
- Jasmine Kency, MD, Medical Director of the Office of Patient Experience
- Seema McKenzie, MD, Physician Advisor, UMMC Health System
- Jimmy Stewart, MD, Associate Dean for Graduate Medical Education

 Medicine-Pediatrics residency graduates have a long history of serving in primary care after graduation, with recent graduates serving in ten communities throughout Mississippi.

Jessie Lavender, MD was named Director of the Primary Care Track for the internal medicine residency program. In her role, she will serve to enhance ambulatory education in both general

• The Internal Medicine Residency Program, in partnership with Magnolia Regional Residency Program, received a \$20,000 grant, entitled Building Trust through Diversity, Health Care Equity and Inclusion in Internal Medicine Training. The grant is sponsored by the American Board of Internal Medicine (ABIM), ABIM Foundation, Alliance for Academic Internal Medicine, American College of Physicians, and the Josiah H. Macy Foundation. Principal investigators include Drs. Jessie Lavender, Lyssa Weatherly, and Hayes Baker of Magnolia Regional. The grant will expand the curriculum for primary care residents to include education about community-

• The Clinician Educator Track was implemented in 2019 and is a longitudinal curriculum throughout two academic years to develop teaching and leadership skills of residents interested in becoming clinician educators. The track includes eight upper-level residents who teach their peers, medical students, and assist in teaching two medical student courses. Drs.

Two Medicine-Pediatrics graduates, John Caleb Grenn, MD and Ashley Villarreal, MD, are currently serving as 2021-2022 Chief Residents for Pediatrics and Internal Medicine respectively. Meagan Robbins, MD will serve as a Pediatrics Chief Resident for the 2022-2023

· The internal medicine residency program's health disparities curriculum serves to educate residents about the health disparities that exist in the state and country, social determinants of health, implicit bias, advocacy opportunities, and provide resources to aid the underserved.

Residents are able to work with the Procedure Team as an elective rotation. The Procedure Team is managed by Hospital Medicine faculty and offers a number of procedures to all hospitalized patients, including paracentesis, lumbar punctures, central venous access,

 In 2021, the Internal Medicine Residency Program resumed continuity clinic operations at the Jackson VA Medical Center. Around half of the 2021-2022 intern class has continuity clinic at the VA where Drs. Nikesia Beamon-Webb, Fowler Joiner, Sue Roberts, and Brendan Ross serve

• Several Medicine-Pediatrics residency graduates are currently serving in leadership positions

Jarrett Morgan, MD, Co-Course Director, Introduction to the Medical Profession I



Faculty judges at ACP Abstract Day

QUALITY IMPROVEMENT LEADS TO QUALITY CARE

The Internal Medicine Residency Program's curriculum in quality improvement (QI), led by Drs. Rahat Noor and Charletta Wright, is aimed at developing residents' skills in the area of QI and patient safety. Each year, every resident participates in a project as part of a team, along with other residents and a faculty advisor. The residents' understanding of QI processes is supplemented by didactic sessions throughout the academic year.

Over the past few years, residents have been actively involved in projects that have led to improved patient care. One such example is the I-PASS project, which is aimed at standardizing hand-off communication between teams. This was identified as an area in need of improvement to heighten patient safety and, working with UMMC's Chief Quality Office and Dr. Noor, led to implementation by other programs throughout our campus. The current, three-tiered, sliding scale insulin regimen and the colonoscopy order set are other examples of projects where the residents identified a problem and brought about change and improvements to current care.

At a national level, our Department is also engaged with ACP's "I Raise the Rates" program. This QI initiative is supported by grants from the Centers for Disease Control, Merck, and GlaxoSmithKline, and is a collaborative effort designed to help clinicians increase adult immunization in their practices. Noor is the faculty sponsor and Jessie Lavender, MD leads this project in the internal medicine resident clinic.

In 2019, nine resident QI projects were presented at the American College of Physicians (ACP) Mississippi Chapter Abstract Day. Despite the pandemic, the residents represented the Department by presenting their work at various meetings, including the American College of Physicians National and Alabama and Mississippi Chapters Scientific Meetings in 2021 and Digestive Disease Week in 2021.





BACKGROUND Ardiovascular events in the

Less is known about potential racial differences in vascular hemodynamic measures among young adults, despite the welland struke.

Binvestigated a variety of hemodynamic measures in young black d white adults below the age of 50 years in order to understand ssible mechanisms that predispose black to binders barriers.

METHODS 85 black and white adults recruited in Jackson, MS to be evaluated

We obtained systyolic blood pressure (SBP) and peripheral pulse pressure (PPP), anthropometry, fingerstick for glucose and cholesterol precision and conducted medical history interview on each participant

Exclusion Criteria: Age > 50 years old participant

 Non-invasive vascular tonometry: carotid femoral pulse wave value central pulse pressure (CPP) characteristic impedance (Zc.).



a Jackson, MS to be evaluated re below 50 year and eligible BP) and peripheral pulse WegR kb gr. and theight on the de subware and the de subw

RESIDENCY SCHOLARSHIP HIGHLIGHTS

2021 BEST RESEARCH ABSTRACT, NATIONAL AMERICAN COLLEGE OF PHYSICIANS MEETING

"Utilization and the cost burden analysis of amylase testing in acute pancreatitis"

Himmat Brar, MD Jannat Kang, MD, and Pradeep Bathina, MD

2021 INTERNAL MEDICINE RESIDENCY PROGRAM, BEST RESIDENCY QI PROJECT

"SGLT2 inhibitors in T2DM and ASCVD in LB clinic: Implementation of Pocket Cards on Empagliflozin Prescription Rates"

Will Crews, MD Samer Mehio, MD, Aayush Patel DO, and Steven Billingsley MD; Faculty Advisor Asef Mahmud, MD.

2021 "BEST POSTER" AT ACP ALABAMA AND MISSISSIPPI CHAPTERS SCIENTIFIC MEETING

Ryan Shephard, DO

2021 SOUTHERN SOCIETY OF CLINICAL INVESTIGATION TRAINEE RESEARCH AWARD

Arsalan Hamid, MD

▼ Dr. Preston Bell discusses his abstract with Dr. Ervin Fox

e racial, sex, and nometry measures > In this su participant

In this study of vascular hemotynamics of volvey participants we found significant racel differences in earls settenes (Z₁) and pressure pulseality (PPP) a core studgest that proximal acres attenes or raching a core studgest that proximal acres attenes or acres of acres acres studgest that proximal acres attenes or acres of acres acres studgest that proximal acres attenes or acres of acres acres studgest that proximal acres attenes or acres of acres FDICINE | EDUCATION 75

FELLOWSHIP PROGRAMS LEADERSHIP

ALLERGY, ASTHMA, AND CLINICAL IMMUNOLOGY



PATRICIA STEWART, MD PROGRAM DIRECTOR

ADULT CONGENITAL HEART DISEASE



WILLIAM CAMPBELL, MD PROGRAM DIRECTOR



JESSICA PERKINS, MD ASSOCIATE PROGRAM DIRECTOR

GERIATRICS AND GERONTOLOGY



SCOTT GIBSON, MD PROGRAM DIRECTOR

INTERVENTIONAL CARDIOLOGY



KELLAN ASHLEY. MD PROGRAM DIRECTOR

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JOHN WINSCOTT. MD ASSOCIATE PROGRAM DIRECTOR

CARDIOVASCULAR DISEASES



DONALD "TREY" CLARK, III, MD, MPH PROGRAM DIRECTOR



MICHAEL HALL, MD, MS ASSOCIATE PROGRAM DIRECTOR



KELLY WINGERTER, MD ASSOCIATE PROGRAM DIRECTOR

ADVANCED HEART FAILURE AND TRANSPLANT CARDIOLOGY



CRAIG LONG, MD PROGRAM DIRECTOR

DIGESTIVE DISEASES



DAVID C. SCHAEFER, MD PROGRAM DIRECTOR

HEMATOLOGY AND ONCOLOGY



KELLY WILKINSON, MD PROGRAM DIRECTOR

HOSPICE AND PALLIATIVE MEDICINE

KEITH MANSEL, MD PROGRAM DIRECTOR

PULMONARY AND CRITICAL CARE



JESSIE HARVEY, MD PROGRAM DIRECTOR



PEGAH HOSSEINI-CARROLL, MD, MS ASSOCIATE PROGRAM DIRECTOR



STEPHANIE ELKINS, MD ASSOCIATE PROGRAM DIRECTOR

INFECTIOUS DISEASES



JAMES B. BROCK, MD, MSCI, PROGRAM DIRECTOR



PRAKHAR VIJAYVARGIYA, MD ASSOCIATE PROGRAM DIRECTOR

NEPHROLOGY



NEVILLE R. DOSSABHOY, MD PROGRAM DIRECTOR



LEKHA SUNKARA DEERE, MD ASSOCIATE PROGRAM DIRECTOR

RHEUMATOLOGY AND MOLECULAR IMMUNOLOGY



VIKAS MAJITHIA, MBBS, MPH, PROGRAM DIRECTOR

ENDOCRINOLOGY







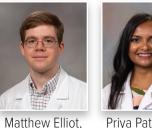
VISHNU GARLA, MD ASSOCIATE PROGRAM DIRECTOR

2021-2022 **MEDICINE FELLOWS LIST**

ALLERGY AND IMMUNOLOGY



MD (PGY-V)



Priva Patel, MD MD (PGY-V) (PGY-IV)

CARDIOLOGY

Olu Kolawole,

MBChB (PGY-VI)



(PGY-IV)

Varun Sardar, MBBS (PGY-VI)



Patrick Dauphin,

MD (PGY-VI)

Baker Boler, MD (PGY-V) MD (PGY-V)



Andrew Brown. MD (PGY-V)



Daniel Kelly, MD (PGY-V)



DO (PGY-IV)

Drew Daniels,

Samer Mehio, MD (PGY-IV)

Murphy Hinson,

DO (PGY-VI)

Tommy Skelton, MD (PGY-V)

Andy Smith, MD Dantwan Smith, MD (PGY-IV)

CARDIOLOGY-INTERVENTIONAL



Jonathan Blossom, MD (PGY-VII)



CARDIOLOGY-ADULT CONGENITAL HEART DISEASE



DO (PGY-VII)

GERIATRICS



Wendy Glover, MD (PGY-IV)



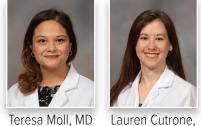
MD (PGY-IV)

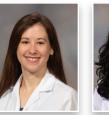




Brandon Brousse, MD (PGY-VI)

ENDOCRINOLOGY





MD (PGY-V)

MD (PGY-VI)

Teresa Moll, MD (PGY-V)

Roopitha Kaval,



Safa Osman, MD (PGY-V)

Ovcharenko, MD (PGY-V)





Kaitlyn Chow, MD (PGY-IV)

Elizabeth Bui MD (PGY-V)











(PGY-IV)

Aditya Sabharwal, DO (PGY-VI)

DIGESTIVE DISEASES



Paul Dotherow. MD (PGY-V)



Vedha Sanghi, MBBS (PGY-V)



Zachary Field, MD (PGY-IV)



Parth Maheshwari, MD (PGY-IV)



Abdallah Abdallah. MD (PGY-IV)



MD (PGY-IV)



David Lott, DO (PGY-IV)

INFECTIOUS DISEASES



Rochelle Thompson Kolawole, MBBS (PGY-IV)



Samantha Williams, MD (PGY-IV)

NEPHROLOGY



Uma Mahesh Avula, MBBS (PGY-V)



Carter Schwartz, DO (PGY-IV)



Sriperumbuduri, MD (PGY-IV)

RHEUMATOLOGY





Martha Magnuson, MD (PGY-IV)

HOSPICE AND PALLIATIVE CARE



2021-2022 **MEDICINE FELLOWS LIST**

HEMATOLOGY AND ONCOLOGY





LeJeune, MD (PGY-VI)





Shradha Ahuia. MBBS (PGY-VI)





DO (PGY-V)

(PGY-VI)



Mridul Gupta,

MBBS (PGY-VI)

Carrie Wvnn. MD (PGY-V)

Bo Brunson, MD (PGY-IV)

Paige Ganem, DO (PGY-IV)



MD (PGY-IV)

PULMONARY AND CRITICAL CARE





Kevin Kinloch MD (PGY-V)





Katie Howell MD (PGY-IV)



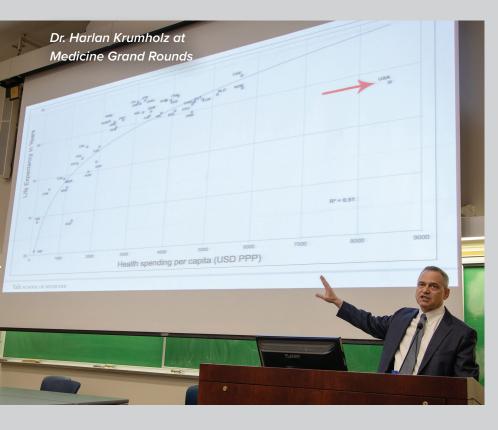






MD (PGY-IV)





Alan Maisel	University of California San Diego	Sushma Cribbs	Emory University School of Medicine
Aziz Ansari	Loyola University Medical Center	Joshua Berkowitz	University of North Carolina
Reinaldo Rampolla	Ochsner Clinic Foundation	Janet Jokela	University of Illinois
Arshed Quyyumi	Emory University School of Medicine	Joshua Berkowitz	University of North Carolina School of Medicine
Nancy Collop	Emory University School of Medicine	Lawrence Leiter	University of Toronto
Micah Whitson	University of Alabama at Birmingham	Olivia Van Gerwen	University of Alabama at Birmingham
Harlan Krumholz	Yale School of Medicine	Jonathan Lyons	National Institute of Allergy and Infectious
Neal Dickert, Jr.	Emory University School of Medicine		Diseases, Bethesda, Maryland
Amanda Peltier	Vanderbilt University Medical Center	Rajiv Agarwal	Indiana University
Stephan Anker	Charite University, Germany	Ethan Weiss	University of California, San Francisco
James Januzzi	Massachusetts General Hospital	George Mensah	National Heart, Lung, Blood Institute, Bethesda, Maryland
Vasan Ramachandran	Boston University School of Medicine	Mitchell Kaminski	Jefferson College of Population Health
Chris McCartney	University of Virginia	Mark Anderson	Johns Hopkins University
Gurpreet Dhaliwal	University of California, San Francisco	Neha Sachdev	AMA Diabetes Prevention Program, Chicago
Tracy Henry	Emory University School of Medicine	Thomas Huddle	University of Alabama at Birmingham
Keith Swetz	University of Alabama at Birmingham	Robert Harrington	Stanford University
Gerard Silvestri	Medical University of South Carolina	Dennis Ledford	University of South Florida
Barry Greenberg	University of California San Diego	Leah Leisch	University of Alabama at Birmingham
Brigitta Brott	University of Alabama at Birmingham	Rana Awdish	Henry Ford Health System
Jeffrey Klausner	University of California, Los Angeles	Edward Marcantonio	Harvard Medical School



Jeremy

Courtney, MD

(PGY-VI)

Jackson Ross. MD (PGY-V)





Arash Samarghandi, MD (PGY-V)

Anna Carr. DO (PGY-IV)

Kristin Hom, DO

(PGY-VI)



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Daniel Rees, MD

John Forstall,



MEDICINE GRAND ROUNDS

The Department of Medicine's Grand Rounds program hosts local faculty and outstanding regional or national leaders in their respective fields who present on a range of topics representing each of the department's subspecialties. These presentations are designed for our faculty, residents, fellows, other healthcare professionals, and researchers who wish to remain up to date on new science in their field and to encourage collaboration among scientists and physicians. Attendees can receive CME credit. Beginning in March 2020, Grand Rounds was changed to a virtual platform. Jasmine Kency, MD serves as Faculty Lead of Medicine Grand Rounds.

FEATURED SPEAKERS, 2020-2021 DEPARTMENT OF MEDICINE GRAND ROUNDS

JACKSON FREE CLINIC

established 1998

ACKSON FREE CLINIC

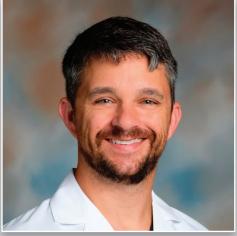
established 1998

GIVING BACK

The Jackson Free Clinic, lovingly known as the JFC, is a 501(c)(3) nonprofit run by UMMC students and has been serving the uninsured of Jackson for more than 20 years. The clinic offers free medical, dental, psychiatric, physical therapy, and occupational therapy services to anyone without insurance. In 2020, the JFC served 760 patients with 1,345 patient visits.

The partnership between the Department of Medicine and the JFC is strong. Fifty percent of JFC medical staffing coverage is provided by volunteers within the Department of Medicine, including residents, fellows, and faculty. To many, there is no greater use of our ability as medical providers than to provide high-quality care to those who need it most.

Savannah Duckworth, MD, serves as the Department's liaison for JFC staffing. In 2019, the JFC Board of Directors instituted two awards in Duckworth's honor. Known as the "Savannah Duckworth Excellence in Education Awards," one is presented to a medical student and another to a medical resident each year who demonstrate exemplary education skills at JFC.



Dr. Bobby Tullos

PULMONARY TRAINING FUND ENDOWMENT ESTABLISHED

The Class of 2018 Pulmonary Training Fund endowment was established by Bobby Tullos, MD, who completed his fellowship in pulmonary and critical care medicine in 2018. The endowment will be used for the Department of Medicine's Division of Pulmonary, Critical Care, and Sleep Medicine for the purpose of training pulmonary fellows in the area of advanced airway management, ultrasound, bronchoscopy procedures, and other specialized pulmonary medical care. The fund will also support pulmonary fellows who attend courses that are not available at UMMC facilities.

A native of Mississippi, Tullos joined the U.S. Army after graduating high school. After serving in active duty for five years, Tullos earned an undergraduate degree from the University of Mississippi. He subsequently went to medical school at UMMC, where he also completed his internal medicine residency and pulmonary/critical care fellowship.

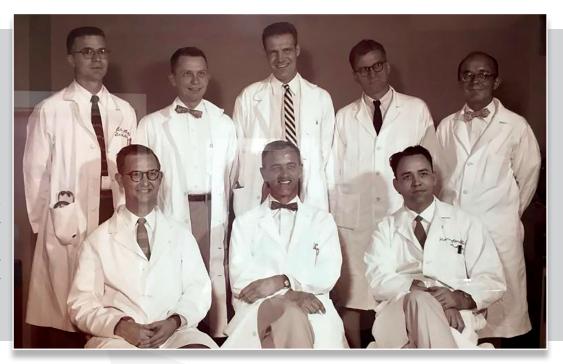
During his undergraduate education and medical training, Tullos remained in the U.S. Army Reserves. With 21 years of service under his belt and a current rank of Major, Tullos is now Brigade Surgeon for the 155th Infantry Brigade located in Tupelo, Mississippi. He practices pulmonary and critical care at Memorial Hospital in Gulfport, Mississippi.

When asked what made him decide to create a pulmonary training endowment, Tullos said, "During my 20 plus years in the Army and with multiple deployments, I've learned how valuable thorough training can be for mission success. My residency and fellowship training at UMMC was topnotch and prepared me to competently practice medicine anywhere in the world."

A HISTORY OF EXCELLENCE:

LEADERSHIP TIMELINE FOR THE DEPARTMENT OF MEDICINE

The Department of Medicine's original faculty: From left, sitting: Guy Gillespie, MD, senior resident; J. Robert Snavely, MD, Chair; Joe Covington, MD, senior resident. From left, standing: George Pratt, MD, senior resident; Peter Blake, MD, Assistant Professor; Warren Bell, MD, Assistant Professor; Herbert Langford, MD, Assistant Professor; and Fred Allison, Jr. MD. Assistant Professor.



CHAIRS OF MEDICINE



J. ROBERT SNAVELY, MD 1955-1965



HARPER HELLEMS, MD 1965-1990





JOHN O'CONNELL, MD 1991-1996



JOE FILES, MD, INTERIM 1996-1997



RICHARD DESHAZO, MD 1997-2010

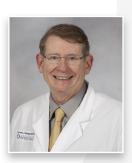


UMMC DEPARTMENT OF MEDICINE'S RESPONSE TO

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SHIRLEY SCHLESSINGER. MD, INTERIM 2010-2013



WILLIAM LITTLE. MD 2013-2015



DANIEL JONES. MD. INTERIM 2015-2017



JAVED BUTLER, MBBS, MPH, MBA 2017-PRESENT





2,666/ ADULT HOSPITALIZATIONS WITH COVID-19 AS OF 11/28/21

> 35% REQUIRED ICU CARE

21,221 TELEHEALTH VISITS FY 20

26,331 TELEHEALTH VISITS FY 21

15,273 VACCINES ADMINISTERED BY UMMC'S VACCINE CLINIC AS OF 9/12/21

CLINICAL TRIALS RELATED TO COVID-19



In late 2019, the Department of Medicine learned of the novel coronavirus and its associated outbreaks throughout the world. Before the first case was reported in Mississippi, leaders within the department and institution began preparing for the feared influx of infected patients. This comprised a multitude of initiatives and adjustments to prepare for the imminent surge.

COVID-19 HEROES



Drs. Bhagy Navalkele and Jason Parham

Bhagyashri "Bhagy" Navalkele, MBBS, Medical Director for UMMC's Infection Prevention Program, and Jason Parham, MD, Division Director of Infectious Diseases and Executive Vice Chair for the Department of Medicine, held pivotal roles in the COVID response, serving as lead in-house experts.

On March 11, 2020, Mississippi reported its first case of COVID-19, and two days later UMMC had its first hospitalized case of COVID-19. Faced with an overwhelming number of calls and questions regarding COVID-19 screening, diagnostic testing, and infection prevention practices, it became imperative for infection prevention and infectious diseases teams to collaborate in their response. In less than seven days they established the Infectious Diseases-Infection Prevention Command Center, which was operational 24/7.

The Command Center was staffed by infection preventionists, infectious diseases physicians, antimicrobial stewardship pharmacists, volunteer students, and residents--all working together to combat the COVID-19 pandemic. Many DOM faculty members worked at the Command Center in lieu of their clinics during the shutdown, on overnight shifts, and on weekends. The infection prevention team, supervised by infectious diseases physicians, operated the COVID-19 hotline for students and employees. Infectious diseases physicians, along with volunteer students and residents, answered calls from UMMC's Jackson, Grenada and Lexington campuses and provided

recommendations on COVID-19 diagnostic testing for patients presenting to ERs.

Navalkele and Parham ensured front-line clinical staff were prepared for the incoming flood of patients and adept at using personal protective equipment (PPE), such as face masks, face shields, gowns, and gloves.

In early 2020 there was, of course, very limited data available on COVID-19: how best to diagnose it, how to treat it, and how to prevent its spread. Navalkele and Parham, along with Jose Lucar, MD, Medical Director of the Outpatient Antimicrobial Service and other ID physicians, often engaged in long afterhours discussions and brainstorming sessions to formulate multiple COVID-19 policies and procedures, including approaches to acute respiratory illness during the pandemic, discontinuation of isolation precautions of COVID-19 positive patients in inpatient and outpatient settings, home discharge guidance, process for pre-operative COVID-19 testing, student and employee testing and isolation guidance, and infection prevention guidance, which are currently available on UMMC's intranet under COVID-19 clinical processes.

"The creation of an in-house COVID-19 testing facility was a game changer," said Navalkele. The testing facility allowed staff members to confirm a COVID-19 diagnosis in hours instead of days, and to isolate only the patients who needed it.

By the end of October 2020, the Command Center operations closed and Navalkele and Parham returned to their offices. Their COVID work, however, has not stopped. They continue to monitor the number of patients in the hospital with COVID and provide daily guidance for testing, treatment plans for hospital patients, and COVID-19 outbreak investigations.

For their contributions, both Navalkele and Parham were named "Community Heroes" by the Mississippi Clarion Ledger in April 2020.



"The Medical Center is lucky to have Dr. Navalkele and Dr. Parham leading our infection intervention efforts."

> — LouAnn Woodward, MD VICE CHANCELLOR FOR HEALTH AFFAIRS AND DEAN OF THE SCHOOL OF MEDICINE



COVID-19 CRITICAL CARE COORDINATION RESPONSE



RN Case Manager for Coordinated Care

"[*F*]*rom the ER staff to the floor* staff, I was amazed at the care I received. I began to write down names of all those who took such good care of me, but I lost track of names."

In his role as Director of University Hospital's ICU, Andy Wilhelm, MD, Division Director of Pulmonary, Critical Care, and Sleep Medicine, played an essential role in UMMC's response to the COVID-19 pandemic. Wilhelm led multiple response teams that included pulmonary and critical care faculty, fellows, ICU nurse managers, ED disaster response providers, and critical care pharmacy personnel. "There was one day during noon conference when we realized the train was coming and we had to prepare. So, I grabbed a marker and a whiteboard and called the troops to the table," said Wilhelm.

Dr. Andy Wilhelm

These teams developed processes for caring for patients infected with COVID-19. "Our processes were meticulously detailed, including, for example, who pushed the elevator button during COVID transport and how to bring food in and out of negative pressure rooms," said Wilhelm. With assistance from the Mississippi Critical Care Organization, Wilhelm also assembled a multidisciplinary group of critical care physicians to rotate caring for COVID-19 ICU patients. His response teams met daily for several months. The teams created living recommendations documents, which they continue to edit as new treatment data emerges. This, along with other process protocols are available on a public site as a resource for institutions across the state.

Dr. Andy Wilhelm discusses the outbreak on CNN

-RONTLINE DOCTORS ON COVID-19

COVID-19 WEATHERING A PATIENT STORY THE STORM

In February 2021, Mississippi had a rare and historic ice storm. That month, Sherry Jones, RN Case Manager for Coordinated Care, and her husband experienced a different kind of storm.

Jones' husband was in a rehabilitation facility when he tested positive for COVID-19 and was admitted to UMMC. Sherry tested positive as well and went home to quarantine. Over a period of several days, her symptoms continued to worsen - severe cough, loss of appetite, and shortness of breath. Her symptoms eventually became so worrisome that she asked her son to take her to the emergency room.

On their way to the ER, however, the bridge on Woodrow Wilson Avenue was so icy from the storm that it was barricaded with barrels. Undeterred, Sherry's son drove around the barricade to get her to UMMC's Emergency Room. She was admitted with hypoxemic respiratory failure from COVID-19.

"It was so scary. I was scared for myself, my husband, and for our four sons. Having both parents hospitalized at the same time was petrifying. The worst part was that none of us could see or visit each other in person due to our isolation status." said Jones. She remained in the hospital for seven days and her husband for ten days.

"It truly was a test of my faith," she said, "but from the ER staff to the floor staff, I was amazed at the care I received. I began to write down names of all those who took such good care of me, but I lost track of names and did not want to leave anyone out. The day shift and night shift on 2North were awesome. It was all very touching."

Jones recalls some of the small things that made a big difference in her care. She remembers one morning when she was very thirsty and wanted a Sierra Mist. John, her nurse, checked and could not find any on the floor and went to a vending machine to get her a ginger ale. "To him, it was probably nothing, but to me it was just over the top."

Her oxygen levels remained low, and she was discharged from the hospital with oxygen. She returned to work one week later but for weeks, she would have occasional shortness of breath. Sometimes after returning home from work, she would use oxygen through the night until returning to work the next morning. "It was tough to be winded and to sometimes have shortness of breath," she said.

Jones currently works on one of UMMC's COVID-19 floors, but does not have to go into the COVID-19 isolation rooms. However, after her experience with COVID-19, she is sure to encourage patients' family members to get vaccinated. In fact, when she and her husband were in the hospital, many of their family members got the vaccine. "We were the poster children for the importance of vaccination!"

Jones is thankful for her care and recovery and looks forward to the future. "One of my favorite quotes is from scripture about God's grace being sufficient. I say that every day no matter the situation or what is going on - his grace is sufficient. I'm just glad we are both okay."

Sherry Jones,

COVID-19 ONE TEAM, ONE MISSION



At the department level, an Internal Medicine COVID-19 Task Force, chaired by Vikas Majithia, MD, Division Director of Rheumatology, was assembled that included Drs. Fred Asher, Stephanie Elkins, Tariq Shafi, John Spurzem, and Richard Wardrop. Majithia and his team focused on managing patient censuses, trainee education, cautious use of PPE, critical care integration planning, and renal failure management plans, all the while ensuring balance of the department's educational initiatives with the demands of clinical care.

During the national shutdown, all UMMC elective, non-essential surgeries and procedures were cancelled and all outpatient appointments were rescheduled or transitioned to telehealth visits. The telehealth platform was piloted first by the divisions of Cardiology and Geriatrics. Drs. Trey Clark, Lillian Lien, Tariq Shafi and Kim Tarver provided department personnel with guidance on documentation, billing, and telehealth logistics. The DOM conducted more than 47,000 telehealth visits during fiscal years 2020 and 2021.

During early 2020, all patients at UMMC with COVID-19 were cared for either by the Hospital Medicine Division or in the Medical ICU. During this time, other DOM divisions and services assisted with the increased capacity to offload non-COVID patients from the Hospital Medicine services. Team census caps were raised, faculty and fellows stepped up and took on more inpatient service responsibilities to accommodate the increased load, and residents volunteered to move from a primarily outpatient rotation to services that provided COVID care.

Faculty members in the Infectious Diseases (ID) Division were consulted and followed all patients with COVID-19. They reorganized their inpatient consult services into general ID and a new COVID-ID consult service, with the goal of seeing all symptomatic COVID inpatients. The COVID-ID consult team provided a frontline presence and ensured that UMMC was following best evidence-based practices for treatment of this novel patient population. The Division also established the first telehealth clinic for follow-up of discharged COVID patients.

The Division of Nephrology was consulted on patients with COVID-19 and renal failure. At times, dialysis machines were in short supply due to increased need, and our nephrologists were able to develop and implement processes that allowed for maximum efficiency and use of machines. In order to assist the hospitalists' increased patient load, the Division of General Internal Medicine took over the staffing of medicine consults and the Advanced Practice Provider services from June until September 2020.

As hospitalizations increased, patients with COVID-19 began to be admitted to other DOM services, including the internal medicine teaching teams, geriatrics, cardiology, hematology, and oncology. The internal medicine and medicine-pediatrics residency programs made more than 200 schedule changes in 2020 due to COVID-19. The 2019-2020 and 2020-2021 Medicine Chief Residents were instrumental during this time.

The Division of Hematology and Oncology was able to continue chemotherapy treatments to its patients while streamlining its processes. In order to social distance as much as possible, the Division set up a mobile blood draw tent in a public space within the Jackson Medical Mall and utilized telehealth visits as much as possible. It also provided consultative services to help manage the coagulation and platelet abnormalities often seen with COVID, and worked with others to develop inpatient anticoagulation guidelines for all hospitalized patients with COVID.

COVID-19 **TERRY DOREMUS**



Terry Doremus

"The care I received at UMMC was exceptional and I am sure I would have died had I not been treated by your team." Terry Doremus expresses her appreciation to all who saved her life in August 2020 after becoming critically ill due to COVID 19. See her story below in her own words from a letter she wrote to UMMC's Vice Chancellor, Dr. LouAnn Woodward.

I arrived at UMMC August 8, 2020 by ambulance from my hometown hospital after being diagnosed with COVID-19 on July 28. I was in my hometown hospital from August 4-8 and then was transferred to UMMC CICU as I needed a higher level of care.

The care I received at UMMC was exceptional and I am sure I would have died had I not been treated by your team. My days in CICU aren't completely clear but are clear enough to know that Dr. Andy Wilhelm and Dr. Michael Brewer were intentional, thoughtful, and proactive in treating me. It also helped that my daughter and son-in-law, Drs. Zach and Kelly Pippin, both physicians who recently completed residency at UMMC, knew the critical care team and put me at ease reassuring me I was receiving excellent care. The nurses were attentive, professional, and sensitive to my needs in an environment that put their own health at risk. I will never forget their selflessness.

Dr. Mansel's visits over my time at UMMC were especially "above and beyond the call of duty." He provided a calm and reassuring presence that I needed more than I knew. He read Scripture to me, took notes for my husband as he could not visit due to visitor restrictions, and gave me the feeling of a family member at my side.

After being at UMMC for 26 days, I had encountered many physicians, NP's, Nurses, Assistants, Therapists and others; I could count on one hand the negative experiences but the good far exceeds them. I probably saw Dr. Zack Burns the most. He was very kind, professional, thorough, and honest when he was unsure. He and the August Geriatrics Ward team were attentive and I felt they were addressing my health needs no matter how big or small.

There is a special and unique calling for Nurses, LPN's, CNA's, Assistants and Techs. They do for people of all ages things that others of us would only consider doing for our own children. There is no thank you big enough for them. Latarsha and Pat met the challenge of a malfunctioning bedside potty chair. They cleaned, never complained, and are two champs in my book. LaGeorgianna gave great bed baths. She was gentle, sensitive and sweet.

One of my issues was anxiety and panic attacks due to shortness of breath. I had never experienced fear like this before so this was a foreign sensation for me. I thought I would die because I couldn't breathe. One of the attributes of many of the nurses was to coach and comfort me through these episodes. Oby and Vicki were especially sensitive, helpful and empathetic. Oby would stop in, say hello, and check on me even when I was not her patient.



After being sick for 3 weeks, I was in need of a real hair wash. Three times Aliah, Kayla, Karen, Janna and her assistant accomplished the impossible. They actually shampooed my hair in the bed—with hardly a drop of water on anything but my hair. I will forever be grateful to these Nurse Angels for working "outside the box" to make a 63-year-old just feel better to have clean hair. There are many other stories of your Nursing Staff—too many to list but all of whom I appreciate for their work ethic, genuine care for patients and "patience." After talking with many of them I know some are pursuing new degrees, buying a first home, getting married and having babies.

I have to give a shout-out to Randy, OT. His first day in the room I asked him to climb up and reset my clock which was an hour and 10 minutes off, which was driving me crazy. Without hesitation he fixed it like it was part of his job. He also tidied up my room if it needed it while he was working with me. And Jasmine is a great motivator!

Housekeeping: Ora—always cheerful, pleasant, does a good job and cheered for me if she saw me walking in the hall.

Last and certainly not least—my primary care doctor, Dr. Lyssa Weatherly. There isn't enough room here or enough positive adjectives to describe this special lady. She has been the perfect choice of doctor for my husband and me; recommended to us by our daughter, Kelly Pippin. She looks through our eyes and into our hearts (and health) and not just at us or at a computer screen. She is genuinely concerned about us.

From sweet, bubbly Gladys with 18 years in nursing to Aliah who spent her first solo night of nursing expertly attending me, to medical teams who completed whole month rotations during my time at UMMC, I know God used so many to put me on the road to recovery. I went to rehab in Natchez, Mississippi to get stronger prior to returning home. I will be praying for you all as you continue in your endeavors and pursuits. I also pray that you would love and know Jesus so that when our time is over here, we will see each other again.

Terry Doremus (front) with a few of the physicians who cared for her at UMMC. From left to right: Drs. Zack Burns, Austin Burkenstock, Keith Mansel, Fred Asher, Scott Gibson, and Lyssa Weatherly

Update: September 2021

As I am approaching the one year anniversary of 9-11-2020, my discharge date from Natchez Merit Health, I can tell you I hardly resemble the person I was a year ago. I came home on oxygen which I continued to use until I tapered off sometime in January. I continued outpatient therapy at King's Daughters Therapy Center until December. However, I walk and do exercises at home that I will continue. I was able to experience the birth of our 3rd granddaughter, Amelia Ann Pippin on June 30th which was the absolute highlight of our year!

I continue to have long haul symptoms and remain under the care of my doctors at UMMC. I have scar tissue in both lungs, pressure in my chest, fatigue and brain fog to mention a few symptoms. BUT.... I am SO much better than this time last year and pray that under my doctors' care, I will continue to improve and enjoy my life as a wife, mom, Mimi, daughter, sister, aunt, great aunt, cousin, and business owner!

I am convinced God laid His Hands on the medical teams who cared for me and I am forever grateful. I pray that my witness will be for God's glory.

—Terry C. Doremus

Proverbs 3:5-6 Trust in the Lord with all your heart and do not lean on your own understanding. In all your ways acknowledge Him, and He will direct your path.

COVID-19 VACCINATIONS

UMMC's first round of employee vaccinations began in December 2020. Several DOM faculty members worked volunteer shifts to assist in the Medical Center's employee vaccination effort. UMMC opened a vaccine clinic for patients at the Jackson Medical Mall in January 2021 administering the Pfizer vaccine. As the eligibility criteria broadened, an option for the public to sign up for vaccination was added. The clinic was staffed by UMMC ambulatory operations employees and volunteers and overseen by a scheduled ID attending present daily on site throughout clinic hours. As of September 2021, a total of 15,273 vaccines have been administered to 8,318 patients.

UMMC Vaccination Clinic

Contact your Physician's office for your appointment.





COVID-19 UMMC OPENS **ACUTE RESPIRATORY FIELD CLINIC**

In April 2020, UMMC implemented an acute respiratory field clinic on campus to see and evaluate those who had a non-severe respiratory illness. The clinic opened in UMMC's Parking Garage B and evaluated both adults and children with a respiratory illness. The clinic was equipped with lab and X-ray capability and was staffed by internal medicine, pediatrics, and allergy and immunology physicians and nurse practitioners.

The Acute Respiratory Clinic was led by Marion Wofford, MD, MPH, Professor in the Division of General Internal Medicine; Kim Tarver, MD, Division Director of Geriatrics; Candice Adams, Director of Ambulatory Services for the DOM; and Jessica Bernamonti, Supervisor of the LB Internal Medicine Clinic.

The Acute Respiratory Clinic served to fill several gaps in the care of patients in the community since many clinics were temporarily closed or not able to see patients with acute symptoms. The clinic also alleviated crowding in UMMC's Emergency Department. The clinic was open from April until late June 2020.



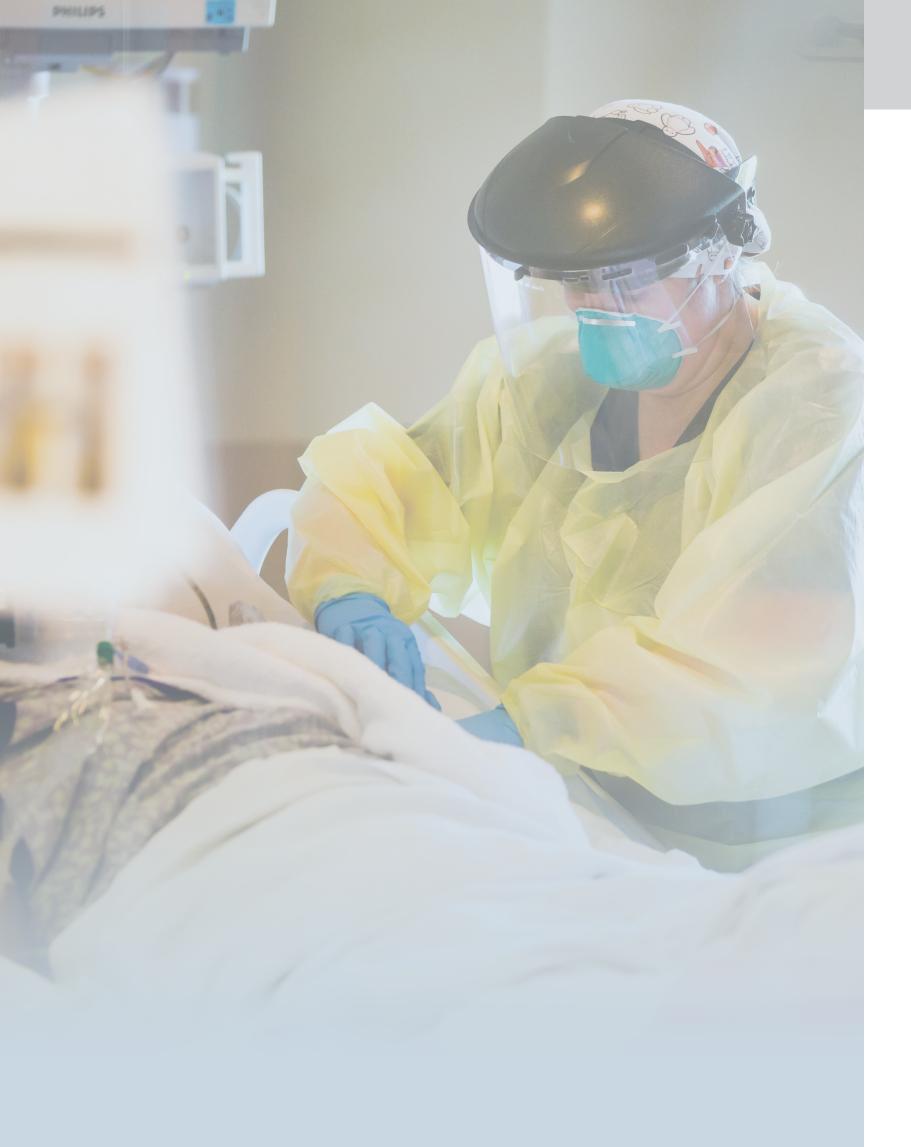
The Department of Medicine took on a major role in clinical trials related to COVID-19. As of December 2020, 19 clinical trials had begun at the institution that involved COVID-19. Gailen Marshall, MD, PhD, Division Director of Allergy, Asthma, and Clinical Immunology and Executive Director of the Mississippi Clinical Research and Trials Center, played a crucial role in this process. "The purpose of clinical trials is to help us prepare so that we can have more knowledge, treat more people quickly, prevent severe disease, and decrease the number of deaths during a future outbreak," said Marshall.



WHAT LIES IN STORE?

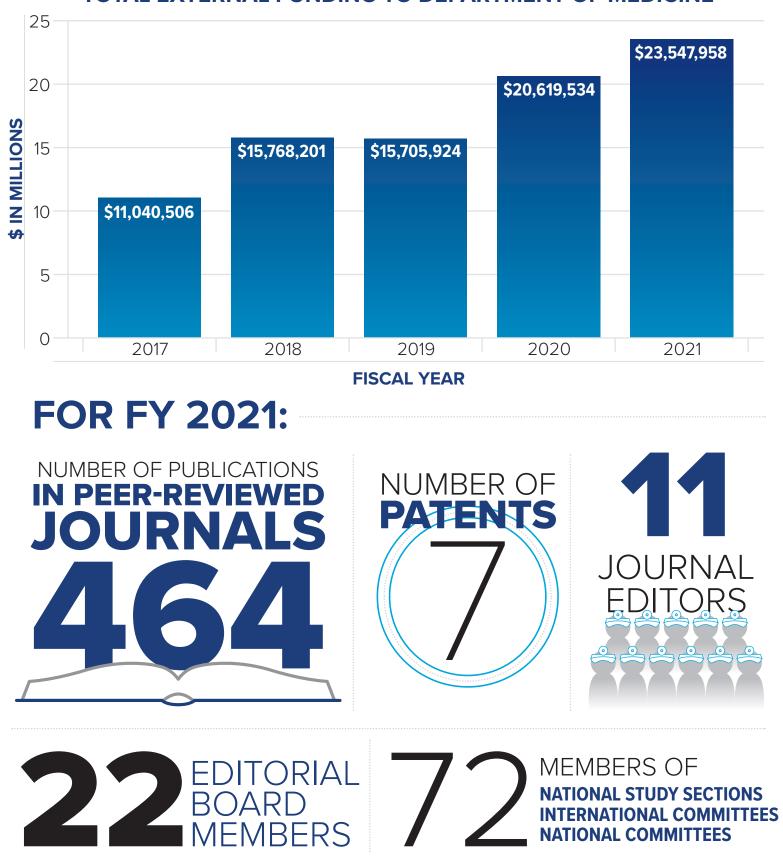
COVID-19 CLINICAL TRIALS

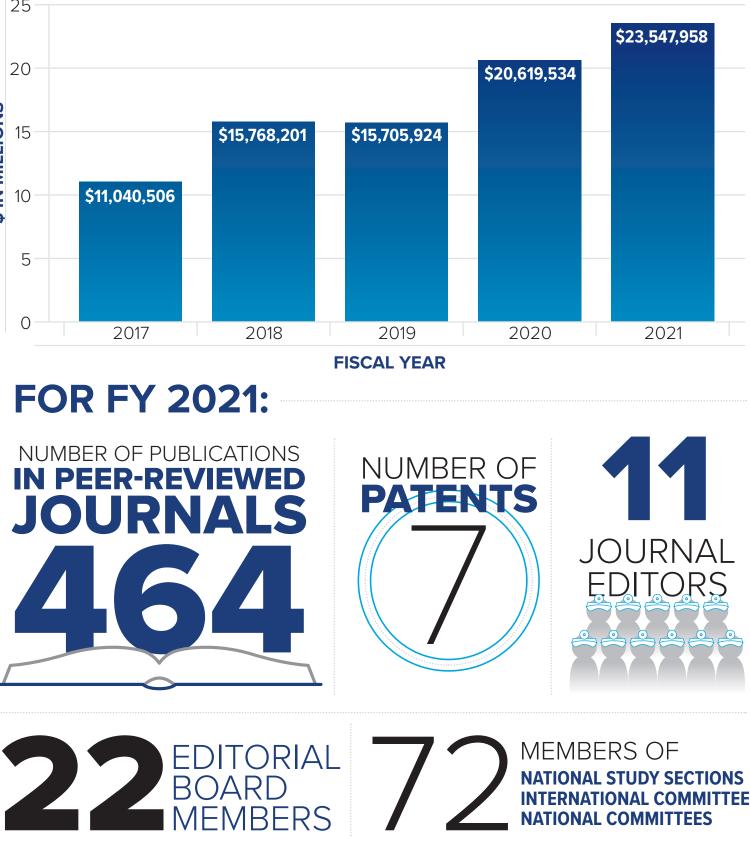
As this article is going to press, the fourth wave of COVID-19 is hitting Mississippi hard. During the month of August 2021, for example, the Mississippi State Department of Health reported more than 87,000 new cases of COVID-19. "The seriousness of this fourth wave cannot be overstated," said Javed Butler, MBBS, MPA, MBA, Chair of the Department of Medicine. "I am so impressed with and grateful to all of our faculty and staff members in how they've rallied to treat COVID-19 since early 2020. And I have every confidence they will continue their excellent work and passionate care as we get through this next wave. I am very proud to be a member of this fantastic team," he said.

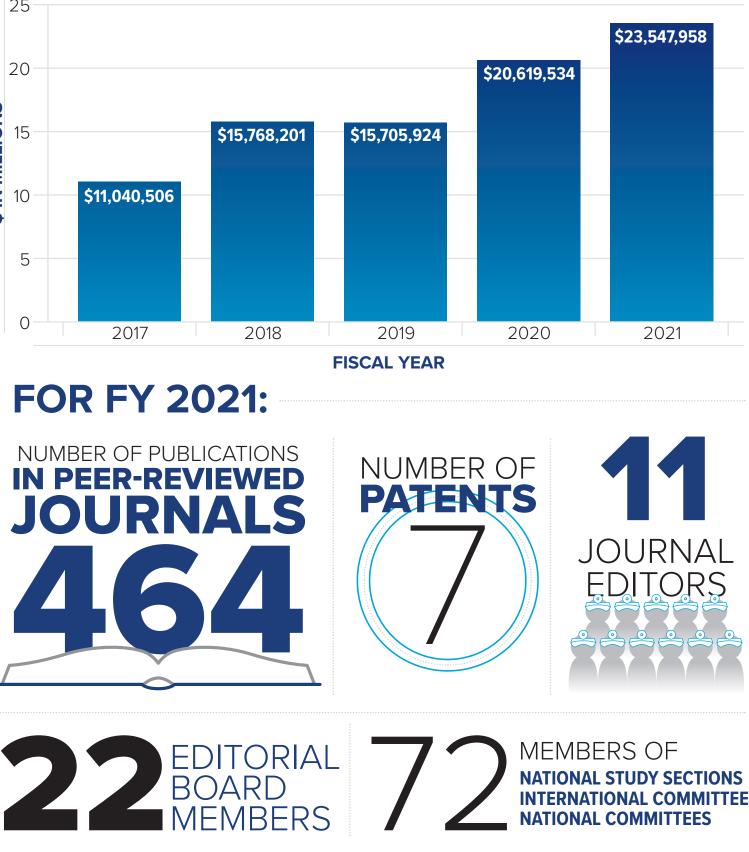


RESEARCH ROUNDUP

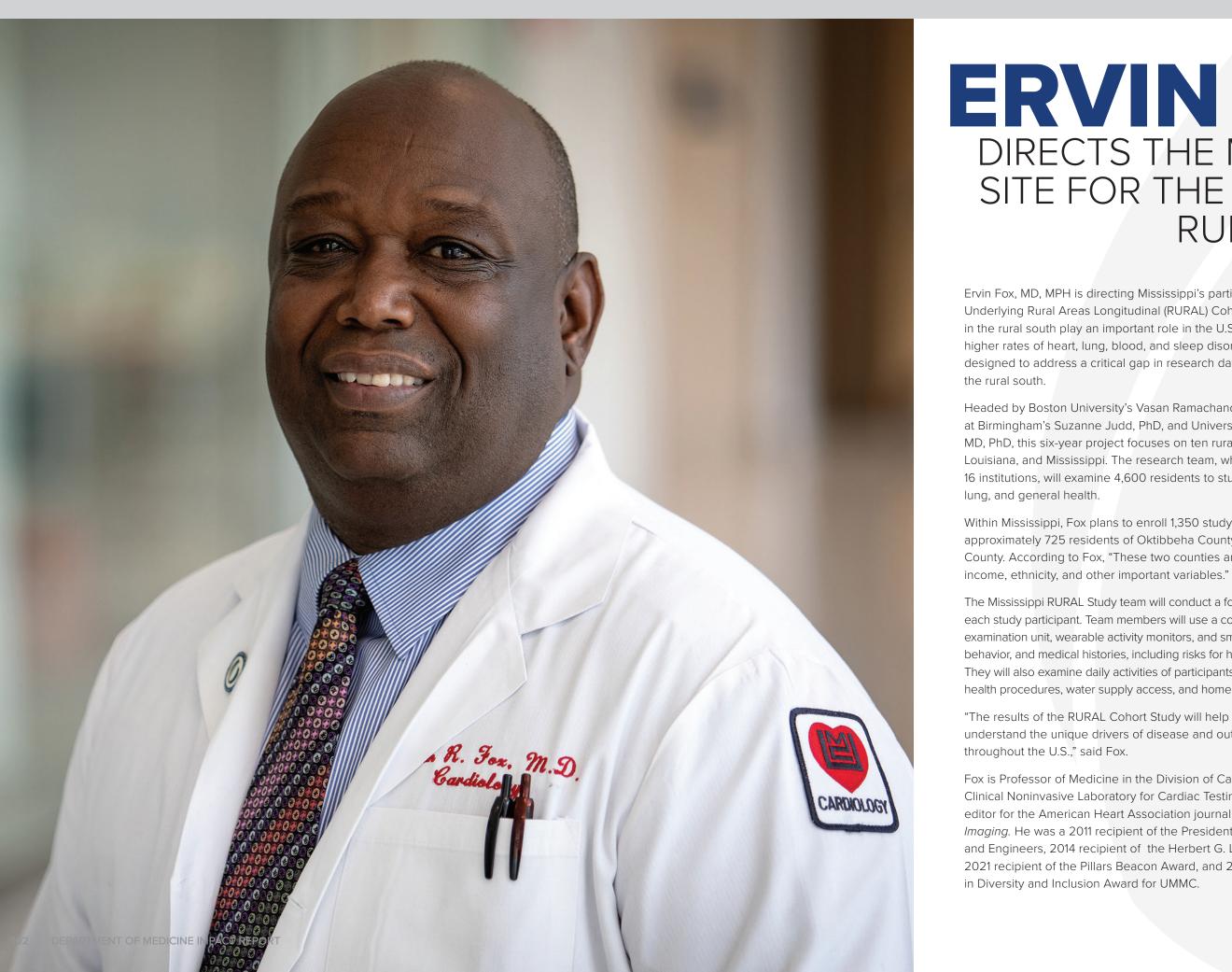
DEPARTMENT OF MEDICINE RESEARCH **BY THE NUMBERS**







TOTAL EXTERNAL FUNDING TO DEPARTMENT OF MEDICINE



ERVIN FOX DIRECTS THE MISSISSIPPI SITE FOR THE MULTI-SITE RURAL STUDY

Ervin Fox, MD, MPH is directing Mississippi's participation in the NHLBI-funded "Risk Underlying Rural Areas Longitudinal (RURAL) Cohort Study." While communities in the rural south play an important role in the U.S. economy, their residents have higher rates of heart, lung, blood, and sleep disorders. The RURAL Cohort Study is designed to address a critical gap in research data regarding the health of people in

Headed by Boston University's Vasan Ramachandran, MD, University of Alabama at Birmingham's Suzanne Judd, PhD, and University of Virginia's Paul Targonski, MD, PhD, this six-year project focuses on ten rural counties in Alabama, Kentucky, Louisiana, and Mississippi. The research team, which includes 50 investigators from 16 institutions, will examine 4,600 residents to study different aspects of their heart,

Within Mississippi, Fox plans to enroll 1,350 study participants by mid-2022: approximately 725 residents of Oktibbeha County and 625 residents of Panola County. According to Fox, "These two counties are well matched in terms of rurality,

The Mississippi RURAL Study team will conduct a four-hour detailed baseline exam of each study participant. Team members will use a combination of tools, such as a mobile examination unit, wearable activity monitors, and smart phones to assess familial, lifestyle, behavior, and medical histories, including risks for heart, lung, blood, and sleep disorders. They will also examine daily activities of participants, such as eating conditions, heart health procedures, water supply access, and home environment.

"The results of the RURAL Cohort Study will help researchers and clinicians better understand the unique drivers of disease and outcomes in rural communities

Fox is Professor of Medicine in the Division of Cardiology and Medical Director of the Clinical Noninvasive Laboratory for Cardiac Testing. He also serves as an associate editor for the American Heart Association journal, Circulation: Cardiovascular Imaging. He was a 2011 recipient of the Presidential Early Career Award for Scientists and Engineers, 2014 recipient of the Herbert G. Langford Research Mentor Award, 2021 recipient of the Pillars Beacon Award, and 2021 recipient of the IHL Excellence

CLINICAL TRIALS INCREASE **BY 35 PERCENT IN FISCAL YEAR 2020**



Dr. Marshall is the R. Faser Triplett Chair of Allergy and Immunology; Professor of Medicine, Pediatrics, Pathology, and Population Health Sciences; Vice Chair for Research in the Department of Medicine; Director of the Division of Allergy, Asthma, and Clinical Immunology; Executive Director of the Mississippi Clinical Research and Trials Center; and Medical Director for UMMC's Clinical Research and Trials Unit.

Gailen Marshall, MD, PhD, who, in addition to the several hats he wears within the Department of Medicine, is Executive Director of the Mississippi Clinical Research and Trials Center, reported a 35 percent increase in the number of clinical trials started during Fiscal Year 2020.

"I am so pleased at the progress we are making with our clinical trials program," said Marshall. "For a relatively new endeavor, we are making great strides."

UMMC's Clinical Research and Trials Unit (CRTU), for which Marshall serves as Medical Director, officially opened in 2019. Located on the seventh floor of University Hospital, the CRTU comprises 22 inpatient/outpatient rooms, a research pharmacy, a sample processing lab, an eight-chair infusion center, encounter rooms, and a conference room.

"During our first year of operation," said Marshall, "We hosted 74 new clinical trials. This past year, that number jumped to 100, and I suspect we'll see a dramatically higher number by the end of this year."

The CRTU is home to clinical research in several specialties, including cardiovascular disease, cancer, neurology, and-most recently-COVID. Marshall's work in particular is exploring the use of convalescent plasma and the potential for anti-inflammatory products as potential treatments for COVID-19. He and colleagues are embarking on a study to better understand post-acute sequelae of having contracted the virus.

JOHN AND MICHAEL HALL CO-AUTHOR **14TH EDITION OF WORLD-RENOWNED PHYSIOLOGY TEXT**

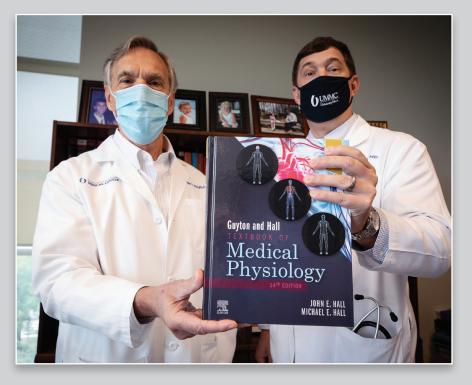
Michael Hall, MD, MS joined forces with his father, John E. Hall, PhD, to co-author the 14th edition of the Guyton and Hall Textbook of Medical Physiology. Published in 2020 by Elsevier, this textbook is widely regarded as the gold standard in the field of medical physiology.

The first eight editions of the textbook were authored by Arthur C. Guyton, PhD, beginning in 1956. Guyton's seminal contributions to our understanding of cardiovascular physiology continue to guide our treatment of hypertension, heart failure, and other types of cardiovascular disorders. John Hall, who chairs UMMC's Department of Physiology and Biophysics, began coauthoring the textbook with Guyton—who died in 2003—beginning with the 9th edition, which was published in 1986.

Michael Hall is an Associate Division Director in UMMC's Division of Cardiovascular Diseases, Associate Vice Chair for Research in the Department of Medicine, and Director of Clinical and Population Studies for the Mississippi Center for Clinical and Translational Research.

With more than 1,200 full-color drawings and diagrams within its 1,100 pages, the *Guyton and* Hall Textbook of Medical Physiology has been translated into 22 languages. Reviews of the 14th edition are excellent. One reader wrote, "The current edition incorporates many of the recent developments in physiology, and still explains all the basics comprehensively and well."

After receiving the textbook, a medical student wrote, "Best physiology text in existence," and then went on to add, "Now I can torture myself."



JACKSON HEART STUDY: **NEW EXAM; NEW DIRECTOR**

JACKSON

The Jackson Heart Study (JHS), which was established in 1998, is the largest study of cardiovascular health among African American adults. Funded by the National Heart, Lung, and Blood Institute and the National Institute on Minority Health and Health Disparities, JHS is a collaboration between the University of Mississippi Medical Center, Jackson State University, Tougaloo College, the Mississippi State Department of Health

Now beginning its fourth exam of cohort members, the JHS also has a new director. April Carson, PhD officially took the reins of the JHS on September 20, 2021. Prior to her appointment at UMMC, Carson was a faculty member at the University of Alabama at Birmingham's School of Public Health as Associate Professor of Epidemiology and Associate Dean for Diversity, Equity, and Inclusion.

Carson brings to this role a wealth of experience. Her research focuses on health disparities in cardiovascular disease and diabetes. She has been involved with several large observational cohort studies and has published on a range of social, clinical, and lifestyle factors related to the occurrence of disease in disadvantaged populations.

As co-investigator of the CARDIA (Coronary Artery Risk Development in Young Adults) Study, Carson evaluated the performance of cardiovascular disease risk prediction models and the role of glycemic markers in the development of microvascular and macrovascular disease.

Noting that she was honored to accept the role of JHS Director, Carson added, "While I am quite familiar with JHS and its long, rich history, I am excited to now become a part of the Jackson community and join the outstanding JHS staff members and partner institutions to build upon this storied foundation."

Commencement of Exam 4 of the JHS was postponed from its originally planned start date because of COVID-19. The exam will include an echocardiogram, and electrocardiogram, blood and urine samples, and surveys to determine family and medical history, food intake, and brain health. JHS expects to administer the fourth exam to approximately 2,000 members of the JHS cohort.

THE GLOVER RESEARCH LAB



Yilianys Pride, Haley Williams, Dr. Tanya Robinson, Dr. Anna Owings, Hannah Laird, Taylor Christian, and Dr. Sarah Glover

Sarah Glover, DO joined the UMMC faculty in January 2019 as Director of the Division of Digestive Diseases. An active NIH and industry-funded researcher, Glover wasted no time in establishing her own research lab and fostering the establishment of a state-of-the-art flow cytometry core at UMMC.

Glover's laboratory focuses on innate immune mechanisms of gut inflammation and COVID-19 immune responses in the nasal and oral mucosa. Her work in gut inflammation has focused on inflammatory bowel disease (IBD) and hereditary alpha tryptasemia. She and her team have been increasingly focused on improving understanding of the disease mechanism and treatment for African Americans with IBD. In collaboration with the UMMC revenue cycle office and NIH, Glover got an ICD-10 code approved for hereditary alpha tryptasemia.

In addition to three other peer-reviewed papers, she and the six members of her lab also recently co-authored an article published in the journal *Cell*, "Impaired Local Intrinsic Immunity to SARS-CoV-2 Infection in Severe COVID-19." The article was the result of collaborations with researchers from the Ragon Institute of MGH, MIT, and Harvard; the Broad Institute of MIT and Harvard; Boston Children's Hospital; and MIT. Additional authors from the Department of Medicine include Drs. Mohammad Hassan and Adam Parker (Division of Digestive Diseases); Drs. George Abraham, Michal Senitko, Campbell B. Sindell, and Meredith Sloan (Division of Pulmonary Medicine). The research team is working on a follow-up study to compare their initial findings to patients with either the COVID-19 Delta variant or who are experiencing breakthrough infections after having had been vaccinated.

This team also recently received funding for two projects from the Chan Zuckerberg Initiative (CZI) Pediatric Networks for the Human Cell Atlas. The first is focused on understanding normal mucosal immunology in the nose and mouth in children. Glover will serve as the site PI for this project in collaboration with Drs. Justin Davis (pediatric ED) and Laura Saxton-Wright (PICU). The second seeks to understand how the pediatric gut immunity is influenced by environmental factors. Dr. Phyllis Bishop (pediatric GI) will serve as site PI.

RESEARCH

PUBLICATIONS

DEPARTMENT OF MEDICINE **JOURNAL PUBLICATIONS**

JANUARY 1, 2019 TO DECEMBER 31, 2020

Abdellatif W, Ding J, Jalal S, Chopra S, Butler J, Ali IT, Shah S, Khosa F. Leadership gender disparity within research-intensive medical schools: a transcontinental thematic analysis. J Contin Educ Health Prof. 2019 Fall;39(4):243-250. doi: 10.1097/CEH.000000000000270. PMID: 31633570.

Abudurexiti A, Adkins S, Alioto D, Alkhovsky SV, Avšič-Županc T, Ballinger MJ, Bente DA, Beer M, Bergeron É, Blair CD, Briese T, Buchmeier MJ, Burt FJ, Calisher CH, Cháng C, Charrel RN, Choi IR, Clegg JCS, de la Torre JC, de Lamballerie X, Dèng F, Di Serio F, Digiaro M, Drebot MA, Duàn X, Ebihara H, Elbeaino T, Ergünay K, Fulhorst CF, Garrison AR, Gão GF. Gonzalez JJ. Groschup MH. Günther S. Haenni AL. Hall RA. Hepoioki J. Hewson R. Hú Z, Hughes HR, Jonson MG, Junglen S, Klempa B, Klingström J, Kòu C, Laenen L, Lambert AJ, Langevin SA, Liu D, Lukashevich IS, Luò T, Lǚ C, Maes P, de Souza WM, Marklewitz M, Martelli GP, Matsuno K, Mielke-Ehret N, Minutolo M, Mirazimi A, Moming A, Mühlbach HP, Naidu R, Navarro B, Nunes MRT, Palacios G, Papa A, Pauvolid-Corrêa A, Pawęska JT, Qiáo J, Radoshitzky SR, Resende RO, Romanowski V, Sall AA, Salvato MS, Sasaya T, Shěn S, Shí X, Shirako Y, Simmonds P, Sironi M, Song JW, Spengler JR, Stenglein MD, Sū Z, Sūn S, Táng S, Turina M, Wáng B, Wáng C, Wáng H, Wáng J, Wèi T, Whitfield AE, Zerbini FM, Zhāng J, Zhāng L, Zhāng Y, Zhang YZ, Zhāng Y, Zhou X, Zhū L, Kuhn JH. Taxonomy of the order Bunyavirales: update 2019. Arch Virol. 2019 Jul;164(7):1949-1965. doi: 10.1007/s00705-019-04253-6. PMID: 31065850; PMCID: PMC6641860.

Adcock CS. Puneky LV. Campbell GS. Favorable response of metastatic hepatocellular carcinoma to treatment with trans-arterial radioembolization followed by Sorafenib and Nivolumab. Cureus. 2019 Feb 16;11(2):e4083. doi: 10.7759/cureus.4083. PMID: 31019861; PMCID: PMC6467433

Adeosun SO, Hou X, Shi L, Stockmeier CA, Zheng B, Raffai RL, Weisgraber KH, Mosley **TH**, Wang JM. Female mice with apolipoprotein E4 domain interaction demonstrated impairments in spatial learning and memory performance and disruption of hippocampal cyto-architecture. Neurobiol Learn Mem. 2019 May;161:106-114. doi: 10.1016/j.nlm.2019.03.012. PMID: 30954674: PMCID: PMC6628694.

Alam AB, Lutsev PL, Gottesman RF, Tin A, Alonso A, Low serum magnesium is associated with incident dementia in the ARIC-NCS cohort. Nutrients. 2020 Oct 9;12(10):3074. doi: 10.3390/nu12103074. PMID: 33050118; PMCID: PMC7600951.

Ambrosv AP, Lewis GD, Malhotra R, Jones AD, Greene SJ, Fudim M, Coles A, Butler J. Sharma A, Hernandez AF, Mentz RJ. Identifying responders to oral iron supplementation in heart failure with a reduced ejection fraction; a post-hoc analysis of the IRO-NOUT-HF trial. J Cardiovasc Med (Hagerstown). 2019 Apr;20(4):223-225. doi: 10.2459/ JCM.000000000000736. PMID: 30540649.

Anand IS, Konstam MA, Klein HU, Mann DL, Ardell JL, Gregory DD, Massaro JM, Libbus I, DiCarlo LA, Udelson JJE, Butler J, Parker JD, Teerlink JR. Comparison of symptomatic and functional responses to vagus nerve stimulation in ANTHEM-HF, INOVATE-HF, and NECTAR-HF. ESC Heart Fail. 2020 Feb;7(1):75-83. doi: 10.1002/ehf2.12592. PMID: 31984682; PMCID: PMC7083506

Anker MS, Landmesser U, von Haehling S, **Butler J,** Coats AJS, Anker SD. Weight loss, malnutrition and cachexia in COVID-19: facts and numbers. I Cachexia Sarcopenia Muscle 2021 Feb;12(1):9-13. doi: 10.1002/jcsm.12674. PMID: 33382211; PMCID: PMC7890265.

Anker MS, Butler J, Anker SD. Liraglutide for adolescents with obesity. N Engl J Med. 2020 Sep 17:383(12):1192. doi: 10.1056/NEJMc2023284. PMID: 32937055.

Anker MS, Butler J, Anker SD. Roxadustat for anemia in patients with chronic kidney disease. N Engl J Med. 2020 Jul 2;383(1):e3. doi: 10.1056/NEJMc1913712. PMID: 32609998.

Anker SD, Butler J, Filippatos GS, Jamal W, Salsali A, Schnee J, Kimura K, Zeller C, George J, Brueckmann M, Zannad F, Packer M; EMPEROR-Preserved Trial Committees and Investigators. Evaluation of the effects of sodium-glucose co-transporter 2 inhibition with empagliflozin on morbidity and mortality in patients with chronic heart failure and a preserved ejection fraction: rationale for and design of the EMPEROR-Preserved Trial. Eur J Heart Fail. 2019 Oct 21(10):1279-1287 doi: 10.1002/eihf1596 PMID: 31523904

Anker SD, Butler J, Filippatos G, Khan MS, Marx N, Lam CSP, Schnaidt S, Ofstad AP, Brueckmann M, Jamal W, Bocchi EA, Ponikowski P, Perrone SV, Januzzi JL, Verma S, Böhm M Ferreira IP Pocock SJ Zannad F Packer M Effect of Empagliflozin on cardiovascular and renal outcomes in patients with heart failure by baseline diabetes status: results from the EMPEROR-Reduced trial. Circulation. 2021 Jan 26;143(4):337-349. doi: 10.1161/CIRCULATION-AHA.120.051824. PMID: 33175585; PMCID: PMC7834911.

Anker SD, Butler J, Filippatos G, Shahzeb Khan M, Ferreira JP, Bocchi E, Böhm M, Brunner-La Rocca HP, Choi DJ, Chopra V, Chuquiure E, Giannetti N, Gomez-Mesa JE, Janssens S, Januzzi JL, Gonzalez-Juanatey JR, Merkely B, Nicholls SJ, Perrone SV, Piña IL, Ponikowski P, Senni M. Seronde MF. Sim D. Spinar, J. Squire J. Taddei, S. Tsutsui, H. Verma, S. Vinereanu, D. Zhang J, Jamal W, Schnaidt S, Schnee JM, Brueckmann M, Pocock SJ, Zannad F, Packer M; EMPEROR-Preserved Trial Committees and Investigators. Baseline characteristics of patients with heart failure with preserved ejection fraction in the EMPEROR-Preserved trial. Eur J Heart Fail. 2020 Dec:22(12):2383-2392. doi: 10.1002/eihf.2064. PMID: 33251670.

Anker SD, Butler J, Khan MS, Abraham WT, Bauersachs J, Bocchi E, Bozkurt B, Braunwald E, Chopra VK, Cleland JG, Ezekowitz J, Filippatos G, Friede T, Hernandez AF, Lam CSP, Lindenfeld J, McMurray JJV, Mehra M, Metra M, Packer M, Pieske B, Pocock SJ, Ponikowski P, Rosano GMC, Teerlink JR, Tsutsui H, Van Veldhuisen DJ, Verma S, Voors AA, Wittes J, Zannad F. Zhang J. Seferovic P. Coats AJS. Conducting clinical trials in heart failure during (and after) the COVID-19 pandemic: an expert consensus position paper from the Heart Failure Association (HFA) of the European Society of Cardiology (ESC). Eur Heart J. 2020 Jun 7;41(22):2109-2117. doi: 10.1093/eurheartj/ehaa461. Erratum in: Eur Heart J. 2021 May 7;42(18):1810. PMID: 32498081: PMCID: PMC7314099.

Antohi EL, Ambrosy AP, Collins SP, Ahmed A, Iliescu VA, Cotter G, Pang PS, Butler J, Chioncel O. Therapeutic advances in the management of acute decompensated heart failure. Am J Ther. 2019 Mar/Apr;26(2):e222-e233. doi: 10.1097/MJT.00000000000919. PMID: 30839371: PMCID: PMC6404761.

Apostolopoulou A, Esquer Garrigos Z, Vijayvargiya P, Lerner AH, Farmakiotis D. Invasive pulmonary aspergillosis in patients with SARS-CoV-2 infection: a systematic review of the literature. Diagnostics (Basel). 2020 Oct 10;10(10):807. doi: 10.3390/diagnostics10100807. PMID: 33050499; PMCID: PMC7600775.

Armstrong PW, Lam CSP, Anstrom KJ, Ezekowitz J, Hernandez AF, O'Connor CM, Pieske B. Ponikowski P. Shah S.J. Solomon SD. Voors AA. She L. Vlainic V. Carvalho F. Bamber L. Blaustein RO, Roessig L, Butler J; VITALITY-HFpEF Study Group. Effect of Vericiguat vs placebo on quality of life in patients with heart failure and preserved ejection fraction: the VITALITY-HFpEF randomized clinical trial. JAMA. 2020 Oct 20;324(15):1512-1521. doi: 10.1001/ jama.2020.15922. Erratum in: JAMA. 2021 Feb 2;325(5):494. PMID: 33079152; PMCID: PMC7576403.

Armstrong PW, Pieske B, Anstrom KJ, Ezekowitz J, Hernandez AF, Butler J, Lam CSP, Ponikowski P, Voors AA, Jia G, McNulty SE, Patel MJ, Roessig L, Koglin J, O'Connor CM; VICTORIA Study Group. Vericiguat in patients with heart failure and reduced ejection fraction. N Engl J Med. 2020 May 14;382(20):1883-1893. doi: 10.1056/NEJMoa1915928. PMID: 32222134.

Arora S, Matthew A, Cavender MA, Chang PP, Qamar A, Rosamond WD, Hall ME, Rossi JS, Kaul P, Caughey MC. Outcomes of decreasing versus increasing cardiac troponin in patients admitted with non-ST-segment elevation myocardial infarction: the Atherosclerosis Risk in Communities Surveillance Study. Eur Heart J Acute Cardiovasc Care. 2019 Apr 8. PMCID: PMC6854299.

Anstey DE, Tanner RM, Booth JN 3rd, Bress AP, Diaz KM, Sims M, Ogedegbe G, Muntner P, Abdalla M. Inappropriate left ventricular mass and cardiovascular disease events and mortality in Blacks: the Jackson Heart Study. J Am Heart Assoc. 2019 Aug 20;8(16):e011897. doi: 10.1161/JAHA.118.011897. PMID: 31407619; PMCID: PMC6759894.

Bajaj NS, Vaduganathan M, Qamar A, Gupta K, Gupta A, Golwala H, Butler J, Goldhaber SZ, Mehra MR. Extended prophylaxis for venous thromboembolism after hospitalization for medical illness; A trial sequential and cumulative meta-analysis, PLoS Med. 2019. Apr 29;16(4):e1002797. doi: 10.1371/journal.pmed.1002797. PMID: 31034476; PMCID: PMC6488047.

Bakrania BA, Hall ME, Shahul S, Granger JP. The Reduced Uterine Perfusion Pressure (RUPP) rat model of preeclampsia exhibits impaired systolic function and global longitudinal strain during pregnancy. Pregnancy Hypertens. 2019 Oct; 18: 169–172. PMCID: PMC7063592

Bane O, Mendichovszky IA, Milani B, Dekkers IA, Deux JF, Eckerbom P, Grenier N, Hall ME, Inoue T, Laustsen C, Lerman LO, Liu C, Morrell G, Pedersen M, Pruijm M, Sadowski EA, Seeliger E, Sharma K, Thoeny H, Vermathen P, Wang ZJ, Serafin Z, Zhang JL, Francis ST, Sourbron S, Pohlmann A, Fain SB, Prasad PV. Consensus-based technical recommendations for clinical translation of renal BOLD MRI. MAGMA. 2020 Feb;33(1):199-215. doi: 10.1007/ s10334-019-00802-x, PMID: 31768797; PMCID: PMC7021747.

Barata L, Feitosa MF, Bielak LF, Halligan B, Baldridge AS, Guo X, Yerges-Armstrong LM, Smith AV, Yao J, Palmer ND, VanWagner LB, Carr JJ, Chen YI, Allison M, Budoff MJ, Handelman SK, Kardia SLR, Mosley TH Jr, Ryan K, Harris TB, Launer LJ, Gudnason V, Rotter JI, Fornage M, Rasmussen-Torvik LJ, Borecki IB, O'Connell JR, Peyser PA, Speliotes EK, Province MA. Insulin resistance exacerbates genetic predisposition to nonalcoholic fatty liver disease in individuals without diabetes. Hepatol Commun. 2019 Apr 18;3(7):894-907. doi: 10.1002/ hep4.1353, PMID: 31334442; PMCID: PMC6601321,

Barutaut M, Fournier P, Peacock WF, Evaristi MF, Caubère C, Turkieh A, Desmoulin F, Eurlings LWM, van Wijk S, Rocca HB, Butler J, Koukoui F, Dambrin C, Mazeres S, Le Page S, Delmas C, Galinier M, Jung C, Smih F, Rouet P. Insulin-like Growth Factor Binding Protein 2 predicts mortality risk in heart failure. Int J Cardiol. 2020 Feb 1;300:245-251. doi: 10.1016/j. iicard 2019 09 032 PMID: 31806281

Bello Segura M, Subauste J. MON-502 It's not always osteoporosis: FGF-23 induced osteomalacia. J Endocr Soc. 2019 Apr 30;3(Suppl 1):MON-502. doi: 10.1210/js.2019-MON-502. PMCID: PMC6550658

Bentley AR, Sung YJ, Brown MR, Winkler TW, Kraja AT, Ntalla I, Schwander K, Chasman DI, Lim E. Deng X. Guo X. Liu J. Lu Y. Cheng CY. Sim X. Vojinovic D. Huffman JE. Musani SK. Li C. Feitosa MF, Richard MA, Noordam R, Baker J, Chen G, Aschard H, Bartz TM, Ding J, Dorajoo R, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Zhao W, Graff M, Alver M, Boissel M, Chai JF, Chen X, Divers J, Evangelou E, Gao C, Goel A, Hagemeijer Y, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC, Hung YJ, Jackson AU, Kasturiratne A, Komulainen P, Kühnel B, Leander K, Lin KH, Luan J, Lyytikäinen LP, Matoba N, Nolte IM, Pietzner M, Prins B, Riaz M, Robino A, Said MA, Schupf N, Scott RA, Sofer T, Stancáková A, Takeuchi F, Tayo BO, van der Most PJ, Varga TV, Wang TD, Wang Y, Ware EB, Wen W, Xiang YB, Yanek LR, Zhang W, Zhao JH, Adeyemo A, Afaq S, Amin N, Amini M, Arking DE, Arzumanyan Z, Aung T, Ballantyne C, Barr RG, Bielak LF, Boerwinkle E, Bottinger EP, Broeckel U, Brown M, Cade BE, Campbell A, Canouil M, Charumathi S, Chen YI, Christensen K: COGENT-Kidney Consortium, Concas MP, Connell JM, de Las Fuentes L, de Silva HJ, de Vries PS, Doumatey A, Duan Q, Eaton CB, Eppinga RN, Faul JD, Floyd JS, Forouhi NG, Forrester T, Friedlander Y, Gandin I, Gao H, Ghanbari M, Gharib SA, Gigante B, Giulianini F, Grabe HJ, Gu CC, Harris TB, Heikkinen S, Heng CK, Hirata M, Hixson JE, Ikram MA; EPIC-InterAct Consortium, Jia Y, Joehanes R, Johnson C, Jonas JB, Justice AE, Katsuya T, Khor CC, Kilpeläinen TO, Koh WP, Kolcic I, Kooperberg C, Krieger JE, Kritchevsky SB, Kubo M, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lewis CE, Li Y, Liang J, Lin S, Liu CT, Liu J, Liu K, Loh M, Lohman KK, Louie T, Luzzi A, Mägi R, Mahajan A, Manichaikul AW, McKenzie CA, Meitinger T, Metspalu A. Milaneschi Y. Milani L. Mohlke KL. Momozawa Y. Morris AP. Murray AD. Nalls MA. Nauck M, Nelson CP, North KE, O'Connell JR, Palmer ND, Papanicolau GJ, Pedersen NL, Peters A, Peyser PA, Polasek O, Poulter N, Raitakari OT, Reiner AP, Renström F, Rice TK, Rich SS, Robinson IG Rose LM Rosendaal FR Rudan L Schmidt CO Schreiner PL Scott WR Sever P Shi Y Sidney S, Sims M, Smith JA, Snieder H, Starr JM, Strauch K, Stringham HM, Tan NYQ, Tang H, Taylor KD, Teo YY, Tham YC, Tiemeier H, Turner ST, Uitterlinden AG; Understanding Society Scientific Group, van Heemst D, Waldenberger M, Wang H, Wang L, Wang L, Wei WB, Williams CA, Wilson G Sr, Wojczynski MK, Yao J, Young K, Yu C, Yuan JM, Zhou J, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Cooper RS, de Faire U, Deary IJ, Elliott P, Esko T, Farrall M, Franks PW, Freedman BI, Froquel P, Gasparini P, Gieger C, Horta BL, Juang JJ, Kamatani Y, Kammerer CM, Kato N, Kooner JS, Laakso M, Laurie CC, Lee IT, Lehtimäki T; Lifelines Cohort, Magnusson PKE, Oldehinkel AJ, Penninx BWJH, Pereira AC, Rauramaa R, Redline S, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wang JS, Wang YX, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Wu T, Zeggini E, Zheng W, Bouchard C, Evans MK, Gudnason V, Kardia SLR, Liu Y, Psaty BM, Ridker PM, van Dam RM, Mook-Kanamori DO, Fornage M, Province MA, Kelly TN. Fox ER. Hayward C. van Dujin CM. Taj ES. Wong TY. Loos RJF. Franceschini N. Rotter JI. Zhu X, Bierut LJ, Gauderman WJ, Rice K, Munroe PB, Morrison AC, Rao DC, Rotimi CN, Cupples LA. Multi-ancestry genome-wide gene-smoking interaction study of 387,272 individuals identifies new loci associated with serum lipids. Nat Genet. 2019 Apr;51(4):636-648. doi: 10.1038/s41588-019-0378-v, PMID: 30926973; PMCID: PMC6467258.

Berman JP, Norby FL, Mosley T, Soliman EZ, Gottesman RF, Lutsey PL, Alonso A, Chen LY. Atrial fibrillation and brain magnetic resonance imaging abnormalities. Stroke. 2019 Apr;50(4):783-788. doi: 10.1161/STROKEAHA.118.024143. PMID: 30908155; PMCID: PMC6662638

Bhagat AA, Greene SJ, Vaduganathan M, Fonarow GC, Butler J. Initiation, continuation, switching, and withdrawal of heart failure medical therapies during hospitalization. JACC Heart Fail. 2019 Jan;7(1):1-12. doi: 10.1016/j.jchf.2018.06.011. PMID: 30414818; PMCID: PMC8053043

Bhatt AS, Abraham WT, Lindenfeld J, Bristow M, Carson PE, Felker GM, Fonarow GC, Greene SJ, Psotka MA, Solomon SD, Stockbridge N, Teerlink JR, Vaduganathan M, Wittes J, Fiuzat M, O'Connor CM, Butler J. Treatment of HF in an era of multiple therapies: statement from the HF collaboratory. JACC Heart Fail. 2021 Jan;9(1):1-12. doi: 10.1016/j.jchf.2020.10.014. Epub 2020 Dec 9. PMID: 33309582.

Bhatt AS, Ambrosy AP, Dunning A, DeVore AD, Butler J, Reed S, Voors A, Starling R, Armstrong PW, Ezekowitz JA, Metra M, Hernandez AF, O'Connor CM, Mentz RJ. The burden of non-cardiac comorbidities and association with clinical outcomes in an acute heart failure trial - insights from ASCEND-HF. Eur J Heart Fail. 2020 Jun;22(6):1022-1031. doi: 10.1002/ ejhf.1795. PMID: 32212297; PMCID: PMC7394726.

Bhatt AS, Moscone A, McElrath EE, Varshney AS, Claggett BL, Bhatt DL, Januzzi JL, Butler J, Adler DS, Solomon SD, Vaduganathan M. Fewer hospitalizations for acute cardiovascular conditions during the COVID-19 pandemic. J Am Coll Cardiol. 2020 Jul 21;76(3):280-288. doi: 10.1016/i.jacc.2020.05.038. PMID: 32470516: PMCID: PMC7250561

Bhatt AS, Vaduganathan M, Butler J. Angiotensin-neprilysin inhibition in de novo heart failure - starting off strong. Eur J Heart Fail. 2020 Feb;22(2):313-314. doi: 10.1002/ejhf.1675. PMID: 31840351

Bhatt AS, Vaduganathan M, Butler J. Growing mismatch between evidence generation and implementation in heart failure. Am J Med. 2020 May;133(5):525-527. doi: 10.1016/j. amimed.2019.11.032. PMID: 31958429.

Bhatt AS, Vaduganathan M, Patel RB, Fonarow GC, Subacius HP, Konstam MA, Zannad F, Butler J, Greene SJ. Post-discharge haemodilution, congestion, and clinical outcomes among patients hospitalized for heart failure with reduced ejection fraction; results from the EVEREST trial. Eur J Heart Fail. 2020 Jan;22(1):164-167. doi: 10.1002/ejhf.1651. PMID: 31797490; PMCID: PMC6995413.

Blumer V, Greene SJ, Sun JL, Bart BA, Ambrosy AP, Butler J, DeVore AD, Fudim M, Hernandez AF, McNulty SE, Felker GM, Mentz RJ. Haemoconcentration during treatment of acute heart failure with cardiorenal syndrome: from the CARRESS-HF trial. Eur J Heart Fail. 2019 Nov;21(11):1472-1476. doi: 10.1002/ejhf.1592. PMID: 31452311.

Boehmer TK, DeVies J, Caruso E, van Santen KL, Tang S, Black CL, Hartnett KP, Kite-Powell A, Dietz S, Lozier M, Gundlapalli AV. Changing age distribution of the COVID-19 pandemic - United States, May-August 2020. MMWR Morb Mortal Wkly Rep. 2020 Oct 2;69(39):1404-1409. doi: 10.15585/mmwr.mm6939e1. PMID: 33001872; PMCID: PMC7537561.

Booth JN 3rd, Jaeger BC, Huang L, Abdalla M, Sims M, Butler M, Muntner P, Shimbo D. Morning blood pressure surge and cardiovascular disease events and all-cause mortality in Blacks: the Jackson Heart Study. Hypertension. 2020 Mar;75(3):835-843. doi: 10.1161/HYPER-TENSIONAHA.119.14233. PMID: 32008430; PMCID: PMC7035156.

Bounthavong M, Butler J, Dolan CM, Dunn JD, Fisher KA, Oestreicher N, Pitt B, Hauptman PJ, Veenstra DL. Correction to: Cost-effectiveness analysis of Patiromer and spironolactone therapy in heart failure patients with hyperkalemia. Pharmacoeconomics. 2019 Aug;37(8):1071. doi: 10.1007/s40273-019-00809-1. Erratum for: Pharmacoeconomics. 2018 Dec;36(12):1463-1473. PMID: 31089966; PMCID: PMC6830401.

Bousquet JJ, Schünemann HJ, Togias A, Erhola M, Hellings PW, Zuberbier T, Agache I, Ansotegui IJ, Anto JM, Bachert C, Becker S, Bedolla-Barajas M, Bewick M, Bosnic-Anticevich S, Bosse I, Boulet LP, Bourrez JM, Brusselle G, Chavannes N, Costa E, Cruz AA, Czarlewski W, Fokkens WJ, Fonseca JA, Gaga M, Haahtela T, Illario M, Klimek L, Kuna P, Kvedariene V, Le LTT, Larenas-Linnemann D, Laune D, Lourenço OM, Menditto E, Mullol J, Okamoto Y, Papadopoulos N, Pham-Thi N Picard R Pinnock H Roche N Roller-Wirnsberger RF Rolland C Samolinski B Sheikh A, Toppila-Salmi S, Tsiligianni I, Valiulis A, Valovirta E, Vasankari T, Ventura MT, Walker S, Williams S, Akdis CA, Annesi-Maesano I, Arnavielhe S, Basagana X, Bateman E, Bedbrook A, Bennoor KS, Benveniste S, Bergmann KC, Bialek S, Billo N, Bindslev-Jensen C, Bjermer L, Blain H, Bonini M, Bonniaud P, Bouchard J, Briedis V, Brightling CE, Brozek J, Buhl R, Buonaiuto R, Canonica GW, Cardona V, Carriazo AM, Carr W, Cartier C, Casale T, Cecchi L, Cepeda Sarabia AM, Chkhartishvili E. Chu DK, Cingi C, Colgan E, de Sousa JC, Courbis AL, Custovic A, Cvetkosyki B, D'Amato G, da Silva J, Dantas C, Dokic D, Dauvilliers Y, Dedeu A, De Feo G, Devillier P, Di Capua S, Dykewickz M, Dubakiene R, Ebisawa M, El-Gamal Y, Eller E, Emuzyte R, Farrell J, Fink-Wagner A, Fiocchi A, Fontaine JE Gemicioălu B. Schmid-Grendelmeir P. Gamkrelidze A. Garcia-Avmerich J. Gomez M. González Diaz S, Gotua M, Guldemond NA, Guzmán MA, Hajjam J, O'B Hourihane J, Humbert M, laccarino G, lerodiakonou D, Illario M, Ivancevich JC, Joos G, Jung KS, Jutel M, Kaidashev I, Kalavci O, Kardas P, Keil T, Khaitov M, Khaltaev N, Kleine-Tebbe J, Kowalski ML, Kritikos V, Kull L Leonardini L, Lieberman P, Lipworth B, Lodrup Carlsen KC, Loureiro CC, Louis R, Mair A, Marien G, Mahboub B, Malva J, Manning P, De Manuel Keenoy E, Marshall GD, Masjedi MR, Maspero IF Mathieu-Dupas F Matricardi PM Melén F Melo-Gomes F Meltzer FO Menditto F Mercier J, Miculinic N, Mihaltan F, Milenkovic B, Moda G, Mogica-Martinez MD, Mohammad Y, Montefort S, Monti R, Morais-Almeida M, Mösges R, Münter L, Muraro A, Murray R, Naclerio R, Napoli L, Namazova-Baranova L, Neffen H, Nekam K, Neou A, Novellino E, Nyembue D, O'Hehir R, Ohta K, Okubo K, Onorato G, Ouedraogo S, Pali-Schöll I, Palkonen S, Panzner P, Park HS, Pépin JL, Pereira AM, Pfaar O, Paulino E, Phillips J, Picard R, Plavec D, Popov TA, Portejoie F, Price D, Prokopakis FP, Pugin B, Raciborski F, Rajabian-Söderlund R, Reitsma S, Rodo X, Romano A, Rosario N, Rottem M, Ryan D, Salimäki J, Sanchez-Borges MM, Sisul JC, Solé D, Somekh D, Sooronbaev T, Sova M, Spranger O, Stellato C, Stelmach R, Suppli Ulrik C, Thibaudon M, To T, Todo-Bom A, Tomazic PV, Valero AA Valenta R Valentin-Rostan M van der Kleij R Vandenplas O Vezzani G Viart E Viegi G Wallace D, Wagenmann M, Wang Y, Waserman S, Wickman M, Williams DM, Wong G, Wroczynski P, Yiallouros PK, Yorgancioglu A, Yusuf OM, Zar HJ, Zeng S, Zernotti M, Zhang L, Zhong NS, Zidarn M; ARIA Study Group; MASK Study Group. Next-generation ARIA care pathways for rhinitis and asthma: a model for multimorbid chronic diseases. Clin Transl Allergy. 2019 Sep 9;9:44. doi: 10.1186/s13601-019-0279-2. PMID: 31516692; PMCID: PMC6734297.

Bowes C, Subauste A. SAT-191 A case of hypoplastic left heart syndrome and paraganglioma. J Endocr Soc. 2020 May 8;4(Suppl 1):SAT-191. doi: 10.1210/jendso/bvaa046.1682. PMCID: PMC7207863

Bowes C. Subauste J. SAT-478 Successful management of an atypical prolactinoma with radiotherapy. J Endocr Soc. 2019 Apr 30;3(Suppl 1):SAT-478. doi: 10.1210/js.2019-SAT-478. PMCID: PMC6552211

Bowes CD, Lien LF, Butler J. Assessment of heart failure in diabetes cardiovascular outcomes trials: is what we are currently capturing adequate? Curr Diab Rep. 2019 May 24;19(7):39. doi: 10.1007/s11892-019-1154-1. PMID: 31127397.

Bowes CD, Lien LF, Butler J. Clinical aspects of heart failure in individuals with diabetes. Diabetologia. 2019 Sep;62(9):1529-1538. doi: 10.1007/s00125-019-4958-2. PMID: 31342083. Bozkurt B, Hershberger RE, Butler J, Grady KL, Heidenreich PA, Isler ML, Kirklin JK, Weintraub WS. 2021 ACC/AHA key data elements and definitions for heart failure: a report of the American College of Cardiology/American Heart Association Task Force on Clinical Data Standards (Writing Committee to Develop Clinical Data Standards for Heart Failure). J Am Coll Cardiol. 2021 Apr 27;77(16):2053-2150. doi: 10.1016/j.jacc.2020.11.012. Epub 2020 Nov 26. PMID: 33250265.

Breathett K, Sims M, Gross M, Jackson EA, Jones EJ, Navas-Acien A, Taylor H, Thomas KL, Howard BV; American Heart Association Council on Epidemiology and Prevention; Council on Quality of Care and Outcomes Research; Council on Cardiovascular and Stroke Nursing; Council on Clinical Cardiology; and Council on Lifestyle and Cardiometabolic Health. Cardiovascular health in American Indians and Alaska Natives: a scientific statement from the American Heart Association. Circulation. 2020 Jun 23;141(25):e948-e959. doi: 10.1161/ CIR 000000000000773 PMID: 32460555; PMCID: PMC7351358

Bressler J, Marioni RE, Walker RM, Xia R, Gottesman RF, Windham BG, Grove ML, Guan W, Pankow JS, Evans KL, Mcintosh AM, Deary IJ, **Mosley TH**, Boerwinkle E, Fornage M. Epigenetic age acceleration and cognitive function in African American adults in midlife: the Atherosclerosis Risk in Communities Study. J Gerontol A Biol Sci Med Sci. 2020 Feb 14;75(3):473-480. doi: 10.1093/gerona/glz245. PMID: 31630168; PMCID: PMC7328191.

Bryant TS, Duggal P, Yu B, Morrison AC, Shafi T, Ehret G, Franceschini N, Boerwinkle E, Coresh J, Tin A. Association of FMO3 variants with blood pressure in the Atherosclerosis Risk in Communities Study. Int J Hypertens. 2019 Feb 18:2019:2137629. doi: 10.1155/2019/2137629. PMID: 30906589: PMCID: PMC6397986.

Butler J. Promise, innovation, potency, and efficacy: the PIPE dream of sodium-glucose co-transporter 2 inhibitors. Am J Cardiol. 2019 Dec 15;124 Suppl 1:S1-S2. doi: 10.1016/j. amjcard.2019.10.023. PMID: 31741434.

Butler J, Anker SD, Packer M. Redefining heart failure with a reduced ejection fraction. JAMA. 2019 Nov 12;322(18):1761-1762. doi: 10.1001/jama.2019.15600. PMID: 31517955.

Butler J, Anstrom KJ, Armstrong PW. Comparing the benefit of novel therapies across clinical trials: insights from the VICTORIA trial. Circulation. 2020 Aug 25;142(8):717-719. doi: 10.1161/CIRCULATIONAHA.120.047086. PMID: 32223438.

Butler J, Djatche LM, Sawhney B, Chakladar S, Yang L, Brady JE, Yang M. Clinical and economic burden of chronic heart failure and reduced ejection fraction following a worsening heart failure event. Adv Ther. 2020 Sep;37(9):4015-4032. doi: 10.1007/s12325-020-01456-1. PMID: 32761552; PMCID: PMC7444407.

Butler J., Greene SJ., Shah SH, Shah SJ, Anstrom KJ, Kim RJ, Kalogeropoulos AP, Velazguez EJ, Hernandez AF, Desvigne-Nickens P, Scherzer R, Hsue PY, Braunwald E. Diastolic dysfunction in patients with human immunodeficiency virus receiving antiretroviral therapy: results from the CHART study. J Card Fail, 2020 May:26(5):371-380. doi: 10.1016/i.cardfail.2019.10.011. PMID: 31682908; PMCID: PMC7195219.

Butler J, Handelsman Y, Bakris G, Verma S. Use of sodium-glucose co-transporter-2 inhibitors in patients with and without type 2 diabetes: implications for incident and prevalent heart failure. Eur J Heart Fail. 2020 Apr;22(4):604-617. doi: 10.1002/ejhf.1708. PMID: 31926059

Butler J, Januzzi JL, Rosenstock J. Management of heart failure and type 2 diabetes mellitus: maximizing complementary drug therapy. Diabetes Obes Metab. 2020 Aug;22(8):1243-1262. doi: 10.1111/dom.14042. PMID: 32243706.

Butler J, Khan MS. Heart failure prevention for all: treatment is good, prevention is better. J Am Coll Cardiol. 2020 Sep 22;76(12):1466-1467. doi: 10.1016/j.jacc.2020.08.020. PMID: 32805347

Butler J, Khan MS, Anker SD. Novel potassium binders as enabling therapy in heart failure. Eur J Heart Fail. 2019 May;21(5):550-552. doi: 10.1002/ejhf.1474. PMID: 30993820.

Butler J. Khan MS. Anker SD. Fonarow GC. Kim R.J. Nodari S. O'Connor CM. Pieske B. Pieske-Kraigher E, Sabbah HN, Senni M, Voors AA, Udelson JE, Carr J, Gheorghiade M, Filippatos G. Effects of Elamipretide on left ventricular function in patients with heart failure with reduced ejection fraction: the PROGRESS-HF phase 2 trial. J Card Fail. 2020 May;26(5):429-437. doi: 10.1016/j.cardfail.2020.02.001. Epub 2020 Feb 14. PMID: 32068002.

Butler J, Khan MS, Mori C, Filippatos GS, Ponikowski P, Comin-Colet J, Roubert B, Spertus JA, Anker SD. Minimal clinically important difference in quality of life scores for patients with heart failure and reduced ejection fraction. Eur J Heart Fail. 2020 Jun;22(6):999-1005. doi: 10.1002/eihf.1810. PMID: 32239794.

Butler J, Lam CSP, Anstrom KJ, Ezekowitz J, Hernandez AF, O'Connor CM, Pieske B, Ponikowski P, Shah SJ, Solomon SD, Voors AA, Wu Y, Carvalho F, Bamber L, Blaustein RO, Roessig L, Armstrong PW. Rationale and design of the VITALITY- HFpEF trial. Circ Heart Fail. 2019 May:12(5):e005998. doi: 10.1161/CIRCHEARTFAILURE.119.005998. PMID: 31096775.

Butler J, Packer M, Greene SJ, Fiuzat M, Anker SD, Anstrom KJ, Carson PE, Cooper LB, Fonarow GC, Hernandez AF, Januzzi JL Jr, Jessup M, Kalyani RR, Kaul S, Kosiborod M, Lindenfeld J, McGuire DK, Sabatine MS, Solomon SD, Teerlink JR, Vaduganathan M, Yancy CW, Stockbridge N, O'Connor CM. Heart failure end points in cardiovascular outcome trials of sodium glucose cotransporter 2 inhibitors in patients with type 2 diabetes mellitus: a critical evaluation of clinical and regulatory issues. Circulation. 2019 Dec 17;140(25):2108-2118. doi: 10.1161/CIRCULATIONAHA.119.042155. PMID: 31841369; PMCID: PMC7027964.

Butler J, Usman MS, Khan MS, Greene SJ, Friede T, Vaduganathan M, Filippatos G, Coats AJS, Anker SD. Efficacy and safety of SGLT2 inhibitors in heart failure: systematic review and meta-analysis ESC Heart Fail 2020 Dec:7(6):3298-3309 doi: 101002/ehf213169 Erratum in: ESC Heart Fail. 2021 Jun;8(3):2362. PMID: 33586910; PMCID: PMC7755023.

Butler J, Yang M, Manzi MA, Hess GP, Patel MJ, Rhodes T, Givertz MM. Clinical course of patients with worsening heart failure with reduced ejection fraction. J Am Coll Cardiol. 2019 Mar 5;73(8):935-944. doi: 10.1016/j.jacc.2018.11.049. PMID: 30819362.

Butler J, Zannad F, Filippatos G, Anker SD, Packer M. Ten lessons from the EMPEROR-Reduced trial. Eur J Heart Fail. 2020 Nov;22(11):1991-1993. doi: 10.1002/ejhf.2009. PMID: 32949160

Butler J, Zannad F, Filippatos G, Anker SD, Packer M. Totality of evidence in trials of sodium-glucose co-transporter-2 inhibitors in the patients with heart failure with reduced ejection fraction: implications for clinical practice. Eur Heart J. 2020 Sep 21;41(36):3398-3401. doi: 10.1093/eurheartj/ehaa731. PMID: 32935133; PMCID: PMC7550194.

Butler J, Zannad F, Fitchett D, Zinman B, Koitka-Weber A, von Eynatten M, Zwiener I, George J, Brueckmann M, Cheung AK, Wanner C. Empagliflozin improves kidney outcomes in patients with or without heart failure. Circ Heart Fail. 2019 Jun;12(6):e005875. doi: 10.1161/ CIRCHEARTFAILURE.118.005875. PMID: 31163986.

Cain-Shields L, Glover L, Young B, Sims M. Association between goal-striving stress and rapid kidney function decline among African Americans: the Jackson Heart Study. J Investig Med. 2021 Feb;69(2):382-387. doi: 10.1136/jim-2020-001510. Epub 2020 Dec 17. PMID: 33335024 PMCID PMC8057281

Cain-Shields LR, Johnson DA, Glover L, Sims M. The association of goal-striving stress with sleep duration and sleep quality among African Americans in the Jackson Heart Study. Sleep Health. 2020 Feb;6(1):117-123. doi: 10.1016/j.sleh.2019.08.007. PMID: 31734287; PMCID: PMC6995417

Cardel M, Guo Y, Sims M, Dulin A, Miller D, Pavela G, Deboer M, Gurka M. Objective and subjective measures of socioeconomic status are associated with metabolic syndrome severity among African American adults in the Jackson Heart Study (P18-006-19). Curr Dev Nutr. 2019 Jun 13;3(Suppl 1):nzz039.P18-006-19. doi: 10.1093/cdn/nzz039.P18-006-19. PMCID: PMC6574721.

Cardel MI, Chi X, Min YI, Sims M, Musani SK, Dulin A, Gravlee CC, Smith SM, DeBoer MD, Gurka MJ. Experiences of discrimination are associated with worse metabolic syndrome severity among African Americans in the Jackson Heart Study Ann Behav Med 2021 Mar 20;55(3):266-279. doi: 10.1093/abm/kaaa050. PMID: 32686818; PMCID: PMC7980767.

Cardel MI, Guo Y, Sims M, Dulin A, Miller D, Chi X, Pavela G, DeBoer MD, Gurka MJ. Objective and subjective socioeconomic status associated with metabolic syndrome severity among African American adults in Jackson Heart Study. Psychoneuroendocrinology. 2020 Jul;117:104686. doi: 10.1016/j.psyneuen.2020.104686. PMID: 32361636; PMCID: PMC7304382

Castellani CA, Longchamps RJ, Sumpter JA, Newcomb CE, Lane JA, Grove ML, Bressler J, Brody JA, Floyd JS, Bartz TM, Taylor KD, Wang P, Tin A, Coresh J, Pankow JS, Fornage M, Guallar E, O'Rourke B, Pankratz N, Liu C, Levy D, Sotoodehnia N, Boerwinkle E, Arking DE. Mitochondrial DNA copy number can influence mortality and cardiovascular disease via methylation of nuclear DNA CpGs. Genome Med. 2020 Sep 28;12(1):84. doi: 10.1186/s13073-020-00778-7. PMID: 32988399; PMCID: PMC7523322.

Chamberlain N, Brock JB, Mena LA. 1003. BIC/FTC/TAF maintains viral suppression in patients with documented M184V/I mutations: a real world experience. Open Forum Infect Dis. 2020 Dec 31;7(Suppl 1):S530. doi: 10.1093/ofid/ofaa439.1189. PMCID: PMC7776809.

Chang AM, Pang PS, Butler J, Storrow AB, Levy PD, Lindenfeld J, Collins SP. Early treatment in Emergency Department patients with acute heart failure: does time matter? Curr Heart Fail Rep. 2019 Feb;16(1):12-20. doi: 10.1007/s11897-019-0419-y. PMID: 30828762.

Chang TE, Park S, Yang Q, Loustalot F, Butler J, Ritchey MD. Association between long-term adherence to class-I recommended medications and risk for potentially preventable heart failure hospitalizations among younger adults. PLoS One. 2019 Sep 23;14(9):e0222868. doi: 10.1371/journal.pone.0222868. PMID: 31545830; PMCID: PMC6756532.

Chauhan G, Adams HHH, Satizabal CL, Bis JC, Teumer A, Sargurupremraj M, Hofer E, Trompet S, Hilal S, Smith AV, Jian X, Malik R, Traylor M, Pulit SL, Amouyel P, Mazoyer B, Zhu YC, Kaffashian S, Schilling S, Beecham GW, Montine TJ, Schellenberg GD, Kjartansson O, Guðnason V, Knopman DS, Griswold ME, Windham BG, Gottesman RF, Mosley TH, Schmidt R, Saba Y, Schmidt H, Takeuchi F, Yamaguchi S, Nabika T, Kato N, Rajan KB, Aggarwal NT, De Jager PL, Evans DA, Psaty BM, Rotter JI, Rice K, Lopez OL, Liao J, Chen C, Cheng CY, Wong TY, Ikram MK, van der Lee SJ, Amin N, Chouraki V. DeStefano AL, Aparicio HJ, Romero JR, Maillard P, DeCarli C, Wardlaw JM, Hernández MDCV. Luciano M, Liewald D, Deary IJ, Starr JM, Bastin ME, Muñoz Maniega S, Slagboom PE, Beekman M, Deelen J, Uh HW, Lemmens R, Brodaty H, Wright MJ, Ames D, Boncoraglio GB, Hopewell JC, Beecham AH, Blanton SH, Wright CB, Sacco RL, Wen W, Thalamuthu A, Armstrong NJ, Chong E, Schofield PR, Kwok JB, van der Grond J, Stott DJ, Ford I, Jukema JW, Vernooij MW, Hofman A, Uitterlinden AG, van der Lugt A, Wittfeld K, Grabe HJ, Hosten N, von Sarnowski B, Völker U, Levi C, Jimenez-Conde J. Sharma P. Sudlow CLM. Rosand J. Woo D. Cole JW. Meschia JF. Slowik A. Thiis V. Lindgren A, Melander O, Grewal RP, Rundek T, Rexrode K, Rothwell PM, Arnett DK, Jern C, Johnson JA, Benavente OR, Wasssertheil-Smoller S, Lee JM, Wong Q, Mitchell BD, Rich SS, McArdle PF, Geerlings MI, van der Graaf Y, de Bakker PIW, Asselbergs FW, Srikanth V, Thomson R, McWhirter R, Moran C, Callisaya M, Phan T, Rutten-Jacobs LCA, Bevan S, Tzourio C, Mather KA, Sachdev PS, van Duijn CM, Worrall BB, Dichgans M, Kittner SJ, Markus HS, Ikram MA, Fornage M, Launer LJ, Seshadri S, Longstreth WT Jr, Debette S; Stroke Genetics Network (SiGN), the International Stroke Genetics Consortium (ISGC), METASTROKE, Alzheimer's Disease Genetics Consortium (ADGC), and the Neurology Working Group of the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium. Genetic and lifestyle risk factors for MRI-defined brain infarcts in a population-based setting. Neurology. 2019 Jan 16;92(5):e486–503. doi: 10.1212/WNL.0000000006851. PMID: 30651383 PMCID PMC6369905

Chen N, Caruso C, Alonso A, Derebail VK, Kshirsagar AV, Sharrett AR, Key NS, Gottesman RF, Grove ML, Bressler J, Boerwinkle E, Windham BG, Mosley TH Jr, Hyacinth HI. Association of sickle cell trait with measures of cognitive function and dementia in African Americans. eNeurologicalSci. 2019 Jul 22;16:100201. doi: 10.1016/j.ensci.2019.100201. Erratum in: eNeurologicalSci. 2020 Oct 12;21:100281. PMID: 31384675; PMCID: PMC6661502.

Chen N, Caruso C, Alonso A, Derebail VK, Kshirsagar AV, Sharrett AR, Key NS, Gottesman RF, Grove ML, Bressler J, Boerwinkle E, Windham BG, Mosley TH Jr, Hyacinth HI. Corrigendum to 'Association of sickle cell trait with measures of cognitive function and dementia in African Americans' *eNeurologicalSci*, Vol. 16 (2019), 100,201. eNeurologicalSci. 2020 Oct 12;21:100281. doi: 10.1016/j.ensci.2020.100281. Erratum for: eNeurologicalSci. 2019 Jul 22;16:100201. PMID: 33313427; PMCID: PMC7719690.

Chen Y, Zelnick LR, Wang K, Hoofnagle AN, Becker JO, Hsu CY, Feldman HI, Mehta RC, Lash JP, Waikar SS, Shafi T, Seliger SL, Shlipak MG, Rahman M, Kestenbaum BR; CRIC Study Investigators. Kidney clearance of secretory solutes is associated with progression of CKD: the CRIC Study. J Am Soc Nephrol. 2020 Apr;31(4):817-827. doi: 10.1681/ASN.2019080811. PMID: 32205410: PMCID: PMC7191931.

Cheungpasitporn W, Thongprayoon C, Hansrivijit P, Medaura J, Chewcharat A, Bathini T, Mao MA. Frickson SB. Impact of admission calcium-phosphate product on 1-year mortality among hospitalized patients. Adv Biomed Res. 2020 Apr 22;9:14. doi: 10.4103/abr. abr_249_19. PMID: 32775307; PMCID: PMC7282693.

Cheungpasitporn W, Thongprayoon C, Vaitla PK, Chewcharat A, Hansrivijit P, Koller FL, Mao MA, Bathini T, Salim SA, Katari S, Cummings LS, Island E, Forster J, Leeaphorn N. Degree of glomerulosclerosis in procurement kidney biopsies from marginal donor kidneys and their implications in predicting graft outcomes. J Clin Med. 2020 May 14;9(5):1469. doi: 10.3390/ jcm9051469. PMID: 32422905; PMCID: PMC7291279.

Chewcharat A, Prasitlumkum N, Thongprayoon C, Bathini T, Medaura J, Vallabhajosyula S, Cheungpasitporn W. Efficacy and safety of SGLT-2 inhibitors for treatment of diabetes mellitus among kidney transplant patients: a systematic review and meta-analysis. Med Sci (Basel). 2020 Nov 17;8(4):47. doi: 10.3390/medsci8040047. PMID: 33213078; PMCID: PMC7712903

Chikwe J, Anyanwu A, Butler J, McLarty A. Commentary: Failure predicting failure: the right ventricle after left ventricular assist device implantation. J Thorac Cardiovasc Surg. 2019 May;157(5):1861-1862. doi: 10.1016/j.jtcvs.2018.12.057. PMID: 30709670.

Chioncel O, Butler J. Mid-regional pro-atrial natriuretic peptide for diagnosis of heart failure in non-acute settings: biomarkers plus clinical sense make good sense. Fur, I Heart Fail 2019 Oct;21(10):1228-1230. doi: 10.1002/ejhf.1578. PMID: 31373140.

Chioncel O, Collins SP, Ambrosy AP, Pang PS, Radu RI, Antohi EL, Masip J, Butler J, Iliescu VA. Therapeutic advances in the management of cardiogenic shock. Am J Ther. 2019 Mar/ Apr;26(2):e234-e247. doi: 10.1097/MJT.0000000000000920. PMID: 30839372; PMCID: PMC6404765

Chioncel O. Collins SP. Butler J. Istaroxime in acute heart failure: the holy grail is at HORI-ZON? Eur J Heart Fail. 2020 Sep;22(9):1694-1697. doi: 10.1002/ejhf.1843. PMID: 32374050.

Chunawala Z, Chang PP, DeFilippis AP, Hall ME, Matsushita K, Caughey MC. Recurrent admissions for acute decompensated heart failure among patients with and without peripheral artery disease: the ARIC Study. J Am Heart Assoc. 2020 Nov 3;9(21):e017174. doi: 10.1161/ JAHA 120 017174 PMID: 33100106 PMCID: PMC7763414

Clark D 3rd, Cain LR, Blaha MJ, DeFilippis AP, Mentz RJ, Kamimura D, White WB, Butler KR, Robertson RM, Bhatnagar A, Butler J, Correa A, Benjamin EJ, Hall ME. Cigarette smoking and subclinical peripheral arterial disease in Blacks of the Jackson Heart Study. J Am Heart Assoc. 2019 Feb 5;8(3):e010674. doi: 10.1161/JAHA.118.010674. PMID: 30672360; PMCID: PMC6405586

Clark D 3rd, Colantonio LD, Min YI, Hall ME, Zhao H, Mentz RJ, Shimbo D, Ogedegbe G, Howard G, Levitan EB, Jones DW, Correa A, Muntner P. Population-attributable risk for cardiovascular disease associated with hypertension in Black adults. JAMA Cardiol. 2019 Dec 1;4(12):1194-1202. doi: 10.1001/jamacardio.2019.3773. Erratum in: JAMA Cardiol. 2020 May 1;5(5):613. PMID: 31642869; PMCID: PMC6813577.

Clark D 3rd, Nicholls SJ, St John J, Elshazly MB, Ahmed HM, Khraishah H, Nissen SE, Puri R. Visit-to-visit blood pressure variability, coronary atheroma progression, and clinical outcomes. JAMA Cardiol. 2019 May 1;4(5):437-443. doi: 10.1001/jamacardio.2019.0751. PMID: 30969323; PMCID: PMC6537804.

Clark D 3rd, Woods J, Patki D, Jones K, Stasher S, Jones DW, Summers R. Digital informed consent in a rural and low-income population. JAMA Cardiol. 2020 Jul 1;5(7):845-847. doi: 10.1001/jamacardio.2020.0984. PMID: 32401265; PMCID: PMC7221843.

Clemmer JS, Faulkner JL, Mullen AJ, Butler KR, Hester RL. Sex-specific responses to mineralocorticoid receptor antagonism in hypertensive African American males and females. Biol Sex Differ. 2019 May 9;10(1):24. doi: 10.1186/s13293-019-0238-6. PMID: 31072402; PMCID: PMC6507140.

Conklin DJ, Schick S, Blaha MJ, Carll A, DeFilippis A, Ganz P, Hall ME, Hamburg N, O'Toole T, Reynolds L, Srivastava S, Bhatnagar A. Cardiovascular injury induced by tobacco products: assessment of risk factors and biomarkers of harm. A Tobacco Centers of Regulatory Science compilation. Am J Physiol Heart Circ Physiol. 2019 Apr 1;316(4):H801-H827. doi: 10.1152/ aipheart.00591.2018. PMID: 30707616: PMCID: PMC6483019.

Cooper LL, Musani SK, Moore JA, Clarke VA, Yano Y, Cobbs K, Tsao CW, Butler J, Hall ME, Hamburg NM, Benjamin EJ, Vasan RS, Mitchell GF, Fox ER. Clinical associations of vascular stiffness, microvascular dysfunction, and prevalent cardiovascular disease in a Black cohort: the Jackson Heart Study. J Am Heart Assoc. 2020 Sep 15;9(18):e017018. doi: 10.1161/JAHA.120.017018. Erratum in: J Am Heart Assoc. 2020 Oct 20;9(19):e014606. PMID: 32873113 PMCID PMC7726980

Dauterive E, Subauste J. MON-242 A hidden thirst: unmasking of central diabetes insipidus. J Endocr Soc. 2020 May 8;4(Suppl 1):MON-242. doi: 10.1210/jendso/bvaa046.1411. PMCID: PMC7207943

Davies G, Lam M, Harris SE, Trampush JW, Luciano M, Hill WD, Hagenaars SP, Ritchie SJ, Marioni RE, Fawns-Ritchie C, Liewald DCM, Okely JA, Ahola-Olli AV, Barnes CLK, Bertram L, Bis JC, Burdick KE, Christoforou A, DeRosse P, Djurovic S, Espeseth T, Giakoumaki S, Giddaluru S, Gustavson DE, Hayward C, Hofer E, Ikram MA, Karlsson R, Knowles E, Lahti J, Leber M. Li S. Mather KA, Melle I. Morris D. Oldmeadow C. Palviainen T. Pavton A. Pazoki R, Petrovic K, Reynolds CA, Sargurupremraj M, Scholz M, Smith JA, Smith AV, Terzikhan N, Thalamuthu A, Trompet S, van der Lee SJ, Ware EB, Windham BG, Wright MJ, Yang J, Yu J, Ames D. Amin N. Amouvel P. Andreassen OA. Armstrong N.J. Assareh AA. Attia J.R. Attix D. Avramopoulos D, Bennett DA, Böhmer AC, Boyle PA, Brodaty H, Campbell H, Cannon TD, Cirulli ET, Congdon E, Conley ED, Corley J, Cox SR, Dale AM, Dehghan A, Dick D, Dickinson D, Eriksson JG, Evangelou E, Faul JD, Ford I, Freimer NA, Gao H, Giegling I, Gillespie NA, Gordon SD, Gottesman RF, Griswold ME, Gudnason V, Harris TB, Hartmann AM, Hatzimanolis A, Heiss G, Holliday EG, Joshi PK, Kähönen M, Kardia SLR, Karlsson I, Kleineidam L, Knopman DS, Kochan NA, Konte B, Kwok JB, Le Hellard S, Lee T, Lehtimäki T, Li SC, Lill CM, Liu T, Koini M, London E, Longstreth WT Jr, Lopez OL, Loukola A, Luck T, Lundervold AJ, Lundquist A, Lyytikäinen LP, Martin NG, Montgomery GW, Murray AD, Need AC, Noordam R, Nvberg L. Ollier W. Papenberg G, Pattie A, Polasek O, Poldrack RA, Psaty BM, Reppermund S, Riedel-Heller SG, Rose RJ, Rotter JI, Roussos P, Rovio SP, Saba Y, Sabb FW, Sachdev PS, Satizabal CL, Schmid M, Scott RJ, Scult MA, Simino J, Slagboom PE, Smyrnis N, Soumaré A, Stefanis NC, Stott DJ, Straub RE, Sundet K, Taylor AM, Taylor KD, Tzoulaki I, Tzourio C, Uitterlinden A, Vitart V, Voineskos AN, Kaprio J, Wagner M, Wagner H, Weinhold L, Wen KH, Widen E, Yang Q, Zhao W, Adams HHH, Arking DE, Bilder RM, Bitsios P, Boerwinkle E, Chiba-Falek O. Corvin A. De Jager PL. Debette S. Donohoe G. Elliott P. Fitzpatrick AL. Gill M. Glahn DC. Hägg S, Hansell NK, Hariri AR, Ikram MK, Jukema JW, Vuoksimaa E, Keller MC, Kremen WS, Launer L, Lindenberger U, Palotie A, Pedersen NL, Pendleton N, Porteous DJ, Räikkönen K, Raitakari OT, Ramirez A, Reinvang I, Rudan I, Dan Ruiescu, Schmidt R, Schmidt H, Schofield PW, Schofield PR, Starr JM, Steen VM, Trollor JN, Turner ST, Van Duijn CM, Villringer A, Weinberger DR, Weir DR, Wilson JF, Malhotra A, McIntosh AM, Gale CR, Seshadri S, Mosley TH Jr. Bressler J. Lencz T. Deary IJ. Author Correction: Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function. Nat Commun. 2019 May 1;10(1):2068. doi: 10.1038/s41467-019-10160-w. Erratum for: Nat Commun. 2018 May 29:9(1):2098, PMID: 31043617; PMCID: PMC6494826

Deal J, Gross A, Abraham A, Sharrett AR, Reed N, Mosley T, Lin F, Swenor B. Impact of hearing impairment on missingness of cognitive test scores in the ARIC Study. Innov Aging. 2020 Dec 16;4(Suppl 1):821–2. doi: 10.1093/geroni/igaa057.2995. PMCID: PMC7743795.

Deal J, Park J, Reed N, Abraham A, Lin F, Windham BG, Sharrett AR. Dual sensory impairment and cognitive performance, MCI, and dementia in older adults: the ARIC Neurocognitive Study. Innov Aging. 2020 Dec 16;4(Suppl 1):805–6. doi: 10.1093/geroni/igaa057.2925. PMCID: PMC7743444

Deal J, Reed N, Couper D, Hayden K, Mosley T, Pankow J, Lin F, Coresh J. The ACHIEVE Trial: lessons learned from nesting a randomized controlled trial within an observational cohort study. Innov Aging. 2020 Dec 16;4(Suppl 1):811. doi: 10.1093/geroni/igaa057.2950. PMCID: PMC7743505.

Deal JA, Rawlings A, Sharrett AR, Reed N, Betz J, Mosley T, Lin F, Gottesman R. Hearing impairment, cognitive performance, and beta-amyloid deposition in the ARIC-PET Amyloid Imaging Study. Innov Aging. 2019 Nov 8;3(Suppl 1):S551. doi: 10.1093/geroni/igz038.2032. PMCID: PMC6845544

Dearborn-Tomazos JL, Wu A, Steffen LM, Anderson CAM, Hu EA, Knopman D, Mosley TH, Gottesman RF. Association of dietary patterns in midlife and cognitive function in later life in US adults without dementia. JAMA Netw Open. 2019 Dec 2;2(12):e1916641. doi: 10.1001/ jamanetworkopen.2019.16641. PMID: 31800068; PMCID: PMC6902753.

de Boer A, Villa G, Bock M, Cox EF, Dekkers IA, Eckerbom P, Fernandez-Seara MA, Francis ST, Haddock B, Hall ME, Barrientos PH, Hermann I, Hickings PD, Lamb HJ, Laustsen C, Lim RP, Morris DM, Ringgard S, Serai SD, Sharma K, Sourbron S, Takehara Y, Wentland AL, Wolf M. Zollner F. Nerv F. Caroli A. Consensus-based technical recommendations for clinical translation of renal phase contrast MRI. J Magn Reson Imaging. 2020.

De Carlo F, Thomas L, Brooke B, Varney ET, Nande R, Boskovic O, Marshall GD, Claudio PP, Howard CM. Microbubble-mediated delivery of human adenoviruses does not elicit innate and adaptive immunity response in an immunocompetent mouse model of prostate cancer. J Transl Med. 2019 Jan 11;17(1):19. doi: 10.1186/s12967-019-1771-0. PMID: 30635014; PMCID: PMC6329087.

de Denus S, Leclair G, Dubé MP, St-Jean I, Zada YF, Oussaïd E, Jutras M, Givertz MM, Mentz RJ, Tang WHW, Ferreira JP, Rouleau J, Butler J, Kalogeropoulos AP. Spironolactone metabolite concentrations in decompensated heart failure: insights from the ATHENA-HF trial. Eur J Heart Fail. 2020 Aug;22(8):1451-1461. doi: 10.1002/eihf.1802. PMID: 32237012; PMCID: PMC7958586.

Deleon-Pennell KY, Ero OK, Ma Y, Iver RP, Flynn ER, Espinoza I, Musani SK, Vasan RS, Hall **ME, Fox ER,** Lindsey ML. Glycoproteomic profiling provides candidate myocardial infarction predictors of later progression to heart failure. ACS Omega. 2019 Jan 31; 4(1):1272–1280. Published online 2019 Jan 15. doi: 10.1021/acsomega.8b02207 PMCID: PMC6356850.

DeVore AD, Granger BB, Fonarow GC, Al-Khalidi HR, Albert NM, Lewis EF, Butler J, Piña IL, Heidenreich PA, Allen LA, Yancy CW, Cooper LB, Felker GM, Kaltenbach LA, McRae AT, Lanfear DE, Harrison RW, Kociol RD, Disch M, Ariely D, Miller JM, Granger CB, Hernandez AF, Care optimization through patient and hospital engagement clinical trial for heart failure: rationale and design of CONNECT-HF. Am Heart J. 2020 Feb;220:41-50. doi: 10.1016/j. ahi.2019.09.012. PMID: 31770656.

DeVore AD, Hellkamp AS, Thomas L, Albert NM, Butler J, Patterson JH, Spertus JA, Williams FB, Duffy CI, Hernandez AF, Fonarow GC. Improvement in left ventricular ejection fraction in outpatients with heart failure with reduced election fraction: data from CHAMP-HE Circ Heart Fail. 2020 Jul;13(7):e006833. doi: 10.1161/CIRCHEARTFAILURE.119.006833. PMID: 32580657.

de Vries PS, Brown MR, Bentley AR, Sung YJ, Winkler TW, Ntalla I, Schwander K, Kraja AT, Guo X, Franceschini N, Cheng CY, Sim X, Voiinovic D, Huffman JE, Musani SK, Li C, Feitosa MF, Richard MA, Noordam R, Aschard H, Bartz TM, Bielak LF, Deng X, Dorajoo R, Lohman KK, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Evangelou E, Graff M, Alver M, Boissel M, Chai JF, Chen X, Divers J, Gandin I, Gao C, Goel A, Hagemeijer Y, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC, Jackson AU, Kasturiratne A, Komulainen P, Kühnel B, Laguzzi F, Lee JH, Luan J, Lyytikäinen LP, Matoba N, Nolte IM, Pietzner M, Riaz M, Said MA, Scott RA, Sofer T, Stančáková A, Takeuchi F, Tayo BO, van der Most PJ, Varga TV, Wang Y, Ware EB, Wen W, Yanek LR, Zhang W, Zhao JH, Afaq S, Amin N, Amini M, Arking DE, Aung T, Ballantyne C, Boerwinkle E, Broeckel U, Campbell A, Canouil M, Charumathi S, Chen YI, Connell JM, de Faire U, de Las Fuentes L, de Mutsert R, de Silva HJ, Ding J, Dominiczak AF, Duan Q, Eaton CB, Eppinga RN, Faul JD, Fisher V, Forrester T, Franco OH, Friedlander Y, Ghanbari M, Giulianini F, Grabe HJ, Grove ML, Gu CC, Harris TB, Heikkinen S, Heng CK, Hirata M, Hixson JE. Howard BV. Ikram MA: InterAct Consortium, Jacobs DR, Johnson C, Jonas JB, Kammerer CM, Katsuya T, Khor CC, Kilpeläinen TO, Koh WP, Koistinen HA, Kolcic I, Kooperberg C, Krieger JE, Kritchevsky SB, Kubo M, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lemaitre RN, Li Y, Liang J, Liu J, Liu K, Loh M, Louie T, Mägi R, Manichaikul AW, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mohlke KL, Mosley TH, Mukamal KJ, Nalls MA, Nauck M, Nelson CP, Sotoodehnia N, O'Connell JR, Palmer ND, Pazoki R, Pedersen NL, Peters A, Peyser PA, Polasek O, Poulter N, Raffel LJ, Raitakari OT, Reiner AP. Rice TK, Rich SS, Robino A, Robinson JG, Rose LM, Rudan I, Schmidt CO, Schreiner PJ, Scott WR, Sever P, Shi Y, Sidney S, Sims M, Smith BH, Smith JA, Snieder H, Starr JM, Strauch K, Tan N, Taylor KD, Teo YY, Tham YC, Uitterlinden AG, van Heemst D, Vuckovic D, Waldenberger M, Wang L, Wang Y, Wang Z, Wei WB, Williams C, Wilson G, Wojczynski MK, Yao J, Yu B, Yu C. Yuan JM. Zhao W. Zonderman AB. Becker DM. Boehnke M. Bowden DW. Chambers JC. Deary IJ, Esko T, Farrall M, Franks PW, Freedman BI, Froquel P, Gasparini P, Gieger C, Horta BL, Kamatani Y, Kato N, Kooner JS, Laakso M, Leander K, Lehtimäki T; Lifelines Cohort, Groningen, The Netherlands (Lifelines Cohort Study), Magnusson PKE, Penninx B, Pereira AC, Rauramaa R, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wang YX, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Zheng W, Elliott P, North KE, Bouchard C, Evans MK, Gudnason V, Liu CT, Liu Y, Psaty BM, Ridker PM, van Dam RM, Kardia SLR, Zhu X, Rotimi CN, Mook-Kanamori DO, Fornage M, Kelly TN, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Liu J, Rotter JI, Gauderman WJ, Province MA, Munroe PB, Rice K, Chasman DI, Cupples LA, Rao DC, Morrison AC. Multiancestry genome-wide association study of lipid levels incorporating gene-alcohol interactions. Am J Epidemiol. 2019 Jun 1;188(6):1033-1054. doi: 10.1093/aje/kwz005. PMID: 30698716; PMCID: PMC6545280.

Diamantidis CJ, Davenport CA, Lunyera J, Bhavsar N, Scialla J, Hall R, Tyson C, Sims M, Strigo T, Powe NR, Boulware LE. Low use of routine medical care among African Americans with high CKD risk: the Jackson Heart Study. BMC Nephrol. 2019 Jan 10;20(1):11. doi: 10.1186/ s12882-018-1190-0. PMID: 30630437; PMCID: PMC6327442.

Ding J, Davis-Plourde KL, Sedaghat S, Tully PJ, Wang W, Phillips C, Pase MP, Himali JJ, Gwen Windham B, Griswold M, Gottesman R, Mosley TH, White L, Guðnason V, Debette S, Beiser AS, Seshadri S, Ikram MA, Meirelles O, Tzourio C, Launer LJ, Antihypertensive medications and risk for incident dementia and Alzheimer's disease: a meta-analysis of individual participant data from prospective cohort studies. Lancet Neurol. 2020 Jan;19(1):61-70. doi: 10.1016/S1474-4422(19)30393-X. PMID: 31706889; PMCID: PMC7391421.

Do AN, Zhao W, Baldridge AS, Raffield LM, Wiggins KL, Shah SJ, Aslibekyan S, Tiwari HK, Limdi N, Zhi D, Sitlani CM, Taylor KD, Psaty BM, Sotoodehnia N, Brody JA, Rasmussen-Torvik LJ, Llovd-Jones D, Lange LA, Wilson JG, Smith JA, Kardia SLR, **Moslev TH**, Vasan RS, Arnett DK, Irvin MR. Genome-wide meta-analysis of SNP and antihypertensive medication interactions on left ventricular traits in African Americans. Mol Genet Genomic Med. 2019 Oct;7(10):e00788. doi: 10.1002/mgg3.788. PMID: 31407531; PMCID: PMC6785453.

Du P, Grady GO, Paskaranandavadivel N, Tang SJ, Abell T, Cheng LK. High-resolution mapping of hyperglycemia-induced gastric slow wave dysrhythmias. J Neurogastroenterol Motil. 2019 Apr 30;25(2):276-285. doi: 10.5056/jnm18192. PMID: 30870879; PMCID: PMC6474709.

Duckworth S, Leung T, O'Glasser A, Clark A. Listen and learn: a guide to podcasts for internists. Society of General Internal Medicine Forum. 2019 Jul;42(7):12-13.

Düngen HD, Dordevic A, Felix SB, Pieske B, Voors AA, McMurray JJV, **Butler J.** β -tadrenoreceptor autoantibodies in heart failure: physiology and therapeutic implications. Circ Heart Fail. 2020 Jan;13(1):e006155. doi: 10.1161/CIRCHEARTFAILURE.119.006155. PMID: 31957469.

Echouffo-Tcheugui JB, Mwasongwe SE, Sims M, Dagogo-Jack S, Golden SH, Correa A, Musani SK. Sickle cell trait, European ancestry, and longitudinal tracking of HbA, among African Americans: the Jackson Heart Study. Diabetes Care, 2019 Oct:42(10):e166-e167. doi: 10 2337/dc19-0982PMID: 31431453: PMCID: PMC6754235

Esquer Garrigos Z, Castillo Almeida NE, Gurram P, Vijayvargiya P, Corsini Campioli CG, Stulak JM. Rizza SA. Baddour LM. Rizwan Sohail M. Management and outcome of left ventricular assist device infections in patients undergoing cardiac transplantation. Open Forum Infect Dis. 2020 Jul 20;7(8):ofaa303. doi: 10.1093/ofid/ofaa303. PMID: 32818144; PMCID: PMC7423297.

Esquer Garrigos Z, Jandhyala D, Vijayvargiya P, Castillo Almeida NE, Gurram P, Corsini Campioli CG, Stulak JM, Rizza SA, O'Horo JC, DeSimone DC, Baddour LM, Sohail MR. Management of bloodstream infections in left ventricular assist device recipients: to suppress, or not to suppress? Open Forum Infect Dis. 2020 Nov 16:8(1):ofaa532. doi: 10.1093/ofid/ ofaa532. PMID: 33447628; PMCID: PMC7794653.

Ezekowitz JA, O'Connor CM, Troughton RW, Alemayehu WG, Westerhout CM, Voors AA, Butler J. Lam CSP. Ponikowski P. Emdin M. Patel MJ. Pieske B. Roessig L. Hernandez AF. Armstrong PW. N-Terminal Pro-B-Type natriuretic peptide and clinical outcomes: vericiguat heart failure with reduced ejection fraction study. JACC Heart Fail. 2020 Nov;8(11):931-939. doi: 10.1016/j.jchf.2020.08.008. PMID: 33039447.

Farmakis D, Butler J, Filippatos G. Sodium-glucose co-transporter 2 inhibitors: 'a tale of two sisters', diabetes and heart failure. Eur J Heart Fail, 2020 Jul;22(7):1259-1262, doi: 10.1002/ eihf1935_PMID: 32533724

Fashanu OE, Zhao D, Schneider ALC, Rawlings AM, Sharrett AR, Lutsey PL, Gottesman RF, Gross AL, Guallar E, Alonso A, Mosley TH, Michos ED. Mid-life serum Vitamin D concentrations were associated with incident dementia but not late-life neuropsychological performance in the Atherosclerosis Risk in Communities (ARIC) Study. BMC Neurol. 2019 Oct 22;19(1):244. doi: 10.1186/s12883-019-1483-3. PMID: 31640594; PMCID: PMC6805504.

Ferreira JP, Butler J, Rossignol P, Pitt B, Anker SD, Kosiborod M, Lund LH, Bakris GL, Weir MR, Zannad F. Abnormalities of potassium in heart failure: JACC state-of-the-art review. J Am Coll Cardiol. 2020 Jun 9;75(22):2836-2850. doi: 10.1016/j.jacc.2020.04.021. PMID: 32498812.

Ferreira JP, Verdonschot J, Collier T, Wang P, Pizard A, Bär C, Björkman J, Boccanelli A, Butler J. Clark A. Cleland JG. Delles C. Diez J. Girerd N. González A. Hazebroek M. Huby AC. Jukema W, Latini R, Leenders J, Levy D, Mebazaa A, Mischak H, Pinet F, Rossignol P, Sattar N, Sever P, Staessen JA, Thum T, Vodovar N, Zhang ZY, Heymans S, Zannad F. Proteomic bioprofiles and mechanistic pathways of progression to heart failure. Circ Heart Fail. 2019 May;12(5):e005897. doi: 10.1161/CIRCHEARTFAILURE.118.005897. PMID: 31104495.

Fiuzat M, Lowy N, Stockbridge N, Sbolli M, Latta F, Lindenfeld J, Lewis EF, Abraham WT, Teerlink J, Walsh M, Heidenreich P, Bozkurt B, Starling RC, Solomon S, Felker GM, Butler J, Yancy C, Stevenson LW, O'Connor C, Unger E, Temple R, McMurray J. Endpoints in heart failure drug development: history and future. JACC Heart Fail. 2020 Jun;8(6):429-440. doi: 10.1016/j.jchf.2019.12.011. PMID: 32278679.

Fröjdh F, Fridman Y, Bering P, Sayeed A, Maanja M, Niklasson L, Olausson E, Pi H, Azeem A, Wong TC, Kellman P, Feingold B, Christopher A, Fukui M, Cavalcante JL, Miller CA, Butler J, Ugander M, Schelbert EB. Extracellular volume and global longitudinal strain both associate with outcomes but correlate minimally. JACC Cardiovasc Imaging. 2020 Nov;13(11):2343-2354. doi: 10.1016/j.jcmg.2020.04.026. PMID: 32563637.

Fudim M, Ashur N, Jones AD, Ambrosy AP, Bart BA, Butler J, Chen HH, Greene SJ, Reddy Y, Redfield MM, Sharma A, Hernandez AF, Felker GM, Borlaug BA, Mentz RJ. Implications of peripheral oedema in heart failure with preserved ejection fraction: a heart failure network analysis, ESC Heart Fail, 2021 Feb;8(1):662-669, doi: 10.1002/ehf2.13159, PMID: 33300277; PMCID: PMC7835593

Fudim M, Brooksbank J, Giczewska A, Greene SJ, Grodin JL, Martens P, Ter Maaten JM, Sharma A, Verbrugge FH, Chakraborty H, Bart BA, Butler J, Hernandez AF, Felker GM, Mentz RJ. Ultrafiltration in acute heart failure: implications of ejection fraction and early response to treatment From CARRESS-HF. J Am Heart Assoc. 2020 Dec 15;9(24):e015752. doi: 10.1161/ JAHA 119.015752 PMID: 33289458; PMCID: PMC7955382

Gao Y, Hickson DA, Talegawkar S, Norwood AF, Tucker KL, Sims M, Diez Roux AV, Griswold M. Influence of individual life course and neighbourhood socioeconomic position on dietary intake in African Americans: the Jackson Heart Study. BMJ Open. 2019 Mar 12;9(3):e025237. doi: 10.1136/bmjopen-2018-025237. PMID: 30862633; PMCID: PMC6429841.

Garcia JM, Duran AT, Schwartz JE, Booth JN 3rd, Hooker SP, Willey JZ, Cheung YK, Park C, Williams SK, Sims M, Shimbo D, Diaz KM. Types of sedentary behavior and risk of cardiovascular events and mortality in Blacks: the Jackson Heart Study. J Am Heart Assoc. 2019 Jul 2:8(13):e010406. doi: 10.1161/JAHA.118.010406. PMID: 31238767: PMCID: PMC6662345.

Garla VV, Chaudhary KUQ, Yaqub A. Systemic mastocytosis: a rare cause of osteoporosis. Pan Afr Med J. 2019 Apr 9;32:169. doi: 10.11604/pamj.2019.32.169.16640. PMID: 31303938; PMCID: PMC6607299

Garla V, Sonani H, Palabindala V, Gomez-Sanchez C, Subauste J, Lien LF. Non-islet cell hypoglycemia: case series and review of the literature. Front Endocrinol (Lausanne). 2019 May 15;10:316. doi: 10.3389/fendo.2019.00316. PMID: 31156561; PMCID: PMC6529841.

Garla V, Subauste A, Butler J, Lien LF. The role of sodium glucose co-transporter inhibitors in heart failure prevention. J Diabetes Complications. 2021 Mar;35(3):107811. doi: 10.1016/i.idiacomp.2020.107811. Epub 2020 Nov 26. PMID: 33280983.

Gary R, Dunbar SB, Higgins M, Butts B, Corwin E, Hepburn K, **Butler J,** Miller AH. An intervention to improve physical function and caregiver perceptions in family caregivers of persons with heart failure. J Appl Gerontol. 2020 Feb;39(2):181-191. doi: 10.1177/0733464817746757. Erratum in: J Appl Gerontol. 2020 Feb;39(2):NP1. PMID: 29347863 PMCID PMC6026574

Gellert KS, Keil AP, Zeng D, Lesko CR, Aubert RE, Avery CL, Lutsey PL, Siega-Riz AM, Windham BG, Heiss G. Reducing the population burden of coronary heart disease by modifying adiposity: estimates from the ARIC Study. J Am Heart Assoc. 2020 Feb 18;9(4):e012214. doi: 10.1161/JAHA.119.012214. PMID: 32067578; PMCID: PMC7070207.

George KM, Folsom AR, Sharrett AR, **Mosley TH,** Gottesman RF, Hamedani AG, Lutsey PL. Migraine headache and risk of dementia in the Atherosclerosis Risk in Communities Neurocognitive Study. Headache. 2020 May;60(5):946-953. doi: 10.1111/head.13794. PMID: 32200562; PMCID: PMC7192135.

George KM, Folsom AR, Steffen LM, Wagenknecht LE, Mosley TH. Differences in cardiovascular mortality risk among African Americans in the Minnesota Heart Survey: 1985-2015 vs the Atherosclerosis Risk in Communities Study cohort: 1987-2015. Ethn Dis. 2019 Jan 17;29(1):47-52. doi: 10.18865/ed.29.1.47. PMID: 30713416; PMCID: PMC6343542.

George KM, Lutsey PL, Selvin E, Palta P, Windham BG, Folsom AR. Association between thyroid dysfunction and incident dementia in the Atherosclerosis Risk in Communities Neurocognitive Study. J Endocrinol Metab. 2019 Aug;9(4):82-89. doi: 10.14740/jem588. PMID: 32411312: PMCID: PMC7223793.

Giblin EM, Adams KF Jr, Hill L, Fonarow GC, Williams FB, Sharma PP, Albert NM, Butler J, DeVore AD, Duffy CI, Hernandez AF, McCague K, Spertus JA, Thomas L, Patterson JH. Comparison of hydralazine/nitrate and angiotensin receptor Neprilysin inhibitor use among Black versus Nonblack Americans with heart failure and reduced ejection fraction (from CHAMP-HF). Am J Cardiol. 2019 Dec 15;124(12):1900-1906. doi: 10.1016/j.amjcard.2019.09.020. PMID: 31679641.

Gillespie SL Anderson CM Zhao S Tan Y Kline D Brock G Odei L O'Brien F Sims M. Lazarus SA, Hood DB, Williams KP, Joseph JJ. Allostatic load in the association of depressive symptoms with incident coronary heart disease: the Jackson Heart Study. Psychoneuroendocrinology. 2019 Nov;109:104369. doi: 10.1016/j.psyneuen.2019.06.020. PMID: 31307010; PMCID: PMC7232849.

Glover LM, Cain-Shields LR, Spruill TM, O'Brien EC, Barber S, Loehr L, Sims M. Goal-striving stress and incident cardiovascular disease in Blacks: the Jackson Heart Study J Am Heart Assoc. 2020 May 5;9(9):e015707. doi: 10.1161/JAHA.119.015707. PMID: 32342735; PMCID: PMC7428553.

Glover LM, Cain-Shields LR, Wyatt SB, Gebreab SY, Diez-Roux AV, Sims M. Life course socioeconomic status and hypertension in African American adults: the Jackson Heart Study. Am J Hypertens, 2020 Jan 1:33(1):84-91, doi: 10.1093/aih/hpz133, PMID: 31420642; PMCID: PMC6931894

Gomillia CES, Backus KV, Brock JB, Melvin SC, Parham JJ, Mena LA. Rapid antiretroviral therapy (ART) initiation at a community-based clinic in Jackson, MS, AIDS Res Ther, 2020 Oct 8:17(1):60. doi: 10.1186/s12981-020-00319-7. PMID: 33032617: PMCID: PMC7545945.

Gosi SK, Kanduri S, Garla VV. Pituitary stalk interruption syndrome. BMJ Case Rep. 2019 Apr 14:12(4):e230133. doi: 10.1136/bcr-2019-230133. PMID: 30988112; PMCID: PMC6506087.

Gottesman RF, Mosley TH, Knopman DS, Hao Q, Wong D, Wagenknecht LE, Hughes TM, Qiao Y. Dearborn J. Wasserman BA. Association of intracranial atherosclerotic disease with brain β-amyloid deposition: secondary nalysis of the ARIC Study. JAMA Neurol. 2020 Mar 1;77(3):350-357. doi: 10.1001/jamaneurol.2019.4339. Erratum in: JAMA Neurol. 2020 Mar 1;77(3):394. PMID: 31860001; PMCID: PMC6990749.

Gracia E, Hamid A, Butler J. Timely management of new-onset heart failure. Circulation. 2019 Aug 20;140(8):621-623. doi: 10.1161/CIRCULATIONAHA.118.035452. PMID: 31424994.

Grams ME, Surapaneni A, Ballew SH, Appel LJ, Boerwinkle E, Boulware LE, Chen TK, Coresh J, Cushman M, Divers J, Gutiérrez OM, Irvin MR, Ix JH, Kopp JB, Kuller LH, Langefeld CD, Lipkowitz MS, Mukamal KJ, Musani SK, Naik RP, Pajewski NM, Peralta CA, Tin A, Wassel CL, Wilson JG, Winkler CA, Young BA, Zakai NA, Freedman BI. APOL1 kidney risk variants and cardiovascular disease: an individual participant data meta-enalysis. J Am Soc Nephrol. 2019 Oct;30(10):2027-2036. doi: 10.1681/ASN.2019030240. PMID: 31383730; PMCID: PMC6779370

Grasby KL, Jahanshad N, Painter JN, Colodro-Conde L, Bralten J, Hibar DP, Lind PA, Pizzagalli F, Ching CRK, McMahon MAB, Shatokhina N, Zsembik LCP, Thomopoulos SI, Zhu AH, Strike

LT, Agartz I, Alhusaini S, Almeida MAA, Alnæs D, Amlien IK, Andersson M, Ard T, Armstrong NJ, Ashley-Koch A, Atkins JR, Bernard M, Brouwer RM, Buimer EEL, Bülow R, Bürger C, Cannon DM. Chakravartv M. Chen Q. Cheung JW. Couvy-Duchesne B. Dale AM. Dalvie S. de Araujo TK, de Zubicaray GI, de Zwarte SMC, den Braber A, Doan NT, Dohm K, Ehrlich S, Engelbrecht HR, Erk S, Fan CC, Fedko IO, Foley SF, Ford JM, Fukunaga M, Garrett ME, Ge T, Giddaluru S. Goldman AL, Green MJ, Groenewold NA, Grotegerd D, Gurholt TP, Gutman BA, Hansell NK, Harris MA, Harrison MB, Haswell CC, Hauser M, Herms S, Heslenfeld DJ, Ho NF, Hoehn D, Hoffmann P, Holleran L, Hoogman M, Hottenga JJ, Ikeda M, Janowitz D, Jansen IE, Jia T, Jockwitz C, Kanai R, Karama S, Kasperaviciute D, Kaufmann T, Kelly S, Kikuchi M, Klein M, Knapp M, Knodt AR, Krämer B, Lam M, Lancaster TM, Lee PH, Lett TA, Lewis LB, Lopes-Cendes I, Luciano M, Macciardi F, Marquand AF, Mathias SR, Melzer TR, Milaneschi Y, Mirza-Schreiber N Moreira ICV Mühleisen TW Müller-Myhsok B Nait P Nakahara S Nho K Olde Loohuis LM, Orfanos DP, Pearson JF, Pitcher TL, Pütz B, Quidé Y, Ragothaman A, Rashid FM, Reay WR, Redlich R, Reinbold CS, Repple J, Richard G, Riedel BC, Risacher SL, Rocha CS, Mota NR, Salminen L, Saremi A, Saykin AJ, Schlag F, Schmaal L, Schofield PR, Secolin R, Shapland CY, Shen L, Shin J, Shumskaya E, Sønderby IE, Sprooten E, Tansey KE, Teumer A, Thalamuthu A, Tordesillas-Gutiérrez D, Turner JA, Uhlmann A, Vallerga CL, van der Meer D, van Donkelaar MMJ, van Eijk L, van Erp TGM, van Haren NEM, van Rooji D, van Tol MJ, Veldink JH, Verhoef E, Walton E, Wang M, Wang Y, Wardlaw JM, Wen W, Westlye LT, Whelan CD, Witt SH, Wittfeld K, Wolf C, Wolfers T, Wu JQ, Yasuda CL, Zaremba D, Zhang Z, Zwiers MP, Artiges E, Assareh AA, Avesa-Arriola R. Belger A. Brandt CL. Brown GG. Cichon S. Curran JE. Davies GE. Degenhardt F, Dennis MF, Dietsche B, Djurovic S, Doherty CP, Espiritu R, Garijo D, Gil Y, Gowland PA, Green RC, Häusler AN, Heindel W, Ho BC, Hoffmann WU, Holsboer F, Homuth G, Hosten N, Jack CR Jr. Jang M. Jansen A. Kimbrel NA. Kolskår K. Koops S. Krug A. Lim KO. Luvkx JJ. Mathalon DH, Mather KA, Mattay VS, Matthews S, Mayoral Van Son J, McEwen SC, Melle I, Morris DW, Mueller BA, Nauck M, Nordvik JE, Nöthen MM, O'Leary DS, Opel N, Martinot MP, Pike GB, Preda A. Quinlan EB. Rasser PE. Ratnakar V. Reppermund S. Steen VM. Tooney PA. Torres FR. Veltman DJ, Voyvodic JT, Whelan R, White T, Yamamori H, Adams HHH, Bis JC, Debette S, Decarli C, Fornage M, Gudnason V, Hofer E, Ikram MA, Launer L, Longstreth WT, Lopez OL, Mazoyer B, Mosley TH, Roshchupkin GV, Satizabal CL, Schmidt R, Seshadri S, Yang Q; Alzheimer's Disease Neuroimaging Initiative; CHARGE Consortium; EPIGEN Consortium; IMAGEN Consortium; SYS Consortium; Parkinson's Progression Markers Initiative, Alvim MKM, Ames D, Anderson TJ, Andreassen OA, Arias-Vasquez A, Bastin ME, Baune BT, Beckham JC, Blangero J, Boomsma DI, Brodaty H, Brunner HG, Buckner RL, Buitelaar JK, Bustillo JR, Cahn W, Cairns MJ, Calhoun V, Carr VJ, Caseras X, Caspers S, Cavalleri GL, Cendes F, Corvin A, Crespo-Facorro B, Dalrymple-Alford JC, Dannlowski U, de Geus EJC, Deary U, Delanty N, Depondt C, Desrivières S, Donohoe G, Espeseth T, Fernández G, Fisher SE, Flor H, Forstner AJ, Francks C, Franke B, Glahn DC, Gollub RL, Grabe HJ, Gruber O, Håberg AK, Hariri AR, Hartman CA, Hashimoto R, Heinz A, Henskens FA, Hillegers MHJ, Hoekstra PJ, Holmes AJ, Hong LE, Honkins WD, Hulshoff Pol HE, Jernigan TL, Jönsson EG, Kahn RS, Kennedy MA, Kircher TTJ, Kochunov P, Kwok JBJ, Le Hellard S, Loughland CM, Martin NG, Martinot JL, McDonald C, McMahon KL, Meyer-Lindenberg A. Michie PT, Morey RA, Mowry B, Nyberg L, Oosterlaan J, Ophoff RA, Pantelis C, Paus T, Pausova Z, Penninx BWJH, Polderman TJC, Posthuma D, Rietschel M, Roffman JL, Rowland LM, Sachdev PS, Sämann PG, Schall U, Schumann G, Scott RJ, Sim K, Sisodiya SM, Smoller JW, Sommer IE, St Pourcain B, Stein DJ, Toga AW, Trollor JN, Van der Wee NJA, van 't Ent D, Völzke H, Walter H, Weber B, Weinberger DR, Wright MJ, Zhou J, Stein JL, Thompson PM, Medland SE; Enhancing NeuroImaging Genetics through Meta-Analysis Consortium (ENIGMA)-Genetics working group. The genetic architecture of the human cerebral cortex. Science. 2020 Mar 20;367(6484):eaay6690. doi: 10.1126/science.aay6690. PMID: 32193296; PMCID: PMC7295264.

Greene SJ, Adusumalli S, Albert NM, Hauptman PJ, Rich MW, Heidenreich PA, Butler J; Heart Failure Society of America Quality of Care Committee. Building a heart failure clinic: a practical guide from the Heart Failure Society of America. J Card Fail. 2021 Jan;27(1):2-19. doi: 10.1016/j.cardfail.2020.10.008. Epub 2020 Oct 24. PMID: 33289664.

Greene SJ, Butler J. Primary prevention of heart failure in patients with type 2 diabetes mellitus. Circulation. 2019 Jan 8;139(2):152-154. doi: 10.1161/CIRCULATIONAHA.118.037599. PMID: 30615507; PMCID: PMC6834062

Greene SJ, DeVore AD, Sheng S, Fonarow GC, Butler J, Califf RM, Hernandez AF, Matsouaka RA, Samman Tahhan A, Thomas KL, Vaduganathan M, Yancy CW, Peterson ED, O'Connor CM, Mentz RJ. Representativeness of a heart failure trial by race and sex: results from ASCEND-HF and GWTG-HF. JACC Heart Fail. 2019 Nov;7(11):980-992. doi: 10.1016/j. jchf.2019.07.011. PMID: 31606362; PMCID: PMC7362664.

Greene SJ, Felker GM, Butler J. Outpatient versus inpatient worsening heart failure: distinquishing biology and risk from location of care. Eur J Heart Fail. 2019 Jan;21(1):121-124. doi: 10.1002/ejhf.1341. PMID: 30394644; PMCID: PMC6333499.

Greene SJ, Felker GM, Giczewska A, Kalogeropoulos AP, Ambrosy AP, Chakraborty H, DeVore AD, Fudim M, McNulty SE, Mentz RJ, Vaduganathan M, Hernandez AF, Butler J. Spironolactone in acute heart failure patients with renal dysfunction and risk factors for diuretic resistance: from the ATHENA-HF Trial. Can J Cardiol. 2019 Sep;35(9):1097-1105. doi: 10.1016/j. cjca.2019.01.022. PMID: 31230825; PMCID: PMC6685766.

Greene SJ, Fonarow GC, **Butler J.** Reply: Titration of guideline-directed medical therapy improves patient-centered outcomes in heart failure with reduced ejection fraction. J Am Coll Cardiol. 2019 Sep 10;74(10):1426-1427. doi: 10.1016/j.jacc.2019.06.061. PMID: 31488284.

Greene SJ, Fonarow GC, Butler J. Risk profiles in heart failure: baseline, residual, worsening, and advanced heart failure risk. Circ Heart Fail. 2020 Jun;13(6):e007132. doi: 10.1161/ CIRCHEARTFAILURE.120.007132. PMID: 32482088.

Greene SJ, Fonarow GC, DeVore AD, Sharma PP, Vaduganathan M, Albert NM, Duffy CI, Hill CL, McCague K, Patterson JH, Spertus JA, Thomas L, Williams FB, Hernandez AF, **Butler J.** Titration of medical therapy for heart failure with reduced ejection fraction. J Am Coll Cardiol. 2019 May 21;73(19):2365-2383. doi: 10.1016/j.jacc.2019.02.015. PMID: 30844480; PMCID: PMC7197490.

Griffin M, Rao VS, Ivey-Miranda J, Fleming J, Mahoney D, Maulion C, Suda N, Siwakoti K, Ahmad T, Jacoby D, Riello R, Bellumkonda L, Cox Z, Collins S, Jeon S, Turner JM, Wilson FP, **Butler J**, Inzucchi SE, Testani JM. Empagliflozin in heart failure: diuretic and cardiorenal effects. Circulation. 2020 Sep 15;142(11):1028-1039. doi: 10.1161/CIRCULATIONAHA.120.045691. PMID: 32410463; PMCID: PMC7521417.

Griswold M, Windham BG, Henegan J, Bandeen-Roche K, McMullan M, Kucharska-Newton A, Palta P, Mosley T. Conceptualizing resilience: impacts of adverse stressor severity, chronicity, and relevance. Innov Aging. 2020 Dec 16;4(Suppl 1):828. doi: 10.1093/geroni/ igaa057.3028. PMCID: PMC7742875.

Grodin JL, Liebo MJ, **Butler J**, Metra M, Felker GM, Hernandez AF, Voors AA, McMurray JJ, Armstrong PW, O'Connor C, Starling RC, Troughton RW, Tang WHW. Prognostic implications of changes in amino-terminal Pro-B-Type natriuretic peptide in acute decompensated heart failure: insights from ASCEND-HF. J Card Fail. 2019 Sep;25(9):703-711. doi: 10.1016/j. cardfail.2019.04.002. PMID: 30953792.

Guan M, Keaton JM, Dimitrov L, Hicks PJ, Xu J, Palmer ND, Ma L, Das SK, Chen YI, Coresh J, Fornage M, Franceschini N, Kramer H, Langefeld CD, Mychaleckyj JC, Parekh RS, Post WS, Rasmussen-Torvik LJ, Rich SS, Rotter JI, Sedor JR, Thornley-Brown D, **Tin A**, Wilson JG, Freedman BI, Bowden DW, Ng MCY; FIND Consortium. Genome-wide association study identifies novel loci for type 2 diabetes-attributed end-stage kidney disease in African Americans. Hum Genomics. 2019 May 15;13(1):21. doi: 10.1186/s40246-019-0205-7. PMID: 31092297; PMCID: PMC6521376.

Gunturu M, Gosi SK, Kanduri S, **Garla V.** Varicella zoster meningitis, optic neuritis preceding the development of posterior outer retinal necrosis, and central retinal artery occlusion in a HIV Patient. Case Rep Med. 2019 Jul 28;2019:4213162. doi: 10.1155/2019/4213162. PMID: 31467556: PMCID: PMC6701357.

Gutierrez A, Norby FL, Maheshwari A, Rooney MR, Gottesman RF, **Mosley TH**, Lutsey PL, Oldenburg N, Soliman EZ, Alonso A, Chen LY. Association of abnormal p-wave indices with dementia and cognitive decline over 25 years: ARIC-NCS (The Atherosclerosis Risk in Communities Neurocognitive Study). J Am Heart Assoc. 2019 Dec 17;8(24):e014553. doi: 10.1161/JAHA.119.014553. PMID: 31830872; PMCID: PMC6951047.

Haggerty CM, Damrauer SM, Levin MG, Birtwell D, Carey DJ, Golden AM, Hartzel DN, Hu Y, Judy R, Kelly MA, Kember RL, Lester Kirchner H, Leader JB, Liang L, McDermott-Roe C, Babu A, Morley M, Nealy Z, Person TN, Pulenthiran A, Small A, Smelser DT, Stahl RC, Sturm AC, Williams H, Baras A, Margulies KB, Cappola TP, Dewey FE, Verma A, Zhang X, Correa A, **Hall ME,** Wilson JG, Ritchie MD, Rader DJ, Murray MF, Fornwalt BK, Arany Z. Genomics-first evaluation of heart disease associated with titin-truncating variants. Circulation. 2019 Jul 2;140(1):42-54. doi: 10.1161/CIRCULATIONAHA.119.039573. Erratum in: Circulation. 2019 Oct 15;140(16):e727. PMID: 31216868; PMCID: PMC6602806.

Hajifathalian K, Ichkhanian Y, Dawod Q, Meining A, Schmidt A, Glaser N, Vosoughi K, Diehl DL, Grimm IS, James T, Templeton AW, Samarasena JB, Chehade NEH, Lee JG, Chang KJ, Mizrahi M, Barawi M, Irani S, Friedland S, Korc P, Aadam AA, Al-Haddad M, Kowalski TE, Smallfield G, Ginsberg GG, Fukami N, Lajin M, Kumta NA, **Tang SJ**, Naga Y, Amateau SK, Kasmin F, Goetz M, Seewald S, Kumbhari V, Ngamruengphong S, Mahdev S, Mukewar S, Sampath K, Carr-Locke DL, Khashab MA, Sharaiha RZ. Full-thickness resection device (FTRD) for treatment of upper gastrointestinal tract lesions: the first international experience. Endosc Int Open. 2020 Oct;8(10):E1291-E1301. doi: 10.1055/a-1216-1439. PMID: 33015330; PMCID: PMC7508667.

Hasanin M, Amin O, Hassan H, Kedar A, **Griswold M**, Abell TL. Temporary gastric stimulation in patients with gastroparesis symptoms: low-resolution mapping multiple versus single mucosal lead electrograms. Gastroenterology Res. 2019 Apr;12(2):60-66. doi: 10.14740/ qr1127. PMID: 31019614; PMCID: PMC6469903.

Hall JE, do Carmo JM, da Silva AA, Wang Z, **Hall ME.** Obesity, kidney dysfunction and hypertension: mechanistic links. Nat Rev Nephrol. 2019 Jun;15(6):367-385. doi: 10.1038/ s41581-019-0145-4. PMID: 31015582; PMCID: PMC7278043.

Hall JE, **Hall ME.** Cardiometabolic surgery for treatment of hypertension? Hypertension. 2019 Mar;73(3):543-546. doi: 10.1161/HYPERTENSIONAHA.118.12369. PMID: 30661476; PMCID: PMC6374201.

Hall ME, Clark D 3rd, Jones DW. Fat and cardiometabolic risk: location, location, location. J Clin Hypertens (Greenwich). 2019 Jul;21(7):963-965. doi: 10.1111/jch.13594. PMID: 31222936; PMCID: PMC6640120.

Hall ME, Hamid A, Oshunbade AA. The eyes. Circ Res. 2019 Jun 7;124(12):1692-1694. doi: 10.1161/CIRCRESAHA.119.315139. PMID: 31170057; PMCID: PMC6719715.

Hall ME, Kamimura D. Treating obesity in heart failure: a big, fat void. JACC Heart Fail. 2019 Aug;7(8):688-690. doi: 10.1016/j.jchf.2019.06.001. PMID: 31302051; PMCID: PMC6893857.

Hall ME, Vaduganathan M, Khan MS, Papadimitriou L, Long RC, Hernandez GA, Moore CK, Lennep BW, McMullan MR, Butler J. Reductions in heart failure hospitalizations during the COVID-19 pandemic. J Card Fail. 2020 Jun;26(6):462-463. doi: 10.1016/j.card-fail.2020.05.005. PMID: 32405232; PMCID: PMC7219367.

Hall RK, Davenport CA, **Sims M**, Colón-Emeric C, Washington T, St Clair Russell J, Pendergast J, Bhavsar N, Scialla J, Tyson CC, Wang W, **Min YI**, Young B, Boulware LE, Diamantidis CJ. Association of functional and structural social support with chronic kidney disease among African Americans: the Jackson Heart Study. BMC Nephrol. 2019 Jul 15;20(1):262. doi: 10.1186/s12882-019-1432-9. PMID: 31307430; PMCID: PMC6633656.

Hamid A, Vaduganathan M, Oshunbade AA, Ayyalasomayajula KK, Kalogeropoulos AP, Lien LF, Shafi T, **Hall ME, Butler J.** Antihyperglycemic therapies with expansions of US Food and Drug Administration indications to reduce cardiovascular events: prescribing patterns within an academic medical center. J Cardiovasc Pharmacol. 2020 Sep;76(3):313-320. doi: 10.1097/FJC.00000000000864. PMID: 32569016.

Hamo CE, Fonarow GC, Greene SJ, Vaduganathan M, Yancy CW, Heidenreich P, Lu D, Matsouaka RA, DeVore AD, **Butler J.** Temporal trends in risk profiles among patients hospitalized for heart failure. Am Heart J. 2021 Feb;232:154-163. doi: 10.1016/j.ahj.2020.11.015. Epub 2020 Nov 29. PMID: 33264607; PMCID: PMC8120737.

He KY, Li X, Kelly TN, Liang J, Cade BE, Assimes TL, Becker LC, Beitelshees AL, Bress AP, Chang YC, Chen YI, de Vries PS, **Fox ER**, Franceschini N, Furniss A, Gao Y, Guo X, Haessler J, Hwang SJ, Irvin MR, Kalyani RR, Liu CT, Liu C, Martin LW, Montasser ME, Muntner PM, Mwasongwe S, Palmas W, Reiner AP, Shimbo D, Smith JA, Snively BM, Yanek LR, Boerwinkle E, Correa A, Cupples LA, He J, Kardia SLR, Kooperberg C, Mathias RA, Mitchell BD, Psaty BM, Vasan RS, Rao DC, Rich SS, Rotter JI, Wilson JG; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium, TOPMed Blood Pressure Working Group, Chakravarti A, Morrison AC, Levy D, Arnett DK, Redline S, Zhu X. Leveraging linkage evidence to identify low-frequency and rare variants on 16p13 associated with blood pressure using TOPMed whole genome sequencing data. Hum Genet. 2019 Feb;138(2):199-210. doi: 10.1007/s00439-019-01975-0. PMID: 30671673; PMCID: PMC6404531.

Hicks CW, Wang D, Daya NR, **Windham BG**, Ballantyne CM, Matsushita K, Selvin E. Associations of cardiac, kidney, and diabetes biomarkers with peripheral neuropathy among older adults in the Atherosclerosis Risk in Communities (ARIC) Study. Clin Chem. 2020 May 1;66(5):686-696. doi: 10.1093/clinchem/hvaa051. PMID: 32268368; PMCID: PMC7192523.

Hicks CW, Wang D, **Windham BG**, Selvin E. Association of peripheral neuropathy with erectile dysfunction in US men. Am J Med. 2021 Feb;134(2):282-284. doi: 10.1016/j.am-jmed.2020.07.015. PMID: 32805230; PMCID: PMC7870518.

Hilal T. Progress in acute myeloid leukaemia: small molecular inhibitors with small benefits. Ecancermedicalscience. 2020 Feb 27;14:1015. doi: 10.3332/ecancer.2020.1015. PMID: 32256698; PMCID: PMC7105340.

Hilal T, Gonzalez-Velez M, Prasad V. Limitations in clinical trials leading to anticancer drug approvals by the US Food and Drug Administration. JAMA Intern Med. 2020 Aug 1;180(8):1108-1115. doi: 10.1001/jamainternmed.2020.2250. PMID: 32539071; PMCID: PMC7296449.

Hilal T, Munoz J. Choosing Wisely® in hematology: have we made a difference? Curr Hematol Malig Rep. 2020 Aug;15(4):241-247. doi: 10.1007/s11899-020-00593-2. PMID: 32533390; PMCID: PMC7291941.

Hodis JD, Gottesman RF, **Windham BG**, Knopman DS, Lutsey PL, Walker KA, Alonso A. Association of hypertension according to New American College of Cardiology/American Heart Association blood pressure guidelines with incident dementia in the ARIC Study cohort. J Am Heart Assoc. 2020 Nov 17;9(22):e017546. doi: 10.1161/JAHA.120.017546. PMID: 33170065; PMCID: PMC7763722.

Hofer E, Roshchupkin GV, Adams HHH, Knol MJ, Lin H, Li S, Zare H, Ahmad S, Armstrong NJ, Satizabal CL, Bernard M, Bis JC, Gillespie NA, Luciano M, Mishra A, Scholz M, Teumer A, Xia R, Jian X, **Mosley TH**, Saba Y, Pirpamer L, Seiler S, Becker JT, Carmichael O, Rotter JI, Psaty BM, Lopez OL, Amin N, van der Lee SJ, Yang Q, Himali JJ, Maillard P, Beiser AS, DeCarli C, Karama S, Lewis L, Harris M, Bastin ME, Deary IJ, Veronica Witte A, Beyer F, Loeffler M, Mather KA, Schofield PR, Thalamuthu A, Kwok JB, Wright MJ, Ames D, Trollor J, Jiang J, Brodaty H, Wen W, Vernooij MW, Hofman A, Uitterlinden AG, Niessen WJ, Wittfeld K, Bülow R, Völker U, Pausova Z, Bruce Pike G, Maingault S, Crivello F, Tzourio C, Amouyel P, Mazoyer B, Neale MC, Franz CE, Lyons MJ, Panizzon MS, Andreassen OA, Dale AM, Logue M, Grasby KL, Jahanshad N, Painter JN, Colodro-Conde L, Bralten J, Hibar DP, Lind PA, Pizzagalli F, Stein JL, Thompson PM, Medland SE; ENIGMA consortium, Sachdev PS, Kremen WS, Wardlaw JM, Villringer A, van Duijn CM, Grabe HJ, Longstreth WT Jr, Fornage M, Paus T, Debette S, Ikram MA, Schmidt H, Schmidt R, Seshadri S. Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. Nat Commun. 2020 Sep 22;11(1):4796. doi: 10.1038/s41467-020-18367-y. PMID: 32963231; PMCID: PMC7508833.

Hollenberg SM, Warner Stevenson L, Ahmad T, Amin VJ, Bozkurt B, **Butler J**, Davis LL, Drazner MH, Kirkpatrick JN, Peterson PN, Reed BN, Roy CL, Storrow AB. 2019 ACC expert consensus decision pathway on risk assessment, management, and clinical trajectory of patients hospitalized with heart failure: a report of the American College of Cardiology Solution Set Oversight Committee. J Am Coll Cardiol. 2019 Oct 15;74(15):1966-2011. doi: 10.1016/j. jacc.2019.08.001. Erratum in: J Am Coll Cardiol. 2020 Jan 7;75(1):132. PMID: 31526538.

Horbal SR, **Hall ME,** Dinh PC, Smiley A, **Musani SK,** Liu J, Taylor HA, **Fox ER,** Bidulescu A. Associations of adiponectin and leptin with brain natriuretic peptide in African Americans: the Jackson Heart Study. Cardiovasc Endocrinol Metab. 2020 May 15;9(2):49-55. doi: 10.1097/XCE.00000000000198. PMID: 32537565; PMCID: PMC7228776. Horton WB, Law S, Darji M, Conaway MR, Akbashev MY, Kubiak NT, Kirby JL, **Thigpen SC.** A multicenter study evaluating perceptions and knowledge of inpatient glycemic control among resident physicians: analyzing themes to inform and improve care. Endocr Pract. 2019 Aug 14. doi: 10.4158/EP-2019-0299. PMID 31412227.

Horton WB, Law S, Darji M, Conaway MR, Kubiak NT, Kirby JL, **Thigpen SC.** Construction and preliminary evaluation of the inpatient glycemic control questionnaire (IGCQ): A survey tool assessing perceptions and knowledge of resident physicians. *BMC Med Educ*. 2019 Jun 24;19(1):228. PMID 31234836.

Hu JR, Grams ME, Coresh J, Hwang S, Kovesdy CP, Guallar E, Rhee EP, **Shafi T.** Serum metabolites and cardiac death in patients on hemodialysis. Clin J Am Soc Nephrol. 2019 May 7;14(5):747-749. doi: 10.2215/CJN12691018. PMID: 30962187; PMCID: PMC6500939.

Iborra-Egea O, Santiago-Vacas E, Yurista SR, Lupón J, Packer M, Heymans S, Zannad F, **Butler J**, Pascual-Figal D, Lax A, Núñez J, de Boer RA, Bayés-Genís A. Unraveling the molecular mechanism of action of Empagliflozin in heart failure with reduced ejection fraction with or without diabetes. JACC Basic Transl Sci. 2019 Oct 23;4(7):831-840. doi: 10.1016/j.jacbts.2019.07.010. PMID: 31998851; PMCID: PMC6978551.

Ibrahim NE, Burnett JC Jr, **Butler J,** Camacho A, Felker GM, Fiuzat M, O'Connor C, Solomon SD, Vaduganathan M, Zile MR, Januzzi JL Jr. Natriuretic peptides as inclusion criteria in clinical trials: a JACC heart failure position paper. JACC Heart Fail. 2020 May;8(5):347-358. doi: 10.1016/j. jchf.2019.12.010. PMID: 32171762.

Ibrahim NE, Piña IL, Camacho A, Bapat D, Felker GM, Maisel AS, **Butler J,** Prescott MF, Abbas CA, Solomon SD, Januzzi JL Jr; Prospective Study of Biomarkers, Symptom Improvement and Ventricular Remodeling During Entresto Therapy for Heart Failure (PROVE-HF) Study Investigators. Racial and ethnic differences in biomarkers, health status, and cardiac remodeling in patients with heart failure with reduced ejection fraction treated with Sacubitril/Valsartan. Circ Heart Fail. 2020 Nov;13(11):e007829. doi: 10.1161/CIRCHEARTFAILURE.120.007829. PMID: 33016100; PMCID: PMC7769180.

Ibrahim NE, Piña IL, Camacho A, Bapat D, Felker GM, Maisel AS, **Butler J**, Prescott MF, Abbas CA, Solomon SD, Januzzi JL Jr; Prospective Study of Biomarkers, Symptom Improvement and Ventricular Remodeling During Entresto Therapy for Heart Failure (PROVE-HF) Study Investigators. Sex-based differences in biomarkers, health status, and reverse cardiac remodelling in patients with heart failure with reduced ejection fraction treated with sacubitril/valsartan. Eur J Heart Fail. 2020 Nov;22(11):2018-2025. doi: 10.1002/ejhf.2005. PMID: 32946164; PMCID: PMC7756516.

Islam SJ, Kim JH, Topel M, Liu C, Ko YA, Mujahid MS, **Sims M,** Mubasher M, Ejaz K, Morgan-Billingslea J, Jones K, Waller EK, Jones D, Uppal K, Dunbar SB, Pemu P, Vaccarino V, Searles CD, Baltrus P, Lewis TT, Quyyumi AA, Taylor H. Cardiovascular risk and resilience among Black adults: rationale and design of the MECA Study. J Am Heart Assoc. 2020 May 5;9(9):e015247. doi: 10.1161/ JAHA.119.015247. PMID: 32340530; PMCID: PMC7428584.

Jackson CL, Ward JB, Johnson DA, **Sims M**, Wilson J, Redline S. Concordance between self-reported and actigraphy-assessed sleep duration among African-American adults: findings from the Jackson Heart Sleep Study. Sleep. 2020 Mar 12;43(3):zsz246. doi: 10.1093/sleep/zsz246. PMID: 31616945; PMCID: PMC7066489.

Jaeger BC, Anstey DE, Bress AP, Booth JN 3rd, Butler M, **Clark D 3rd**, Howard G, Kalinowski J, Long DL, Ogedegbe G, Plante TB, Shimbo D, **Sims M**, Supiano MA, Whelton PK, Muntner P. Cardiovascular disease and mortality in adults aged ≥60 years according to recommendations by the American College of Cardiology/American Heart Association and American College of Physicians/American Academy of Family Physicians. Hypertension. 2019 Feb;73(2):327-334. doi: 10.1161/HYPERTENSIONAHA.118.12291. PMID: 30595115; PMCID: PMC6392064.

Januzzi JL Jr, **Butler J,** Sattar N, Xu J, Shaw W, Rosenthal N, Pfeifer M, Mahaffey KW, Neal B, Hansen MK. Insulin-like growth factor binding protein 7 predicts renal and cardiovascular outcomes in the Canagliflozin Cardiovascular Assessment Study. Diabetes Care. 2021 Jan;44(1):210-216. doi: 10.2337/dc20-1889. Epub 2020 Nov 6. PMID: 33158949.

Januzzi JL Jr, Camacho A, Piña IL, Rocha R, Williamson KM, Maisel AS, Felker GM, Prescott MF, **Butler J,** Solomon SD; PROVE-HF Investigators. Reverse cardiac remodeling and outcome after initiation of Sacubitril/Valsartan. Circ Heart Fail. 2020 Jun;13(6):e006946. doi: 10.1161/CIRCHEART-FAILURE.119.006946. PMID: 32482089.

Januzzi JL Jr, Prescott MF, **Butler J**, Felker GM, Maisel AS, McCague K, Camacho A, Piña IL, Rocha RA, Shah AM, Williamson KM, Solomon SD; PROVE-HF Investigators. Association of change in N-terminal Pro-B-Type natriuretic peptide following initiation of Sacubitril-Valsartan treatment with cardiac structure and function in patients with heart failure with reduced ejection fraction. JAMA. 2019 Sep 17;322(11):1085-1095. doi: 10.1001/jama.2019.12821. PMID: 31475295; PMCID: PMC6724151.

Jian X, Sofer T, Tarraf W, Bressler J, Faul JD, Zhao W, Ratliff SM, Lamar M, Launer LJ, Laurie CC, Schneiderman N, Weir DR, Wright CB, Yaffe K, Zeng D, DeCarli C, **Mosley TH**, Smith JA, González HM, Fornage M. Genome-wide association study of cognitive function in diverse Hispanics/Latinos: results from the Hispanic Community Health Study/Study of Latinos. Transl Psychiatry. 2020 Jul 22;10(1):245. doi: 10.1038/s41398-020-00930-2. PMID: 32699239; PMCID: PMC7376098.

Jiang X, Finucane HK, Schumacher FR, Schmit SL, Tyrer JP, Han Y, Michailidou K, Lesseur C, Kuchenbaecker KB, Dennis J, Conti DV, Casey G, Gaudet MM, Huyghe JR, Albanes D, Aldrich MC, Andrew AS, Andrulis IL, Anton-Culver H, Antoniou AC, Antonenkova NN, Arnold SM, Aronson KJ, Arun BK, Bandera EV, Barkardottir RB, Barnes DR, Batra J, Beckmann MW,

Benitez J, Benlloch S, Berchuck A, Berndt SI, Bickeböller H, Bien SA, Blomqvist C, Boccia S, Bogdanova NV, Bojesen SE, Bolla MK, Brauch H, Brenner H, Brenton JD, Brook MN, Brunet L Brunnström H. Buchanan DD. Burwinkel B. Butzow R. Cadoni G. Caldés T. Caligo MA Campbell I, Campbell PT, Cancel-Tassin G, Cannon-Albright L, Campa D, Caporaso N, Carvalho AL, Chan AT, Chang-Claude J, Chanock SJ, Chen C, Christiani DC, Claes KBM, Claessens F, Clements J, Collée JM, Correa MC, Couch FJ, Cox A, Cunningham JM, Cybulski C, Czene K, Daly MB, deFazio A, Devilee P, Diez O, Gago-Dominguez M, Donovan JL, Dörk T, Duell EJ, Dunning AM, Dwek M, Eccles DM, Edlund CK, Edwards DRV, Ellberg C, Evans DG, Fasching PA, Ferris RL, Liloglou T, Figueiredo JC, Fletcher O, Fortner RT, Fostira F, Franceschi S, Friedman E, Gallinger SJ, Ganz PA, Garber J, García-Sáenz JA, Gayther SA, Giles GG, Godwin AK, Goldberg MS, Goldgar DE, Goode EL, Goodman MT, Goodman G, Grankvist K, Greene MH, Gronberg H. Gronwald J. Guénel P. Håkansson N. Hall P. Hamann IJ. Hamdy FC. Hamilton RJ, Hampe J, Haugen A, Heitz F, Herrero R, Hillemanns P, Hoffmeister M, Høgdall E, Hong YC, Hopper JL, Houlston R, Hulick PJ, Hunter DJ, Huntsman DG, Idos G, Imyanitov EN, Ingles SA, Isaacs C, Jakubowska A, James P, Jenkins MA, Johansson M, Johansson M, John EM, Joshi AD, Kaneva R, Karlan BY, Kelemen LE, Kühl T, Khaw KT, Khusnutdinova E, Kibel AS, Kiemeney LA, Kim J, Kjaer SK, Knight JA, Kogevinas M, Kote-Jarai Z, Koutros S, Kristensen VN. Kuprvianczyk J. Lacko M. Lam S. Lambrechts D. Landi MT. Lazarus P. Le ND. Lee E. Lejbkowicz F, Lenz HJ, Leslie G, Lessel D, Lester J, Levine DA, Li L, Li CI, Lindblom A, Lindor NM, Liu G, Loupakis F, Lubiński J, Maehle L, Maier C, Mannermaa A, Marchand LL, Margolin S. May T. McGuffog L. Meindl A. Middha P. Miller A. Milne RL. MacInnis R.J. Modugno F. Montagna M, Moreno V, Moysich KB, Mucci L, Muir K, Mulligan AM, Nathanson KL, Neal DE, Ness AR, Neuhausen SL, Nevanlinna H, Newcomb PA, Newcomb LF, Nielsen FC, Nikitina-Zake L, Nordestgaard BG Nussbaum RL Offit K Olah F Olama AAA Olopade OL Olshan AF Olsson H, Osorio A, Pandha H, Park JY, Pashayan N, Parsons MT, Pejovic T, Penney KL, Peters WHM, Phelan CM, Phipps AI, Plaseska-Karanfilska D, Pring M, Prokofyeva D, Radice P, Stefansson K. Ramus SJ, Raskin L, Rennert G, Rennert HS, van Rensburg EJ, Riggan MJ, Risch HA, Risch A, Roobol MJ, Rosenstein BS, Rossing MA, De Ruyck K, Saloustros E, Sandler DP, Sawyer EJ, Schabath MB, Schleutker J, Schmidt MK, Setiawan VW, Shen H, Siegel EM, Sieh W, Singer CF, Slattery ML, Sorensen KD, Southey MC, Spurdle AB, Stanford JL, Stevens VL, Stintzing S, Stone J, Sundfeldt K, Sutphen R, Swerdlow AJ, Tajara EH, Tangen CM, Tardon A, Taylor JA, Teare MD, Teixeira MR, Terry MB, Terry KL, Thibodeau SN, Thomassen M, Bjørge L, Tischkowitz M. Toland AE, Torres D. Townsend PA, Travis RC, Tung N, Tworoger SS, Ulrich CM, Usmani N, Vachon CM, Van Nieuwenhuysen E, Vega A, Aguado-Barrera ME, Wang Q, Webb PM, Weinberg CR, Weinstein S, Weissler MC, Weitzel JN, West CML, White E, Whittemore AS, Wichmann HE, Wiklund F, Wingvist R, Wolk A, Woll P, Woods M, Wu AH, Wu X, Yannoukakos D, Zheng W, Zienolddiny S, Ziogas A, Zorn KK, Lane JM, Saxena R, Thomas D, Hung RJ, Diergaarde B, McKay J, Peters U, Hsu L, García-Closas M, Eeles RA, Chenevix-Trench G, Brennan PJ, Haiman CA, Simard J, Easton DF, Gruber SB, Pharoah PDP, Price AL, Pasaniuc B, Amos CI, Kraft P, Lindström S. Shared heritability and functional enrichment across six solid cancers. Nat Commun. 2019 Jan 25;10(1):431. doi: 10.1038/s41467-018-08054-4. Erratum in: Nat Commun. 2019 Sep 23;10(1):4386. PMID: 30683880; PMCID: PMC6347624.

Johansen MC, **Mosley TH**, Knopman DS, Wong DF, Ndumele C, Shah AM, Solomon SD, Gottesman RF. Associations between atrial cardiopathy and cerebral amyloid: the ARIC-PET Study. J Am Heart Assoc. 2020 Dec 15;9(24):e018399. doi: 10.1161/JAHA.120.018399. PMID: 33289449; PMCID: PMC7955392.

Johansen MC, **Mosley TH**, Knopman DS, Wong DF, Wagenknecht LE, Shah AM, Solomon SD, Gottesman RF. Associations between left ventricular structure, function, and cerebral amyloid: the ARIC-PET Study. Stroke. 2019 Dec;50(12):3622-3624. doi: 10.1161/STROKEA-HA.119.027220. PMID: 31597548; PMCID: PMC6878182.

Johnson AN, Harkema JR, Nelson AJ, Dickinson JD, Kalil J, Duryee MJ, Thiele GM, Kumar B, Singh AB, Gaurav R, **Glover SC**, Tang Y, Romberger DJ, Kielian T, Poole JA. MyD88 regulates a prolonged adaptation response to environmental dust exposure-induced lung disease. Respir Res. 2020 Apr 22;21(1):97. doi: 10.1186/s12931-020-01362-8. PMID: 32321514; PMCID: PMC7178993.

Johnson DA, Javaheri S, Guo N, Champion CL, Sims JF, Brock MP, **Sims M**, Patel SR, Williams DR, Wilson JG, Redline S. Objective measures of sleep apnea and actigraphy-based sleep characteristics as correlates of subjective sleep quality in an epidemiologic study: the Jackson Heart Sleep Study. Psychosom Med. 2020 Apr;82(3):324-330. doi: 10.1097/ PSY.000000000000778. PMID: 31860528; PMCID: PMC7367081.

Jones DW, **Clark D 3rd, Hall ME.** Preterm birth is associated with increased blood pressure in young adults: important opportunities for blood pressure management. J Am Heart Assoc. 2019 Jun 18;8(12):e013109. doi: 10.1161/JAHA.119.013109. PMID: 31164028; PMCID: PMC6645629.

Jones DW, **Clark D 3rd, Wofford MR.** Prevalence of apparent treatment-resistant hypertension. Hypertension. 2019 Feb;73(2):286-287. doi: 10.1161/HYPERTENSIONAHA.118.12271. PMID: 30580693; PMCID: PMC6424125.

Juraschek SP, Daya N, Appel LJ, Miller ER 3rd, Matsushita K, Michos ED, **Windham BG**, Ballantyne CM, Selvin E. Subclinical cardiovascular disease and fall risk in older adults: results from the Atherosclerosis Risk in Communities Study. J Am Geriatr Soc. 2019 Sep;67(9):1795-1802. doi: 10.1111/jgs.16041. PMID: 31493355; PMCID: PMC6733582.

Kaczmarski KR, Sozio SM, Chen J, Sang Y, **Shafi T.** Resistant hypertension and cardiovascular disease mortality in the US: results from the National Health and Nutrition Examination Survey (NHANES). BMC Nephrol. 2019 Apr 25;20(1):138. doi: 10.1186/s12882-019-1315-0. PMID: 31023262; PMCID: PMC6485047.

Kalogeropoulos AP, Butler J. The other serelaxin in acute heart failure study: lessons from a pragmatic clinical trial. Eur J Heart Fail. 2019 Mar;21(3):334-336. doi: 10.1002/ejhf.1416. PMID: 30688399

Kalogeropoulos AP, Goulbourne C, Butler J. Diagnosis and prevention of hypertensive heart failure. Heart Fail Clin. 2019 Oct;15(4):435-445. doi: 10.1016/j.hfc.2019.05.001. PMID: 31472879

Kalogeropoulos A, Papadimitriou L, Georgiopoulou VV, Dunbar SB, Skopicki H, Butler J. Low-versus moderate-sodium diet in patients with recent hospitalization for heart failure: the PROHIBIT (Prevent Adverse Outcomes in Heart Failure by Limiting Sodium) Pilot Study. Circ Heart Fail. 2020 Jan;13(1):e006389. doi: 10.1161/CIRCHEARTFAILURE.119.006389. PMID: 31959014; PMCID: PMC7233690.

Kalogeropoulos AP, Thankachen J, Butler J, Fang JC. Diuretic and renal effects of spironolactone and heart failure hospitalizations: a TOPCAT Americas analysis. Eur J Heart Fail. 2020 Sep;22(9):1600-1610. doi: 10.1002/ejhf.1917. PMID: 32469156.

Kamimura D, Valle KA, Blackshear C, Mentz RJ, Yeboah J, Rodriguez CJ, Herrington DM, Suzuki T, Clark D 3rd, Fox ER, Shah AM, Stacey RB, Hundley WG, Correa A, Butler J, Hall **ME.** Relation of low normal left ventricular ejection fraction to heart failure hospitalization in Blacks (from the Jackson Heart Study). Am J Cardiol. 2020 Dec 1;136:100-106. doi: 10.1016/j. amjcard.2020.08.025. Epub 2020 Sep 8. PMID: 32910930.

Kanduri SR, Cheungpasitporn W, Thongprayoon C, Bathini T, Kovvuru K, Garla V, Medaura J, Vaitla P, Kashani KB. Incidence and mortality of acute kidney injury in patients undergoing hematopoietic stem cell transplantation: a systematic review and meta-analysis. QJM. 2020 Sep 1;113(9):621-632. doi: 10.1093/qjmed/hcaa072. PMID: 32101318; PMCID: PMC7828586.

Kanduri SR, Kovvuru K, Hansrivijit P, Thongprayoon C, Vallabhajosyula S, Pivovarova AI, Chewcharat A, Garla V, Medaura J, Cheungpasitporn W. SGLT2 inhibitors and kidney outcomes in patients with chronic kidney disease. J Clin Med. 2020 Aug 24;9(9):2723. doi: 10.3390/jcm9092723. PMID: 32846935; PMCID: PMC7564486.

Kassahun-Yimer W. Valle KA. Oshunbade AA. Hall ME. Min YI. Cain-Shields L. Anugu P. **Correa A.** Joint modelling of longitudinal lipids and time to coronary heart disease in the Jackson Heart Study. BMC Med Res Methodol. 2020 Dec 3;20(1):294. doi: 10.1186/s12874-020-01177-7. PMID: 33272219: PMCID: PMC7713018.

Kaul S, Stockbridge N, **Butler J.** Benefit-risk tradeoffs in assessment of new drugs and devices. Circulation. 2020 Nov 17;142(20):1974-1988. doi: 10.1161/CIRCULATIONA-HA120.048933 PMID: 33196311

Kesireddy V, Tan Y, Kline D, Brock G, Odei JB, Kluwe B, Effoe VS, Echouffo Tcheugui JB, Kalyani RR, Sims M, Taylor HA, Mongraw-Chaffin M, Akhabue E, Joseph JJ. The association of Life's Simple 7 with aldosterone among African Americans in the Jackson Heart Study. Nutrients. 2019 Apr 26;11(5):955. doi: 10.3390/nu11050955. PMID: 31035479; PMCID: PMC6566676

Khan H, Anker SD, Januzzi JL Jr, McGuire DK, Sattar N, Woerle HJ, **Butler J.** Heart failure epidemiology in patients with diabetes mellitus without coronary heart disease. J Card Fail. 2019 Feb;25(2):78-86. doi: 10.1016/j.cardfail.2018.10.015. PMID: 30423457.

Khan MS, Butler J. Heart failure prevention with sodium-glucose cotransporter 2 inhibitors. J Diabetes. 2019 Jul;11(7):601-604. doi: 10.1111/1753-0407.12932. PMID: 31044514; PMCID: PMC6592728.

Khan MS, Butler J. Hydroxychloroquine as postexposure prophylaxis for Covid-19. N Engl J Med. 2020 Sep 10;383(11):1088. doi: 10.1056/NEJMc2023617. PMID: 32668107.

Khan MS, Butler J. Sodium-glucose cotransporter-2 inhibitors and heart failure prevention in type 2 diabetes. Card Fail Rev. 2019 Nov 4;5(3):169-172. doi: 10.15420/cfr.2019.06.R1. PMID: 31768274: PMCID: PMC6848945.

Khan MS, Butler J. Targeting mitochondrial function in heart failure: makes sense but will it work? JACC Basic Transl Sci. 2019 Apr 29;4(2):158-160. doi: 10.1016/j.jacbts.2019.03.003. PMID: 31061917; PMCID: PMC6488740.

Khan MS, **Butler J,** Greene SJ. Recognizing the significance of outpatient worsening heart failure. J Am Heart Assoc. 2020 Jul 21;9(14):e017485. doi: 10.1161/JAHA.120.017485. PMID: 32662304; PMCID: PMC7660711

Khan MS, **Butler J,** Greene SJ. Patient-reported outcomes for heart failure with preserved ejection fraction: conducting quality studies on quality of life. Eur J Heart Fail. 2020 Jun:22(6):1019-1021. doi: 10.1002/eihf.1762. PMID: 32154649.

Khan MS, Butler J, Greene SJ. The real world of de novo heart failure: the next frontier for heart failure clinical trials? Eur J Heart Fail. 2020 Oct;22(10):1786-1789. doi: 10.1002/ejhf.1844. PMID: 32374051

Khan MS, Butler J, Greene SJ. The time is now for sodium glucose co-transporter 2 inhibitors for heart failure: a call to overcome clinical inertia. Circ Heart Fail, 2020 Dec;13(12):e008030. doi: 10.1161/CIRCHEARTFAILURE.120.008030. PMID: 33161728.

Khan MS, Felker GM, Piña IL, Camacho A, Bapat D, Ibrahim NE, Maisel AS, Prescott MF, Ward JH. Solomon SD. Januzzi JL. Butler J. Reverse cardiac remodeling following initiation of Sacubitril/Valsartan in patients with heart failure with and without diabetes. JACC Heart Fail. 2021 Feb;9(2):137-145. doi: 10.1016/j.jchf.2020.09.014. Epub 2020 Dec 9. PMID: 33309581.

Khan MS, Fonarow GC, Friede T, Lateef N, Khan SU, Anker SD, Harrell FE Jr, Butler J. Application of the reverse fragility index to statistically nonsignificant randomized clinical trial results. JAMA Netw Open. 2020 Aug 3;3(8):e2012469. doi: 10.1001/jamanetworkopen.2020.12469. PMID: 32756927; PMCID: PMC7407075.

Khan MS, Fonarow GC, McGuire DK, Hernandez AF, Vaduganathan M, Rosenstock J, Handelsman Y, Verma S, Anker SD, McMurray JJV, Kosiborod MN, Butler J. Glucagon-like peptide 1 receptor agonists and heart failure: the need for further evidence generation and practice guidelines optimization. Circulation. 2020 Sep 22;142(12):1205-1218. doi: 10.1161/ CIRCULATIONAHA.120.045888, PMID: 32955939.

Khan MS, Hayat J, Marsia S, Yamani N, Doukky R, Butler J, Manning WJ, Mookadam E. Khosa E. How well do we represent ourselves: an analysis of cardiology fellowships website content. Future Cardiol. 2020 Jul;16(4):281-287. doi: 10.2217/fca-2019-0015. PMID: 32314590

Khan MS Jones DW Butler J. Salt no salt or less salt for patients with heart failure? Am J Med. 2020 Jan;133(1):32-38. doi: 10.1016/j.amjmed.2019.07.034. PMID: 31419422.

Khan MS, Kalogeropoulos AP, **Butler J.** Variation in placebo effect on health-related quality of life in heart failure (from the TOPCAT Trial). Am J Cardiol. 2020 Jan 1;125(1):82-86. doi: 10.1016/j.amjcard.2019.09.037. PMID: 31748125.

Khan MS, Khan MAA, Irfan S, Siddigi TJ, Greene SJ, Anker SD, Sreenivasan J, Friede T, Tahhan AS, Vaduganathan M, Fonarow GC, **Butler J.** Reporting and interpretation of subgroup analyses in heart failure randomized controlled trials. ESC Heart Fail. 2021 Feb;8(1):26-36. doi: 10.1002/ehf2.13122. PMID: 33254286; PMCID: PMC7835611.

Khan MS, Li L, Yasmin F, Khan SU, Bajaj NS, Pandey A, Murad MH, Fonarow GC, Butler J, Vaduganathan M. Assessment of heterogeneity in heart failure-related meta-analyses. Circ Heart Fail. 2020 Nov;13(11):e007070. doi: 10.1161/CIRCHEARTFAILURE.120.007070. PMID: 33131285

Khan MS, Memon MM, Murad MH, Vaduganathan M, Greene SJ, Hall M, Triposkiadis F, Lam CSP Shah AM **Butler J.** Shah ST Left atrial function in heart failure with preserved ejection fraction: a systematic review and meta-analysis. Eur J Heart Fail. 2020 Mar;22(3):472-485. doi: 10.1002/eihf.1643. PMID: 31919960.

Khan MS, Samman Tahhan A, Vaduganathan M, Greene SJ, Alrohaibani A, Anker SD, Vardeny O, Fonarow GC, **Butler J.** Trends in prevalence of comorbidities in heart failure clinical trials. Eur J Heart Fail. 2020 Jun;22(6):1032-1042. doi: 10.1002/ejhf.1818. PMID: 32293090; PMCID: PMC7906002

Khan MS, Shahid I, Anker SD, Solomon SD, Vardeny O, Michos ED, Fonarow GC, Butler J. Cardiovascular implications of COVID-19 versus influenza infection: a review. BMC Med. 2020; 18: 403. Published online 2020 Dec 18. doi: 10.1186/s12916-020-01816-2 PMCID: PMC7746485

Khan MS, Shahid I, Asad N, Greene SJ, Khan SU, Doukky R, Metra M, Anker SD, Filippatos GS, Fonarow GC, Butler J. Discontinuation and non-publication of heart failure randomized controlled trials: a call to publish all trial results. ESC Heart Fail. 2021 Feb;8(1):16-25. doi: 10.1002/ehf2.13099. PMID: 33191637; PMCID: PMC7835587.

Khan MS, Shahid I, Siddiqi TJ, Khan SU, Warraich HJ, Greene SJ, **Butler J,** Michos ED. Ten-year trends in enrollment of women and minorities in pivotal trials supporting recent US Food and Drug Administration approval of novel cardiometabolic drugs. J Am Heart Assoc. 2020 Jun 2;9(11):e015594. doi: 10.1161/JAHA.119.015594. PMID: 32427023; PMCID: PMC7428976

Khan MZ, Khan SU, Khan MS, **Butler J**, Alkhouli M. Disparities in discharge disposition after hospitalizations for decompensated heart failure. Cardiovasc Revasc Med. 2021 Jul;28:95-97. doi: 10.1016/j.carrev.2020.07.026. Epub 2020 Jul 25. PMID: 32798116.

Khan MS, Vaduganathan M, **Butler J.** Orphan drug development in cardiovascular medicine. Circ Cardiovasc Qual Outcomes. 2020 Jul;13(7):e006509. doi: 10.1161/CIRCOUT-COMES 119 006509 PMID: 32552063

Khariton Y, Fonarow GC, Arnold SV, Hellkamp A, Nassif ME, Sharma PP, Butler J, Thomas L, Duffy CI, DeVore AD, Albert NM, Patterson JH, Williams FB, McCague K, Spertus JA. Association between Sacubitril/Valsartan initiation and health status outcomes in heart failure with reduced ejection fraction. JACC Heart Fail. 2019 Nov;7(11):933-941. doi: 10.1016/j. jchf.2019.05.016. PMID: 31521679; PMCID: PMC7122134.

Khariton Y Fonarow GC, Hellkamp A, Thomas L, Nassif MF, Butler J, Duffy CL Albert NM Spertus JA. Heterogeneity of health status treatment response with sacubitril/valsartan: insights from the CHAMP-HF registry. ESC Heart Fail. 2021 Feb;8(1):710-713. doi: 10.1002/ ehf2.12981. PMID: 33170559; PMCID: PMC7835503.

Kho M, Zhao W, Ratliff SM, Ammous F, **Mosley TH,** Shang L, Kardia SLR, Zhou X, Smith JA. Epigenetic loci for blood pressure are associated with hypertensive target organ damage in older African Americans from the genetic epidemiology network of Arteriopathy (GENOA) study. BMC Med Genomics. 2020 Sep 11;13(1):131. doi: 10.1186/s12920-020-00791-0. PMID: 32917208: PMCID: PMC7488710.

Kilpeläinen TO, Bentley AR, Noordam R, Sung YJ, Schwander K, Winkler TW, Jakupović H, Chasman DI, Manning A, Ntalla I, Aschard H, Brown MR, de Las Fuentes L, Franceschini N, Guo X, Vojinovic D, Aslibekyan S, Feitosa MF, Kho M, Musani SK, Richard M, Wang H, Wang Z, Bartz TM, Bielak LF, Campbell A, Dorajoo R, Fisher V, Hartwig FP, Horimoto ARVR, Li C, Lohman KK, Marten J, Sim X, Smith AV, Tajuddin SM, Alver M, Amini M, Boissel M, Chai JF, Chen X, Divers J, Evangelou F. Gao C. Graff M. Harris SE. He M. Hsu FC. Jackson AU. Zhao, IH. Kraja AT. Kühnel B, Laguzzi F, Lyytikäinen LP, Nolte IM, Rauramaa R, Riaz M, Robino A, Rueedi R, Stringham HM, Takeuchi F, van der Most PJ, Varga TV, Verweij N, Ware EB, Wen W, Li X, Yanek LR, Amin N. Arnett DK. Boerwinkle E. Brumat M. Cade B. Canouil M. Chen YI. Concas MP. Connell J. de Mutsert R, de Silva HJ, de Vries PS, Demirkan A, Ding J, Eaton CB, Faul JD, Friedlander Y, Gabriel KP, Ghanbari M, Giulianini F, Gu CC, Gu D, Harris TB, He J, Heikkinen S, Heng CK, Hunt SC, Ikram MA, Jonas JB, Koh WP, Komulainen P, Krieger JE, Kritchevsky SB, Kutalik Z, Kuusisto J, Langefeld CD, Langenberg C, Launer LJ, Leander K, Lemaitre RN, Lewis CE, Liang J; Lifelines Cohort Study, Liu J, Mägi R, Manichaikul A, Meitinger T, Metspalu A, Milaneschi Y. Mohlke KL, Moslev TH Jr. Murray AD, Nalls MA, Nang EK, Nelson CP, Nona S, Norris JM. Nwuba CV, O'Connell J, Palmer ND, Papanicolau GJ, Pazoki R, Pedersen NL, Peters A, Peyser PA, Polasek O, Porteous DJ, Poveda A, Raitakari OT, Rich SS, Risch N, Robinson JG, Rose LM, Rudan I, Schreiner PJ, Scott RA, Sidney SS, Sims M, Smith JA, Snieder H, Sofer T, Starr JM, Sternfeld B, Strauch K, Tang H, Taylor KD, Tsai MY, Tuomilehto J, Uitterlinden AG, van der Ende MY, van Heemst D, Voortman T, Waldenberger M, Wennberg P, Wilson G, Xiang YB, Yao J, Yu C. Yuan JM. Zhao W. Zonderman AB, Becker DM, Boehnke M, Bowden DW, de Faire U, Dearv IJ, Elliott P, Esko T, Freedman BI, Froquel P, Gasparini P, Gieger C, Kato N, Laakso M, Lakka TA, Lehtimäki T, Magnusson PKE, Oldehinkel AJ, Penninx BWJH, Samani NJ, Shu XO, van der Harst P. Van Vliet-Ostaptchouk JV. Vollenweider P. Wagenknecht I.E. Wang YX. Wareham N.J. Weir DR, Wu T, Zheng W, Zhu X, Evans MK, Franks PW, Gudnason V, Hayward C, Horta BL, Kelly TN, Liu Y, North KE, Pereira AC, Ridker PM, Tai ES, van Dam RM, Fox ER, Kardia SLR, Liu CT, Mook-Kanamori DO, Province MA, Redline S, van Dujin CM, Rotter JI, Kooperberg CB, Gauderman WJ, Psaty BM, Rice K, Munroe PB, Fornage M, Cupples LA, Rotimi CN, Morrison AC, Rao DC, Loos RJF. Multi-ancestry study of blood lipid levels identifies four loci interacting with physical activity. Nat Commun. 2019 Jan 22;10(1):376. doi: 10.1038/s41467-018-08008-w. PMID: 30670697: PMCID: PMC6342931.

Kim JH, Lewis TT, Topel ML, Mubasher M, Li C, Vaccarino V, Mujahid MS, Sims M, Quyyumi AA, Taylor HA, Jr. Baltrus PT, Identification of resilient and at-risk neighborhoods for cardiovascular disease among Black residents: the Morehouse-Emory Cardiovascular (MECA) Center for Health Equity Study. Prev Chronic Dis. 2019 May 9;16:E57. doi: 10.5888/pcd16.180505. PMID: 31074715; PMCID: PMC6513475.

Kishore S, Jatwani S, Malhotra B, Lirette ST, Mittal V, Majithia V. Systemic lupus erythematosus is associated with a high risk of venous thromboembolism in hospitalized patients leading to poor outcomes and a higher cost: results from nationwide inpatient sample database 2003-2011. ACR Open Rheumatol. 2019 May 13;1(3):194-200. doi: 10.1002/acr2.1030. PMID: 31777795; PMCID: PMC6858019.

Knol MJ, Lu D, Traylor M, Adams HHH, Romero JRJ, Smith AV, Fornage M, Hofer E, Liu J, Hostettler IC, Luciano M, Trompet S, Giese AK, Hilal S, van den Akker EB, Vojinovic D, Li S, Sigurdsson S. van der Lee S.J. Jack CR. Jr. Wilson D. Yilmaz P. Satizabal CL. Liewald DCM. van der Grond J, Chen C, Saba Y, van der Lugt A, Bastin ME, Windham BG, Cheng CY, Pirpamer L, Kantarci K, Himali JJ, Yang Q, Morris Z, Beiser AS, Tozer DJ, Vernooij MW, Amin N Beekman M Koh JY Stott D L Houlden H Schmidt R Gottesman RF MacKinnon AD DeCarli C, Gudnason V, Deary IJ, van Duijn CM, Slagboom PE, Wong TY, Rost NS, Jukema JW, Mosley TH, Werring DJ, Schmidt H, Wardlaw JM, Ikram MA, Seshadri S, Launer LJ, Markus HS: Alzheimer's Disease Neuroimaging Initiative. Association of common genetic variants with brain microbleeds: a genome-wide association study. Neurology. 2020 Dec 15;95(24):e3331-e3343. doi: 10.1212/WNL.00000000000010852. PMID: 32913026; PMCID: PMC7836652.

Kong H, Chen J, Tang SC. Synchronous papillary thyroid carcinoma and breast ductal carcinoma. J Int Med Res. 2020 Aug;48(8):300060520948710. doi: 10.1177/0300060520948710. PMID: 32865067: PMCID: PMC7469738

Konstam MA, Udelson JE, Butler J, Klein HU, Parker JD, Teerlink JR, Wedge PM, Saville BR, Ardell JL, Libbus I, DiCarlo LA. Impact of autonomic regulation therapy in patients with heart failure: ANTHEM-HEREE pivotal study design. Circ Heart Fail. 2019 Nov:12(11):e005879. doi: 10.1161/CIRCHEARTFAILURE.119.005879. PMID: 31722536.

Kott J, Reichek N, **Butler J,** Arbeit L, Mallipattu SK. Cardiac imaging in dialysis patients. Kidney Med. 2020 Jul 31;2(5):629-638. doi: 10.1016/j.xkme.2020.05.010. PMID: 33094277; PMCID: PMC7568079.

Kovvuru K, Kanduri SR, Vaitla P, Marathi R, Gosi S, Garcia Anton DF, Cabeza Rivera FH, Garla V. Risk Factors and management of osteoporosis post-transplant. Medicina (Kaunas). 2020 Jun 19;56(6):302. doi: 10.3390/medicina56060302. PMID: 32575603; PMCID: PMC7353876

Kramer F, Butler J, Shah SJ, Jung C, Nodari S, Rosenkranz S, Senni M, Bamber L, Cichos S, Dori C, Karakoyun T, Köhler GJ, Patel K, Piraino P, Viethen T, Chennuru P, Paydar A, Sims J, Clark R, van Lummel R, Müller A, Gwaltney C, Smajlovic S, Düngen HD, Dinh W. Real-life multimarker monitoring in patients with heart failure: continuous remote monitoring of mobility and patient-reported outcomes as digital end points in future heart-failure trials. Digit Biomark. 2020 Jun 30;4(2):45-59. doi: 10.1159/000507696. PMID: 33083685; PMCID: PMC7548956

Kramer F, Voss S, Roessig L, Igl BW, Butler J, Lam CSP, Maggioni AP, Shah SJ, Pieske B. Evaluation of high-sensitivity C-reactive protein and uric acid in vericiguat-treated patients with heart failure with reduced ejection fraction. Eur J Heart Fail. 2020 Sep;22(9):1675-1683. doi: 10.1002/ejhf.1787. PMID: 32216011; PMCID: PMC7687153.

Kunkle BW, Grenier-Boley B, Sims R, Bis JC, Damotte V, Naj AC, Boland A, Vronskaya M, van der Lee SJ, Amlie-Wolf A, Bellenguez C, Frizatti A, Chouraki V, Martin ER, Sleegers K, Badarinaravan N. Jakobsdottir J. Hamilton-Nelson KI. Moreno-Grau S. Olaso R. Raybould R. Chen Y, Kuzma AB, Hiltunen M, Morgan T, Ahmad S, Vardarajan BN, Epelbaum J, Hoffmann P, Boada M, Beecham GW, Garnier JG, Harold D, Fitzpatrick AL, Valladares O, Moutet ML, Gerrish A. Smith AV. Qu L. Bacg D. Denning N. Jian X. Zhao Y. Del Zompo M. Fox NC. Choi SH. Mateo I, Hughes JT, Adams HH, Malamon J, Sanchez-Garcia F, Patel Y, Brody JA, Dombroski BA, Naranjo MCD, Daniilidou M, Eiriksdottir G, Mukherjee S, Wallon D, Uphill J, Aspelund T, Cantwell LB, Garzia F, Galimberti D, Hofer E, Butkiewicz M, Fin B, Scarpini E, Sarnowski C, Bush WS, Meslage S, Kornhuber J, White CC, Song Y, Barber RC, Engelborghs S, Sordon S, Voijnovic D, Adams PM, Vandenberghe R, Mayhaus M, Cupples LA, Albert MS, De Deyn PP, Gu W, Himali 11 Beekly D. Squassina A. Hartmann AM. Orellana A. Blacker D. Rodriguez-Rodriguez F Lovestone S, Garcia ME, Doody RS, Munoz-Fernadez C, Sussams R, Lin H, Fairchild TJ, Benito YA, Holmes C, Karamujić-Čomić H, Frosch MP, Thonberg H, Maier W, Roshchupkin G, Ghetti B, Giedraitis V, Kawalia A, Li S, Huebinger RM, Kilander L, Moebus S, Hernández I, Kamboh MI, Brundin R, Turton J, Yang Q, Katz MJ, Concari L, Lord J, Beiser AS, Keene CD, Helisalmi S, Kloszewska I, Kukull WA, Koivisto AM, Lynch A, Tarraga L, Larson EB, Haapasalo A, Lawlor B, Mosley TH, Lipton RB, Solfrizzi V, Gill M, Longstreth WT Jr, Montine TJ, Frisardi V, Diez-Fairen M, Rivadeneira F, Petersen RC, Deramecourt V, Alvarez I, Salani F, Ciaramella A, Boerwinkle E, Reiman EM, Fievet N, Rotter JI, Reisch JS, Hanon O, Cupidi C, Andre Uitterlinden AG, Royall DR, Dufouil C. Maletta RG. de Rojas I. Sano M. Brice A. Cecchetti R. George-Hyslop PS. Ritchie K. Tsolaki M, Tsuang DW, Dubois B, Craig D, Wu CK, Soininen H, Avramidou D, Albin RL, Fratiglioni L, Germanou A, Apostolova LG, Keller L, Koutroumani M, Arnold SE, Panza F, Gkatzima O, Asthana S, Hannequin D, Whitehead P, Atwood CS, Caffarra P, Hampel H, Quintela L, Carracedo Á, Lannfelt L, Rubinsztein DC, Barnes LL, Pasquier F, Frölich L, Barral S, McGuinness B, Beach TG, Johnston JA, Becker JT, Passmore P, Bigio EH, Schott JM, Bird TD, Warren JD, Boeve BF, Lupton MK Bowen ID Proitsi P Boxer A Powell IF Burke IR Kauwe ISK Burns IM Mancuso M, Buxbaum JD, Bonuccelli U, Cairns NJ, McQuillin A, Cao C, Livingston G, Carlson CS, Bass NJ, Carlsson CM, Hardy J, Carney RM, Bras J, Carrasquillo MM, Guerreiro R, Allen M, Chui HC, Fisher E, Masullo C, Crocco EA, DeCarli C, Bisceglio G, Dick M, Ma L, Duara R, Graff-Radford NR, Evans DA, Hodges A, Faber KM, Scherer M, Fallon KB, Riemenschneider M, Fardo DW, Heun R, Farlow MR, Kölsch H, Ferris S, Leber M, Foroud TM, Heuser I, Galasko DR, Giegling I, Gearing M, Hüll M, Geschwind DH, Gilbert JR, Morris J, Green RC, Mayo K, Growdon JH, Feulner T, Hamilton RL, Harrell LE, Drichel D, Honig LS, Cushion TD, Huentelman MJ, Hollingworth P, Hulette CM, Hyman BT, Marshall R, Jarvik GP, Meggy A, Abner E, Menzies GE, Jin LW, Leonenko G, Real LM, Jun GR, Baldwin CT, Grozeva D, Karydas A, Russo G, Kaye JA, Kim R, Jessen F, Kowall NW, Vellas B, Kramer JH, Vardy E, LaFerla FM, Jöckel KH, Lah JJ, Dichgans M, Leverenz JB, Mann D, Levey AI, Pickering-Brown S, Lieberman AP, Klopp N, Lunetta KL, Wichmann HE, Lyketsos CG, Morgan K, Marson DC, Brown K, Martiniuk F, Medway C, Mash DC, Nöthen MM, Masliah E, Hooper NM, McCormick WC, Daniele A, McCurry SM, Bayer A, McDavid AN, Gallacher J, McKee AC, van den Bussche H, Mesulam M, Brayne C, Miller BL, Riedel-Heller S, Miller CA, Miller JW, Al-Chalabi A, Morris JC, Shaw CE, Myers AJ, Wiltfang J, O'Bryant S, Olichney JM, Alvarez V, Parisi JE, Singleton AB, Paulson HL, Collinge J, Perry WR, Mead S, Peskind E, Cribbs DH, Rossor M, Pierce A, Ryan NS, Poon WW, Nacmias B, Potter H, Sorbi S, Quinn JF, Sacchinelli E, Raj A, Spalletta G, Raskind M, Caltagirone C, Bossù P, Orfei MD, Reisberg B, Clarke R, Reitz C, Smith AD, Ringman JM, Warden D, Roberson ED, Wilcock G, Rogaeva E, Bruni AC, Rosen HJ, Gallo M, Rosenberg RN, Ben-Shlomo Y, Sager MA, Mecocci P, Saykin AJ, Pastor P, Cuccaro ML, Vance JM, Schneider JA, Schneider LS, Slifer S, Seelev WW, Smith AG, Sonnen JA, Spina S, Stern RA, Swerdlow RH, Tang M, Tanzi RE, Trojanowski JQ, Troncoso JC, Van Deerlin VM, Van Eldik LJ, Vinters HV, Vonsattel JP, Weintraub S, Welsh-Bohmer KA, Wilhelmsen KC, Williamson J, Wingo TS, Woltier RL, Wright CB, Yu CE, Yu L, Saba Y, Pilotto A, Bullido MJ, Peters O, Crane PK, Bennett D, Bosco P, Coto E, Boccardi V, De Jager PL, Lleo A, Warner N, Lopez OL, Ingelsson M, Deloukas P, Cruchaga C, Graff C, Gwilliam R, Fornage M, Goate AM, Sanchez-Juan P, Kehoe PG, Amin N, Ertekin-Taner N, Berr C, Debette S, Love S, Launer LJ, Younkin SG, Dartiques JF, Corcoran C, Ikram MA, Dickson DW, Nicolas G, Campion D, Tschanz J, Schmidt H, Hakonarson H, Clarimon J, Munger R, Schmidt R, Farrer LA, Van Broeckhoven C, C O'Donovan M, DeStefano Al Jones I, Haines II, Deleuze JF, Owen M J, Gudnason V, Maveux R, Escott-Price V, Psatv BM, Ramirez A, Wang LS, Ruiz A, van Duijn CM, Holmans PA, Seshadri S, Williams J, Amouyel P, Schellenberg GD, Lambert JC, Pericak-Vance MA; Alzheimer Disease Genetics Consortium (ADGC),; European Alzheimer's Disease Initiative (EADI),; Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium (CHARGE),; Genetic and Environmental Risk in AD/ Defining Genetic, Polygenic and Environmental Risk for Alzheimer's Disease Consortium (GERAD/PERADES). Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates AB, tau, immunity and lipid processing. Nat Genet. 2019 Mar;51(3):414-430. doi: 10.1038/s41588-019-0358-2. Erratum in: Nat Genet. 2019 Sep;51(9):1423-1424. PMID: 30820047: PMCID: PMC6463297.

Lam CSP, Butler J. Victims of success in failure. Circulation. 2020 Sep 22;142(12):1129-1131. doi: 10.1161/CIRCULATIONAHA.120.048365. PMID: 32955935.

Loungani RS, Teerlink JR, Metra M, Allen LA, Butler J, Carson PE, Chen CW, Cotter G. Davison BA, Eapen ZJ, Filippatos GS, Gimpelewicz C, Greenberg B, Holbro T, Januzzi JL Jr, Lanfear DE, Pang PS, Piña IL, Ponikowski P, Miller AB, Voors AA, Felker GM. Cause of death in patients with acute heart failure: insights from RELAX-AHF-2, JACC Heart Fail, 2020 Dec;8(12):999-1008. doi: 10.1016/j.jchf.2020.09.010. PMID: 33189635.

Lawrence KG Keil AP Garantziotis S Llmbach DM Stewart PA. Stenzel MR McGrath IA Jackson WB, Kwok RK, Curry MD, Engel LS, Sandler DP. Lung function in oil spill responders 4-6 years after the Deepwater Horizon disaster. J Toxicol Environ Health A. 2020 Mar 18;83(6):233-248. doi: 10.1080/15287394.2020.1745111. PMID: 32249687; PMCID: PMC7837370

Lee G, Zhao S, Kline D, Brock G, Odei J, Kesireddy V, Sims M, Effoe V, Wu WC, Kalyani R, Wand G, Echouffo Tcheugui J, Golden S, Joseph J. SAT-LB017 Anthropometric imaging and biological markers of adiposity and aldosterone among African Americans: the Jackson Heart Study. J Endocr Soc. 2019 Apr 30;3(Suppl 1):SAT-LB017. doi: 10.1210/js.2019-SAT-LB017. PMCID: PMC6551667.

Lentine KL, Alhamad T, Cheungpasitporn W, Tan JC, Chang SH, Cooper M, Dadhania DM, Axelrod DA, Schnitzler MA, Ouseph R, Cabeza Rivera FH, Kasiske BL, Woodside KJ, Parsons RF. Impact of functional status on outcomes of simultaneous pancreas-kidney transplantation: risks and opportunities for patient benefit. Transplant Direct. 2020 Aug 21:6(9):e599. doi: 10.1097/TXD.000000000001043. PMID: 32903964; PMCID: PMC7447442.

Li D, Misialek JR, Jack CR, Mielke MM, Knopman D, Gottesman R, Mosley T, Alonso A. Plasma metabolites associated with brain MRI measures of neurodegeneration in older adults in the Atherosclerosis Risk in Communities Neurocognitive Study (ARIC-NCS). Int J Mol Sci. 2019 Apr 9;20(7):1744. doi: 10.3390/ijms20071744. PMID: 30970556; PMCID: PMC6479561.

Liu J, Zhao W, Ammous F, Turner ST, Mosley TH, Zhou X, Smith JA. Longitudinal analysis of epigenome-wide DNA methylation reveals novel smoking-related loci in African Americans. Epigenetics. 2019 Feb;14(2):171-184. doi: 10.1080/15592294.2019.1581589. PMID: 30764717; PMCID: PMC6557606

Loehr LR, Soliman EZ, Poon AK, Couper D, Chen LY, **Mosley TH**, Wagenknecht LE, Whitsel EA, Alonso A, Wruck L, Heiss G. The prevalence of atrial fibrillation on 48-hour ambulatory electrocardiography in African Americans compared to Whites: the Atherosclerosis Risk in Communities (ARIC) study. Am Heart J. 2019 Oct;216:1-8. doi: 10.1016/j.ahj.2019.06.017. PMID: 31352135 PMCID PMC6842681

Loomis SJ, Köttgen A, Li M, Tin A, Coresh J, Boerwinkle E, Gibbs R, Muzny D, Pankow J, Selvin E, Duggal P. Rare variants in SLC5A10 are associated with serum 1,5-anhydroglucitol (1,5-AGI in the Atherosclerosis Risk in Communities (ARIC) Study. Sci Rep. 2019 Apr 11;9(1):5941. doi: 10.1038/s41598-019-42202-0. PMID: 30976018; PMCID: PMC6459884.

Loomis SJ. Tin A. Coresh J. Boerwinkle E. Pankow JS. Köttgen A. Selvin E. Duggal P. Heritability analysis of nontraditional glycemic biomarkers in the Atherosclerosis Risk in Communities Study. Genet Epidemiol. 2019 Oct;43(7):776-785. doi: 10.1002/gepi.22243. PMID: 31218750; PMCID: PMC6763360.

Lucar J, Navalkele B, Becker BP, Reed CD, Parham J. Health care personnel exposure to a patient with asymptomatic SARS-CoV2 infection during a prolonged surgical intervention. Am J Infect Control. 2020 Aug;48(8):955-957. doi: 10.1016/j.ajic.2020.05.036. PMID: 32505792; PMCID: PMC7273138.

Lunyera J, Davenport CA, Pendergast J, Musani SK, Bhavsar NA, Sims M, Mwasongwe S, Wolf M, Diamantidis CJ, Boulware LE, Scialla JJ, Modifiers of plasma 25-hydroxyvitamin D and chronic kidney disease outcomes in Black Americans: the Jackson Heart Study. J Clin Endocrinol Metab. 2019 Jun 1;104(6):2267-2276. doi: 10.1210/jc.2018-01747. PMID: 30668751; PMCID: PMC6489693.

Lutsey PL, Chen N, Mirabelli MC, Lakshminarayan K, Knopman DS, Vossel KA, Gottesman RF, **Mosley TH,** Alonso A. Impaired lung function, lung disease, and risk of incident dementia. Am J Respir Crit Care Med. 2019 Jun 1;199(11):1385-1396. doi: 10.1164/rccm.201807-12200C. PMID: 30433810; PMCID: PMC6543713.

Lutsey PL, Windham BG, Misialek JR, Cushman M, Kucharska-Newton A, Basu S, Folsom AR. Long-term association of venous thromboembolism with frailty, physical functioning, and quality of life: the Atherosclerosis Risk in Communities Study. J Am Heart Assoc. 2020 Jun 16;9(12):e015656. doi: 10.1161/JAHA.119.015656. PMID: 32476561; PMCID: PMC7429054.

Mahajan UV, Varma VR, Griswold ME, Blackshear CT, An Y, Oommen AM, Varma S, Troncoso JC, Pletnikova O, O'Brien R, Hohman TJ, Legido-Quigley C, Thambisetty M. Dysregulation of multiple metabolic networks related to brain transmethylation and polyamine pathways in Alzheimer's disease: a targeted metabolomic and transcriptomic study. PLoS Med. 2020 Jan 24;17(1):e1003012. doi: 10.1371/journal.pmed.1003012. Erratum in: PLoS Med. 2020 Oct 21;17(10):e1003439. PMID: 31978055; PMCID: PMC6980402.

Mai PL, Huang HQ, Wenzel LB, Han PK, Moser RP, Rodriguez GC, Boggess J, Rutherford TJ, Cohn DE, Kauff ND, Phillips KA, Wilkinson K, Wenham RM, Hamilton C, Powell MA, Walker JL, Greene MH, Hensley ML. Prospective follow-up of quality of life for participants undergoing risk-reducing salpingo-oophorectomy or ovarian cancer screening in GOG-0199: An NRG Oncology/GOG study. Gynecol Oncol. 2020 Jan;156(1):131-139. doi: 10.1016/j. ygyno.2019.10.026. PMID: 31759774; PMCID: PMC6980744.

Maier A, Garla V. MON-495 Hypophosphatasia: a rare cause of osteoporosis in a young adult male. J Endocr Soc. 2019 Apr 30;3(Suppl 1):MON-495. doi: 10.1210/js.2019-MON-495. PMCID: PMC6550898

Maier A, Kerut SE, Subauste JS, Curry S. SUN-181 a case of metastatic merkel cell carcinoma within a cortisol-producing adrenal adenoma. J Endocr Soc. 2020 May 8;4(Suppl 1):SUN-181. doi: 10.1210/jendso/bvaa046.1385. PMCID: PMC7208175.

Mamo SK, Reed NS, Sharrett AR, Albert MS, Coresh J, Mosley TH, Knopman D, Lin FR, Deal JA. Relationship between domain-specific cognitive function and speech-in-noise performance in older adults: the Atherosclerosis Risk in Communities Hearing Pilot Study. Am J Audiol. 2019 Dec 16;28(4):1006-1014. doi: 10.1044/2019_AJA-19-00043. PMID: 31825642; PMCID: PMC7210433.

Marshall GD. Evolving paradigms for asthma management. Ann Allergy Asthma Immunol. 2019 Oct;123(4):323-324. doi: 10.1016/j.anai.2019.08.015. PMID: 3158653

Marshall GD. Identifying individual stress susceptibility using genomic and immune biomarkers. Trans Am Clin Climatol Assoc. 2019;130:235-245. PMID: 31516188; PMCID: PMC6735999

Marshall GD. Medical and scientific publishing in the 21st century: a search for equipoise. Am J Med Sci. 2019 Jan;357(1):5-6. doi: 10.1016/j.amjms.2018.10.004. PMID: 30470435

Marshall GD Jr. Psychological stress, immune dysfunction, and allergy: opportunities for improved patient health. Ann Allergy Asthma Immunol. 2020 Oct;125(4):365-366. doi: 10.1016/j.anai.2020.08.020. PMID: 32981592; PMCID: PMC7520630.

Marshall GD. The exposome and allergy: discovering and applying new insights to a classical clinical tool. Ann Allergy Asthma Immunol. 2020 Dec;125(6):623. doi: 10.1016/j.anai.2020.10.005. PMID: 33218453

Marshall GD Jr, Blaiss M, Dixit A, Ein D, Fausnight T, Miller T, Nanda A, O'Connor M, Peng T, Phipatanakul W, Rupp M, Silvers W, Tilles SA, Pfeifer J. Risk of physician burnout in the North American allergist-immunologist workforce: a report from the American College of Allergy, Asthma and Immunology Physician Wellness Taskforce. Ann Allergy Asthma Immunol. 2020 Sep;125(3):235-243. doi: 10.1016/j.anai.2020.06.010.PMID: 32544532

Marti CN, Fonarow GC, Anker SD, Yancy C, Vaduganathan M, Greene SJ, Ahmed A, Januzzi JL, Gheorghiade M, Filippatos G, Butler J. Medication dosing for heart failure with reduced ejection fraction - opportunities and challenges. Eur J Heart Fail. 2019 Mar;21(3):286-296. doi: 10.1002/ ejhf.1351. PMID: 30537163; PMCID: PMC6528811.

Martinez-Amezcua P, Kuo PL, Sullivan K, Palta P, Sharrett AR, Schrack J, Lin F, Deal J. The association between hearing and physical functioning in the Atherosclerosis Risk in Communities Study. Innov Aging. 2020 Dec 16;4(Suppl 1):531. doi: 10.1093/geroni/igaa057.1711. PMCID: PMC7742364.

McGee BT, Higgins MK, Phillips V, Butler J. Prescription drug spending and hospital use among Medicare beneficiaries with heart failure. Res Social Adm Pharm. 2020 Oct;16(10):1452-1458. doi: 10.1016/j.sapharm.2019.12.019. PMID: 31953113.

McGee BT, Phillips V, Higgins MK, **Butler J.** Prescription drug spending and medication adherence among Medicare beneficiaries with heart failure. J Manag Care Spec Pharm. 2019 Jun:25(6):705-713. doi: 10.18553/imcp.2019.25.6.705. PMID: 31134861.

Mei H, Jiang F, Li L, Griswold M, Liu S, Mosley T. Study of genetic correlation between children's sleep and obesity. J Hum Genet. 2020 Nov;65(11):949-959. doi: 10.1038/s10038-020-0791-1. PMID: 32555314: PMCID: PMC8048051

Mendoza Alvarez LB, Liu X, Glover S. Treatment-resistant eosinophilic oesophagitis successfully managed with tofacitinib. BMJ Case Rep. 2019 Dec 11;12(12):e232558. doi: 10.1136/bcr-2019-232558 PMID: 31831517 PMCID: PMC6936404

Menez S, Hanouneh M, Shafi T, Jaar BG. Indoxyl sulfate is associated with mortality after AKI more evidence needed! BMC Nephrol. 2019 Jul 26;20(1):280. doi: 10.1186/s12882-019-1465-0. PMID: 31345164: PMCID: PMC6659241.

Meng F, Zhang Z, Hou X, Qian Z, Wang Y, Chen Y, Wang Y, Zhou Y, Chen Z, Zhang X, Yang J, Zhang J, Guo J, Li K, Chen L, Zhuang R, Jiang H, Zhou W, Tang S, Wei Y, Zou J. Machine learning for prediction of sudden cardiac death in heart failure patients with low left ventricular ejection fraction: study protocol for a retroprospective multicentre registry in China. BMJ Open. 2019 May 16;9(5):e023724. doi: 10.1136/bmjopen-2018-023724. PMID: 31101692; PMCID: PMC6530409

Micah AE, Zhao Y, Chen CS, Zlavog BS, Tsakalos G, Chapin A, Gloyd S, Jonas J, Lee PH, Liu S, Ng MTA, Phillips MR, Rubagotti E, Tang K, Tang S, Younis M, Zhang Y, Murray CJL, Dieleman JL. Tracking development assistance for health from China, 2007-2017. BMJ Glob Health. 2019 Oct 8;4(5):e001513. doi: 10.1136/bmjgh-2019-001513. PMID: 31646007; PMCID: PMC6782043.

Mishra A, Chauhan G, Violleau MH, Vojinovic D, Jian X, Bis JC, Li S, Saba Y, Grenier-Boley B, Yang Q, Bartz TM, Hofer E, Soumaré A, Peng F, Duperron MG, Foglio M, Mosley TH, Schmidt R, Psaty BM Launer LL Boerwinkle F. Zhu Y. Mazover B. Lathrop M. Bellenquez C. Van Duijn CM. Ikram MA, Schmidt H, Longstreth WT, Fornage M, Seshadri S, Joutel A, Tzourio C, Debette S. Association of variants in HTRA1 and NOTCH3 with MRI-defined extremes of cerebral small vessel disease in older subjects. Brain. 2019 Apr 1;142(4):1009-1023. doi: 10.1093/brain/awz024. PMID: 30859180; PMCID: PMC6439324

Moazzami K, Shao IY, Chen LY, Lutsey PL, Jack CR Jr, **Mosley T**, Joyner DA, Gottesman R, Alonso A. Atrial fibrillation, brain volumes, and subclinical cerebrovascular disease (from the Atherosclerosis Risk in Communities Neurocognitive Study [ARIC-NCS]). Am J Cardiol. 2020 Jan 15;125(2):222-228. doi: 10.1016/j.amjcard.2019.10.010. PMID: 31771759; PMCID: PMC6942172.

Morris AA, McAllister P, Grant A, Geng S, Kelli HM, Kalogeropoulos A, Quyyumi A, Butler J. Relation of living in a "food desert" to recurrent hospitalizations in patients with heart failure. Am J Cardiol. 2019 Jan 15;123(2):291-296. doi: 10.1016/j.amjcard.2018.10.004. PMID: 30442360; PMCID: PMC6497163

Morris AA, Nayak A, Ko YA, D'Souza M, Felker GM, Redfield MM, Tang WHW, Testani JM, Butler J. Racial differences in diuretic efficiency, plasma renin, and rehospitalization in subjects with acute heart failure. Circ Heart Fail. 2020. Jul:13(7):e006827. doi: 10.1161/CIR-CHEARTFAILURE.119.006827. PMID: 32635768; PMCID: PMC7474850.

Mouton AJ, Li X, Hall ME, Hall JE. Obesity, hypertension, and cardiac dysfunction: novel roles of immunometabolism in macrophage activation and inflammation. Circ Res. 2020 Mar 13;126(6):789-806. doi: 10.1161/CIRCRESAHA.119.312321. PMID: 32163341; PMCID: PMC7255054.

Müller ML, **Butler J**, Heidecker B. Emerging therapies in transthyretin amyloidosis - a new wave of hope after years of stagnancy? Eur J Heart Fail. 2020 Jan;22(1):39-53. doi: 10.1002/ eihf.1695, PMID: 31912620,

Murphy SP, Prescott MF, Camacho A, Iyer SR, Maisel AS, Felker GM, Butler J, Piña IL, Ibrahim NE, Abbas C, Burnett JC Jr, Solomon SD, Januzzi JL, Atrial natriuretic peptide and treatment with Sacubitril/Valsartan in heart failure with reduced ejection fraction. JACC Heart Fail. 2021 Feb;9(2):127-136. doi: 10.1016/j.jchf.2020.09.013. Epub 2020 Nov 11. PMID: 33189632

Myhre PL, Januzzi JL Jr, Butler J, Vaduganathan M. De novo heart failure: where the journey begins. Eur J Heart Fail. 2019 Oct;21(10):1245-1247. doi: 10.1002/ejhf.1586. PMID: 31496006.

Mzayek F, Wang LE, Relyea G, Yu X, Terry JG, Carr J, Hundley GW, Hall ME, Correa A. Impact of abdominal obesity on proximal and distal aorta wall thickness in African Americans: the Jackson Heart Study. Obesity (Silver Spring). 2019 Sep;27(9):1527-1532. doi: 10.1002/ oby.22563. PMID: 31328900; PMCID: PMC6707870.

Navalkele B. Bueno Rios MX. Wofford JD. Kumar V. Webb RM. Seizures in an immunocompetent adult from treatment of latent tuberculosis infection: is Isoniazid to blame? Open Forum Infect Dis. 2020 Apr 23;7(5):ofaa144. doi: 10.1093/ofid/ofaa144. PMID: 32462048; PMCID: PMC7237819

Navalkele BD, Fletcher S, Truhett N, Hester X, Martin S, Smith E, Galloway R, Stempak L, Allard C, Hayes W, Parham J. Impact of discontinuation of methicillin-resistant Staphylococcus aureus contact precautions on bloodstream infection rates at an academic medical center. Open Forum Infect Dis. 2019 Oct 23;6(Suppl 2):S269. doi: 10.1093/ofid/ofz360.639. PMCID: PMC6810965

Navalkele BD, Tate M, Dunaway J, Fletcher S, Inman B, Hankins P, Hung L, Guy R, Parham J. Effectiveness of multimodal intervention strategies to improve hand hygiene compliance at an academic medical center. Open Forum Infect Dis. 2019 Oct 23;6(Suppl 2):S426-7. doi: 10.1093/ofid/ofz360.1052. PMCID: PMC6808741.

Navalkele BD, Truhett N, Ward M, Fletcher S. Impact of educational feedback on reducing hospital-onset catheter-associated urinary tract infections at an academic medical center. Open Forum Infect Dis. 2019 Oct 23;6(Suppl 2):S412. doi: 10.1093/ofid/ofz360.1017. PMCID: PMC6809109.

Nayak A, Liu C, Mehta A, Ko YA, Tahhan AS, Dhindsa DS, Uppal K, Jones DP, Butler J, Morris AA, Quyyumi AA. N8-Acetylspermidine: a polyamine biomarker in ischemic cardiomyopathy with reduced ejection fraction. J Am Heart Assoc. 2020 Jun 2;9(11):e016055. doi: 10.1161/ JAHA.120.016055. PMID: 32458724; PMCID: PMC7429012.

Ng DK, Levey AS, Shlipak MG, Muñoz A, Inker LA, Shafi T. Validation of a simple equation for glomerular filtration rate measurement based on plasma iohexol disappearance. Clin Kidney J. 2019 Jul 23;13(3):397-401. doi: 10.1093/ckj/sfz083. PMID: 32699620; PMCID: PMC7367109.

Noordam R, Bos MM, Wang H, Winkler TW, Bentley AR, Kilpeläinen TO, de Vries PS, Sung YJ, Schwander K, Cade BE, Manning A, Aschard H, Brown MR, Chen H, Franceschini N, Musani SK, Richard M, Vojinovic D, Aslibekyan S, Bartz TM, de Las Fuentes L, Feitosa M, Horimoto AR, Ilkov M, Kho M, Kraja A, Li C, Lim E, Liu Y, Mook-Kanamori DO, Rankinen T, Tajuddin SM, van der Spek A, Wang Z, Marten J, Laville V, Alver M, Evangelou E, Graff ME, He M, Kühnel B, Lyytikäinen LP, Marques-Vidal P, Nolte IM, Palmer ND, Rauramaa R, Shu XO, Snieder H, Weiss S. Wen W. Yanek I. R. Adolfo C. Ballantyne C. Bielak I. Biermasz NR. Boerwinkle F. Dimou N, Eiriksdottir G, Gao C, Gharib SA, Gottlieb DJ, Haba-Rubio J, Harris TB, Heikkinen S, Heinzer R, Hixson JE, Homuth G, Ikram MA, Komulainen P, Krieger JE, Lee J, Liu J, Lohman KK, Luik Al, Mägi R, Martin LW, Meitinger T, Metspalu A, Milaneschi Y, Nalls MA, O'Connell J, Peters A, Peyser P, Raitakari OT, Reiner AP, Rensen PCN, Rice TK, Rich SS, Roenneberg T, Rotter JI, Schreiner PJ, Shikany J, Sidney SS, Sims M, Sitlani CM, Sofer T, Strauch K, Swertz MA, Taylor KD, Uitterlinden AG, van Duijn CM, Völzke H, Waldenberger M, Wallance RB, van Dijk KW, Yu C, Zonderman AB, Becker DM, Elliott P, Esko T, Gieger C, Grabe HJ, Lakka TA, Lehtimäki T, North KE, Penninx BWJH, Vollenweider P, Wagenknecht LE, Wu T, Xiang YB, Zheng W, Arnett DK, Bouchard C, Evans MK, Gudnason V, Kardia S, Kelly TN, Kritchevsky SB, Loos RJF, Pereira AC, Province M, Psaty BM, Rotimi C, Zhu X, Amin N, Cupples LA, Fornage M, Fox EF, Guo X, Gauderman WJ, Rice K, Kooperberg C, Munroe PB, Liu CT, Morrison AC, Rao DC, van Heemst D, Redline S, Multi-ancestry sleep-by-SNP interaction analysis in 126,926 individuals reveals lipid loci stratified by sleep duration. Nat Commun. 2019 Nov 12;10(1):5121. doi: 10.1038/s41467-019-12958-0. PMID: 31719535; PMCID: PMC6851116.

Okhomina VI, Seals SR, Anugu P, Adu-Boateng G, Sims M, Marshall GD Jr. Adherence and retention of African Americans in a randomized controlled trial with a yoga-based intervention: the effects of health promoting programs on cardiovascular disease risk study. Ethn Health. 2020 Aug;25(6):812-824. doi: 10.1080/13557858.2018.1458073.PMID: 29609480

Okhomina VI, Seals SR, Marshall GD Jr. Recruitment and enrollment of African Americans into health promoting programs: the effects of health promoting programs on cardiovascular disease risk study. Ethn Health. 2020 Aug;25(6):825-834. doi: 10.1080/13557858.2018.145807.PMID: 29611712.

Osei AD, Mirbolouk M, Orimoloye OA, Dzaye O, Uddin SMI, Benjamin EJ, Hall ME, DeFilippis AP, Bhatnagar A, Biswal SS, Blaha MJ. Association between e-cigarette use and chronic obstructive pulmonary disease by smoking status: Behavioral Risk Factor Surveillance System 2016 and 2017. Am J Prev Med. 2019 Dec 28. pii: S0749-3797(19)30479-9.

Oshunbade AA, Hamid A, Lirette ST, Gbadamosi SO, Yimer WK, Orimoloye OA, Clark D 3rd, Kamimura D, Grado SD, Lutz EA, Mentz RJ, Fox ER, Butler J, Windham B, Butler KR, Mosley TH Jr, Hall ME. Hypertensive diseases in pregnancy, cardiac structure and function later in life: insights from the Genetic Epidemiology Network of Arteriopathy (GENOA) study. Pregnancy Hypertens. 2020 Jul;21:184-190. doi: 10.1016/j.preghy.2020.05.010. PMID: 32570153.

Oshunbade AA, Yimer WK, Valle KA, Clark D 3rd, Kamimura D, White WB, DeFilippis AP, Blaha MJ, Benjamin EJ, O'Brien EC, Mentz RJ, Fox ER, O'Mara CS, Butler J, Correa A, Hall ME. Cigarette smoking and incident stroke in Blacks of the Jackson Heart Study. J Am Heart Assoc. 2020 Jun 16;9(12):e014990. doi: 10.1161/JAHA.119.014990. PMID: 32517526; PMCID: PMC7429065

Packer M, Anker SD, Butler J, Filippatos G, Ferreira JP, Pocock SJ, Carson P, Anand I, Doehner W. Haass M. Komaida M. Miller A. Pehrson S. Teerlink JR. Brueckmann M. Jamal W. Zeller C, Schnaidt S, Zannad F. Effect of Empagliflozin on the clinical stability of patients with heart failure and a reduced ejection fraction: the EMPEROR-Reduced Trial. Circulation. 2021 Jan 26;143(4):326-336. doi: 10.1161/CIRCULATIONAHA.120.051783. Erratum in: Circulation. 2021 Jan 26;143(4):e30. PMID: 33081531; PMCID: PMC7834905.

Packer M, Anker SD, Butler J, Filippatos G, Pocock SJ, Carson P, Januzzi J, Verma S, Tsutsui H Brueckmann M, Jamal W, Kimura K, Schnee J, Zeller C, Cotton D, Bocchi F, Böhm M, Choi DJ, Chopra V, Chuquiure E, Giannetti N, Janssens S, Zhang J, Gonzalez Juanatey JR, Kaul S, Brunner-La Rocca HP, Merkely B, Nicholls SJ, Perrone S, Pina I, Ponikowski P, Sattar N, Senni M, Seronde MF, Spinar J, Squire I, Taddei S, Wanner C, Zannad F; EMPEROR-Reduced Trial Investigators. Cardiovascular and renal outcomes with Empagliflozin in heart failure. N Engl J Med. 2020 Oct 8;383(15):1413-1424. doi: 10.1056/NEJMoa2022190. PMID: 32865377.

Packer M, Butler J, Filippatos GS, Jamal W, Salsali A, Schnee J, Kimura K, Zeller C, George J, Brueckmann M, Anker SD, Zannad F; EMPEROR-Reduced Trial Committees and Investigators. Evaluation of the effect of sodium-glucose co-transporter 2 inhibition with empagliflozin on morbidity and mortality of patients with chronic heart failure and a reduced ejection fraction: rationale for and design of the EMPEROR-Reduced trial. Eur J Heart Fail. 2019 Oct;21(10):1270-1278. doi: 10.1002/ejhf.1536. PMID: 31584231.

Packer M, Butler J, Filippatos G, Zannad F, Ferreira JP, Zeller C, Brueckmann M, Jamal W, Pocock SJ, Anker SD; EMPEROR Trial Committees and Investigators. Design of a prospective patient-level pooled analysis of two parallel trials of empagliflozin in patients with established heart failure. Eur J Heart Fail. 2020 Dec;22(12):2393-2398. doi: 10.1002/ejhf.2065. PMID: 33251659; PMCID: PMC7898542.

Palta P, Heiss G, Sharrett AR, Gabriel KP, Walker K, Evenson KR, Knopman D, Mosley TH, Wong DF, Gottesman RF. Mid- and late-life leisure-time physical activity and global brain amyloid burden: the Atherosclerosis Risk in Communities (ARIC)-PET Study. J Alzheimers Dis. 2020:76(1):139-147. doi: 10.3233/JAD-200152. PMID: 32444546: PMCID: PMC8011955.

Palta P, Sharrett AR, Wei J, Meyer ML, Kucharska-Newton A, Power MC, Deal JA, Jack CR, Knopman D, Wright J, Griswold M, Tanaka H, Mosley TH, Heiss G. Central arterial stiffness is associated with structural brain damage and poorer cognitive performance: the ARIC Study. J Am Heart Assoc. 2019 Jan 22;8(2):e011045. doi: 10.1161/JAHA.118.011045. PMID: 30646799: PMCID: PMC6497348

Pandey A, Patel KV, Vongpatanasin W, Ayers C, Berry JD, Mentz RJ, Blaha MJ, McEvoy JW, Muntner P, Vaduganathan M, Correa A, Butler J, Shimbo D, Nambi V, deFilippi C, Seliger SL, Ballantyne CM, Selvin E, de Lemos JA, Joshi PH. Incorporation of biomarkers into risk assessment for allocation of antihypertensive medication according to the 2017 ACC/AHA High Blood Pressure Guideline: A Pooled Cohort Analysis. Circulation. 2019 Dec 17;140(25):2076-2088 doi: 10.1161/CIRCULATIONAHA.119.043337PMID: 31707797

Papadimitriou L, Moore CK, Butler J, Long RC. The limitations of symptom-based heart failure management. Card Fail Rev. 2019 May 24;5(2):74-77. doi: 10.15420/cfr.2019.3.2. PMID: 31179015; PMCID: PMC6546002.

Parikh PB, Wang TY, Sharma N, Kort S, Skopicki HA, Gruberg L, Jeremias A, Pyo R, Chikwe J, Butler J. Sex-related differences in early- and long-term mortality after transcatheter and surgical aortic valve replacement: a systematic review and meta-analysis. J Invasive Cardiol. 2020 Aug;32(8):295-301. PMID: 32198317.

Patel RB, Alenezi F, Sun JL, Alhanti B, Vaduganathan M, Oh JK, Redfield MM, Butler J, Hernandez AF Velazquez ET Shah ST Biomarker profile of left atrial myopathy in heart failure with preserved ejection fraction: insights from the RELAX Trial. J Card Fail. 2020 Mar;26(3):270-275. doi: 10.1016/j.cardfail.2019.12.001. PMID: 31857197; PMCID: PMC7078046.

Patel RB, Nohria A, Butler J, Vaduganathan M. Dying is not what it used to be! Impact of evolving epidemiology and treatment on mode of death in heart failure. Eur J Heart Fail. 2019 Oct;21(10):1267-1269. doi: 10.1002/ejhf.1587. PMID: 31410990; PMCID: PMC6819232.

Patel RB, Vaduganathan M, Felker GM, Butler J, Redfield MM, Shah SJ. Physical activity, quality of life, and biomarkers in atrial fibrillation and heart failure with preserved ejection fraction (from the NEAT-HFpEF Trial). Am J Cardiol. 2019 May 15;123(10):1660-1666. doi: 10.1016/j.amjcard.2019.02.025. PMID: 30876658; PMCID: PMC6488421.

Patel RB, Vaduganathan M, Rikhi A, Chakraborty H, Greene SJ, Hernandez AF, Felker GM, Redfield MM, **Butler J,** Shah SJ. History of atrial fibrillation and trajectory of decongestion in acute heart failure. JACC Heart Fail. 2019 Jan;7(1):47-55. doi: 10.1016/j.jchf.2018.09.008. PMID: 30409707; PMCID: PMC6320310.

Patel RB, Warraich HJ, **Butler J**, Vaduganathan M. Surprise, surprise: improving the referral pathway to palliative care interventions in advanced heart failure. Eur J Heart Fail. 2019 Feb;21(2):235-237. doi: 10.1002/ejhf.1382. PMID: 30592356; PMCID: PMC6375781.

Peri-Okonny PA, Mi X, Khariton Y, Patel KK, Thomas L, Fonarow GC, Sharma PP, Duffy CI, Albert NM, **Butler J,** Hernandez AF, McCague K, Williams FB, DeVore AD, Patterson JH, Spertus JA. Target doses of heart failure medical therapy and blood pressure: insights from the CHAMP-HF Registry. JACC Heart Fail. 2019 Apr;7(4):350-358. doi: 10.1016/j.jchf.2018.11.011. PMID: 30738978; PMCID: PMC6440823.

Pettee Gabriel K, **Griswold ME**, Wang W, Conway SH, **Windham BG**, Palta P, Kucharska-Newton A, Pompeii LA. Physical activity trajectories and subsequent fall risk: ARIC Study. Prev Med. 2019 Apr;121:40-46. doi: 10.1016/j.ypmed.2019.02.007. PMID: 30742870; PMCID: PMC6448408.

Piccini JP, Xu H, Cox M, Matsouaka RA, Fonarow GC, **Butler J,** Curtis AB, Desai N, Fang M, McCabe PJ, Page RL, Turakhia M, Russo AM, Knight BP, Sidhu M, Hurwitz JL, Ellenbogen KA, Lewis WR; Get With The Guidelines-AFIB Clinical Working Group and Hospitals. Adherence to guideline-directed stroke prevention therapy for atrial fibrillation is achievable. Circulation. 2019 Mar 19;139(12):1497-1506. doi: 10.1161/CIRCULATIONAHA.118.035909. PMID: 30700141.

Pieske B, Patel MJ, Westerhout CM, Anstrom KJ, **Butler J**, Ezekowitz J, Hernandez AF, Koglin J, Lam CSP, Ponikowski P, Roessig L, Voors AA, O'Connor CM, Armstrong PW; VICTORIA Study Group. Baseline features of the VICTORIA (Vericiguat Global Study in Subjects with Heart Failure with Reduced Ejection Fraction) trial. Eur J Heart Fail. 2019 Dec;21(12):1596-1604. doi: 10.1002/ejhf.1664. PMID: 31820546.

Piña IL, Camacho A, Ibrahim NE, Felker GM, **Butler J,** Maisel AS, Prescott MF, Williamson KM, Claggett BL, Desai AS, Solomon SD, Januzzi JL; PROVE-HF Investigators. Improvement of health status following initiation of Sacubitril/Valsartan in heart failure and reduced ejection fraction. JACC Heart Fail. 2021 Jan;9(1):42-51. doi: 10.1016/j.jchf.2020.09.012. Epub 2020 Nov 11. PMID: 33189630.

Pokharel Y, Mouhanna F, Nambi V, Virani SS, Hoogeveen R, Alonso A, Heiss G, Coresh J, **Mosley T,** Gottesman RF, Ballantyne CM, Power MC. ApoB, small-dense LDL-C, Lp(a), LpPLA₂ activity, and cognitive change. Neurology. 2019 May 28;92(22):e2580-e2593. doi: 10.1212/WNL.00000000007574. PMID: 31043469; PMCID: PMC6556082.

Pokharel Y, Mouhanna F, Schneider ALC, Rawlings AM, Knopman DS, Nambi V, Virani SS, Hoogeveen RC, Alonso A, Heiss G, Coresh J, **Mosley T,** Gottesman R, Selvin E, Ballantyne C, Power MC. High-sensitive troponin T, natriuretic peptide, and cognitive change. J Am Geriatr Soc. 2019 Nov;67(11):2353-2361. doi: 10.1111/jgs.16092. PMID: 31359423; PMCID: PMC6861618.

Ponikowski P, Kirwan BA, Anker SD, McDonagh T, Dorobantu M, Drozdz J, Fabien V, Filippatos G, Göhring UM, Keren A, Khintibidze I, Kragten H, Martinez FA, Metra M, Milicic D, Nicolau JC, Ohlsson M, Parkhomenko A, Pascual-Figal DA, Ruschitzka F, Sim D, Skouri H, van der Meer P, Lewis BS, Comin-Colet J, von Haehling S, Cohen-Solal A, Danchin N, Doehner W, Dargie HJ, Motro M, **Butler J,** Friede T, Jensen KH, Pocock S, Jankowska EA; AFFIRM-AHF investigators. Ferric carboxymaltose for iron deficiency at discharge after acute heart failure: a multicentre, double-blind, randomised, controlled trial. Lancet. 2020 Dec 12;396(10266):1895-1904. doi: 10.1016/S0140-6736(20)32339-4. PMID: 33197395.

Power MC, Su D, Wu A, Reid RI, Jack CR, Knopman DS, Coresh J, Huang J, Kantarci K, Sharrett AR, Gottesman RG, **Griswold ME, Mosley TH.** Association of white matter microstructural integrity with cognition and dementia. Neurobiol Aging. 2019 Nov;83:63-72. doi: 10.1016/j.neurobiolaging.2019.08.021. PMID: 31585368; PMCID: PMC6914220.

Psotka MA, Fiuzat M, Carson PE, Kao DP, Cerkvenik J, Schaber DE, Verta P, Kazmierski RT, Shinnar M, Stockbridge N, Unger EF, Zuckerman B, **Butler J,** Felker GM, Konstam MA, Lindenfeld J, Solomon SD, Teerlink JR, O'Connor CM, Abraham WT. Design of a "lean" case report form for heart failure therapeutic development. JACC Heart Fail. 2019 Nov;7(11):913-921. doi: 10.1016/j.jchf.2019.07.001. PMID: 31401097.

Psotka MA, Fiuzat M, Solomon SD, Chauhan C, Felker GM, **Butler J,** Teerlink JR, Sinha SS, O'Connor CM, Konstam MA. Challenges and potential improvements to patient access to pharmaceuticals: examples from cardiology. Circulation. 2020 Aug 25;142(8):790-798. doi: 10.1161/CIRCULATIONAHA.119.044976. PMID: 32833519.

Pulsipher MA, Logan BR, Kiefer DM, Chitphakdithai P, Riches ML, Rizzo JD, Anderlini P, Leitman OF, Kobusingye H, Besser RM, Miller JP, Drexler RJ, Abdel-Mageed A, Ahmed IA, Akard LP, Artz AS, Ball ED, Bayer RL, **Bigelow C**, Bolwell BJ, Broun ER, Delgado DC, Duckworth K, Dvorak CC, Hahn TE, Haight AE, Hari PN, Hayes-Lattin BM, Jacobsohn DA, Jakubowski AA, Kasow KA, Lazarus HM, Liesveld JL, Linenberger M, Litzow MR, Longo W, Magalhaes-Silverman M, McCarty JM, McGuirk JP, Mori S, Parameswaran V, Prasad VK, Rowley SD, Rybka WB, Sahdev I, Schriber JR, Selby GB, Shaughnessy PJ, Shenoy S, Spitzer T, Tse WT, Uberti JP, Vusrikala M, Waller EK, Weisdorf DJ, Yanik GA, Navarro WH, Horowitz MM, Switzer GE, Confer DL, Shaw BE. Related peripheral blood stem cell donors experience more severe symptoms and less complete recovery at one year compared to unrelated donors. Haematologica. 2019 Apr;104(4):844-854. doi: 10.3324/haematol.2018.200121. PMID: 30381298; PMCID: PMC6442962.

Pumill CA, Bush CG, Greiner MA, **Hall ME**, Dunlay SM, Correa A, Curtis LH, Suzuki T, Hardy C, Blackshear CT, O'Brien EC, Mentz RJ. Neck circumference and cardiovascular outcomes: insights from the Jackson Heart Study. Am Heart J. 2019 Jun;212:72-79. doi: 10.1016/j. ahj.2019.03.001. PMID: 30954832; PMCID: PMC6535120.

Quarta G, Gori M, Iorio A, D'Elia E, Moon JC, Iacovoni A, Burocchi S, Schelbert EB, Brambilla P, Sironi S, Caravita S, Parati G, Gavazzi A, Maisel AS, **Butler J**, Lam CSP, Senni M. Cardiac magnetic resonance in heart failure with preserved ejection fraction: myocyte, interstitium, microvascular, and metabolic abnormalities. Eur J Heart Fail. 2020 Jul;22(7):1065-1075. doi: 10.1002/ejhf.1961. PMID: 32654354.

Rachwan RJ, **Butler J**, Collins SP, Cotter G, Davison BA, Senger S, Ezekowitz JA, Filippatos G, Levy PD, Metra M, Ponikowski P, Teerlink JR, Voors AA, de Boer RA, Soergel DG, Felker GM, Pang PS. Is plasma renin activity associated with worse outcomes in acute heart failure? A secondary analysis from the BLAST-AHF trial. Eur J Heart Fail. 2019 Dec;21(12):1561-1570. doi: 10.1002/ ejhf.1607PMID: 31646707.

Rawlings AM, Sharrett AR, Albert MS, Coresh J, **Windham BG**, Power MC, Knopman DS, Walker K, Burgard S, **Mosley TH**, Gottesman RF, Selvin E. The association of late-life diabetes status and hyperglycemia with incident mild cognitive impairment and dementia: the ARIC Study. Diabetes Care. 2019 Jul;42(7):1248-1254. doi: 10.2337/dc19-0120. PMID: 31221696; PMCID: PMC6609963.

Rawlings AM, Sharrett AR, **Mosley TH**, Wong DF, Knopman DS, Gottesman RF. Cognitive reserve in midlife is not associated with amyloid- β deposition in late life. J Alzheimers Dis. 2019;68(2):517-521. doi: 10.3233/JAD-180785. PMID: 30775981; PMCID: PMC6443418.

Reed NS, Huddle MG, Betz J, Power MC, Pankow JS, Gottesman R, Richey Sharrett A, **Mosley TH**, Lin FR, Deal JA. Association of midlife hypertension with late-life hearing loss. Otolaryngol Head Neck Surg. 2019 Dec;161(6):996-1003. doi: 10.1177/0194599819868145. PMID: 31382849; PMCID: PMC7262678.

Reza N, Tahhan AS, Mahmud N, DeFilippis EM, Alrohaibani A, Vaduganathan M, Greene SJ, Ho AH, Fonarow GC, **Butler J,** O'Connor C, Fiuzat M, Vardeny O, Piña IL, Lindenfeld J, Jessup M. Representation of women authors in international heart failure guidelines and contemporary clinical trials. Circ Heart Fail. 2020 Aug;13(8):e006605. doi: 10.1161/CIRCHEARTFAILURE.119.006605. PMID: 32757645; PMCID: PMC7719050.

Rhee EP, Guallar E, Hwang S, Kim N, Tonelli M, Moe SM, Himmelfarb J, Thadhani RI, Powe NR, **Shafi T.** Prevalence and persistence of uremic symptoms in incident dialysis patients. Kidney360. 2020 Feb;1(2):86-92. doi: 10.34067/kid.0000072019. PMID: 32529191; PMCID: PMC7289028.

Roger SD, Lavin PT, Lerma EV, McCullough PA, **Butler J**, Spinowitz BS, von Haehling S, Kosiborod M, Zhao J, Fishbane S, Packham DK. Long-term safety and efficacy of sodium zirconium cyclosilicate for hyperkalaemia in patients with mild/moderate versus severe/end-stage chronic kidney disease: comparative results from an open-label, phase 3 study. Nephrol Dial Transplant. 2021 Jan 1;36(1):137-150. doi: 10.1093/ndt/gfz285. PMID: 32030422; PMCID: PMC7771984.

Rooney MR, Soliman EZ, Lutsey PL, Norby FL, Loehr LR, **Mosley TH,** Zhang M, Gottesman RF, Coresh J, Folsom AR, Alonso A, Chen LY. Prevalence and characteristics of subclinical atrial fibrillation in a community-dwelling elderly population: the ARIC Study. Circ Arrhythm Electrophysiol. 2019 Oct;12(10):e007390. doi: 10.1161/CIRCEP.119.007390. PMID: 31607148; PMCID: PMC6814387.

Rosen DM, Kundel V, Rueschman M, Kaplan R, Guo N, Wilson JG, **Min YI**, Redline S, Shah N. Self-reported snoring and incident cardiovascular disease events: results from the Jackson Heart Study. Sleep Breath. 2019 Sep;23(3):777-784. doi: 10.1007/s11325-018-01776-1. PMID: 30756321; PMCID: PMC6692255.

Sakhuja S, Booth JN, Anstey DE, Jaeger BC, Lewis CE, Lloyd-Jones DM, Schwartz JE, Shimbo D, Shikany JM, **Sims M,** Muntner P. Using predicted atherosclerotic cardiovascular disease risk for discrimination of awake or nocturnal hypertension. Am J Hypertens. 2020 Nov 3;33(11):1011-1020. doi: 10.1093/ajh/hpaa099. PMID: 32657334; PMCID: PMC7608525.

Sakhuja S, Booth JN, Lloyd-Jones DM, Lewis CE, Thomas SJ, Schwartz JE, Shimbo D, Shikany JM, **Sims M,** Yano Y, Muntner P. Health behaviors, nocturnal hypertension, and non-dipping blood pressure: the Coronary Artery Risk Development in Young Adults and Jackson Heart Study. Am J Hypertens. 2019 Jul 17;32(8):759-768. doi: 10.1093/ajh/hpz017. PMID: 30715142; PMCID: PMC6636688.

Sargurupremraj M, Suzuki H, Jian X, Sarnowski C, Evans TE, Bis JC, Eiriksdottir G, Sakaue S, Terzikhan N. Habes M. Zhao W. Armstrong NJ. Hofer E. Yanek LR. Hagenaars SP. Kumar RB. van den Akker EB, McWhirter RE, Trompet S, Mishra A, Saba Y, Satizabal CL, Beaudet G, Petit L, Tsuchida A, Zago L, Schilling S, Sigurdsson S, Gottesman RF, Lewis CE, Aggarwal NT, Lopez OL, Smith JA, Valdés Hernández MC, van der Grond J, Wright MJ, Knol MJ, Dörr M, Thomson RJ, Bordes C, Le Grand Q, Duperron MG, Smith AV, Knopman DS, Schreiner PJ, Evans DA, Rotter JI, Beiser AS, Maniega SM, Beekman M, Trollor J, Stott DJ, Vernooij MW, Wittfeld K, Niessen WJ, Soumaré A, Boerwinkle E. Sidney S. Turner ST. Davies G. Thalamuthu A. Völker U. van Buchem MA. Brvan RN. Dupuis J, Bastin ME, Ames D, Teumer A, Amouyel P, Kwok JB, Bülow R, Deary IJ, Schofield PR, Brodaty H, Jiang J, Tabara Y, Setoh K, Miyamoto S, Yoshida K, Nagata M, Kamatani Y, Matsuda F, Psaty BM, Bennett DA, De Jager PL, **Mosley TH**, Sachdev PS, Schmidt R, Warren HR, Evangelou E, Trégouët DA; International Network against Thrombosis (INVENT) Consortium; International Headache Genomics Consortium (IHGC), Ikram MA, Wen W, DeCarli C, Srikanth VK, Jukema JW, Slagboom EP, Kardia SLR, Okada Y, Mazover B, Wardlaw JM, Nyquist PA, Mather KA, Grabe HJ, Schmidt H, Van Duijn CM, Gudnason V, Longstreth WT Jr, Launer LJ, Lathrop M, Seshadri S, Tzourio C, Adams HH, Matthews PM, Fornage M, Debette S. Cerebral small vessel disease genomics and its implications across the lifespan. Nat Commun. 2020 Dec 8;11(1):6285. doi: 10.1038/s41467-020-19111-2. PMID: 33293549; PMCID: PMC7722866.

Satizabal CL, Adams HHH, Hibar DP, White CC, Knol MJ, Stein JL, Scholz M, Sargurupremraj M, Jahanshad N, Roshchupkin GV, Smith AV, Bis JC, Jian X, Luciano M, Hofer E, Teumer A, van der Lee SJ, Yang J, Yanek LR, Lee TV, Li S, Hu Y, Koh JY, Eicher JD, Desrivières S, Arias-Vasquez A, Chauhan G, Athanasiu L, Rentería ME, Kim S, Hoehn D, Armstrong NJ, Chen Q, Holmes AJ, den Braber A, Kloszewska I, Andersson M, Espeseth T, Grimm O, Abramovic L, Alhusaini S, Milaneschi Y. Papmever M. Axelsson T. Ehrlich S. Roiz-Santiañez R. Kraemer B. Håberg AK. Jones HJ. Pike GB, Stein DJ, Stevens A, Bralten J, Vernooij MW, Harris TB, Filippi I, Witte AV, Guadalupe T, Wittfeld K, **Mosley TH,** Becker JT, Doan NT, Hagenaars SP, Saba Y, Cuellar-Partida G, Amin N. Hilal S. Nho K. Mirza-Schreiber N. Arfanakis K. Becker DM. Ames D. Goldman AL. Lee PH. Boomsma DI, Lovestone S, Giddaluru S, Le Hellard S, Mattheisen M, Bohlken MM, Kasperaviciute D, Schmaal L, Lawrie SM, Agartz I, Walton E, Tordesillas-Gutierrez D, Davies GE, Shin J, Inser IC, Vinke LN, Hoogman M, Jia T, Burkhardt R, Klein M, Crivello F, Janowitz D, Carmichael O, Haukvik UK, Aribisala BS, Schmidt H, Strike LT, Cheng CY, Risacher SL, Pütz B, Fleischman DA, Assareh AA, Mattay VS, Buckner RL, Mecocci P, Dale AM, Cichon S, Boks MP, Matarin M, Penninx BWJH, Calhoun VD, Chakravarty MM, Marquand AF, Macare C, Kharabian Masouleh S, Oosterlaan J, Amouyel P, Hegenscheid K, Rotter JI, Schork AJ, Liewald DCM, de Zubicaray GI, Wong TY, Shen L, Sämann PG, Brodaty H, Roffman JL, de Geus EJC, Tsolaki M, Erk S, van Eijk KR, Cavalleri GL, van der Wee NJA, McIntosh AM, Gollub RL, Bulayeva KB, Bernard M, Richards JS, Himali JJ, Loeffler M, Rommelse N, Hoffmann W, Westlye LT, Valdés Hernández MC, Hansell NK, van Erp TGM, Wolf C, Kwok JBJ, Vellas B, Heinz A, Olde Loohuis LM, Delanty N, Ho BC, Ching CRK, Shumskava E, Singh B, Hofman A, van der Meer D, Homuth G, Psaty BM, Bastin ME Montgomery GW, Foroud TM, Reppermund S, Hottenga JJ, Simmons A, Meyer-Lindenberg A, Cahn W, Whelan CD, van Donkelaar MMJ, Yang Q, Hosten N, Green RC, Thalamuthu A, Mohnke S, Hulshoff Pol HE, Lin H, Jack CR Jr, Schofield PR, Mühleisen TW, Maillard P, Potkin SG, Wen W, Fletcher E, Toga AW, Gruber O, Huentelman M, Davey Smith G, Launer LJ, Nyberg L, Jönsson EG, Crespo-Facorro B, Koen N, Greve DN, Uitterlinden AG, Weinberger DR, Steen VM, Fedko IO. Groenewold NA. Niessen WJ. Toro R. Tzourio C. Longstreth WT Jr. Ikram MK. Smoller JW. van Tol MJ, Sussmann JE, Paus T, Lemaître H, Schroeter ML, Mazoyer B, Andreassen OA, Holsboer F, Depondt C, Veltman DJ, Turner JA, Pausova Z, Schumann G, van Rooij D, Djurovic S. Deary I.J. McMahon KL, Müller-Myhsok B. Brouwer RM, Soininen H. Pandolfo M. Wassink TH. Cheung JW, Wolfers T, Martinot JL, Zwiers MP, Nauck M, Melle I, Martin NG, Kanai R, Westman E, Kahn RS, Sisodiya SM, White T, Saremi A, van Bokhoven H, Brunner HG, Völzke H, Wright M I van 't Ent D Nöthen MM Ophoff RA Buitelaar IK Fernández G Sachdev PS Rietschel M van Haren NEM, Fisher SE, Beiser AS, Francks C, Saykin AJ, Mather KA, Romanczuk-Seiferth N, Hartman CA, DeStefano AL, Heslenfeld DJ, Weiner MW, Walter H, Hoekstra PJ, Nyquist PA, Franke B. Bennett DA. Grabe H.J. Johnson AD. Chen C. van Duijn CM. Lopez OL. Fornage M. Wardlaw JM, Schmidt R, DeCarli C, De Jager PL, Villringer A, Debette S, Gudnason V, Medland SE, Shulman JM, Thompson PM, Seshadri S, Ikram MA. Genetic architecture of subcortical brain structures in 38.851 individuals. Nat Genet. 2019 Nov:51(11):1624-1636. doi: 10.1038/

brain structures in 38,851 individuals. Nat Genet. 2019 Nov;51(11):1624-1636. doi: 10.1038/ s41588-019-0511-y. PMID: 31636452; PMCID: PMC7055269. Savarese G, Sattar N, Januzzi J, Verma S, Lund LH, Fitchett D, Zeller C, George JT, Brueckmann M, Ofstad AP, Inzucchi SE, Wanner C, Zinman B, **Butler J.** Empagliflozin is associated with a lower risk of post-acute heart failure rehospitalization and mortality. Circulation. 2019 Mar 12;139(11):1458-1460. doi: 10.1161/CIRCULATIONAHA.118.038339. PMID: 30855996.

Savarese G, Schrage B, Cosentino F, Lund LH, Rosano GMC, Seferovic P, **Butler J.** Non-insulin antihyperglycaemic drugs and heart failure: an overview of current evidence from randomized controlled trials. ESC Heart Fail. 2020 Sep 10;7(6):3438–51. doi: 10.1002/ ehf2.12937. Erratum in: ESC Heart Fail. 2021 Jun;8(3):2363. PMID: 32909376; PMCID: PMC7755024.

Savvoulidis P, **Butler J,** Kalogeropoulos A. Cardiomyopathy and heart failure in patients with HIV infection. Can J Cardiol. 2019 Mar;35(3):299-309. doi: 10.1016/j.cjca.2018.10.009. PMID: 30621958.

Savvoulidis P, Snider JV, Rawal S, Morris AA, **Butler J,** Georgiopoulou VV, Kalogeropoulos AP. Serum ST2 and hospitalization rates in Caucasian and African American outpatients with heart failure. Int J Cardiol. 2020 Apr 1;304:116-121. doi: 10.1016/j.ijcard.2019.11.002. PMID: 31706624; PMCID: PMC7906003.

Schelbert EB, **Butler J**, Diez J. Why clinicians should care about the cardiac interstitium. JACC Cardiovasc Imaging. 2019 Nov;12(11 Pt 2):2305-2318. doi: 10.1016/j.jcmg.2019.04.025. PMID: 31422140.

Scheppach JB, Coresh J, Wu A, Gottesman RF, **Mosley TH**, Knopman DS, Grams ME, Sharrett AR, Koton S. Albuminuria and estimated GFR as risk factors for dementia in midlife and older age: findings from the ARIC Study. Am J Kidney Dis. 2020 Dec;76(6):775-783. doi: 10.1053/j.ajkd.2020.03.015. PMID: 32428540; PMCID: PMC7669634.

Schneider ALC, Selvin E, Liang M, Latour L, Turtzo LC, Koton S, Coresh J, **Mosley T,** Whitlow CT, Zhou Y, Wong DF, Ling G, Gottesman RF. Association of head injury with brain amyloid deposition: the ARIC-PET Study. J Neurotrauma. 2019 Sep 1;36(17):2549-2557. doi: 10.1089/ neu.2018.6213. PMID: 30963804; PMCID: PMC6909743.

Schneider ALC, Senjem ML, Wu A, Gross A, Knopman DS, Gunter JL, Schwarz CG, **Mosley TH**, Gottesman RF, Sharrett AR, Jack CR Jr. Neural correlates of domain-specific cognitive decline: the ARIC-NCS Study. Neurology. 2019 Mar 5;92(10):e1051-e1063. doi: 10.1212/ WNL.000000000007042. PMID: 30728308; PMCID: PMC6442014.

Seals SR, Colantonio LD, Tingle JV, Shimbo D, **Correa A, Griswold ME,** Muntner P. Calibration of blood pressure measurements in the Jackson Heart Study. Blood Press Monit. 2019 Jun;24(3):130-136. doi: 10.1097/MBP.000000000000379. PMID: 30998553; PMCID: PMC7225013.

Segar MW, Patel KV, Vaduganathan M, Caughey MC, **Butler J,** Fonarow GC, Grodin JL, McGuire DK, Pandey A. Association of long-term change and variability in glycemia with risk of incident heart failure among patients with type 2 diabetes: a secondary analysis of the ACCORD Trial. Diabetes Care. 2020 Aug;43(8):1920-1928. doi: 10.2337/dc19-2541. PMID: 32540922; PMCID: PMC7876556.

Segar MW, Vaduganathan M, Patel KV, McGuire DK, **Butler J,** Fonarow GC, Basit M, Kannan V, Grodin JL, Everett B, Willett D, Berry J, Pandey A. Machine learning to predict the risk of incident heart failure hospitalization among patients with diabetes: the WATCH-DM Risk Score. Diabetes Care. 2019 Dec;42(12):2298-2306. doi: 10.2337/dc19-0587PMID: 31519694; PMCID: PMC7364669.

Sekula P, **Tin A,** Schultheiss UT, Baid-Agrawal S, Mohney RP, Steinbrenner I, Yu B, Luo S, Boerwinkle E, Eckardt KU, Coresh J, Grams ME, Köttgen A. Urine 6-Bromotryptophan: associations with genetic variants and incident end-stage kidney disease. Sci Rep. 2020 Jun 22;10(1):10018. doi: 10.1038/s41598-020-66334-w. PMID: 32572055; PMCID: PMC7308283.

Senitko M, Murphy TE, Puchalski JT. Strengths and limitations of a small randomized trial comparing manual and vacuum drainage in thoracentesis. J Bronchology Interv Pulmonol. 2019 Jul;26(3):e43. doi: 10.1097/LBR.000000000000583. PMID: 31233478; PMCID: PMC6592623.

Senitko M, Ray AS, Murphy TE, Araujo KLB, Bramley K, DeBiasi EM, Pisani MA, Cameron K, Puchalski JT. Safety and tolerability of vacuum versus manual drainage during thoracentesis: a randomized trial. J Bronchology Interv Pulmonol. 2019 Jul;26(3):166-171. doi: 10.1097/LBR.00000000000556. PMID: 30433893; PMCID: PMC6517094.

Shaikh A, Ochani RK, Khan MS, Riaz H, Khan SU, Sreenivasan J, Mookadam F, Doukky R, **Butler J,** Michos ED, Kalra A, Krasuski RA. Contribution of individual components to composite end points in contemporary cardiovascular randomized controlled trials. Am Heart J. 2020 Dec;230:71-81. doi: 10.1016/j.ahj.2020.09.001. PMID: 32941789.

Shang L, Smith JA, Zhao W, Kho M, Turner ST, **Mosley TH**, Kardia SLR, Zhou X. Genetic architecture of gene expression in European and African Americans: an eQTL mapping study in GENOA. Am J Hum Genet. 2020 Apr 2;106(4):496-512. doi: 10.1016/j.ajhg.2020.03.002. PMID: 32220292; PMCID: PMC7118581.

Shang L, Yue W, Wang D, Weng X, **Hall ME**, Xu Y, Hou M, Chen Y. Systolic overload-induced pulmonary inflammation, fibrosis, oxidative stress and heart failure progression through interleukin-1β. J Mol Cell Cardiol. 2020 Jul 24;146:84-94.

Shao IY, Power MC, **Mosley T,** Jack C Jr, Gottesman RF, Chen LY, Norby FL, Soliman EZ, Alonso A. Association of atrial fibrillation with white matter disease. Stroke. 2019 Apr;50(4):989-991. doi: 10.1161/STROKEAHA.118.023386. PMID: 30879437; PMCID: PMC6433530.

Shin J, Ma S, Hofer E, Patel Y, Vosberg DE, Tilley S, Roshchupkin GV, Sousa AMM, Jian X, Gottesman R, **Mosley TH,** Fornage M, Saba Y, Pirpamer L, Schmidt R, Schmidt H, Carrion-Castillo A, Crivello F, Mazoyer B, Bis JC, Li S, Yang Q, Luciano M, Karama S, Lewis L, Bastin ME, Harris MA, Wardlaw JM, Deary IE, Scholz M, Loeffler M, Witte AV, Beyer F, Villringer A, Armstrong NJ, Mather KA, Ames D, Jiang J, Kwok JB, Schofield PR, Thalamuthu A, Trollor JN, Wright MJ, Brodaty H, Wen W, Sachdev PS, Terzikhan N, Evans TE, Adams HHHH, Ikram MA, Frenzel S, Auwera-Palitschka SV, Wittfeld K, Bülow R, Grabe HJ, Tzourio C, Mishra A, Maingault S, Debette S, Gillespie NA, Franz CE, Kremen WS, Ding L, Jahanshad N; ENIGMA Consortium, Sestan N, Pausova Z, Seshadri S, Paus T; neuroCHARGE Working Group. Global and regional development of the human cerebral cortex: molecular architecture and occupational aptitudes. Cereb Cortex. 2020 Jun 1;30(7):4121-4139. doi: 10.1093/cercor/bhaa035. PMID: 32198502; PMCID: PMC7947185.

Siegler AJ, **Brock JB**, Hurt CB, Ahlschlager L, Dominguez K, Kelley CF, Jenness SM, Wilde G, Jameson SB, Bailey-Herring G, **Mena LA**. An electronic pre-exposure prophylaxis initiation and maintenance home care system for nonurban young men who have sex with men: protocol for a randomized controlled trial. JMIR Res Protoc. 2019 Jun 10;8(6):e13982. doi: 10.2196/13982. PMID: 31199326; PMCID: PMC6592500.

Simonsick E, **Griswold M, Windham BG.** Importance of will in resilience and recovery: findings from the BLSA. Innov Aging. 2020 Dec 16;4(Suppl 1):829. doi: 10.1093/geroni/igaa057.3032. PMCID: PMC7743243.

Sims KD, **Sims M,** Glover LM, Smit E, Odden MC. Perceived discrimination and trajectories of C-reactive protein: the Jackson Heart Study. Am J Prev Med. 2020 Feb;58(2):199-207. doi: 10.1016/j.amepre.2019.09.019. PMID: 31831294; PMCID: PMC6985923.

Sims M, Glover LM, Gebreab SY. Response to "Socioeconomic Status and Hypertension in African Americans from the Jackson Heart Study". Am J Hypertens. 2020 Oct 21;33(10):964-965. doi: 10.1093/ajh/hpaa082. PMID: 32434217; PMCID: PMC7577642.

Sims M, Glover LSM, Gebreab SY, Spruill TM. Cumulative psychosocial factors are associated with cardiovascular disease risk factors and management among African Americans in the Jackson Heart Study. BMC Public Health. 2020 Apr 28;20(1):566. doi: 10.1186/s12889-020-08573-0. PMID: 32345300; PMCID: PMC7189712.

Singh A, Babyak MA, **Sims M**, Musani SK, Brummett BH, Jiang R, Kraus WE, Shah SH, Siegler IC, Hauser ER, Williams RB. Evaluating the precision of EBF1 SNP x stress interaction association: sex, race, and age differences in a big harmonized data set of 28,026 participants. Transl Psychiatry. 2020 Oct 20;10(1):351. doi: 10.1038/s41398-020-01028-5. PMID: 33077726; PMCID: PMC7572375. Smith JA, Raisky J, Ratliff SM, Liu J, Kardia SLR, Turner ST, **Mosley TH**, Zhao W. Intrinsic and extrinsic epigenetic age acceleration are associated with hypertensive target organ damage in older African Americans. BMC Med Genomics. 2019 Oct 22;12(1):141. doi: 10.1186/s12920-019-0585-5. PMID: 31640709; PMCID: PMC6806502.

Smith WN, **Garla VV**, Moll TA, William Moll G Jr. Adolescent anxiety or polyendocrine autoimmunity? Glob Pediatr Health. 2020 Apr 4;7:2333794X20908756. doi: 10.1177/2333794X20908756. PMID: 32284957; PMCID: PMC7139171.

Sonbol MB, Firwana BM, **Hilal T,** Murad MH. How to read a published clinical trial: a practical guide for clinicians. Avicenna J Med. 2019 Apr 1;10(2):68-75. doi: 10.4103/ajm. ajm_186_19. PMID: 32500045; PMCID: PMC7252615.

Sonsin-Diaz N, Gottesman RF, Fracica E, Walston J, **Windham BG**, Knopman DS, Walker KA. Chronic systemic inflammation is associated with symptoms of late-life depression: the ARIC Study. Am J Geriatr Psychiatry. 2020 Jan;28(1):87-98. doi: 10.1016/j.jagp.2019.05.011. PMID: 31182350; PMCID: PMC6868307.

Spinowitz BS, Fishbane S, Pergola PE, Roger SD, Lerma EV, **Butler J**, von Haehling S, Adler SH, Zhao J, Singh B, Lavin PT, McCullough PA, Kosiborod M, Packham DK; ZS-005 Study Investigators. Sodium zirconium cyclosilicate among individuals with hyperkalemia: a 12-month phase 3 study. Clin J Am Soc Nephrol. 2019 Jun 7;14(6):798-809. doi: 10.2215/CJN.12651018. PMID: 31110051; PMCID: PMC6556727.

Sreenivasan J, Khan MS, Ochani RK, Bhinder J, Usman MS, Anker SD, Fonarow GC, **Butler J.** Major depression and anxiety among patients hospitalized with heart failure. Am J Cardiol. 2021 Mar 1;142:153-155. doi: 10.1016/j.amjcard.2020.12.053. Epub 2020 Dec 28. PMID: 33383015.

Srivastava P, **Butler J,** Shroyer AL, Templeton R, Parikh PB. Regional variations in cardiovascular risk factors and access to care among US veterans with cardiovascular disease. Coron Artery Dis. 2020 Dec;31(8):733-738. doi: 10.1097/MCA.0000000000000907. PMID: 32404592.

Srivastava PK, DeVore AD, Hellkamp AS, Thomas L, Albert NM, **Butler J,** Patterson JH, Spertus JA, Williams FB, Duffy CI, Hernandez AF, Fonarow GC. Heart failure hospitalization and guideline-directed prescribing patterns among heart failure with reduced ejection fraction patients. JACC Heart Fail. 2021 Jan;9(1):28-38. doi: 10.1016/j.jchf.2020.08.017. Epub 2020 Dec 9. PMID: 33309579.

Spruill TM, Butler MJ, Thomas SJ, Tajeu GS, Kalinowski J, Castañeda SF, Langford AT, Abdalla M, Blackshear C, Allison M, Ogedegbe G, **Sims M,** Shimbo D. Association between high perceived stress over time and incident hypertension in Black adults: findings from the Jackson Heart Study. J Am Heart Assoc. 2019 Nov 5;8(21):e012139. doi: 10.1161/JAHA.119.012139. PMID: 31615321; PMCID: PMC6898810.

Stergiopoulos K, Lima FV, **Butler J.** Heart failure in pregnancy: a problem hiding in plain sight. J Am Heart Assoc. 2019 May 7;8(9):e012905. doi: 10.1161/JAHA.119.012905. PMID: 31057025; PMCID: PMC6512108.

Suarez MLG, Thongprayoon C, Hansrivijit P, **Medaura J, Vaitla P**, Mao MA, Bathini T, Boonpheng B, Kanduri SR, Kovvuru K, Basu A, Cheungpasitporn W. Outcomes of kidney transplantation in fabry disease: a meta-analysis. Diseases. 2020 Dec 23;9(1):2. doi: 10.3390/ diseases9010002. PMID: 33374610; PMCID: PMC7838795.

Sullivan K, Blackshear C, Sharrett AR, Gottesman R, Knopman D, **Windham BG, Griswold M, Mosley T.** Midlife plasma Aβ and late-life risk of cognitive impairment: the Atherosclerosis Risk in Communities Study. Innov Aging. 2020 Dec 16;4(Suppl 1):251–2. doi: 10.1093/ geroni/igaa057.810. PMCID: PMC7740202.

Sullivan KJ, Griswold M, Hughes T, Hugenschmidt CE, Lockhart S, Mosley T, Gottesman R, Windham G. Neuropathology and gait speed decline in older adults: the Atherosclerosis Risk in Communities (ARIC) Study. Innov Aging. 2019 Nov 8;3(Suppl 1):S927–8. doi: 10.1093/geroni/igz038.3377. PMCID: PMC6846235.

Sumarsono A, Buckley LF, Machado SR, Wadhera RK, Warraich HJ, Desai RJ, Everett BM, McGuire DK, Fonarow GC, **Butler J**, Pandey A, Vaduganathan M. Medicaid expansion and utilization of antihyperglycemic therapies. Diabetes Care. 2020 Nov;43(11):2684-2690. doi: 10.2337/dc20-0735. PMID: 32887711; PMCID: PMC8051258.

Sumarsono A, Everett BM, McGuire DK, Fonarow GC, **Butler J,** Pandey A, Vaduganathan M. Trends in aggregate use and associated expenditures of antihyperglycemic therapies among US Medicare beneficiaries between 2012 and 2017. JAMA Intern Med. 2020 Jan 1;180(1):141-144. doi: 10.1001/jamainternmed.2019.3884. PMID: 31566649; PMCID: PMC6777260.

Sun D, Tiedt S, Yu B, Jian X, Gottesman RF, **Mosley TH**, Boerwinkle E, Dichgans M, Fornage M. A prospective study of serum metabolites and risk of ischemic stroke. Neurology. 2019 Apr 16;92(16):e1890-e1898. doi: 10.1212/WNL.000000000007279. PMID: 30867269; PMCID: PMC6550501.

Sung YJ, de Las Fuentes L, Winkler TW, Chasman DI, Bentley AR, Kraja AT, Ntalla I, Warren HR, Guo X, Schwander K, Manning AK, Brown MR, Aschard H, Feitosa MF, Franceschini N, Lu Y, Cheng CY, Sim X, Vojinovic D, Marten J, Musani SK, Kilpeläinen TO, Richard MA, Aslibekyan S, Bartz TM, Dorajoo R, Li C, Liu Y, Rankinen T, Smith AV, Tajuddin SM, Tayo BO, Zhao W, Zhou Y, Matoba N, Sofer T, Alver M, Amini M, Boissel M, Chai JF, Chen X, Divers J, Gandin I, Gao C, Giulianini F, Goel A, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC,

Jackson AU, Kammerer CM, Kasturiratne A, Komulainen P, Kühnel B, Leander K, Lee WJ, Lin KH, Luan J, Lyytikäinen LP, McKenzie CA, Nelson CP, Noordam R, Scott RA, Sheu WHH, Stančáková A. Takeuchi F. van der Most PJ. Varga TV. Waken RJ. Wang H. Wang Y. Ware FB. Weiss S, Wen W, Yanek LR, Zhang W, Zhao JH, Afag S, Alfred T, Amin N, Arking DE, Aung T, Barr RG, Bielak LF, Boerwinkle E, Bottinger EP, Braund PS, Brody JA, Broeckel U, Cade B, Campbell A. Canouil M. Chakravarti A. Cocca M. Collins FS. Connell JM. de Mutsert R. de Silva HJ, Dörr M, Duan Q, Eaton CB, Ehret G, Evangelou E, Faul JD, Forouhi NG, Franco OH, Friedlander Y, Gao H, Gigante B, Gu CC, Gupta P, Hagenaars SP, Harris TB, He J, Heikkinen S. Heng CK. Hofman A. Howard BV. Hunt SC. Irvin MR. Jia Y. Katsuva T. Kaufman J. Kerrison ND, Khor CC, Koh WP, Koistinen HA, Kooperberg CB, Krieger JE, Kubo M, Kutalik Z, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lee JH, Lehne B, Levy D, Lewis CE, Li Y: Lifelines Cohort Study, Lim SH, Liu CT, Liu J, Liu J, Liu Y, Loh M, Lohman KK, Louie T, Mägi R, Matsuda K, Meitinger T, Metspalu A, Milani L, Momozawa Y, Mosley TH Jr, Nalls MA, Nasri U, O'Connell JR, Ogunniyi A, Palmas WR, Palmer ND, Pankow JS, Pedersen NL, Peters A, Peyser PA, Polasek O, Porteous D, Raitakari OT, Renström F, Rice TK, Ridker PM, Robino A, Robinson JG, Rose LM, Rudan I, Sabanayagam C, Salako BL, Sandow K, Schmidt CO, Schreiner PJ, Scott WR, Sever P, Sims M, Sitlani CM, Smith BH, Smith JA, Snieder H, Starr JM, Strauch K, Tang H, Taylor KD, Teo YY, Tham YC, Uitterlinden AG. Waldenberger M. Wang L, Wang YX, Wei WB, Wilson G, Wojczynski MK, Xiang YB, Yao J, Yuan JM, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Chen YI, Weir DR, de Faire U, Deary IJ, Esko T, Farrall M, Forrester T, Freedman BI, Froguel P, Gasparini P, Gieger C, Horta BL, Hung YJ, Jonas JB, Kato N, Kooner JS, Laakso M, Lehtimäki T, Liang KW, Magnusson PKE, Oldehinkel AJ, Pereira AC, Perls T, Rauramaa R, Redline S, Rettig R, Samani NJ, Scott J, Shu XO van der Harst P. Wagenknecht I.F. Wareham N.I. Watkins H. Wickremasinghe AR. Wu T. Kamatani Y, Laurie CC, Bouchard C, Cooper RS, Evans MK, Gudnason V, Hixson J, Kardia SLR, Kritchevsky SB, Psaty BM, van Dam RM, Arnett DK, Mook-Kanamori DO, Fornage M, Fox ER. Hayward C. van Duijn CM. Tai ES. Wong TY. Loos RJF. Reiner AP. Rotimi CN. Bierut LJ, Zhu X, Cupples LA, Province MA, Rotter JI, Franks PW, Rice K, Elliott P, Caulfield MJ, Gauderman WJ, Munroe PB, Rao DC, Morrison AC. A multi-ancestry genome-wide study incorporating gene-smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure. Hum Mol Genet. 2019 Aug 1;28(15):2615-2633. doi: 10.1093/hmg/ ddz070, PMID: 31127295; PMCID: PMC6644157,

Suzuki T, Wang W, Wilsdon A, **Butler KR**, Adabag S, **Griswold ME**, Nambi V, Rosamond W, Sotoodehnia N, **Mosley TH**. Carotid intima-media thickness and the risk of sudden cardiac death: the ARIC Study and the CHS. J Am Heart Assoc. 2020 Oct 20;9(19):e016981. doi: 10.1161/JAHA.120.016981. PMID: 32975158; PMCID: PMC7792412.

Tahhan AS, Vaduganathan M, Greene SJ, Alrohaibani A, Raad M, Gafeer M, Mehran R, Fonarow GC, Douglas PS, Bhatt DL, **Butler J.** Enrollment of older patients, women, and racial/ ethnic minority groups in contemporary acute coronary syndrome clinical trials: a systematic review. JAMA Cardiol. 2020 Jun 1;5(6):714-722. doi: 10.1001/jamacardio.2020.0359. PMID: 32211813.

Tamura K, Langerman SD, Orstad SL, Neally SJ, Andrews MR, Ceasar JN, **Sims M**, Lee JE, Powell-Wiley TM. Physical activity-mediated associations between perceived neighborhood social environment and depressive symptoms among Jackson Heart Study participants. Int J Behav Nutr Phys Act. 2020 Jul 10;17(1):91. doi: 10.1186/s12966-020-00991-y. PMID: 32650787; PMCID: PMC7350640.

Tandon R, Mitra D, Sharma P, McCandless MG, Stray SJ, Bates JT, **Marshall GD.** Effective screening of SARS-CoV-2 neutralizing antibodies in patient serum using lentivirus particles pseudotyped with SARS-CoV-2 spike glycoprotein. Sci Rep. 2020 Nov 5;10(1):19076. doi: 10.1038/s41598-020-76135-w. PMID: 33154514; PMCID: PMC7645753.

Tang O, Daya N, Matsushita K, Coresh J, Sharrett AR, Hoogeveen R, Jia X, **Windham BG**, Ballantyne C, Selvin E. Performance of high-sensitivity cardiac troponin assays to reflect comorbidity burden and improve mortality risk stratification in older adults with diabetes. Diabetes Care. 2020 Jun;43(6):1200-1208. doi: 10.2337/dc19-2043. PMID: 32161049; PMCID: PMC7245347.

Tang O, Matsushita K, Coresh J, Hoogeveen RC, **Windham BG**, Ballantyne CM, Selvin E. High-sensitivity cardiac troponin I for risk stratification in older adults. J Am Geriatr Soc. 2021 Apr;69(4):986-994. doi: 10.1111/jgs.16912. PMID: 33150614; PMCID: PMC8049956.

Tang O, Matsushita K, Coresh J, Sharrett AR, McEvoy JW, **Windham BG**, Ballantyne CM, Selvin E. Mortality implications of prediabetes and diabetes in older adults. Diabetes Care. 2020 Feb;43(2):382-388. doi: 10.2337/dc19-1221. PMID: 31776141; PMCID: PMC6971785.

Tang SJ. Clip band ligation ablation. VideoGIE. 2020 Dec 9;6(3):136-138. doi: 10.1016/j. vgie.2020.11.003. PMID: 33738365; PMCID: PMC7947634.

Tang SJ. Response. VideoGIE. 2019 Jun 27;4(7):342. doi: 10.1016/j.vgie.2019.04.012. PMID: 31334430; PMCID: PMC6617238.

Tang SJ, Hosseini-Carroll P, Vesa TS. Hemospray hemostasis in bleeding diffusely ulcerated esophagus. VideoGIE. 2019 Feb 7;4(3):142-144. doi: 10.1016/j.vgie.2018.12.010. PMID: 30899897; PMCID: PMC6408944.

Tang SJ, Naga YM. Endoclip-assisted giant colon lipoma resection. VideoGIE. 2019 Feb 13;4(4):176-178. doi: 10.1016/j.vgie.2018.12.012. PMID: 31016277; PMCID: PMC6470313.

Tang SJ, Naga YM, Roebuck T, Sabharwal A, Patel K, Fox E. Wire-guided and endoscopic-guided transesophageal echocardiographic probe insertion. VideoGIE. 2020 Feb 11;5(5):187-189. doi: 10.1016/j.vgie.2020.01.006. PMID: 32426564; PMCID: PMC7222028. Tang SJ, Naga YM, Zhang S. Double-channel double-grasper technique in over-the-scope clip deployment. VideoGIE. 2020 Feb 6;5(4):141-143. doi: 10.1016/j.vgie.2019.12.010. PMID: 32258842; PMCID: PMC7125410.

Tang SJ, Wu R. Ilececum: a comprehensive review. Can J Gastroenterol Hepatol. 2019 Feb 3;2019:1451835. doi: 10.1155/2019/1451835. PMID: 30854348; PMCID: PMC6378086.

Tang SJ, Zhang S, Grunes DE. Gastric and duodenal pseudomelanosis: a new insight into its pathogenesis. VideoGIE. 2019 Aug 5;4(10):467-468. doi: 10.1016/j.vgie.2019.06.006. PMID: 31709332; PMCID: PMC6831910.

Teumer A, Li Y, Ghasemi S, Prins BP, Wuttke M, Hermle T, Giri A, Sieber KB, Qiu C, Kirsten H, Tin A, Chu AY, Bansal N, Feitosa MF, Wang L, Chai JF, Cocca M, Fuchsberger C, Gorski M, Hoppmann A. Horn K. Li M. Marten J. Noce D. Nutile T. Sedaghat S. Sveinbiornsson G. Tavo BO, van der Most PJ, Xu Y, Yu Z, Gerstner L, Ärnlöv J, Bakker SJL, Baptista D, Biggs ML, Boerwinkle E, Brenner H, Burkhardt R, Carroll RJ, Chee ML, Chee ML, Chen M, Cheng CY, Cook IP Coresh I Corre T Danesh I de Borst MH De Grandi A de Mutsert R de Vries API Degenhardt F, Dittrich K, Divers J, Eckardt KU, Ehret G, Endlich K, Felix JF, Franco OH, Franke A, Freedman BI, Freitag-Wolf S, Gansevoort RT, Giedraitis V, Gögele M, Grundner-Culemann F. Gudbiartsson DF. Gudnason V. Hamet P. Harris TB. Hicks AA. Holm H. Foo VHX. Hwang SJ. Ikram MA, Ingelsson E, Jaddoe VWV, Jakobsdottir J, Josyula NS, Jung B, Kähönen M, Khor CC, Kiess W, Koenig W, Körner A, Kovacs P, Kramer H, Krämer BK, Kronenberg F, Lange LA, Langefeld CD, Lee JJ, Lehtimäki T, Lieb W, Lim SC, Lind L, Lindgren CM, Liu J, Loeffler M, Lyytikäinen LP, Mahajan A, Maranville JC, Mascalzoni D, McMullen B, Meisinger C, Meitinger T, Miliku K, Mook-Kanamori DO, Müller-Nurasyid M, Mychaleckyj JC, Nauck M, Nikus K, Ning B, Noordam R, Connell JO, Olafsson J, Palmer ND, Peters A, Podgornaja Al, Ponte B Poulain T, Pramstaller PP, Rabelink TJ, Raffield LM, Reilly DF, Rettig R, Rheinberger M, Rice KM, Rivadeneira F, Runz H, Ryan KA, Sabanayagam C, Saum KU, Schöttker B, Shaffer CM, Shi Y, Smith AV, Strauch K, Stumvoll M, Sun BB, Szymczak S, Tai ES, Tan NYQ, Taylor KD, Teren A, Tham YC, Thiery J, Thio CHL, Thomsen H, Thorsteinsdottir U, Tönjes A, Tremblay J, Uitterlinden AG, van der Harst P, Verweij N, Vogelezang S, Völker U, Waldenberger M, Wang C, Wilson OD, Wong C, Wong TY, Yang Q, Yasuda M, Akilesh S, Bochud M, Böger CA, Devuyst O, Edwards TL, Ho K, Morris AP, Parsa A, Pendergrass SA, Psaty BM, Rotter JI, Stefansson K, Wilson JG, Susztak K, Snieder H, Heid IM, Scholz M, Butterworth AS, Hung AM, Pattaro C, Köttgen A. Genome-wide association meta-analyses and fine-mapping elucidate pathways influencing albuminuria. Nat Commun. 2019 Sep 11;10(1):4130. doi: 10.1038/s41467-019-11576-0. PMID: 31511532; PMCID: PMC6739370.

Thomas M, Khariton Y, Fonarow GC, Arnold SV, Hill L, Nassif ME, Sharma PP, **Butler J**, Thomas L, Duffy CI, DeVore AD, Hernandez A, Albert NM, Patterson JH, Williams FB, McCague K, Spertus JA. Association of changes in heart failure treatment with patients' health status: real-world evidence from CHAMP-HF. JACC Heart Fail. 2019 Jul;7(7):615-625. doi: 10.1016/j. jchf.2019.03.020. PMID: 31176672; PMCID: PMC6746166.

Thomas SJ, Johnson DA, Guo N, Abdalla M, Booth JN, Spruill TM, Jackson CL, Yano Y, **Sims M**, Calhoun D, Muntner P, Redline S. Association of obstructive sleep apnea with nighttime blood pressure in African Americans: the Jackson Heart Study. Am J Hypertens. 2020 Oct 21;33(10):949-957. doi: 10.1093/ajh/hpaa088. PMID: 32492711; PMCID: PMC7577643.

Thongprayoon C, Cheungpasitporn W, Hansrivijit P, Mao MA, **Medaura J,** Bathini T, Chewcharat A, Erickson SB. Admission serum potassium levels in hospitalized patients and one-year mortality. Medicines (Basel). 2019 Dec 30;7(1):2. doi: 10.3390/medicines7010002. PMID: 31905856; PMCID: PMC7168271.

Thongprayoon C, Cheungpasitporn W, Hansrivijit P, **Medaura J,** Chewcharat A, Mao MA, Bathini T, Vallabhajosyula S, Thirunavukkarasu S, Erickson SB. Impact of changes in serum calcium levels on in-hospital mortality. Medicina (Kaunas). 2020 Mar 2;56(3):106. doi: 10.3390/medicina56030106. PMID: 32131462; PMCID: PMC7143235.

Thongprayoon C, Cheungpasitporn W, Hansrivijit P, Thirunavukkarasu S, Chewcharat A, **Medaura J,** Mao MA, Kashani KB. Impact of serum phosphate changes on in-hospital mortality. BMC Nephrol. 2020 Oct 7;21(1):427. doi: 10.1186/s12882-020-02090-3. PMID: 33028266; PMCID: PMC7542949.

Thongprayoon C, Cheungpasitporn W, Petnak T, Mao MA, Chewcharat A, Qureshi F, **Medaura J,** Bathini T, Vallabhajosyula S, Kashani KB. Hospital-acquired serum chloride derangements and associated in-hospital mortality. Medicines (Basel). 2020 Jun 29;7(7):38. doi: 10.3390/medicines7070038. PMID: 32610534; PMCID: PMC7400070.

Thongprayoon C, Kaewput W, Boonpheng B, Ungprasert P, Bathini T, Srivali N, Vallabhajosyula S, Castaneda JL, Monga D, Kanduri SR, **Medaura J,** Cheungpasitporn W. Impact of ANCA-associated vasculitis on outcomes of hospitalizations for Goodpasture's Syndrome in the United States: nationwide inpatient sample 2003-2014. Medicina (Kaunas). 2020 Mar 1;56(3):103. doi: 10.3390/medicina56030103. PMID: 32121573; PMCID: PMC7142422.

Thongprayoon C, Neyra JA, Hansrivijit P, **Medaura J**, Leeaphorn N, Davis PW, Kaewput W, Bathini T, Salim SA, Chewcharat A, Aeddula NR, Vallabhajosyula S, Mao MA, Cheungpasitporn W. Serum klotho in living kidney donors and kidney transplant recipients: a meta-analysis. J Clin Med. 2020 Jun 12;9(6):1834. doi: 10.3390/jcm9061834. PMID: 32545510; PMCID: PMC7355868.

Thongprayoon C, Petnak T, Kaewput W, Mao MA, Kovvuru K, Kanduri SR, Boonpheng B, Bathini T, Vallabhajosyula S, Pivovarova AI, Brar HS, **Medaura J,** Cheungpasitporn W. Hospitalizations for acute salicylate intoxication in the United States. J Clin Med. 2020 Aug 14;9(8):2638. doi: 10.3390/jcm9082638. PMID: 32823834; PMCID: PMC7465677.

Thongprayoon C, **Vaitla P**, Craici IM, Leeaphorn N, Hansrivijit P, Salim SA, Bathini T, **Rivera FHC**, Cheungpasitporn W. The use of donor-derived cell-free DNA for assessment of allograft rejection and injury status. J Clin Med. 2020 May 14;9(5):1480. doi: 10.3390/ jcm9051480. PMID: 32423115; PMCID: PMC7290747.

Tin A, Marten J, Halperin Kuhns VL, Li Y, Wuttke M, Kirsten H, Sieber KB, Qiu C, Gorski M, Yu Z, Giri A, Sveinbjornsson G, Li M, Chu AY, Hoppmann A, O'Connor LJ, Prins B, Nutile T, Noce D, Akiyama M, Cocca M, Ghasemi S, van der Most PJ, Horn K, Xu Y, Fuchsberger C, Sedaghat S, Afaq S, Amin N, Ärnlöv J, Bakker SJL, Bansal N, Baptista D, Bergmann S, Biggs ML, Bijno G, Boerwinkle E, Bottinger EP, Boutin TS, Brumat M, Burkhardt R, Campana E, Campbell A, Campbell H, Carroll RJ, Catamo E, Chambers JC, Ciullo M, Concas MP, Coresh J, Corre T, Cusi D, Felicita SC, de Borst MH, De Grandi A, de Mutsert R, de Vries APJ, Delgado G, Demirkan A, Devuyst O, Dittrich K, Eckardt KU, Ehret G, Endlich K, Evans MK, Gansevoort RT, Gasparini P, Giedraitis V, Gieger C, Girotto G, Gögele M, Gordon SD, Gudbjartsson DF, Gudnason V; German Chronic Kidney Disease Study, Haller T, Hamet P, Harris TB, Hayward C, Hicks AA, Hofer E, Holm H, Huang W, Hutri-Kähönen N, Hwang SJ, Ikram MA, Lewis RM, Ingelsson E, Jakobsdottir J, Jonsdottir I, Jonsson H, Joshi PK, Josyula NS, Jung B, Kähönen M, Kamatani Y, Kanai M, Kerr SM, Kiess W, Kleber ME, Koenig W, Kooner JS, Körner A, Kovacs P, Krämer BK, Kronenberg F, Kubo M, Kühnel B, La Bianca M, Lange LA, Lehne B, Lehtimäki T; Lifelines Cohort Study, Liu J, Loeffler M, Loos RJF, Lyytikäinen LP, Magi R, Mahajan A, Martin NG, März W, Mascalzoni D, Matsuda K, Meisinger C. Meitinger T. Metspalu A. Milaneschi Y: V. A. Million Veteran Program, O/Donnell C.J. Wilson OD, Gaziano JM, Mishra PP, Mohlke KL, Mononen N, Montgomery GW, Mook-Kanamori DO, Müller-Nurasyid M, Nadkarni GN, Nalls MA, Nauck M, Nikus K, Ning B, Nolte IM. Noordam R. O.Connell JR. Olafsson I. Padmanabhan S. Penninx BWJH. Perls T. Peters A, Pirastu M, Pirastu N, Pistis G, Polasek O, Ponte B, Porteous DJ, Poulain T, Preuss MH, Rabelink TJ, Raffield LM, Raitakari OT, Rettig R, Rheinberger M, Rice KM, Rizzi F, Robino A, Rudan I, Krajcoviechova A, Cifkova R, Rueedi R, Ruggiero D, Ryan KA, Saba Y, Salvi E, Schmidt H, Schmidt R, Shaffer CM, Smith AV, Smith BH, Spracklen CN, Strauch K, Stumvoll M, Sulem P, Tajuddin SM, Teren A, Thiery J, Thio CHL, Thorsteinsdottir U, Toniolo D, Tönjes A, Tremblay J, Uitterlinden AG, Vaccargiu S, van der Harst P, van Duijn CM, Verweij N, Völker U, Vollenweider P, Waeber G, Waldenberger M, Whitfield JB, Wild SH, Wilson JF, Yang Q, Zhang W, Zonderman AB, Bochud M, Wilson JG, Pendergrass SA, Ho K, Parsa A, Pramstaller PP. Psaty BM, Böger CA, Snieder H, Butterworth AS, Okada Y, Edwards TL, Stefansson K, Susztak K, Scholz M, Heid IM, Hung AM, Teumer A, Pattaro C, Woodward OM, Vitart V, Köttgen A. Target genes, variants, tissues and transcriptional pathways influencing human serum urate levels. Nat Genet. 2019 Oct;51(10):1459-1474. doi: 10.1038/s41588-019-0504-x. PMID: 31578528; PMCID: PMC6858555.

Tin A, Yu B, Ma J, Masushita K, Daya N, Hoogeveen RC, Ballantyne CM, Couper D, Rebholz CM, Grams ME, Alonso A, **Mosley T,** Heiss G, Ganz P, Selvin E, Boerwinkle E, Coresh J. Reproducibility and variability of protein analytes measured using a multiplexed modified aptamer assay. J Appl Lab Med. 2019 Jul;4(1):30-39. doi: 10.1373/jalm.2018.027086. PMID: 31639705; PMCID: PMC6814271.

Topel ML, Kim JH, Mujahid MS, Ko YA, Vaccarino V, Mubasher M, Liu C, Dunbar S, **Sims M**, Taylor HA, Quyyumi AA, Baltrus P, Lewis TT. Individual characteristics of resilience are associated with lower-than-expected neighborhood rates of cardiovascular disease in Blacks: results From the Morehouse-Emory Cardiovascular (MECA) Center for Health Equity Study. J Am Heart Assoc. 2019 Jun 18;8(12):e011633. doi: 10.1161/JAHA.118.011633. PMID: 31203713; PMCID: PMC6645651.

Triposkiadis F, **Butler J**, Abboud FM, Armstrong PW, Adamopoulos S, Atherton JJ, Backs J, Bauersachs J, Burkhoff D, Bonow RO, Chopra VK, de Boer RA, de Windt L, Hamdani N, Hasenfuss G, Heymans S, Hulot JS, Konstam M, Lee RT, Linke WA, Lunde IG, Lyon AR, Maack C, Mann DL, Mebazaa A, Mentz RJ, Nihoyannopoulos P, Papp Z, Parissis J, Pedrazzini T, Rosano G, Rouleau J, Seferovic PM, Shah AM, Starling RC, Tocchetti CG, Trochu JN, Thum T, Zannad F, Brutsaert DL, Segers VF, De Keulenaer GW. The continuous heart failure spectrum: moving beyond an ejection fraction classification. Eur Heart J. 2019 Jul 1;40(26):2155-2163. doi: 10.1093/eurheartj/ehz158. PMID: 30957868; PMCID: PMC7963129.

Triposkiadis F, Starling RC, Xanthopoulos A, **Butler J**, Boudoulas H. Renin-angiotensin-system inhibition in the context of corona virus disease-19: experimental evidence, observational studies, and clinical implications. Heart Fail Rev. 2021 Mar;26(2):381-389. doi: 10.1007/s10741-020-10022-4. Epub 2020 Sep 1. PMID: 32875490; PMCID: PMC7462660.

Triposkiadis F, Starling RC, Xanthopoulos A, **Butler J**, Boudoulas H. The counter regulatory axis of the lung renin-angiotensin system in severe COVID-19: pathophysiology and clinical implications. Heart Lung Circ. 2021 Jun;30(6):786-794. doi: 10.1016/j.hlc.2020.11.008. PMID: 33454213; PMCID: PMC7831862.

Triposkiadis F, Starling RC, Xanthopoulos A, **Butler J**, Boudoulas H. Renin-angiotensin-system inhibition in the context of corona virus disease-19: experimental evidence, observational studies, and clinical implications. Heart Fail Rev. 2021 Mar;26(2):381-389. doi: 10.1007/s10741-020-10022-4. PMID: 32875490; PMCID: PMC7462660.

Triposkiadis F, Xanthopoulos A, **Butler J.** Cardiovascular aging and heart failure: JACC review topic of the week. J Am Coll Cardiol. 2019 Aug 13;74(6):804-813. doi: 10.1016/j. jacc.2019.06.053. PMID: 31395131.

Triposkiadis F, Xanthopoulos A, **Butler J.** From paradigm to paragon: further evidence supporting continuous heart failure spectrum. Eur J Heart Fail. 2020 Sep;22(9):1536-1539. doi: 10.1002/ejhf.1837. PMID: 32294294.

Triposkiadis F, Xanthopoulos A, Parissis J, **Butler J**, Farmakis D. Pathogenesis of chronic heart failure: cardiovascular aging, risk factors, comorbidities, and disease modifiers. Heart Fail Rev. 2020 Jun 10. doi: 10.1007/s10741-020-09987-z. PMID: 32524327.

Tschöpe C, **Butler J**, Farmakis D, Morley D, Rao I, Filippatos G. Clinical effects of cardiac contractility modulation in heart failure with mildly reduced systolic function. ESC Heart Fail. 2020 Dec 3;7(6):3531–5. doi: 10.1002/ehf2.13126. PMID: 33274601; PMCID: PMC7754749.

Usman MS, Siddiqi TJ, Khan MS, Ahmed A, Ali SS, Michos ED, **Hall ME**, Krasuski RA, Greene SJ, **Butler J**, Alkhouli M. A meta-analysis of the relationship between renin-angiotensin-aldosterone system inhibitors and COVID-19. Am J Cardiol. 2020 Sep 1;130:159-161. doi: 10.1016/j. amjcard.2020.05.038. PMID: 32624189; PMCID: PMC7266568.

Vaduganathan M, **Butler J.** SGLT-2 inhibitors in heart failure: a new therapeutic avenue. Nat Med. 2019 Nov;25(11):1653-1654. doi: 10.1038/s41591-019-0647-4. PMID: 31700170.

Vaduganathan M, **Butler J,** Krumholz HM, Itchhaporia D, Stecker EC, Bhatt DL. Regulation of cardiovascular therapies during the COVID-19 public health emergency. J Am Coll Cardiol. 2020 Nov 24;76(21):2517-2521. doi: 10.1016/j.jacc.2020.09.594. PMID: 33213730; PMCID: PMC7669239.

Vaduganathan M, Fonarow GC, Greene SJ, DeVore AD, Albert NM, Duffy CI, Hill CL, Spertus JA, Thomas LE, **Butler J.** Health-related quality of life in comorbid heart failure with reduced ejection fraction and diabetes mellitus. J Am Coll Cardiol. 2019 Dec 24;74(25):3176-3178. doi: 10.1016/j.jacc.2019.10.020. PMID: 31727426; PMCID: PMC7961327.

Vaduganathan M, Fonarow GC, Greene SJ, DeVore AD, Kavati A, Sikirica S, Albert NM, Duffy CI, Hill CL, Patterson JH, Spertus JA, Thomas LE, Williams FB, Hernandez AF, **Butler J.** Contemporary treatment patterns and clinical outcomes of comorbid diabetes mellitus and HFrEF: the CHAMP-HF Registry. JACC Heart Fail. 2020 Jun;8(6):469-480. doi: 10.1016/j.jchf.2019.12.015. PMID: 32387066.

Vaduganathan M, Greene SJ, Zhang S, Grau-Sepulveda M, DeVore AD, **Butler J**, Heidenreich PA, Huang JC, Kittleson MM, Joynt Maddox KE, McDermott JJ, Owens AT, Peterson PN, Solomon SD, Vardeny O, Yancy CW, Fonarow GC. Applicability of US Food and Drug Administration labeling for Dapagliflozin to patients with heart failure with reduced ejection fraction in US clinical practice: the Get With the Guidelines-Heart Failure (GWTG-HF) Registry. JAMA Cardiol. 2020 Nov 13;6(3):1–10. doi: 10.1001/jamacardio.2020.5864. PMID: 33185662; PMCID: PMC7666432.

Vaduganathan M, Hirji SA, Qamar A, Bajaj N, Gupta A, Zaha V, Chandra A, Haykowsky M, Ky B, Moslehi J, Nohria A, **Butler J**, Pandey A. Efficacy of neurohormonal therapies in preventing cardiotoxicity in patients with cancer undergoing chemotherapy. JACC CardioOncol. 2019 Sep;1(1):54-65. doi: 10.1016/j.jaccao.2019.08.006. PMID: 33083790; PMCID: PMC7571368.

Vaduganathan M, Patel RB, Singh A, McCarthy CP, Qamar A, Januzzi JL Jr, Scirica BM, **Butler J,** Cannon CP, Bhatt DL. Prescription of glucagon-like peptide-1 receptor agonists by cardiologists. J Am Coll Cardiol. 2019 Apr 2;73(12):1596-1598. doi: 10.1016/j.jacc.2019.01.029. PMID: 30922481; PMCID: PMC6764415.

Vaduganathan M, Singh A, Sharma A, Januzzi JL Jr, Scirica BM, **Butler J**, Zannad F, McGuire DK, Cannon CP, Bhatt DL. Contemporary trends in prescription of dipeptidyl peptidase-4 inhibitors in the context of US Food and Drug Administration warnings of heart failure risk. Am J Cardiol. 2020 May 15;125(10):1577-1581. doi: 10.1016/j.amjcard.2020.01.053. PMID: 32245636.

Vaduganathan M, Tahhan AS, Alrohaibani A, Greene SJ, Fonarow GC, Vardeny O, Lindenfeld J, Jessup M, Fiuzat M, O'Connor CM, **Butler J**. Do women and men respond similarly to therapies in contemporary heart failure clinical trials? JACC Heart Fail. 2019 Mar;7(3):267-271. doi: 10.1016/j.jchf.2018.12.016. PMID: 30819383; PMCID: PMC7437364.

Valero-Elizondo J, Khera R, Saxena A, Grandhi GR, Virani SS, **Butler J,** Samad Z, Desai NR, Krumholz HM, Nasir K. Financial hardship from medical bills among nonelderly U.S. adults with atherosclerotic cardiovascular disease. J Am Coll Cardiol. 2019 Feb 19;73(6):727-732. doi: 10.1016/j.jacc.2018.12.004. PMID: 30765039.

Verma S, Anker SD, **Butler J**, Bhatt DL. Early initiation of SGLT2 inhibitors is important, irrespective of ejection fraction: SOLOIST-WHF in perspective. ESC Heart Fail. 2020 Dec 22;7(6):3261– 7. doi: 10.1002/ehf2.13148. PMCID: PMC7754955.

Verma S, Sharma A, Kanumilli N, **Butler J.** Predictors of heart failure development in type 2 diabetes: a practical approach. Curr Opin Cardiol. 2019 Sep;34(5):578-583. doi: 10.1097/ HCO.00000000000647. PMID: 31219877; PMCID: PMC6727884.

Verma S, Sharma A, Zinman B, Ofstad AP, Fitchett D, Brueckmann M, Wanner C, Zwiener I, George JT, Inzucchi SE, **Butler J**, Mazer CD. Empagliflozin reduces the risk of mortality and hospitalization for heart failure across thrombolysis in myocardial infarction risk score for heart failure in diabetes categories: post hoc analysis of the EMPA-REG OUTCOME trial. Diabetes Obes Metab. 2020 Jul;22(7):1141-1150. doi: 10.1111/dom.14015. PMID: 32227432; PMCID: PMC7318207.

Vijayakumar S, **Butler J**, Anker SD. New treatments for hyperkalaemia: clinical use in cardiology. Eur Heart J Suppl. 2019 Feb;21(Suppl A):A41-A47. doi: 10.1093/eurheartj/suy031. PMID: 30837804; PMCID: PMC6392415.

Vijayakumar S, **Butler J**, Bakris GL. Barriers to guideline mandated renin-angiotensin inhibitor use: focus on hyperkalaemia. Eur Heart J Suppl. 2019 Feb;21(Suppl A):A20-A27. doi: 10.1093/eurhearti/suy030. PMID: 30837801; PMCID: PMC6392419.

Volpe M, Bauersachs J, Bayés-Genís A, **Butler J,** Cohen-Solal A, Gallo G, Deichl AS, Khan MS, Battistoni A, Pieske B, Saito Y, Zieroth S. Sacubitril/valsartan for the management of heart failure: a perspective viewpoint on current evidence. Int J Cardiol. 2021 Mar 15;327:138-145. doi: 10.1016/j.ijcard.2020.11.071. Epub 2020 Dec 8. PMID: 33301829.

Voors AA, Bax JJ, Hernandez AF, Wirtz AB, Pap AF, Ferreira AC, Senni M, van der Laan M, **Butler J;** PANTHEON Investigators. Safety and efficacy of the partial adenosine A1 receptor agonist neladenoson bialanate in patients with chronic heart failure with reduced ejection fraction: a phase IIb, randomized, double-blind, placebo-controlled trial. Eur J Heart Fail. 2019 Nov;21(11):1426-1433. doi: 10.1002/ejhf.1591. PMID: 31523892.

Voors AA, Kremer D, Geven C, Ter Maaten JM, Struck J, Bergmann A, Pickkers P, Metra M, Mebazaa A, Düngen HD, **Butler J**. Adrenomedullin in heart failure: pathophysiology and therapeutic application. Eur J Heart Fail. 2019 Feb;21(2):163-171. doi: 10.1002/ejhf.1366. PMID: 30592365; PMCID: PMC6607488.

Walker KA, Gottesman RF, Wu A, Knopman DS, Gross AL, **Mosley TH Jr**, Selvin E, **Windham BG.** Systemic inflammation during midlife and cognitive change over 20 years: the ARIC Study. Neurology. 2019 Mar 12;92(11):e1256-e1267. doi: 10.1212/WNL.0000000000007094. PMID: 30760633; PMCID: PMC6511107.

Walker KA, Sharrett AR, Wu A, Schneider ALC, Albert M, Lutsey PL, Bandeen-Roche K, Coresh J, Gross AL, **Windham BG**, Knopman DS, Power MC, Rawlings AM, **Mosley TH**, Gottesman RF. Association of midlife to late-life blood pressure patterns with incident dementia. JAMA. 2019 Aug 13;322(6):535-545. doi: 10.1001/jama.2019.10575. PMID: 31408138; PMCID: PMC6692677.

Wang S, Lv W, Zhang H, Liu Y, Li L, Jefferson JR, Guo Y, Li M, Gao W, Fang X, Paul IA, Rajkowska G, Shaffery JP, **Mosley TH**, Hu X, Liu R, Wang Y, Yu H, Roman RJ, Fan F. Aging exacerbates impairments of cerebral blood flow autoregulation and cognition in diabetic rats. Geroscience. 2020 Oct;42(5):1387-1410. doi: 10.1007/s11357-020-00233-w. PMID: 32696219; PMCID: PMC7525432.

Ward MM, Deodhar A, Gensler LS, Dubreuil M, Yu D, Khan MA, Haroon N, Borenstein D, Wang R, Biehl A, Fang MA, Louie G, **Majithia V**, Ng B, Bigham R, Pianin M, Shah AA, Sullivan N, Turgunbaev M, Oristaglio J, Turner A, Maksymowych WP, Caplan L. 2019 update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network recommendations for the treatment of ankylosing spondylitis and nonradiographic axial spondyloarthritis. Arthritis Care Res (Hoboken). 2019 Oct;71(10):1285-1299. doi: 10.1002/acr.24025. PMID: 31436026; PMCID: PMC6764857.

Ward MM, Deodhar A, Gensler LS, Dubreuil M, Yu D, Khan MA, Haroon N, Borenstein D, Wang R, Biehl A, Fang MA, Louie G, **Majithia V**, Ng B, Bigham R, Pianin M, Shah AA, Sullivan N, Turgunbaev M, Oristaglio J, Turner A, Maksymowych WP, Caplan L. 2019 update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network recommendations for the treatment of ankylosing spondylitis and nonradiographic axial spondyloarthritis. Arthritis Rheumatol. 2019 Oct;71(10):1599-1613. doi: 10.1002/art.41042PMID: 31436036: PMCID: PMC6764882

Watson M, Dardari Z, Kianoush S, **Hall ME**, DeFilippis AP, Keith RJ, Benjamin EJ, Rodriguez CJ, Bhatnagar A, Lima JA, **Butler J**, Blaha MJ, Rifai MA. Relation between cigarette smoking and heart failure (from the Multiethnic Study of Atherosclerosis). Am J Cardiol. 2019 Jun 15;123(12):1972-1977. doi: 10.1016/j.amjcard.2019.03.015. PMID: 30967285; PMCID: PMC6529241.

Wei J, Palta P, Meyer ML, Kucharska-Newton A, Pence BW, Aiello AE, Power MC, Walker KA, Sharrett AR, Tanaka H, Jack CR, **Mosley TH,** Reid RI, Reyes DA, Heiss G. Aortic stiffness and white matter microstructural integrity assessed by diffusion tensor imaging: the ARIC-NCS. J Am Heart Assoc. 2020 Mar 17;9(6):e014868. doi: 10.1161/JAHA.119.014868. PMID: 32157957; PMCID: PMC7335527.

Wendorf G, Lahr C, **Tang SJ**, Shah A, Islam S, Abell T. Importance of endoscopy during permanent gastric stimulator placement. VideoGIE. 2020 Apr 21;5(7):289-291. doi: 10.1016/j. vgie.2020.03.003. PMID: 32642614; PMCID: PMC7332708.

West NA, **Windham BG**, Knopman DS, Shibata DK, Coker LH, **Mosley TH Jr.** Neuroimaging findings in midlife and risk of late-life dementia over 20 years of follow-up. Neurology. 2019 Feb 26;92(9):e917-e923. doi: 10.1212/WNL.0000000000006989. PMID: 30659141; PMCID: PMC6404467.

Wilson KC, Kaminsky DA, Michaud G, Sharma S, Nici L, Folz RJ, Barjaktarevic I, Bhakta NR, Cheng G, Chupp GL, Cole A, Dixon AE, Finigan JH, Graham B, Hallstrand TS, Haynes J, Hankinson J, MacIntyre N, Mandel J, McCarthy K, McCormack M, Patil SP, Rosenfeld M, **Senitko M,** Sethi S, Swenson ER, Stanojevic S, Teodorescu M, Weiner DJ, Wiener RS, Powell CA. Restoring pulmonary and sleep services as the COVID-19 pandemic lessens. From an Association of Pulmonary, Critical Care, and Sleep Division Directors and American Thoracic Society-coordinated Task Force. Ann Am Thorac Soc. 2020 Nov;17(11):1343-1351. doi: 10.1513/ AnnalsATS.202005-514ST. PMID: 32663071; PMCID: PMC7640724.

Windham BG, Griswold M, Henegan J, Knopman D, Lirette S, Mielke M, Petersen R, Mosley T. Race and regional differences in risk factors for cognitive impairment from a combined cohort analysis. Innov Aging. 2020 Dec 16;4(Suppl 1):781–2. doi: 10.1093/geroni/ igaa057.2828. PMCID: PMC7743294.

Windham BG, Griswold ME, Wilkening SR, Su D, Tingle J, Coker LH, Knopman D, Gottesman RF, Shibata D, **Mosley TH.** Midlife smaller and larger infarctions, white matter hyperintensities, and 20-year cognitive decline: a cohort study. Ann Intern Med. 2019 Sep 17;171(6):389-396. doi: 10.7326/M18-0295. PMID: 31450238; PMCID: PMC7413210.

Woodside KJ, Singh N, Lentine KL, Pavlakis M, Basu A, **Cabeza Rivera FH**, Kensinger CD, Parajuli S, Sultan S, Tantisattamo E, Parsons RF, Cooper M. Approach to pancreas transplant during the COVID-19 pandemic. Clin Transplant. 2021 Feb;35(2):e14177. doi: 10.1111/ctr.14177. Epub 2020 Dec 20. PMID: 33341985; PMCID: PMC7883274.

Wolters FJ, Chibnik LB, Waziry R, Anderson R, Berr C, Beiser A, Bis JC, Blacker D, Bos D, Brayne C, Dartigues JF, Darweesh SKL, Davis-Plourde KL, de Wolf F, Debette S, Dufouil C, Fornage M, Goudsmit J, Grasset L, Gudnason V, Hadjichrysanthou C, Helmer C, Ikram MA, Ikram MK, Joas E, Kern S, Kuller LH, Launer L, Lopez OL, Matthews FE, McRae-McKee K, Meirelles O, **Mosley TH Jr**, Pase MP, Psaty BM, Satizabal CL, Seshadri S, Skoog I, Stephan BCM, Wetterberg H, Wong MM, Zettergren A, Hofman A. Twenty-seven-year time trends in dementia incidence in Europe and the United States: the Alzheimer Cohorts Consortium. Neurology. 2020 Aug 4;95(5):e519-e531. doi: 10.1212/WNL.000000000010022. PMID: 32611641; PMCID: PMC7455342.

Wray TB, Chan PA, Klausner JD, **Mena LA, Brock JB**, Simpanen EM, Ward LM, Chrysovalantis S. eTest: a limited-interaction, longitudinal randomized controlled trial of a mobile health platform that enables real-time phone counseling after HIV self-testing among high-risk men who have sex with men. Trials. 2020 Jul 16;21(1):654. doi: 10.1186/s13063-020-04554-1. PMID: 32677999; PMCID: PMC7366305.

Wright V, Subauste A. SUN-326 hypoglycemia and lactic acidosis: the deadly signs of untreated non-hodgkin's lymphoma. J Endocr Soc. 2019 Apr 30;3(Suppl 1):SUN-326. doi: 10.1210/js.2019-SUN-326. PMCID: PMC6553231.

Writing Group Members, Doherty JU, Kort S, Mehran R, Schoenhagen P, Soman P; Rating Panel Members, Dehmer GJ, Doherty JU, Schoenhagen P, Bashore TM, Bhave NM, Calnon DA, Carabello B, Conte J, Dickfeld T, Edmundowicz D, Ferrari VA, **Hall ME**, Ghoshhajra B, Mehrotra P, Naqvi TZ, Reece TB, Starling RC, Szerlip M, Tzou WS, Wong JB; Appropriate Use Criteria Task Force, Doherty JU, Dehmer GJ, Bailey SR, Bhave NM, Brown AS, Daugherty SL, Dean LS, Desai MY, Duvernoy CS, Gillam LD, Hendel RC, Kramer CM, Lindsay BD, Manning WJ, Patel MR, Sachdeva R, Wann LS, Winchester DE, Wolk MJ. ACC/AATS/AHA/ASE/ASNC/ HRS/SCAI/SCCT/SCMR/STS 2019 appropriate use criteria for multimodality imaging in the assessment of cardiac structure and function in nonvalvular heart disease: a report of the American College of Cardiology Appropriate Use Criteria Task Force, American Association for Thoracic Surgery, American Heart Association, American Society of Echocardiography, American Society of Nuclear Cardiology, Heart Rhythm Society, Society for Cardiovascular Angiography and Interventions, Society of Cardiovascular Computed Tomography, Society for Cardiovascular Magnetic Resonance, and the Society of Thoracic Surgeons. J Am Coll Cardiol. 2019 Feb 5;73(4):488-516.

Wu A, Sharrett AR, Gottesman RF, Power MC, **Mosley TH Jr**, Jack CR Jr, Knopman DS, **Windham BG**, Gross AL, Coresh J. Association of brain magnetic resonance imaging signs with cognitive outcomes in persons with nonimpaired cognition and mild cognitive impairment. JAMA Netw Open. 2019 May 3;2(5):e193359. doi: 10.1001/jamanetworkopen.2019.3359. PMID: 31074810; PMCID: PMC6512274.

Wuttke M, Li Y, Li M, Sieber KB, Feitosa MF, Gorski M, Tin A, Wang L, Chu AY, Hoppmann A, Kirsten H, Giri A, Chai JF, Sveinbjornsson G, Tayo BO, Nutile T, Fuchsberger C, Marten J, Cocca M, Ghasemi S, Xu Y, Horn K, Noce D, van der Most PJ, Sedaghat S, Yu Z, Akiyama M, Afaq S, Ahluwalia TS, Almgren P, Amin N, Ärnlöv J, Bakker SJL, Bansal N, Baptista D, Bergmann S. Biggs ML, Bijno G. Boehnke M. Boerwinkle F. Boissel M. Bottinger FP. Boutin TS, Brenner H, Brumat M, Burkhardt R, Butterworth AS, Campana E, Campbell A, Campbell H, Canouil M, Carroll RJ, Catamo E, Chambers JC, Chee ML, Chee ML, Chen X, Cheng CY, Cheng Y, Christensen K, Cifkova R, Ciullo M, Concas MP, Cook JP, Coresh J, Corre T, Sala CF, Cusi D, Danesh J, Daw EW, de Borst MH, De Grandi A, de Mutsert R, de Vries APJ, Degenhardt F, Delgado G, Demirkan A, Di Angelantonio E, Dittrich K, Divers J, Dorajoo R, Eckardt KU, Ehret G, Elliott P, Endlich K, Evans MK, Felix JF, Foo VHX, Franco OH, Franke A, Freedman BI, Freitag-Wolf S, Friedlander Y, Froguel P, Gansevoort RT, Gao H, Gasparini P, Gaziano JM, Giedraitis V, Gieger C, Girotto G, Giulianini F, Gögele M, Gordon SD, Gudbjartsson DF, Gudnason V, Haller T, Hamet P, Harris TB, Hartman CA, Hayward C, Hellwege JN, Heng CK, Hicks AA, Hofer E, Huang W, Hutri-Kähönen N, Hwang SJ, Ikram MA, Indridason OS, Ingelsson E, Ising M, Jaddoe VWV, Jakobsdottir J, Jonas JB, Joshi PK, Josyula NS, Jung B, Kähönen M. Kamatani Y. Kammerer CM, Kanai M. Kastarinen M. Kerr SM, Khor CC, Kiess W. Kleber ME, Koenig W, Kooner JS, Körner A, Kovacs P, Kraja AT, Krajcoviechova A, Kramer H, Krämer BK, Kronenberg F, Kubo M, Kühnel B, Kuokkanen M, Kuusisto J, La Bianca M, Laakso M, Lange LA, Langefeld CD, Lee JJ, Lehne B, Lehtimäki T, Lieb W; Lifelines Cohort Study, Lim SC, Lind L, Lindgren CM, Liu J, Liu J, Loeffler M, Loos RJF, Lucae S, Lukas MA, Lyytikäinen LP, Mägi R, Magnusson PKE, Mahajan A, Martin NG, Martins J, März W, Mascalzoni D, Matsuda K. Meisinger C. Meitinger T. Melander O. Metspalu A. Mikaelsdottir EK. Milaneschi Y, Miliku K, Mishra PP; V. A. Million Veteran Program, Mohlke KL, Mononen N, Montgomery GW, Mook-Kanamori DO, Mychaleckyj JC, Nadkarni GN, Nalls MA, Nauck M, Nikus K, Ning B, Nolte IM, Noordam R, O'Connell J, O'Donoghue ML, Olafsson I, Oldehinkel AJ, Orho-Melander M. Ouwehand WH. Padmanabhan S. Palmer ND. Palsson R. Penninx BWJH. Perls T. Perola M, Pirastu M, Pirastu N, Pistis G, Podgornaia Al, Polasek O, Ponte B, Porteous DJ, Poulain T, Pramstaller PP, Preuss MH, Prins BP, Province MA, Rabelink TJ, Raffield LM, Raitakari OT, Reilly DF, Rettig R, Rheinberger M, Rice KM, Ridker PM, Rivadeneira F, Rizzi F, Roberts DJ, Robino A, Rossing P, Rudan I, Rueedi R, Ruggiero D, Ryan KA, Saba Y, Sabanayagam C, Salomaa V, Salvi E, Saum KU, Schmidt H, Schmidt R, Schöttker B, Schulz CA, Schupf N, Shaffer CM, Shi Y, Smith AV, Smith BH, Soranzo N, Spracklen CN, Strauch K, Stringham HM, Stumvoll M, Svensson PO, Szymczak S, Tai ES, Tajuddin SM, Tan NYQ, Taylor KD, Teren A, Tham YC, Thiery J, Thio CHL, Thomsen H, Thorleifsson G, Toniolo D, Tönies A, Tremblay J, Tzoulaki I, Uitterlinden AG, Vaccargiu S, van Dam RM, van der Harst P, van Duijn CM, Velez

Edward DR, Verweij N, Vogelezang S, Völker U, Vollenweider P, Waeber G, Waldenberger M, Wallentin L, Wang YX, Wang C, Waterworth DM, Bin Wei W, White H, Whitfield JB, Wild SH, Wilson JF, Wojczynski MK, Wong C, Wong TY, Xu L, Yang Q, Yasuda M, Yerges-Armstrong LM, Zhang W, Zonderman AB, Rotter JI, Bochud M, Psaty BM, Vitart V, Wilson JG, Dehghan A, Parsa A, Chasman DI, Ho K, Morris AP, Devuyst O, Akilesh S, Pendergrass SA, Sim X, Böger CA, Okada Y, Edwards TL, Snieder H, Stefansson K, Hung AM, Heid IM, Scholz M, Teumer A, Köttgen A, Pattaro C. A catalog of genetic loci associated with kidney function from analyses of a million individuals. Nat Genet. 2019 Jun;51(6):957-972. doi: 10.1038/s41588-019-0407-x. PMID: 31152163; PMCID: PMC6698888.

Xanthopoulos A, **Butler J,** Parissis J, Polyzogopoulou E, Skoularigis J, Triposkiadis F. Acutely decompensated versus acute heart failure: two different entities. Heart Fail Rev. 2020 Nov;25(6):907-916. doi: 10.1007/s10741-019-09894-y. PMID: 31802377.

Yano Y, Gao Y, Johnson DA, Carnethon M, Correa A, Mittleman MA, **Sims M**, Mostofsky E, Wilson JG, Redline S. Sleep characteristics and measures of glucose metabolism in Blacks: the Jackson Heart Study. J Am Heart Assoc. 2020 May 5;9(9):e013209. doi: 10.1161/JAHA.119.013209. PMID: 32342760; PMCID: PMC7428566.

Yimer WK, Valle KA, Oshunbade AA, **Hall ME**, Min Y, Cain-Shields L, Anugu P, **Correa A.** Joint modeling of longitudinal lipids and time to coronary heart disease in the Jackson Heart Study. BMC Med Res Methodol. 2020 Dec 3;20(1):294.

Zachary T, **Garla V.** SAT-242 Pigmented paravenous retinochorodial atrophy: a novel manifestation of autoimmune polyglandular syndrome type 1. J Endocr Soc. 2019 Apr 30;3(Suppl 1):SAT-242. doi: 10.1210/js.2019-SAT-242. PMCID: PMC6551724.

Zachary T, **Lien L.** SAT-208 An adrenal incidentaloma with extramedullary hematopoiesis. J Endocr Soc. 2020 May 8;4(Suppl 1):SAT-208. doi: 10.1210/jendso/bvaa046.1380. PMCID: PMC7207869.

Zannad F, Ferreira JP, Pocock SJ, Anker SD, **Butler J,** Filippatos G, Brueckmann M, Ofstad AP, Pfarr E, Jamal W, Packer M. SGLT2 inhibitors in patients with heart failure with reduced ejection fraction: a meta-analysis of the EMPEROR-Reduced and DAPA-HF trials. Lancet. 2020 Sep 19;396(10254):819-829. doi: 10.1016/S0140-6736(20)31824-9. PMID: 32877652.

Zannad F, Ferreira JP, Pocock SJ, Zeller C, Anker SD, **Butler J,** Filippatos G, Hauske SJ, Brueckmann M, Pfarr E, Schnee J, Wanner C, Packer M. Cardiac and kidney benefits of Empagliflozin in heart failure across the spectrum of kidney function: insights from EMPEROR-Reduced. Circulation. 2021 Jan 26;143(4):310-321. doi: 10.1161/CIRCULATIONA-HA.120.051685. Epub 2020 Oct 23. Erratum in: Circulation. 2021 Jan 26;143(4):e29. PMID: 33095032; PMCID: PMC7834910.

Zhang MJ, Norby FL, Lutsey PL, **Mosley TH,** Cogswell RJ, Konety SH, Chao TF, Shah AM, Solomon SD, Alonso A, Chen LY. Association of left atrial enlargement and atrial fibrillation with cognitive function and decline: the ARIC-NCS. J Am Heart Assoc. 2019 Dec 3;8(23):e013197. doi: 10.1161/JAHA.119.013197. PMID: 31766970; PMCID: PMC6912953.

Zhang S, Wu X, Pan H, Wu D, Xu T, Shen N, Zhang Y, Feng Y, Wang Q, Jiang Q, Guo T, Wu D, **Tang SJ,** Yang A. Gastrointestinal endoscopy infection control strategy during COVID-19 pandemic: experience from a tertiary medical center in China. Dig Endosc. 2021 May;33(4):577-586. doi: 10.1111/den.13783. Epub 2020 Aug 24. PMID: 32594570; PMCID: PMC7361359.

Zhang Y, Coats AJS, Zheng Z, Adamo M, Ambrosio G, Anker SD, **Butler J,** Xu D, Mao J, Khan MS, Bai L, Mebazaa A, Ponikowski P, Tang Q, Ruschitzka F, Seferovic P, Tschöpe C, Zhang S, Gao C, Zhou S, Senni M, Zhang J, Metra M. Management of heart failure patients with COVID-19: a joint position paper of the Chinese Heart Failure Association & National Heart Failure Committee and the Heart Failure Association of the European Society of Cardiology. Eur J Heart Fail. 2020 Jun;22(6):941-956. doi: 10.1002/ejhf.1915. PMID: 32463543.

Zhao W, Ammous F, Ratliff S, Liu J, Yu M, **Mosley TH,** Kardia SLR, Smith JA. Education and lifestyle factors are associated with DNA methylation clocks in older African Americans. Int J Environ Res Public Health. 2019 Aug 28;16(17):3141. doi: 10.3390/ijerph16173141. PMID: 31466396; PMCID: PMC6747433.

Zhao Y, Chen Q, Guo Q, Chen N, Hou W, Wang Y, Qu W, **Tang SJ**, Sun S, Cheng B. Performing EUS during COVID-19 postendemic period: a report from endoscopy center in Wuhan. Endosc Ultrasound. 2021 Mar-Apr;10(2):93-97. doi: 10.4103/eus.eus_37_20. PMID: 32675462; PMCID: PMC8098845.

Ziaeian B, **Butler J,** Fonarow GC. With great power comes great...reliability. Eur J Heart Fail. 2020 Sep;22(9):1708-1710. doi: 10.1002/ejhf.1816. PMID: 32301141; PMCID: PMC7665165.

Zile MR, Koehler J, Sarkar S, **Butler J.** Prediction of worsening heart failure events and allcause mortality using an individualized risk stratification strategy. ESC Heart Fail. 2020 Oct 28;7(6):4277–89. doi: 10.1002/ehf213077. PMID: 33118331; PMCID: PMC7754961.

RESEARCH EXTERNAL FUNDING

DEPARTMENT OF MEDICINE EXTERNAL FUNDING

JANUARY 1, 2019 TO DECEMBER 31, 2020

JANUARY 1.	2019 TO DECEMBER 31, 2020	Principal Investigator:	James Brock, MD	Title:	Home Based Hypertension Management Pressure Telemonitoring
·	Cidara Therapeutics	Sponsor:	Health Resources and Services Administration through	Principal Investigator:	Donald Clark, MD, MPH
	Efficacy and Safety of Rezafungin for Injection Versus	_	Vanderbilt University Medical Center		
The second secon	Intravenous Caspofungin Followed by Optional Oral Fluconazol		AIDS Education Training Center		National Heart, Lung, and Blood Institute
	Step Down in the Treatment of Subjects with Candidemia and/or Invasive Candidiasis	Principal Investigator:	James Brock, MD	Title:	, 5
Principal Investigator:		C arana an	Lasky Dessures and Convises Administration through	Principal Investigator:	Adolfo Correa, MD, PhD
·····p-·····5-···		Sponsor:	Health Resources and Services Administration through Mississippi State Department of Health	Sponsori	National Heart Lung, and Plead Institute
Sponsor:	Allergen Sales LLC	Title:		Title:	National Heart, Lung, and Blood Institute Jackson Heart Study Coordinating Center
	A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-	Principal Investigator:		Principal Investigator:	
	Controlled Study to Evaluate the Efficacy and Safety of			Fincipal investigator.	Adolio Collea, MD, Flib
	Cenicriviroc for the Treatment of Liver Fibrosis AWD-000984 SP14065	Sponsor:	National Heart, Lung, and Blood Institute through Massachusetts	Sponsor	National Heart, Lung, and Blood Institute
Principal Investigator:	Thomas Amankonah, MD		General Hospital	Title:	
			REPRIEVE Study		Exam 4
Sponsor:	Inc Research through Intercept Pharmaceuticals	Principal Investigator:	James Brock, MD	Principal Investigator:	Adolfo Correa, MD, PhD
Title:	Obeticholic Acid in Subjects with Compensated Cirrhosis due to				
	Nonalcoholic Steatohepatitis	Sponsor:	National Institute on Drug Abuse through University of Washington	Sponsor:	National Heart, Lung, and Blood Institute
rincipal Investigator:	Thomas Amankonah, MD	Title:	National Drug Abuse Treatment Clinical Trials Network: Pacific	Title:	,
			Northwest Node	Principal Investigator:	Adolfo Correa, MD, PhD
-	Syneous Health through Durect Corporation	Principal Investigator:	Jennifer Brumfield		
Title:	A Randomized, Open-label, Phase 1b Study to Evaluate Safety, Pharmacokinetic and Pharmacodynamic Signals of DUR-928 in			Sponsor:	, 5,
	Patients with Non-Alcoholic Steatohepatitis	Sponsor:	American Heart Association	Title:	Jackson Heart Study Field Center – Task A
Principal Investigator:	Thomas Amankonah, MD	Title:	A-TRAC Pilot Core	Principal Investigator:	Adolfo Correa, MD, PhD
		Principal Investigator:	Javed Butler, MD, MPH, MBA	-	
Sponsor:	My Brother's Keeper				National Heart, Lung, and Blood Institute
Title:	Open Arms Non-Ryan White Part B Care and Services	•	Duke University	Title:	,
Principal Investigator:	Laura Beauchamps, MD		CHART Substudy	Principal Investigator:	Adolfo Correa, MD, PhD
		Principal Investigator:	Javed Butler, MD, MPH, MBA	6	Netter et la est la ser et Dis et la d'étaite
Sponsor:	National Institute of Allergy and Infectious Diseases through University of Washington			Sponsor:	National Heart, Lung, and Blood Institute t University School of Medicine
Title	University of Washington / Fred Hutch Center for AIDS Research	•	Duke University through Verily Life Sciences	Title:	Rapid and Comprehensive Platelet Reactiv
	Laura Beauchamps, MD	Title:	Baseline Learning Health Systems Consortium		Small Blood Volumes in the Jackson Hear
incipal investigator.		Principal Investigator:	Javed Butler, MD, MPH, MBA		Unknowns of Platelet Reactivity in a Large Sample
Sponsor:	Vanderbilt University	Energen	Furancan Union Framework 7 Decaramma	Principal Investigator:	Adolfo Correa, MD, PhD
•	AIDS Education and Training Centers Program	•	European Union Framework 7 Programme		
	Laura Beauchamps, MD	Title:	Targeting Cardiac Fibrosis for Heart Failure Treatment (Zannad)	Sponsor:	National Heart, Lung, and Blood Institute t
		Principal Investigator:	Javed Butler, MD, MPH, MBA		Women's Hospital
Sponsor:	MedPace, Inc.	Sponsor	National Heart, Lung, and Blood Institute	Title:	Quantifying Cardiac Structure and Functio Progression to Heart Failure in African Am
•	GRAVITAS-301: A Randomized, Double-Blind, Placebo-Controlled		PROHIBIT-Sodium (Prevention of Heart Failure Hospitalization by	Principal Investigator:	Adolfo Correa, MD, PhD
	Phase 3 Study of Itacitinib or Placebo in Combination With Corticosteroids for the Treatment of First -Line Acute Graft-	The.	Intervening on Sodium)	Tincipal investigator.	Addite correa, ind, i fib
	Versus-host Disease	Principal Investigator:	Javed Butler, MD, MPH, MBA	Sponsor:	National Heart, Lung, and Blood Institute t
rincipal Investigator:	Carolyn Bigelow, MD				
		Sponsor:	Vanderbilt University through Patient-Centered Outcomes		Population-Based Cohorts
Sponsor:	AIDS United		Research Institute	Principal Investigator:	Adolfo Correa, MD, PhD
Title:	Using Evidence-Informed Intervention to Improve Health	Title:	GWTG Interventions to Reduce Disparities in AHF Patients Discharged from the ED (GUIDED-HF)		
	Outcomes among People Living with HIV Initiative	Principal Investigator:	Javed Butler, MD, MPH, MBA	Sponsor:	National Heart, Lung, and Blood Institute t
rincipal Investigator:	James Brock, MD			T '41	University
		Sponsor:	University of Michigan	Title:	Automated Clinic Blood Pressure Assessm of White Coat and Masked Hypertension S
-					
	Health Resources and Services Administration	-	A Social Epigenomic Approach to Health Disparities in		Americans
•	Ryan White Part C EIS COVID-19 Response	-		Principal Investigator:	Americans Adolfo Correa, MD, PhD

Sponsor: Health Resources and Services Administration through My

Brother's Keeper

Principal Investigator: James Brock, MD

Title: Ryan White HIV Care and Services

Sponsor: Health Resources and Services Administration Title: Ryan White Part C Outpatient EIS Program

Principal Investigator: James Brock, MD

Sponsor: Mayo Clinic Title: Tailored Antiplatelet Initiation to Lesse Decreased Clopidogrel Response after Intervention Principal Investigator: William Campbell, MD **Sponsor:** Pluristem, Ltd. Title: A Randomized, Double-Blind, Placebo-Parallel-Group Phase II Study to Evaluat of Intramuscular Injections of PLX-PAD Severe COVID Principal Investigator: Luis Shimose Ciudad, MD

Sponsor: American Heart Association

ponsor:	Mayo Clinic	Sponsor:	National Heart, Lung, and Blood Institute through Jackson State
Title:	Tailored Antiplatelet Initiation to Lessen Outcomes Due to Decreased Clopidogrel Response after Percutaneous Coronary	Title:	University Jackson Heart Study Graduate Training and Education Center
	Intervention	Principal Investigator:	Adolfo Correa, MD, PhD
tigator:	William Campbell, MD		
ponsor:	Pluristem, Ltd.	Sponsor:	National Heart, Lung, and Blood Institute through Johns Hopkins University
Title:	A Randomized, Double-Blind, Placebo-Controlled, Multicenter,	Title:	Clonal Hematopoiesis in Health Individuals from Families with
	Parallel-Group Phase II Study to Evaluate the Efficacy and Safety of Intramuscular Injections of PLX-PAD for the Treatment of		Early Onset Coronary Artery Disease
	Severe COVID	Principal Investigator:	Adolfo Correa, MD, PhD
tigator:	Luis Shimose Ciudad, MD	Sponsor:	National Heart, Lung, and Blood Institute through Mississippi
ponsor:	American Heart Association		State Department of Health
Title:	Home Based Hypertension Management Using Remote Blood	Title: Principal Investigator:	Jackson Heart Study Community Engagement Center Adolfo Correa, MD, PhD
	Pressure Telemonitoring	i inicipal investigator.	Adolio correa, MD, THD
tigator:	Donald Clark, MD, MPH	Sponsor:	National Heart, Lung, and Blood Institute through Tougaloo
ponsor:	National Heart, Lung, and Blood Institute	Title:	College Jackson Heart Study Undergraduate Training and Education
Title:	Jackson Heart Study Coordinating Center		Center
tigator:	Adolfo Correa, MD, PhD	Principal Investigator:	Adolfo Correa, MD, PhD
ponsor:	National Heart, Lung, and Blood Institute	Sponsor:	National Heart, Lung, and Blood Institute through University of
Title:	Jackson Heart Study Coordinating Center — Task B		Washington
tigator:	Adolfo Correa, MD, PhD	Title:	Subclinical Atrial Fibrillation and Supraventricular Ectopy in the Jackson Heart
	National Lloart Lung and Dload Institute	Principal Investigator:	Adolfo Correa, MD, PhD
ponsor: Title:	National Heart, Lung, and Blood Institute Jackson Heart Study Coordinating Center – Task Area B.1 –		
	Exam 4	Sponsor: Title:	National Institute on Aging through Columbia University Blood Pressure and ADRD in African Americans: the Jackson
tigator:	Adolfo Correa, MD, PhD	The.	Heart Study
ponsor:	National Heart, Lung, and Blood Institute	Principal Investigator:	Adolfo Correa, MD, PhD
Title:	Jackson Heart Study Field Center	Sponsor:	National Institute on Aging through University of North Carolina
tigator:	Adolfo Correa, MD, PhD	Title:	Arterial Stiffness and Brain Health in African Americans
ponsor:	National Heart, Lung, and Blood Institute	Principal Investigator:	Adolfo Correa, MD, PhD
Title:	Jackson Heart Study Field Center – Task A	Enorman	ISU Haalth Science Contar
tigator:	Adolfo Correa, MD, PhD	Sponsor: Title:	LSU Health Science Center Increasing Awareness of and Support for Young Women with
			Breast Cancer in the Gulf South
ponsor: Title:	National Heart, Lung, and Blood Institute Jackson Heart Study Field Center – Task B	Principal Investigator:	Barbara Craft, MD
tigator:	Adolfo Correa, MD, PhD	Sponsor:	Bayer Healthcare Pharmaceuticals
		Title:	Phase 3, Randomized, Study of Intravenous P13K Inhibitor
ponsor:	National Heart, Lung, and Blood Institute through Boston University School of Medicine		Copanlisib in Combination with Standard Immunochemotherapy Versus Standard Immunochemotherapy in Patients with
Title:	Rapid and Comprehensive Platelet Reactivity Phenotyping on	Principal Investigator:	Relapsed Indolent Non-Hodgkins Lymphoma Stephanie Elkins, MD
	Small Blood Volumes in the Jackson Heart Study Addressing the Unknowns of Platelet Reactivity in a Large Diverse Population	Finicipal investigator.	
	Sample	Sponsor:	Janssen Research and Development
tigator:	Adolfo Correa, MD, PhD	Title:	A Randomized Study of Daratumumab Plus Lenalidomide Versus Lenalidomide Alone as Maintenance Treatment in Patients with
ponsor:	National Heart, Lung, and Blood Institute through Brigham and		Newly Diagnosed Multiple Myeloma who are Minimal Residual Disease Positive
Title:	Women's Hospital Quantifying Cardiac Structure and Function to Define the	Principal Investigator:	Stephanie Elkins, MD
me.	Progression to Heart Failure in African Americans		
tigator:	Adolfo Correa, MD, PhD	Sponsor:	MorphoSys AG
ponsor:	National Heart, Lung, and Blood Institute through Broad Institute	Title:	ICON MOR208C204: A Phase 2/3 Randomized Study of MOR00208 with Bendamustine Versus Rituximab with
Title:	Return of Genomic Results and Estimating Penetrance in		Bendamustine in Patients with Relapsed or Refractory Diffuse Large B-Cell Lymphoma Who are Not Eligible for High-Dose
	Population-Based Cohorts	Principal Investigator:	Stephanie Elkins, MD
tigator:	Adolfo Correa, MD, PhD		
ponsor:	National Heart, Lung, and Blood Institute through Columbia	Sponsor:	National Heart, Lung, and Blood Institute through Boston University
Titler	University Automated Clinic Blood Pressure Assessment and Detection	Title:	Pros and Cons of Conducting Community-Based Cardiovascular
Title:	of White Coat and Masked Hypertension Study in African	Principal Investigator:	Research Ervin Fox, MD, MPH
tigator:	Americans Adolfo Correa, MD, PhD	i incipai investigatol.	Liver on, mu, milli
		Sponsor:	National Heart, Lung, and Blood Institute through Boston
		Title:	University RURAL: Risk Underlying Rural Areas Longitudinal Cohort Study
		Principal Investigator:	Ervin Fox, MD, MPH

Sponsor:	National Heart, Lung, and Blood Institute through Beth Israel Deaconess Medical Center		American Heart Association	-	Department of Health and Human Services		Regeneron Pharmaceuticals, Inc.
Title:	Aptamer Proteomics of Cardiometabolic and Renal Traits in	Title:	American Heart Association Tobacco Regulation and Addiction Center	Title:	Provision of Treatment for Substance Use Disorders and Mental Health Disorders in Mississippi to Reduce Transmission and	Title:	A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Assessing the Efficacy and Safety of Anti-Spike SARS-Cov-2
1110	African Americans	Principal Investigator:			Improve Clinical Outcomes in People Living with HIV		Monoclonal Antibodies in Preventing SARS-Cov-2 Infection in
Principal Investigator:	Yan Gao, MD	i incipal inteologication		Principal Investigator:	Deborah Konkle-Parker, PhD		Household Contact
		Sponsor:	National Heart, Lung, and Blood Institute through American			Principal Investigator:	Jose Lucar Lloveras, MD
Sponsor:	AstraZeneca Pharmaceuticals through Saint Luke's Hospital of	openeer	Heart Association	Sponsor:	Health Resources and Services Administration		
	Kansas City	Title:	AHA Tobacco Center for Regulatory Science (A-TRAC)	Title:	Ryan White Part C, Outpatient EIS Program	Sponsor:	AstraZeneca Pharmaceuticals through Brigham and Women's Hospital
Title:	A Study Testing Dapagliflozin in Respiratory Failure in Relation to COVID 19 (DARE 19)	Principal Investigator:	Michael Hall, MD, MS (for Mississippi Site)	Principal Investigator:	Deborah Konkle-Parker, PhD	Title:	DAPA ACT HF-TIMI 68:Dapagliflozin and Effect on Cardiovascular
Principal Investigator:							Events in Acute Heart Failure-Thrombolysis in Myocardial
	· · · · · ,	Sponsor:	National Heart, Lung, and Blood Institute through Yale University	Sponsor:	Health Resources and Services Administration through	Data da el la contra da este	Infraction 68
Sponsor:	AbbVie, Inc.	Title:	Torsemide Comparison with Furosemide for Management of Heart Failure (TRANSFORM-HF)	Title:	Mississippi State Department of Health Ryan White Part B, Adult Specialty Care	Principal Investigator:	Robert Long, MD
Title:	A Multicenter, Randomized, Double-Blind, Placebo-Controlled	Principal Investigator:			Deborah Konkle-Parker, PhD	C manager	Dever Leetheere Inc
	Induction Study to Evaluate the Efficacy and Safety of Upadacitinib (ABT-494) in Subjects with Moderately to Severely	Finicipal investigator.		Fincipal investigator.			Bayer Healthcare, Inc. 19334 Oral sGC Stimulator Vericiquat to Improve Physical
	Active Ulcerative Colitis	Sponsor	National Institute of Diabetes and Digestive and Kidney Diseases	Sponsor	National Heart, Lung, and Blood Institute through University of	The.	Functioning in Activities of Daily Living in Patients with Heart
Principal Investigator:	Sarah Glover, MD	•	Renal Sinus Fat, Hypertension, and Altered Kidney Function	Sponsor.	Alabama at Birmingham		Failure and Preserved Ejection Fraction (VITALITY-HFpEF)
		Principal Investigator:		Title:	UAB-MISS MACS/WIHS Combined Cohort Study	Principal Investigator:	Robert Long, MD
Sponsor:	Gilead Sciences, Inc.	i incipal intestigator.		Principal Investigator:	Deborah Konkle-Parker, PhD		
Title:	A Long-Term Extension Study to Evaluate the Safety of Filgotinib	Sponsor:	Boston Scientific Corporation				Bayer Healthcare Pharmaceuticals, Inc.
	in Subjects with Crohn's Disease		Strategic Management to Improve CRT Using Multi-Site Pacing	Sponsor:	National Institute of Allergy and Infectious Diseases through	Title:	A Multicenter, Randomized, Double-Blind, Parallel-Group, Placebo-Controlled Study to Evaluate the Efficacy and Safety of
Principal Investigator:	Sarah Glover, MD		Post Approval Study (Reference #C1918)		University of Alabama at Birmingham		Finerenone on Morbidity and Mortality in Participants with Heart
^		Principal Investigator:	James Hamilton, MD		UAB Mississippi WIHS Cohort ECG		Failure
Sponsor:	Gilead Sciences, Inc through Pharmaceutical Research Associates, Inc.			Principal Investigator:	Deborah Konkle-Parker, PhD	Principal Investigator:	Robert Long, MD
Title:			Mayo Clinic	C	National Institute of Allown, and Infectious Disasses through		
	Controlled Studies Evaluating the Efficacy and Safety of	Title:	Implementing Shared Decision Making for Individualized CV	Sponsor:	National Institute of Allergy and Infectious Diseases through University of Alabama at Birmingham	· · · · · ·	Boehringer Ingelheim Pharmaceuticals
	Filgotinib in the Induction and Maintenance of Remission in Subjects with Moderately to Severely Active Crohn's Disease	Principal Investigator:	Prevention	Title:	WIHS Cohort Echo	Title:	EMPERIAL-Preserved: A Phase III Randomized, Double-Blind Trial to Evaluate the Effect of 12 Weeks Treatment of Once Daily
Principal Investigator:		Finicipal investigator.		Principal Investigator:	Deborah Konkle-Parker, PhD		EMPagliflozin 10 mg Compared with Placebo on Exercise Ability
		Sponsor	Calithera Biosciences, Inc.				and Heart Failure Symptoms, in Patients with Chronic Heart Failure with Preserved Ejection Fraction (HFpEF)
Sponsor:	Janssen Research and Development	•	A Randomized, Double-Blind, Placebo-Controlled Phase 2	Sponsor:	National Institute of Allergy and Infectious Diseases through	Principal Investigator:	
Title:	A Phase 3b Randomized Double-blind Multicenter Study to	The second secon	Study Comparing CB-839 in Combination with Cabozantinib		University of Alabama at Birmingham		
	Evaluate the Safety and Efficacy of Intravenous Reinduction Therapy With Ustekinumab in Patients with Moderately to		vs. Placebo with Cabozantinib in Patients with Advanced or Metastatic Renal Cell Carcinoma		WIHS Cohort Study	Sponsor:	Boehringer Ingelheim Pharmaceuticals
	Severely Active Crohn's Disease	Principal Investigator:		Principal Investigator:	Deborah Konkle-Parker, PhD	Title:	EMPERIAL Reduced (1245.168) - A Phase III Randomized, Double-
Principal Investigator:	Sarah Glover, MD	·····		C	National Institute of Allown, and Infectious Disasces through		Blind Trial to Evaluate the Effect of 12 Weeks Treatment of Once Daily EMPagliflozin 10 mg Compared with Placebo on Exercise
		Sponsor:	Immunomedics, Inc.	Sponsor:	National Institute of Allergy and Infectious Diseases through University of Alabama at Birmingham		Ability and Heart Failure Symptoms, in Patients with Chronic
Sponsor:	National Center for Advancing Translational Sciences through	Title:	A Phase 2 Open Label Study of IMMU-132 in Metastatic	Title:	WIHS Cohort Turan		Heart Failure with Reduced Ejection Fraction (HFrEF)
	University of Pittsburgh		Urothelial Cancer after Failure of Platinum-based Regimen or Anti-PD-1/PD-L Base Immunotherapy	Principal Investigator:	Deborah Konkle-Parker, PhD	Principal Investigator:	Robert Long, MD
Title:	Repurposing Pharmacological Agents for Inherited Mast Cell Disorders of the Gut	Principal Investigator:					
Principal Investigator:		i incipal investigator.	John Henegan, MD	Sponsor:	National Institute of Allergy and Infectious Diseases through		Boehringer Ingelheim Pharmaceuticals
		Sponsor	National Cancer Institute through Oregon Health and Science		University of Alabama at Birmingham		EMPULSE
Sponsor:	National Institute of Dental and Craniofacial Research	openeer	University.		WIHS PFT Supplement	Principal Investigator:	Robert Long, MD
Title:	Innate Immune Mechanisms of Periodontal Disease and	Title:	SWOG NCORP Research Base	Principal Investigator:	Deborah Konkle-Parker, PhD	Sponsor	LivaNova USA
	Inflammatory Bowel Disease	Principal Investigator:	John Henegan, MD	Sponsor	National Institute of Child Health and Human Development		2019-07-LN-PP: Autonomic Regulation Therapy to Enhance
Principal Investigator:	Sarah Glover, MD			Spoilsoi.	through University of Alabama at Birmingham		Myocardial Function and Reduce Progression of Heart Failure
^		Sponsor:	National Cancer Institute through Oregon Health and Science University.	Title:	Women HIV Cohort Study: HIV Infection and Treatment among		with Reduced Ejection Fraction (ANTHEM-HFrEF)
	Pharmaceutical Research Associates	Title	SWOG Network Group Operations Center of the NCTN		Women of Reproductive Age	Principal Investigator:	Robert Long, MD
litle:	A Phase 2 Randomized Placebo Controlled Study of the Safety and Efficacy of BMS-986165 in Subjects with Moderate to Severe	Principal Investigator:		Principal Investigator:	Deborah Konkle-Parker, PhD		Maduania
	Crohn's Disease	i intega investigator.	commenced in the	-			Medtronic
Principal Investigator:	Sarah Glover, MD	Sponsor:	Seattle Genetics	Sponsor:	National Institute of Mental Health through University of Alabama at Birmingham		Algorithm using LINQ Sensors for Evaluation
			A Study of Enfortumab Vedotin (ASG-22CE) as Monotherapy or in	Title:	Improving Retention in Care Among Postpartum HIV-infected	Principal Investigator:	NODERL LUNG, MID
	Robarts Clinical Trials, Inc		Combination with Other Anticancer Therapies		Women in Mississippi	Sponsor	National Heart, Lung and Blood Institute through Brigham and
Title:	An-Open Label, Phase 4 Study to Evaluate the Efficacy and Safety of Triple Combination Therapy With Vedolizumab IV,	Principal Investigator:	John Henegan, MD	Principal Investigator:	Deborah Konkle-Parker, PhD	openson	Women's Hospital
	Adalimumab SC, and Oral Methotrexate in Early Treatment	-		_		Title:	DAPA ACT HF-TIMI 68: Dapagliflozin and Effect on
	of Subjects With Crohn's Disease Stratified at Higher Risk for Developing Complications	-	Syneos Health	Sponsor:	National Institute of Mental Health through University of Alabama at Birmingham		Cardiovascular Events in Acute Heart Failure -Thrombolysis in Myocardial Infarction
Principal Investigator:		Title:	A Phase 1b/2 Study of Ibrutinib Combination Therapy in Selected Advanced Gastrointestinal And Genitourinary Tumors	Title	Mechanisms and Longitudinal Effects of Stigma on Women's	Principal Investigator:	
		Principal Investigator:			Adherence and Outcomes		-
Sponsor:	Shire Human Genetic Therapies			Principal Investigator:	Deborah Konkle-Parker, PhD	Sponsor:	Novartis Pharmaceuticals Corporation
Title:	Clinical and Pre-Clinical Predictors of Response to Gattex in	Sponsor:	Endotronix			Title:	
	Short Bowel Syndrome	Title:	A Prospective, Multi-Center, Randomized, Controlled, Single		Northern California Institute for Research and Education		Stabilization In Decompensated HFpEF, and Tolerability in Patients with Acute Decompensated HFpEF
Principal Investigator:	Sarah Glover, MD		Blind Clinical Trial Evaluating the Safety and Efficacy of the Cordell	Title:	HIV, HCV and the Menopausal Transition: Effects on Steatosis	Principal Investigator:	
-		Principal Investigator	Gabriel Hernandez, MD	Drinning Investigator	and Fibrosis Progression Deborah Konkle-Parker, PhD	r meipar mesugator.	NOBELLENING, MD
	National Heart, Lung, and Blood Institute	r maparmesugator:	Gutter Hernandez, mb	Finicipal investigator:		Sponsor	Synoes Health
Title:	Adrenal Cell ATP1A1 Mutations and Mechanisms of Aldosterone Biosynthesis	Sponsor	Mayo Clinic				A Multicenter, Double Blind, Placebo-controlled, Randomized,
Principal Investigator:	Celso Gomez-Sanchez, MD	-	Association Between Financial and Health Insurance Literacy				Withdrawal, Parallel Group of Patiromer for the Management
		inic.	and Financial Distress of Cancer Treatment				of Hyperkalemia i Subjects receiving Renin-Angiotensin- Aldosterone System Inhibitants
		Principal Investigator:	Tilal Hilal, MD			Principal Investigator:	
						, and the second second	

Sponsor:	National Institute on Minority Health and Health Disparities	Sponsor:	Veristat	Sponsor:	National Institute on Drug Abuse through Emory University	Sponsor:	National Heart, Lung, and Blood Institute through Brigham and
Title:	SCN5A Gene and Prolonged QT in Sickle Cell Disease	Title:	2020-0092 Phase 1b/2, Randomized, Double-Blind, Placebo-	Title:	Theoretically Based Mobile App to Increase PrEP Uptake Among MSM	T '41	Women's Hospital
Principal Investigator:	Joseph Maher, MD		Controlled, Multi-Center Study to Evaluate the Safety and Efficacy of TJ003234 in patients with COVID-19	Dain dia dia mandri anta an		litle:	Early Detection of Transthyretin Cardiac Amyloidosis: Defining a Novel Target for HFpEF Treatment and Prevention in Late Life
		Principal Investigator:	Gailen Marshall, MD, PhD	Principal Investigator:	Leandro Mena, MD, MPH	Principal Investigator:	
Sponsor:	Department of Defense						
Title:	The Ovarian Cancer Academy	Sponsor:	Click Diagnostics	•	SpeeDx Pty Ltd	Sponsor:	National Heart, Lung, and Blood Institute through Brigham and
Principal Investigator:	Nita Maihle, PhD	•	TP-000172/TP-000224 Female Specimen Collection for the	litle:	Prospective, Multi-Site, Method Comparison Clinical Study of the Resistance Plus MG Diagnostic Accuracy in Detecting		Women's Hospital
			Development of the Click Sexual Health Test		M. Genitalium and Mutations Associated with Azithromycin	Title:	Mapping the Progression to HFpEF in the Elderly through
Sponsor:	Joe W. and Dorothy Dorsett Brown Foundation	Principal Investigator:	Leandro Mena, MD, MPH		Resistance		Longitudinal Changes in Cardiac Function
Title:	Serum Proteins, Human Aging and Disease Risk: EGFR Isoform D			Principal Investigator:	Leandro Mena, MD, MPH	Principal Investigator:	Thomas Mosley, PhD
	as a Model	Sponsor:	Health Resources and Services Administration through				
Principal Investigator:	Nita Maihle, PhD		Mississippi State Department of Health	•	Amgen, Inc.	Sponsor:	National Heart, Lung, and Blood Institute through Columbia University
			Ryan White Part B, Early Intervention Services	Title:	A Randomized, Double-Blind, Multicenter Study of Denosumab Compared With Zoledronic Acid (Zometa) in the Treatment	Titlet	Collaborative Cohort of Cohorts for COVID-19 Research
•	CARE Arthritis, Ltd.	Principal Investigator:	Leandro Mena, MD, MPH		of Bone Disease in Subjects with Newly Diagnosed Multiple	Principal Investigator:	
	Classification of Axial Spondylarthritis Inception Cohort (CLASSIC)				Myeloma	Principal Investigator:	Thomas Mosley, PhD
Principal Investigator:	Vikas Majithia, MD	Sponsor:	Merck Foundation	Principal Investigator:	Carter Milner, MD	6	Netter et lie et liere en d'Dissidie Martinis Marcade la bas lier bier
		Title:	Mississippi HIV Care Connect			Sponsor:	National Heart, Lung, and Blood Institute through Johns Hopkins University
Sponsor:	Janssen Research and Development	Principal Investigator:	Leandro Mena, MD, MPH	Sponsor:	Novartis Pharmaceuticals Corp.	Title	Quantifying Cardiovascular Calcification at Very Old Age for
Title:	A Multicenter, Randomized, Double-blind, Placebo-controlled,			Title:	Managed Access Program to Provide Access to CTL109 for ALL	The second se	Personalized Risk Classification
	Parallel-group Study of Ustekinumab in Subjects with Active Systemic Lupus Erythematosus	Sponsor:	My Brother's Keeper		or Large B-cell Lymphoma Patients	Principal Investigator:	Thomas Mosley, PhD
Principal Investigator:		Title:	Capacity Building Assistance for High-Impact HIV Prevention	Principal Investigator:	Carter Milner, MD		
Thiciput investigator.	vikus mujitinu, mb	Principal Investigator:	Leandro Mena, MD, MPH			Sponsor:	National Heart, Lung, and Blood Institute through University of
Sponsori	Pharmaceutical Research Associates			Sponsor:	Medpace, Inc.		Michigan
	A Phase 2 Randomized Placebo Controlled Study to Evaluate	Sponsor:	National Institute of Allergy and Infectious Diseases through	Title:	Performance Evaluation of the AMIA Automated Peritoneal	Title:	Atherosclerosis Risk in Communities (ARIC) Coordinating Center
nue.	Efficacy and Safety of BMS-986165 in Subjects with Systemic		Social Scientific Systems		Dialysis (APD) Solution Generation System in Patients Using the AMIA APD Cycle		- Community Surveillance, Feasibility and Calibration Study
	Lupus Erythematosus	Title:		Principal Investigator:	,	Principal Investigator:	Thomas Mosley, PhD
Principal Investigator:	Vikas Majithia, MD		Diagnostic Device for the Detection of Neisseria Gonorrhoeae, Trichomonas Vaginalis, and Chlamydia Trachomatis Utilizing	Thisparity sugaron.	bivya monga, mb		
			Vaginally Collected Swabs	Spansor	CorMedix, Inc. through PPD Investigator Services	Sponsor:	National Heart, Lung, and Blood Institute through University of Minnesota
Sponsor:	University of Alabama/Patient-Centered Outcomes Research	Principal Investigator:	Leandro Mena, MD, MPH	•	A Phase 3 Study to Demonstrate the Safety and Effectiveness of	Titlet	Significance of Atrial Fibrillation and Atrial Fibrillation Burden
	Institute (PCORI)			The:	Neutrolin in Preventing Catheter-related Bloodstream Infections	nue:	Detected by Novel ECG Monitoring in Community-Dwelling
Title:	Implementation of Decision-Aid for Lupus in Practice Settings for	Sponsor:	National Institute of Allergy and Infectious Diseases through		in Subjects receiving Hemodialysis as Treatment for ESRD		Elderly
Dringing Investigator	Shared Decision-Making: IDEAL Study		Social Scientific Systems	Principal Investigator:	Divya Monga, MD	Principal Investigator:	Thomas Mosley, PhD
Principal Investigator:	vikas Majiliia, MD	Title:	Clinical Validation of a Molecular Test for Ciprofloxacin-				
			Susceptibility in Neisseria Gonorrhoeae	Sponsor:	GlaxoSmithKline, LLC through PPD Investigator Services	Sponsor:	National Heart, Lung, and Blood Institute through University of
•	University of California – San Francisco	Principal Investigator:	Leandro Mena, MD, MPH	Title:	A Phase 3, Event Driven Study in Non-Dialysis Subjects with		North Carolina
Title:	An Investigator-Initiated, Phase II, Randomized, Withdrawal Study of Mycophenolate Mofetil in Patients with Stable.				Anemia Associated with Chronic Kidney Disease to Evaluate the Safety Efficacy of GSK1278863 Compared to Darbepoetin Alfa		ARIC Study - Coordinating Center
	Quiescent Systemic Lupus Erythematosus	•	National Institute of Mental Health through Brown University	Drinning Lineartington		Principal Investigator:	Thomas Mosley, PhD
Principal Investigator:	Villes Meilthie MD	Titlo	A Multisite Randomized Trial of BattleViro: A Mobile Gaming App	Principal Investigator:	Divya monga, mD		
r meipar myestigator.	vikas Majitnia, MD	inte.	to Improvo ADT Adhoropoo for Vouth				
r meipar mestigator.	vikas majitnia, mu		to Improve ART Adherence for Youth	6		Sponsor:	National Heart, Lung, and Blood Institute through University of
	CSL Behring, LLC		to Improve ART Adherence for Youth Leandro Mena, MD, MPH	Sponsor:		·	Texas Health Science Center at Houston
	CSL Behring, LLC	Principal Investigator:	Leandro Mena, MD, MPH	Title:	Barostim Neo-baroreflex Activation Therapy for Heart Failure	Title:	Texas Health Science Center at Houston Epigenetics of Successful Aging
Sponsor:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody	Principal Investigator: Sponsor:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University		Barostim Neo-baroreflex Activation Therapy for Heart Failure	·	Texas Health Science Center at Houston Epigenetics of Successful Aging
Sponsor:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe	Principal Investigator: Sponsor:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After	Title: Principal Investigator:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD	Title: Principal Investigator:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD
Sponsor: Title:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe Coronavirus Disease 2019 (COVID 19) Induced Pneumonia	Principal Investigator: Sponsor:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University	Title: Principal Investigator:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State	Title: Principal Investigator:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of
Sponsor: Title:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe	Principal Investigator: Sponsor: Title:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After Home-based HIV Self-testing for High-Risk Men Who Have Sex	Title: Principal Investigator: Sponsor:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State University	Title: Principal Investigator:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of Texas Health Science Center at San Antonio
Sponsor: Title: Principal Investigator:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe Coronavirus Disease 2019 (COVID 19) Induced Pneumonia Gailen Marshall, MD, PhD	Principal Investigator: Sponsor: Title:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After Home-based HIV Self-testing for High-Risk Men Who Have Sex with Men	Title: Principal Investigator: Sponsor:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State	Title: Principal Investigator:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of
Sponsor: Title: Principal Investigator: Sponsor:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe Coronavirus Disease 2019 (COVID 19) Induced Pneumonia Gailen Marshall, MD, PhD I-Mab Biopharma US Limited	Principal Investigator: Sponsor: Title: Principal Investigator:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After Home-based HIV Self-testing for High-Risk Men Who Have Sex with Men	Title: Principal Investigator: Sponsor:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State University Precision Medicine for Dilated Cardiomyopathy in European and African Ancestry	Title: Principal Investigator:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of Texas Health Science Center at San Antonio Cognitively Healthy Nonagenarians in the Cross Cohort Collaboration
Sponsor: Title: Principal Investigator: Sponsor: Title:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe Coronavirus Disease 2019 (COVID 19) Induced Pneumonia Gailen Marshall, MD, PhD I-Mab Biopharma US Limited UMMC IMab Central Lab Capability (Cytokine Testing)	Principal Investigator: Sponsor: Title: Principal Investigator:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After Home-based HIV Self-testing for High-Risk Men Who Have Sex with Men Leandro Mena, MD, MPH National Institute of Mental Health through Miriam Hospital Characterizing the HIV Pre-Exposure Prophylaxis Care	Title: Principal Investigator: Sponsor: Title:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State University Precision Medicine for Dilated Cardiomyopathy in European and African Ancestry	Title: Principal Investigator: Sponsor: Title:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of Texas Health Science Center at San Antonio Cognitively Healthy Nonagenarians in the Cross Cohort Collaboration
Sponsor: Title: Principal Investigator: Sponsor: Title:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe Coronavirus Disease 2019 (COVID 19) Induced Pneumonia Gailen Marshall, MD, PhD I-Mab Biopharma US Limited	Principal Investigator: Sponsor: Title: Principal Investigator:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After Home-based HIV Self-testing for High-Risk Men Who Have Sex with Men Leandro Mena, MD, MPH National Institute of Mental Health through Miriam Hospital Characterizing the HIV Pre-Exposure Prophylaxis Care Continuum for African American and Hispanic/Latino Men Who	Title: Principal Investigator: Sponsor: Title: Principal Investigator:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State University Precision Medicine for Dilated Cardiomyopathy in European and African Ancestry	Title: Principal Investigator: Sponsor: Title: Principal Investigator:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of Texas Health Science Center at San Antonio Cognitively Healthy Nonagenarians in the Cross Cohort Collaboration Thomas Mosley, PhD National Institute of Diabetes and Digestive and Kidney Diseases
Sponsor: Title: Principal Investigator: Sponsor: Title: Principal Investigator:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe Coronavirus Disease 2019 (COVID 19) Induced Pneumonia Gailen Marshall, MD, PhD I-Mab Biopharma US Limited UMMC IMab Central Lab Capability (Cytokine Testing) Gailen Marshall, MD, PhD	Principal Investigator: Sponsor: Title: Principal Investigator: Sponsor: Title:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After Home-based HIV Self-testing for High-Risk Men Who Have Sex with Men Leandro Mena, MD, MPH National Institute of Mental Health through Miriam Hospital Characterizing the HIV Pre-Exposure Prophylaxis Care Continuum for African American and Hispanic/Latino Men Who Have Sex with Men	Title: Principal Investigator: Sponsor: Title: Principal Investigator: Sponsor:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State University Precision Medicine for Dilated Cardiomyopathy in European and African Ancestry Charles Moore, MD	Title: Principal Investigator: Sponsor: Title: Principal Investigator:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of Texas Health Science Center at San Antonio Cognitively Healthy Nonagenarians in the Cross Cohort Collaboration Thomas Mosley, PhD National Institute of Diabetes and Digestive and Kidney Diseases through Johns Hopkins University
Sponsor: Title: Principal Investigator: Sponsor: Title: Principal Investigator:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe Coronavirus Disease 2019 (COVID 19) Induced Pneumonia Gailen Marshall, MD, PhD I-Mab Biopharma US Limited UMMC IMab Central Lab Capability (Cytokine Testing)	Principal Investigator: Sponsor: Title: Principal Investigator: Sponsor: Title:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After Home-based HIV Self-testing for High-Risk Men Who Have Sex with Men Leandro Mena, MD, MPH National Institute of Mental Health through Miriam Hospital Characterizing the HIV Pre-Exposure Prophylaxis Care Continuum for African American and Hispanic/Latino Men Who	Title: Principal Investigator: Sponsor: Title: Principal Investigator: Sponsor:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State University Precision Medicine for Dilated Cardiomyopathy in European and African Ancestry Charles Moore, MD Sanofi-Aventis Randomized, Double-blind, Placebo-controlled, Parallel-group, Multicenter Study to Evaluate the Effects of SotagLiflozin on	Title: Principal Investigator: Sponsor: Title: Principal Investigator:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of Texas Health Science Center at San Antonio Cognitively Healthy Nonagenarians in the Cross Cohort Collaboration Thomas Mosley, PhD National Institute of Diabetes and Digestive and Kidney Diseases through Johns Hopkins University
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Sponsor: Title: Principal Investigator: Sponsor: Title: Principal Investigator: Sponsor: Sponsor: Title:	CSL Behring, LLC 2020-2786 A Multicenter, Double Blind, Randomized Controlled Study to Evaluate Factor XIIa Antagonist Monoclonal Antibody (CSL312, Garadacimab) as Early Treatment in Adults with Severe Coronavirus Disease 2019 (COVID 19) Induced Pneumonia Gailen Marshall, MD, PhD I-Mab Biopharma US Limited UMMC IMab Central Lab Capability (Cytokine Testing) Gailen Marshall, MD, PhD National Center for Advancing Translational Science through Duke University	Principal Investigator: Sponsor: Title: Principal Investigator: Sponsor: Title: Principal Investigator:	Leandro Mena, MD, MPH National Institute of Mental Health through Brown University Mobile Health Platform for Providing Real-time Follow-up After Home-based HIV Self-testing for High-Risk Men Who Have Sex with Men Leandro Mena, MD, MPH National Institute of Mental Health through Miriam Hospital Characterizing the HIV Pre-Exposure Prophylaxis Care Continuum for African American and Hispanic/Latino Men Who Have Sex with Men	Title: Principal Investigator: Sponsor: Title: Principal Investigator: Sponsor: Title:	Barostim Neo-baroreflex Activation Therapy for Heart Failure Charles Moore, MD National Heart, Lung, and Blood Institute through Ohio State University Precision Medicine for Dilated Cardiomyopathy in European and African Ancestry Charles Moore, MD Sanofi-Aventis Randomized, Double-blind, Placebo-controlled, Parallel-group, Multicenter Study to Evaluate the Effects of SotagLiflozin on Clinical Outcomes in HemodynamIcally Stable Patients with Type 2 Diabetes	Title: Principal Investigator: Sponsor: Title: Principal Investigator: Sponsor: Title:	Texas Health Science Center at Houston Epigenetics of Successful Aging Thomas Mosley, PhD National Heart, Lung, and Blood Institute through University of Texas Health Science Center at San Antonio Cognitively Healthy Nonagenarians in the Cross Cohort Collaboration Thomas Mosley, PhD National Institute of Diabetes and Digestive and Kidney Diseases through Johns Hopkins University Diabetes and Prediabetes in Older Adults in ARIC
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Sponsor:	National Institute on Aging through Johns Hopkins University	Sponsor:	Novartis Pharmaceuticals Corporation	Sponsor:	Cystic Fibrosis Foundation	Sponsor:	Parexel International, LLC
•	Hearing Loss, Brain Aging, and Speech-in Noise Performance in	Title:		Title:	Pseudo Aeruginosa and Staph Aureus Proteases and Toxins in	Title:	A Phase 1 Dose Escalation and Expanded Cohort Study of
Data da el la constitución de	the ACHIEVE Study		Pembrolizumab plus Platinum-based Doublet Chemotherapy With or Without Canakinumab as First Line Therapy for Locally	D efensive Harmonian transform	CF Exacerbations		PF-06821497 in the Treatment of Adult Patients with Relapsed/ Refractory Small Cell Lung Cancer, Castration Resistant Prostate
Principal Investigator:	Thomas Mosley, PhD		Advanced or Metastatic Non-squamous and Squamous NSCLC Subjects	Principal Investigator:	John Spurzem, MD		Cancer
Sponsor:	National Institute on Aging through Johns Hopkins University	Principal Investigator:	5	Sponsor:	Cystic Fibrosis Foundation / Dartmouth College	Principal Investigator:	Shou-Ching Tang, MD, PhD
•	The Role of Intracranial Atherosclerosis in the Development of			Title:	Cystic Fibrosis Fundamental to OneCF Learning and Leadership	Sponsor	Tesaro, Inc.
Dein ein al leuraatin at am	Alzheimer's Disease	Sponsor:	Pharmaceutical Research Associates	Duin sin al luvra stimutare	Collaborative	•	An Open-Label, Randomized-Sequence, Multicenter, Single-
Principal Investigator:	Inomas Mosley, PhD	Title:	2019-0247 A Phase 2 Open Label Study of Sacituzumab Govitecan (IMMU-132) in Subjects with Metastatic Solid Tumors	Principal Investigator:	John Spurzem, MD		Crossover Study to Assess the Relative Bioavailability and Bioequivalence of Niraparaib Tablet Formulation Compared to
Sponsor:	National Institute on Aging through University of North Carolina	Principal Investigator:		Sponsor:	Vertex		Niraparaib Capsule Formulation in Patients with Advanced Solid
•	Changes in Arterial Stiffness, Cognition and Dementia Risk in a			Title:	A Phase 3, Open label Study Evaluating the Long-term Safety	Dringinal Investigator	Tumors Shou-Ching Tang, MD, PhD
Dein ein al leuraatin at am	Diverse Cohort	Sponsor:	J		and Efficacy of VX-445 Combination Therapy in Subjects with Cystic Fibrosis	Finicipal investigator.	
Principal Investigator:	Thomas Mosley, PhD	Title	Hopkins University Evidence-based Practice Centers v. End State Renal Disease in	Principal Investigator:	John Spurzem, MD	Sponsor:	National Institute of Arthritis and Musculoskeletal and Skin
Sponsor:	National Institutes of Health through Massachusetts General	The.	the Medicare Population				Diseases
	Hospital	Principal Investigator:	Tariq Shafi, MD	Sponsor:		litle:	Identifying Novel Biological Pathways for Gout Using DNA Methylation and Genetics
Title:	DISCOVERY: Determinants of Incident Stroke Cognitive Outcomes and Vascular Effects on Recovery	6	Mattered Development and Divid Institute theory is being the birth	Title:	A Phase 3, Open label Study Evaluating the Long-term Safety and Efficacy of VX-659 Combination Therapy in Subjects with	Principal Investigator:	Adrienne Tin, PhD
Principal Investigator:	Thomas Mosley, PhD	Sponsor:	National Heart, Lung, and Blood Institute through Johns Hopkins University		Cystic Fibrosis who are Homozygous or Heterozygous for the F508del Mutation		
		Title:		Principal Investigator:			Mississippi State Department of Health
Sponsor:	National Heart, Lung, and Blood Institute through Oregon Health and Science University	Principal Investigator:	Stage Renal Disease Patients Tarig Shafi, MD			Principal Investigator:	Tuberculosis Medical Consultant Risa Webb, MD
Title:	Novel EGG Measures and Risk of Sudden Cardiac Death	i incipal investigator.		Sponsor:	Vertex	i inicipal investigator.	
Principal Investigator:		Sponsor:		Title:	A Post-Approved Observational Study to Evaluate the Long- Term Effectiveness and Safety of Orkambi in US Patients who	Sponsor:	National Institutes of Health
			General Hospital		Completed Study VX12-809-105 Part A	Title:	Prospective Registry Study of Pulmonary Arterial Hypertension
Sponsor:	National Heart, Lung, and Blood Institute through University of Florida	Title: Principal Investigator:		Principal Investigator:	John Spurzem, MD		and Chronic Thromboembolic Pulmonary Hypertension in Mississippi
Title:	An Ethnicity-Specific MetS Severity Score to Assess Risk: The	i incipal investigator.		C arana and C rana and C rana and C arana and C rana and C arana and C rana and	Verteur	Principal Investigator:	Richard Wells, MD
.	Jackson Heart	Sponsor:	PPD Investigator Services, LLC	Sponsor: Title:	Efficacy and Safety of VX-659 in Combination Therapy in		
Principal Investigator:	Solomon Musani, PhD	Title:	A Phase 3, Event Driven Study in Non-dialysis Subjects with Anemia Associated with Chronic Kidney Disease to Evaluate the		Subjects with Cystic Fibrosis who are Heterozygous for the F508del Mutation and a Minimal Function Mutation (F/MF)		Department of Defense through Trauma Insight Blood Purification with Seraph® 100 Microbind® Affinity Blood
Sponsor:	National Institute of Diabetes and Digestive and Kidney Diseases		Safety Efficacy of GSK1278863 Compared to Darbepoetin Alfa	Principal Investigator:		Thue:	Filter for the Treatment of Severe COVID-19: An Observational
	through University of Michigan	Principal Investigator:	Tariq Shafi, MD	i mepa mesugatori		Dein einel Investigeten	Study (PURIFYOBS-1)
Title:	Human Population Based Genetic Studies to Elucidate the Biology of NAFLD			Sponsor:	Boston Scientific	Principal Investigator:	Andrew Wilhelm, MD
Principal Investigator:		Sponsor: Title:	Watermark Research Partners CRRT Net		Strategic Management to Improve CRT Using Multi-Site Pacing	Sponsor:	Sanofi US Services
		Principal Investigator:		Principal Investigator:	Takeki Suzuki, MD, PhD	Title:	EFC15804: A Randomized, Double-blind, Placebo-controlled,
Sponsor:	National Institute of Diabetes and Digestive and Kidney Diseases through University of Michigan			Sponsor:	Mayo Clinic Rochester		Parallel-group, 52-Week Pivotal Study to Assess the Efficacy, Safety and Tolerability of Dupilumab 200 mg Q2W in Patients
Title:	Identification and Functional Impact of NAFLD Associated	Sponsor:	American Cancer Society		Shared Decision Making for Stroke Prevention in Atrial		with Moderate-to-Severe Chronic Obstructive Pulmonary Disease
B 1 1 1 1 1	Genetic Variants (GOLD Functional)		Cancer Institute Transportation Award	.	Fibrillation	Principal Investigator:	Andrew Wilhelm, MD
Principal Investigator:	Solomon Musani, PhD	Principal Investigator:	ierrance Sniney, MD	Principal Investigator:	Takeki Suzuki, MD, PhD		
Sponsor:	Agency for Healthcare Research and Quality through University	Sponsor:	Joe W. and Dorothy Dorsett Brown Foundation	Sponsor:	AbbVie, Inc		National Institute on Aging
-	of New Mexico	Title:	Gene Therapy is a New Approach for the Treatment of Prostate	Title:	Non-Small Cell Lung Cancer (NSCLC): Venetoclax and	Title:	Mobility Decline: Relations to Cerebral Perfusion, Small Vessel Disease Progression, and Longitudinal Blood Pressure
	The National Nursing Home COVID Action Network	Duin air al luccativatare	Cancer		Pembrolizumab in Previously Untreated NSCLC with High PD-L1 Expression (M19-700		Exposures
Principal Investigator:	Jason Parnam, MD	Principal Investigator:	Terrance Sniney, MD	Principal Investigator:	Shou-Ching Tang, MD, PhD	Principal Investigator:	Beverly Windham, MD
Sponsor:	Gilead Sciences	Sponsor:	American Heart Association through Morehouse School of			Sponsor:	National Institute on Aging through University of Minnesota
Title:	Expanded Access Treatment Protocol: Remdesivir for the	-	Medicine	•	Incyte Biosciences International		Identification of Plasma Hydroxysphingolipids as Biomarkers
Principal Investigator:	Treatment of SARS-CoV2 Infection (COVID-19)	Title:	Biological and Socio-Cultural Determinants and Management of CV Health Factors in Multi-Ethnic Populations	litie:	A Safety and Tolerability Study of INCAGN02390 in Select Advanced Malignancies		of Demyelination and Neurodegeneration Underlying Physical Function Decline in Older Adults
i melpar mestigator.	Sussifi andin, mb	Principal Investigator:	Mario Sims, PhD	Principal Investigator:	Shou-Ching Tang, MD, PhD	Principal Investigator:	Beverly Windham, MD
Sponsor:	Department of Health and Human Resources	-	Network Loop and Dis. 11, 19, 1	-	Investigation of the Charles		
Title:	Implementing, Enhancing and Sustaining the Mississippi Cancer Registry	Sponsor:	National Heart, Lung, and Blood Institute 20th Anniversary Conference: Every Heartbeat Matters:	•	Inventiv Health Clinical Phase 1b Study to Assess the Safety, Tolerability, and Clinical		AARP Foundation
Principal Investigator:		nue.	Changing the Future of Heart Health	nue.	Activity of Gedatolisib in Combination with Palbociclib and Either	Principal Investigator:	Fresh Savings Marion Wofford MD
,		Principal Investigator:	Mario Sims, PhD	Principal Investigator	Letrozole or Fulvestrant in Women with Metastatic Breast Cancer Shou-Ching Tang, MD, PhD	i incipal investigator.	
Sponsor:	Agency for Healthcare Research and Quality through Johns	Granar	National Lloyd, Lung, and Digad Institute through Drawn	Fincipal investigator.			
Title:	Hopkins University Replatinum: A Phase 3, Controlled, Open-label, Randomized	Sponsor:	National Heart, Lung, and Blood Institute through Brown University	Sponsor:	Parexel International, LLC		
The.	Study of RRx-001 Administered Sequentially with a Platinum	Title:	Impact of Multilevel Risk and Resilience Factors on	Title:	A Phase 2 Open Label Multicenter Study of Talazoparib for		
	Doublet or a Platinum Doublet in Third-Line or Beyond Small Cell Carcinoma		Cardiovascular Health in Racially/Ethnically Diverse Men and Women		Neoadjuvant Treatment of Germline BRCA 1/2 Mutation Patients with Early Triple Negative Breast Cancer		
Principal Investigator:	John Ruckdeschel, MD	Principal Investigator:	Mario Sims, PhD	Principal Investigator:	Shou-Ching Tang, MD, PhD		
-	Brigham and Women's Hospital	•	Cystic Fibrosis Foundation				
	Alliance Services Agreement	inte:	Cystic Fibrosis Grant - Adult				
FILICIDAL IIIVESIDATO	John Ruckdeschel, MD	Principal Investigator:	John Spurzem, MD				



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