

# THE *Gill* GAZETTE

January- March  
2020



University of Kentucky Gill Heart & Vascular Institute Quarterly News

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The Gill Heart & Vascular Institute

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Lexington KY 40536

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<https://ukhealthcare.uky.edu/gill-heart-vascular-institute>

# Guidance for Research Participants During COVID-19

## **Guidance for Research Participants**

**March 20, 2020, 4:00 p.m.**

**The University of Kentucky is Pausing Select Human Subject Research Studies**

The health and safety of our community is of paramount importance during the COVID-19 emergency. To this end, the University of Kentucky Chandler Medical Center will be temporarily pausing select human subject research activities.

We are instructing all study teams to contact active study participants with information on whether the study has been delayed/paused or temporarily changed due to COVID-19 concerns. Study staff may prioritize calls based on studies involving treatments, visits, therapies, etc. Be aware that study payments or compensation owed may be delayed.

If your study staff have contacted you, follow their directions.

If you have questions or concerns, contact the study team using the phone number provided to you. It should be on the front page of the informed consent provided when you joined the study.

### **Which human subject research studies will this affect?**

Studies that involve direct contact with study participant but have no direct benefit to the participant will be paused until further notice.

### **Which human subject research studies will not be paused?**

This pause may not affect studies with medically necessary treatments or clinical trials with important benefits to participants. The pause may not affect studies with no personal contact (such as online surveys and phone interviews).

### **Will I be able to enroll in a clinical trial?**

Enrollment in clinical trials will be placed on hold immediately, except where treatment during a clinical trial is medically necessary for the patient, such as some oncology studies and device studies or clinical trials with investigational drugs. Generally, trials with drugs or devices will continue to enroll new participants only if there are no other treatments available and the participants would be placed at risk without treatment. Clinical trials with placebo groups will likely be placed on enrollment hold. If you are screening or have recently consented to participate in a clinical trial, please contact the study team.

### **What should I do if I am receiving treatment?**

If you are in treatment on a clinical trial, you may continue treatment, although the study visit schedule may change. When you come for your treatment, please be prepared to answer questions about your recent trips and health. This screening is intended to protect you, your family, and our healthcare workers, from coronavirus infection. If you are sick, have symptoms, or have been exposed to somebody who is infected with coronavirus, your visit may be rescheduled. The study team will do everything they can to maintain your treatment schedule.

# CLINICAL TRIALS

## CONTACT COORDINATOR FOR INFORMATION

### [Carillon - Assessment of the CARILLON® Mitral Contour System\\*](#)

**PI: Gurley**

**Coordinator: Stephanie Morris, 323-5366**

Brief summary:

The study will be a prospective, randomized, blinded clinical trial is to assess the safety and efficacy of the CARILLON Mitral Contour System in treating functional mitral regurgitation associated with heart failure.

### [BIO LIBRA - AnaLysIs of Both Sex and Device Specific FactoRs on Outcomes in PATients with Non-Ischemic Cardiomyopathy](#)

**PI: Hesselson**

**Coordinator: Ben Rushing 323-5259**

Brief Summary:

This study is designed to evaluate the combined risk of all-cause mortality and treated ventricular tachycardia (VT) or ventricular fibrillation (VF) events by subject sex and by implanted device type. All-cause mortality, VT or VF alone, risk of cardiac death, and sudden cardiac death will be analyzed for the total cohort, as well as by subject sex and by the implanted device type.

### [The PRECISE Protocol: Prospective Randomized Trial of the Optimal Evaluation of Cardiac Symptoms and Revascularization \(PRECISE\)](#)

**PI: Sorrell**

**Coordinator: Chris Webb 323-1082**

Brief Summary:

The study will be a prospective, pragmatic, randomized clinical trial of the comparative effectiveness of diagnostic evaluation strategies for stable CAD, to be performed in outpatient settings, including primary care and cardiology practices.

### [Women's IschemiA TRial to Reduce Events In Non-ObstRuctive CAD \(WARRIOR\)](#)

**PI: Wells**

**Coordinator: Denise Sparks, RN 218-6713**

Brief Summary:

The Ischemia-IMT (Ischemia-Intensive Medical Treatment Reduces Events in Women with Non-Obstructive CAD), subtitle: Women's Ischemia Trial to Reduce Events in Non-Obstructive CAD (WARRIOR) trial is a multicenter, prospective, randomized, blinded outcome evaluation (PROBE design) evaluating intensive statin/ACE-I (or ARB)/aspirin treatment (IMT) vs. usual care (UC) in 4,422 symptomatic women patients with symptoms and/or signs of ischemia but no obstructive CAD. The hypothesis is that IMT will reduce major adverse coronary events (MACE) 20% vs. UC. This study is being conducted to determine whether intensive medication treatment to modify risk factors and vascular function in women patients with coronary arteries showing no flow limit obstruction but with cardiac symptoms (i.e., chest pain, shortness of breath) will reduce the patient's likelihood of dying, having a heart attack, stroke/TIA or being hospitalized for cardiac reasons. The results will provide evidence data necessary to inform future guidelines regarding how best to treat this growing population of patients, and ultimately improve the patient's cardiac health and quality of life and reduce health-care costs.

[AMPLATZER PFO Occluder Post Approval Study \(PFO PAS\)](#)

**PI: Gurley**

**Coordinator: Jennifer Isaacs 323-4738**

Brief Summary:

The purpose of this single arm, multi-center study is to confirm the safety and effectiveness of the AMPLATZER™ PFO Occluder in the post Approval Setting

[COMPASSION S3 - Evaluation of the SAPIEN 3 Transcatheter Heart Valve in Patients With Pulmonary Valve Dysfunction](#)

**PI: Leventhal**

**Coordinator: Jennifer Isaacs 323-4738**

Brief Summary:

The purpose of this study is to evaluate the hypothesis that valve dysfunction of the Edwards Lifesciences SAPIEN 3 Transcatheter Heart Valve (THV) System is within the performance goal of 25% in subjects with a dysfunctional right ventricular outflow tract (RVOT) conduit or previously implanted valve in the pulmonic position with a clinical indication for intervention.

[An International Pulmonary Embolism Registry Using EKOS \(KNOCOUT PE\)](#)

**PI: Messerli**

**Coordinator: Travis Sexton 323-3617**

Brief Summary:

This registry is designed to understand acoustic pulse thrombolysis (APT) treatment regimens used as standard of care globally for pulmonary embolism. The registry will include individuals who have already received the APT treatment and those that will undergo APT treatment.

**For more information on any of these studies please contact:**

**Stephanie Morris, CCRP**

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Gill Heart & Vascular Institute Clinical Research Organization

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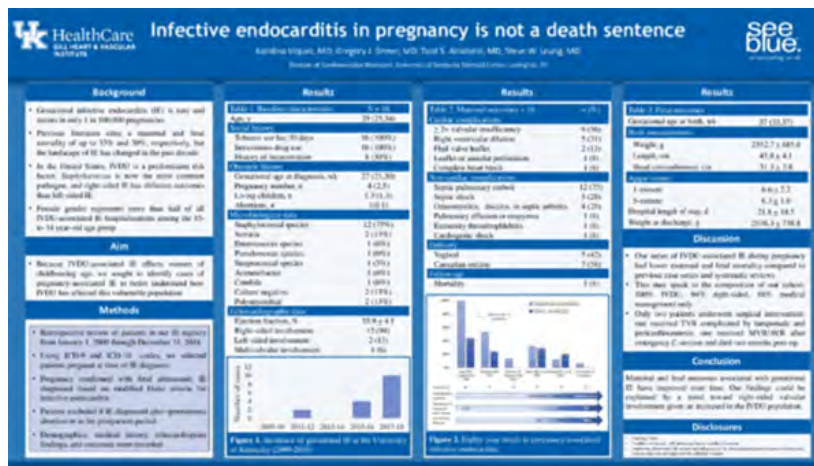
Fax: 859-257-7383

Jennifer.isaacs@uky.edu



# FELLOWS NEWS

## ACC ePOSTERS



# FELLOWS NEWS PUBLICATIONS

Cannon RM, Davis EG, Goldberg DS, Lynch RJ, **Shah MB**, Locke JE, McMasters KM, Jones CM. Regional Variation in Appropriateness of Non-Hepatocellular Carcinoma Model for End-Stage Liver Disease Exception. *J Am Coll Surg*. 2020 Jan 31. pii: S1072-7515(20)30107-1. doi: 10.1016/j.jamcollsurg.2019.12.022.

Goldberg D, Doby B, Siminoff L, **Shah M**, Lynch R. Rejecting Bias: The Case Against Race Adjustment for OPO Performance in Communities of Color. *Am J Transplant*. 2020 Mar 17. doi: 10.1111/ajt.15865.

Huerta CT, Orr NT, Tyagi SC, **Badia DJ**, Richie CD, Endean ED. Direct Retrograde Bypass is Preferable to Antegrade Bypass for Open Mesenteric Revascularization. *Ann Vasc Surg*. 2020 Jan 10. pii: S0890-5096(20)30039-X. doi: 10.1016/j.avsg.2020.01.019.

**Krause, D**, Marycz, D, Ziada, KM. Nonrenal Complications of Contrast Media. *Intervent Card Clinics*. In Press.

Whayne TF, Jr, **Sousa MJ**, Abdel-Latif A. Use and Value of Fractional Flow Reserve in Coronary Arteriography. *Angiology*. 2020 Jan;71(1):5-9. doi: 10.1177/0003319719848559.

Check out the newly redesigned **Cardiovascular  
Fellows** Website for upcoming events:

<https://cvfellowship.med.uky.edu>

**Vascular** can be found at:

<https://surgery.med.uky.edu/surgery-vascular-fellows>

**CT Surgery:**

<https://surgery.med.uky.edu/surgery-cardiothoracic-surgery-fellowship>

# AFFILIATE & **OUTREACH NEWS**

## UK HealthCare, Frankfort Regional Medical Center Announce Collaboration to Enhance Cardiovascular Services in Frankfort

From UKNow by Mallory Olson

Physicians from UK HealthCare's Gill Heart & Vascular Institute now provide 24/7 coverage for cardiac emergencies, including elective procedures in FRMC's cardiac catheterization lab. Additionally, UK cardiologists will provide services to inpatients and outpatients, including electrophysiology consultations and provide patient education and training.

"We are thrilled to partner with UK HealthCare's team to expand our cardiovascular services at Frankfort Regional," said Reed Hammond, CEO of Frankfort Regional Medical Center. "Through this collaboration, residents of Frankfort and the surrounding areas will have much needed access to high-quality, state-of-the-art emergent cardiovascular care right here in our own community."

"We are excited to embark on this new partnership with FRMC around cardiovascular services," said Susan Smyth, MD, PhD, director of the Gill Heart & Vascular Institute and Chief of the Division of Cardiovascular Medicine at UK HealthCare. "Our shared mission is to provide the highest quality of care, which will be accomplished building on FMRC's "Patients First" focus that has resulted in their exceptional care delivery and reputation."

The Gill Heart & Vascular Institute is a nationally recognized leader in the field of cardiovascular care, recently ranking the best hospital in Kentucky by US News and World Report. With multiple national accreditations, UK HealthCare employs 16 cardiovascular physicians who were named to The Best Doctors in America.





Frankfort Regional Medical Center: Owned by HCA Healthcare, one of the nation's leading providers of healthcare services, is a 173-bed, acute care facility, Accredited Chest Pain Center with Primary PCI, Level III Trauma Center, Primary Stroke Center, and Certified Total Joint Care Program:

"This has all the makings of a wonderful marriage," said Adrian Messerli, MD, director of Cardiac Catheterization Laboratories at UK HealthCare. "We will couple the fantastic local reputation of FRMC with the expansive expertise and care capabilities at the University of Kentucky. I am certain that this will be a huge boon to the citizens of Frankfort and neighboring counties. I am thrilled to be participating in this venture."

UK Gill Heart & Vascular Institute is at the forefront in the battle against heart disease and stroke in Kentucky. The goal is to provide every patient with exceptionally compassionate care in the safest and most appropriate manner possible based on the best evidence and the latest technological advances. As part of these measures, UKHC's Gill Heart & Vascular Institute works with a large number of affiliate network hospitals to enhance access to high-quality cardiovascular care and to provide the right care in the right place at the right time. The Affiliate Network includes 16 hospitals and 12 outreach locations, including at FRMC, which joined the network in 2018.

Frankfort Regional, an Accredited Chest Pain Center with Primary PCI, will continue to provide the advanced technology and expertise to care for a wide range of needs, from emergent conditions like heart attacks and chest pain, to diagnostic and preventative care.

# AFFILIATE & OUTREACH NEWS



Welcome!

The Gill Heart and Vascular Institute Affiliate Network welcomes Jennifer Vissing, RN, BSN as the program's first Clinical and Quality Director. Jennifer formerly served as the Nurse Coordinator for UK's Structural Heart Program. In her new role, Jennifer will work to improve cardiovascular care by partnering with community providers and hospitals across the Gill Affiliate Network by focusing on quality and clinical outcomes.

Jennifer has been with the Gill Heart and Vascular Institute since 2016 and has over 20 years of experience in cardiovascular nursing along with extensive experience in cardiac research.

Owensboro Health came to campus to spend the day observing Dr. John Gurley and our TAVR team!







Georgetown Community Hospital Celebrates GoRed!.

Dr Vince Sorrell gave a master class focused on advanced cardiac imaging to a full house at Georgetown Community Hospital in honor of Heart Month!



The TAVR Team talking about AFib with ARH for Heart Month!

# CARDIOVASCULAR NURSING PROGRESSIVE CARE

*"What sets this floor apart from the other floors is the advanced nursing knowledge that is required to care for this higher acuity patient population."*

**Marc Manley, MSN, RN, NE-BC, Patient Care Manager, Tower 8.100, CV Progressive Unit**

The Cardiovascular Progressive Care Unit (CV Progressive) at Gill is an intermediary step between ICU and an acute care floor. These patients on this floor require a high level of skilled nursing care and surveillance (although slightly less so than in an ICU) but are more stable. The nurse-to-patient ratio on the CV Progressive unit is typically 1:3 or 1:4, depending on patient acuity level.

The typical patients that are cared for on this unit are patients who have undergone cardiac catheterization and/or intervention, heart or lung transplant, placement of a Left Ventricular Assist Device (LVAD), as well as numerous other major cardiovascular surgical procedures.

Of the 61 nurses in this unit 90% have a BSN or MSN and are in the Nursing Professional Advancement program.

The 34 technicians that work on this floor have CAN or sRNA certification. A typical day for those caring for this patient population consists of routine nursing care, dispensing medication, checking patient devices, changing dressings, coordinating testing and assuring that therapies are completed such as working with our physical and occupational therapy partners to increase mobility or ambulate the patient.



Front Row (Left to Right): Charlotte Scharf, NCT; Crystal Justice, MSN, RN; Carla Shuck, RN, BSN; Alyssa Fink, RN, BSN; Erin Thompson, RN, BSN; Louanna Calhoun, RN, BSN

Back Row (Left to Right): Marc Manley, MSN, RN, NE-BC (Patient Care Manager); LeAnne Bunn, BSN, RN-BC; Morgan Thacker, RN, BSN; Laura Downs, RN, BSN





Front Row (Left to Right): Charlotte Scharf, NCT; Crystal Justice, MSN, RN; Carla Shuck, RN, BSN; Alyssa Fink, RN, BSN; Morgan Thacker, RN, BSN; Christine Slaughter, MSN, RN, CCRN-K (Clinical Nurse Specialist); Louanna Calhoun, RN, BSN  
 Back Row (Left to Right): Marc Manley, MSN, RN, NE-BC (Patient Care Manager); Erin Thompson, RN, BSN; Marco Gomez, MSN, RN (Staff Development Specialist); LeAnne Bunn, BSN, RN-BC; Laura Downs, RN, BSN; Cassandra White, RN, BSN

Continuing education is also a necessity in this unit as it is throughout all of Gill Heart & Vascular Institute. CV Progressive staff are responsible for annual CV competency exams, LVAD training, advanced pharmaceutical competencies, EKG testing and equipment training. Many nursing staff are also considered wound care super users since most of these patients have had surgical procedures or device placement.

According to Marc Manley, MSN, RN, NE-BC, Patient Care Manager of the CV Progressive Unit, “What sets this floor apart from the other floors is the advanced nursing knowledge that is required to care for this higher acuity patient population. The nursing team members on this unit have set a high bar for the quality nursing care that is delivered and pride themselves in the deeply personal and compassionate relationships that they establish with their patients”.

Their compassion and dedication is ever present as they have received numerous Daisy Award nominations (for extraordinary nurses) and recently won the UK HealthCare “Zero Hero” Award surrounding the no-harm work that they are involved in. This award recognizes the unit team for their clinical inquisitiveness, demonstration and application of evidence and best practice, innovation and dedication to a no harm environment.

*“The nursing team members on this unit have set a high bar for the quality nursing care that is delivered and pride themselves in the deeply personal and compassionate relationships that they establish with their patients”.*



# CARIOVASCULAR NURSING LEADERSHIP

*“We have an amazing leadership team and bedside staff within the CV service line. They are always working together to provide top-notch care to every patient, every time!!”*

**Kim Blanton, MSN, MHA, RN, NEA-BC,  
CV Nursing Operations Administrator & Enterprise  
Director Infection Prevention & Control**

Kim Blanton, MSN, MHA, RN, NEA-BC, Cardiovascular Nursing Operations Administrator & Enterprise Director Infection Prevention & Control and Lacey Buckler, DNP, APRN, RN, Assistant Chief Nurse Executive for Advanced Practice and Strategic Outreach, Director, Cardiovascular Nursing Services, Director, Office of Advanced Practice only have accolades for the cardiovascular nursing leadership team here at Gill Heart & Vascular Institute. “We have an amazing leadership team and bedside staff within the CV service line. They are always working together to provide top-notch care to every patient, every time!!”

We have a top-notch group of leaders here in the CV service line. Collaboration is key in assuring quality, safe care in everything we do. The CV leaders and staff within the service line work together

through staffing shortages and any challenges that come between them and patient care. They always have the patient’s best interest at the core of their daily work. When there have been staffing shortages in specific specialty areas within the service line the teams from all units took shifts to cover the holes. This type of team work is hard to find but the CV service line does it with ease.

The management team works to assure a cohesiveness among themselves and this bleeds over into the bedside teams. The staff in the CV service line take care of a special population of patients that can have up to 13 different devices- no other team has this type of patient population. Cardiovascular care requires specialized training in several devices and protocols such as ventricular assist devices (VAD) and extracorporeal life support (ECLS).

We are very patient centered in our care. Many times, the CV nurses go to the patient versus the patient coming to them. They are available to provide care in any location throughout the enterprise. For instance, they routinely assist physicians perform bedside cardioversions or ECMO cannulations anywhere in the hospital. The CV team has continued to work on improving quality care to some of the sickest patients in the Commonwealth and beyond. The team is constantly focused on decreasing hospital acquired conditions and finding out of the box ways to provide safe, quality care to all patients. One Henry Ford quote describes the CV team perfectly – he said “Coming together is the beginning... Keeping together is progress... Working together is SUCCESS”.

Not Pictured on the next page: **Kimberly Trammell-Duke, MPA, BSN, RN** Nurse Clinical Manager Senior Diagnostic Radiology, **Tonya Fletcher, BSN, RN**, Assistant Patient Care Manager, Tower 8.100 Cardiovascular/Progressive, **Julie Marconi, MSN, RN, NE-BC**, Interim Patient Care Manager, Cath/EP Lab & Cath Recovery, **Demond Jackson, BSN, RN**, Patient Care Manager, Tower 8.200 Cardiovascular ICU



From left to right: Bottom step, **Lacey Buckler, DNP, APRN, RN**, Assistant Chief Nurse Executive for Advanced Practice and Strategic Outreach, Director, Cardiovascular Nursing Services, Director, Office of Advanced Practice, **Lauren Stroud, MBA, MSN, RN, NE-BC**, Patient Care Manager 6N/6W Cardiovascular/Progressive  
 Second step, **Tami Neal, MSN, RN-BC, NE-BC**, Patient Care Manager, Central Monitoring Station, Carrie Nichols, **BSN, RN, CCRN**, Assistant Patient Care Manager, Tower 8.200 ICU Cardiovascular ICU, **Heather Thompson, BSN, RN, CCRN**, Assistant Patient Care Manager, Tower 8.200 ICU Cardiovascular  
 Third step, **Kim Blanton, MSN, MHA, RN, NEA-BC**, Cardiovascular Nursing Operations Administrator & Enterprise Director Infection Prevention & Control, **Marc Manley, MSN, RN, NE-BC**, Patient Care Manager, Tower 8.100 Cardiovascular/Progressive



# FEBRUARY GORED

The Healthy Hearts for Women Sixth Annual Symposium was held on February 7, 2020 at the University of Kentucky. Speakers were Lisa Cassis, PhD, Vice President for Research; Heddwen L. Brooks, PhD, Professor of Medicine and Biomedical Engineering, University of Arizona Health Sciences; Mark IC. Sanbllan, MD, PhD, FACOG, FAHA, Assistant Professor of Obstetrics and Gynecology, University of Iowa Health Care; Mary Cushman, MD, Medical Director, Thrombosis and Hemostasis Program, University of Vermont.

Analia Loria, Ph.D., and Frédérique Yiannikouris, Ph.D., from UK's Department of Pharmacology & Nutritional Sciences, are the co-organizers for the event. "There are many important differences between men and women with regard to heart disease," Loria said. "It's critical to consider sex as a biological variable in heart disease to better understand the cause and effect as part of the process to find better and more adapted treatment."

Loria believes each year; the symposium spurs thinking in study design. Updates in research allows for a continuous discovering of new mechanisms that may translate in novel and more effective therapeutics to fight cardiovascular disease in women, she added.

Yiannikouris' ultimate goal is to bring physicians and scientists together to exchange new skills, knowledge and recent advances in cardiovascular research to improve and speed up the research and health care of women.

The symposium was sponsored by the Department of Pharmacology and Nutritional Sciences in the UK College of Medicine, the Gill Heart & Vascular Institute and Saha Cardiovascular Research Center, as a demonstration of UK's commitment to address this health disparity. (Edited from UKNow)

Dr Lisa Cassis presenting



Drs Yiannikouris, and Loria



Dr Gregory Sinner presenting





Annual GoRed photo 2020



Drs Morris and Smyth. Carmine and Selah



Dr Santillan



Dr Brooks

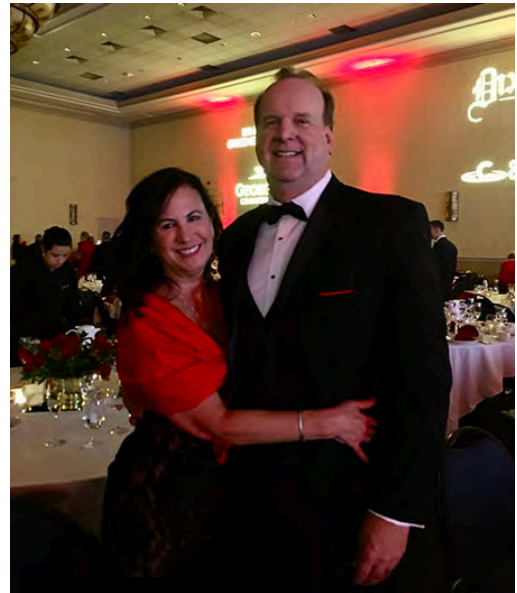




# FEBRUARY AHA HEART BALL

Heart Ball helps the American Heart Association analyze, connect, innovate, influence and invest in advancing efforts to change health outcomes as they relate to heart disease and stroke.

Heart Ball celebrates these efforts to build a foundation of health in our community and ensure everyone lives a longer healthier life.





# MARCH CARDIAC REHAB

Kentucky Cardiopulmonary  
Rehabilitation Association (KCRA)



## University of Kentucky Presentations at KCRA Annual Conference March 4, 2020, Lexington, KY

Hypoxemia and Oxygen Therapy  
**Rajan R. Joshi, MD, F.C.C.P.**  
UK Pulmonary Rehab Medical Director  
University of Kentucky

Enhancing Your Patients Cardiopulmonary Rehab Nutrition Experience  
**Shorus Minella, RD, LD**  
Dietician  
UK Gill Heart and Vascular Institute Cardiopulmonary Rehab

Current Issues in Heart Disease in Women  
**Gretchen L. Wells, MD, PhD, FACC**  
Thomas Wayne Professor of Women's Heart Health  
Gill Heart and Vascular Institute  
University of Kentucky



Katelyn King, Dr Joshi, Jacob Stone



Katelyn King, Shorus Minella, Jacob Stone

KCRA Executive Committee consists of GHVI employees:

President

**Jacob Stone, M.S., C.S.C.S.**

Cardiopulmonary Rehabilitation Program Supervisor

Treasurer

**Katelyn King, MSEP**

Transitions of Care Coordinator Cardiovascular Critical Care Services

# CV-RPA

## CARDIOLOGY RESEARCH PRIORITY AREA

Please become a member!

Please fill out our membership survey [here](#).

This survey will only take 2 minutes!



The missions of the Cardiovascular Research Priority Areas are:

1. To further develop the nationally and internationally reputation of the University of Kentucky by promoting and supporting discovery research and innovation and growing the portfolio of extramurally funded cardiovascular research.
2. To capitalize on campus-wide strengths in research, clinical care, and population science to improve cardiovascular health in Kentucky and beyond.
3. To provide a stimulating, nurturing, and inclusive campus-wide environment for the development and retention of productive faculty.
4. To facilitate training of postdoctoral fellows, graduate and undergraduate students, professional students, residents, and clinical fellows in cardiovascular research.
5. To promote and support discovery research and innovation that can be translated into novel approaches and new funding from federal agencies, charitable agencies/organizations, and industry

Website: <https://www.research.uky.edu/cardiovascular-research-priority-area>

Questions? Please email us at [CV-RPA@uky.edu](mailto:CV-RPA@uky.edu)

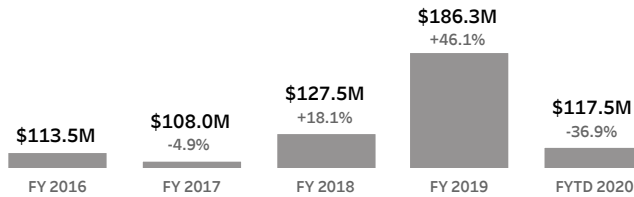
Academic Fiscal Year  
FYTD 2020

College or Unit  
College of Medicine

College or Unit Department  
Multiple values

Source of Funding  
All

### FY 2016 - 2020 TOTAL AWARDS (\$), 5-YEAR TREND FY CHANGE (%)



**\$117,542,985**

AWARDS (\$)

-\$76.9M

**620**

AWARDS

**-91**

**262**

PRINCIPAL INVESTIGATORS

**-52**

**258**

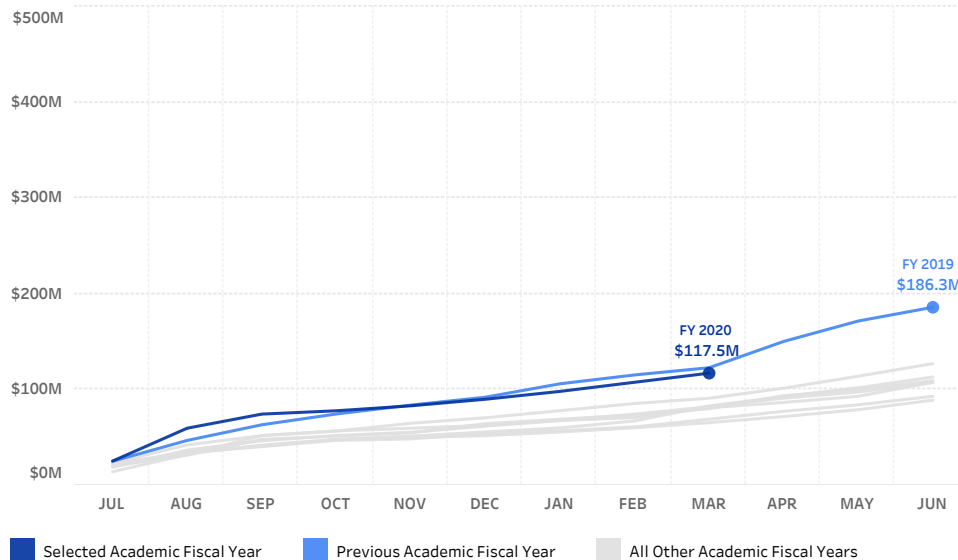
SPONSORS

-13

### FY 2018 - 2020 COMPOUND ANNUAL GROWTH RATE OF FUNDING SOURCES

	FY 2018	FY 2019	FYTD 2020		
Federal Government	\$93,772,078	\$135,602,680	\$75,704,034	-10.1%	
State Government	\$13,470,716	\$26,401,696	\$21,538,805		26.4%
Industry	\$9,410,846	\$9,170,372	\$7,770,942	-9.1%	
Nonprofit	\$7,028,876	\$8,525,138	\$7,024,852	0.0%	
Other	\$3,817,635	\$6,587,023	\$5,504,352		20.1%
<b>Total</b>	<b>\$127,500,151</b>	<b>\$186,286,909</b>	<b>\$117,542,985</b>	<b>-4.0%</b>	

### FYTD 2020 CUMULATIVE AWARDS (\$) RECEIVED BY MONTH



### FYTD 2020 HIGHEST FUNDED DEPARTMENTS

Sanders-Brown Center on Aging (SBCoA)	\$14,984,804
Center on Drug and Alcohol Research (CDAR)	\$14,615,989
Markey Cancer Network	\$14,320,127
Internal Medicine	\$9,487,497
Toxicology and Cancer Biology	\$8,258,645
Molecular and Cellular Biochemistry	\$7,114,957
Physiology	\$6,965,747
Surgery	\$6,949,172
Behavioral Science	\$6,218,967
Spinal Cord and Brain Injury Research Center	\$5,850,751
Saha Cardiovascular Research Center (SCRC)	\$4,409,280
Pharmacology and Nutritional Sciences	\$4,075,246

# CURRENT RESEARCH FUNDING

## **Ahmed Abdel-Latif**

Lysophosphatidic Acid Mediates Cardiac Inflammation After Acute Infarction  
National Heart Lung and Blood Institute  
08/01/17-07/31/22

## **Doug Andres**

RIT1-Mediated Protection Following Traumatic Brain Injury  
National Institute of Neurological Disorders & Stroke  
02/15/2018-01/31/23

G-protein Signaling Reduces Neurodegeneration and Promotes Recovery of Synaptic Strength following Traumatic Brain Injury  
KY Spinal Cord and Head Injury Research Trust  
01/15/17-01/14/21

RIT1 as Novel Driver Oncogene in Lung Adenocarcinoma  
KY Lung Cancer Research Fund  
07/01/16-06/30/20

Inhibition of Rin GTPase Signaling Reduces Neurodegeneration and Attenuates Axonal Injury following Traumatic Brain Injury  
KY Spinal Cord and Head Injury Research Trust  
01/15/15-01/31/20

## **Donna Arnett**

Genomewide Association Study of Lipid Response to Fenofibrate and Dietary Fat  
National Heart Lung and Blood Institute  
12/01/07-02/29/20

## **Ken Campbell**

Multiscale Modeling of Inherited Cardiomyopathies and Therapeutic Interventions  
National Heart Lung and Blood Institute  
08/03/17-07/31/22

Computer Modeling of Myosin Binding Protein C and its Effect on Cardiac Contraction  
Case Western Reserve  
04/01/19-03/31/20

Thick-Filament Regulation In Human Heart Failure  
Washington State University  
07/01/19-06/30/22

CRCNS: Multi-Scale Models of Proprioceptive Encoding for Sensorimotor Control  
Emory University  
09/16/16-05/31/20

**Lisa Cassis**

Angiotensin- A link between Obesity and Hypertension  
National Heart Lung and Blood Institute  
06/03/03-04/30/20

Center of Research in Obesity and Cardiovascular Disease COBRE Core A: Admin Core  
National Institute of General Medical Sciences  
09/08/08-07/31/20

Supplemental Environmental Project Compliance Assistance Tools and Services  
KY Department of Environmental Protection  
07/01/07-12/31/21

EPSCoR Administrative  
KY Economic Development Cab  
02/01/19-06/30/20

Healthy Kentucky Research Building Fit-up for Vascular Research  
Office of the Director  
09/23/19-10/31/21

Sex Differences in Angiotensin-Induced Vascular Diseases  
National Heart Lung and Blood Institute  
03/21/12-05/31/20

**Richard Charnigo**

Almost-Smooth Nonparametric Regression and Pattern Recognition  
12/14/16-04/13/20

**Misook Lee Chung**

Effects of Family Sodium Watchers Program on Outcomes in Heart Failure Patient-  
Family Caregiver Dyads  
National Institute of Nursing Research  
09/26/14-07/31/20

**Alan Daugherty**

University of Kentucky- Baylor College of Medicine Aortopathy Research Center  
American Heart Association  
04/01/18-03/31/22

Adventitial-Medial Interactions in Thoracic Aortic Diseases  
American Heart Association  
06/01/16- 05/31/20

Macrophage Migration Inhibitory Factor and Urinary Pain  
Lexington Biomedical Research Institute  
07/01/19-06/30/23



# FUNDING CONT

## **Brian Delisle**

Tbx3-regulated Alternative RNA Processing in Cardiac Conduction System Development  
Geisinger Health System  
04/15/16-03/31/20

Transcriptional Regulation of KCNH2  
National Heart Lung and Blood Institute  
03/08/19-02/28/23

## **Florin Despa**

Role of Systemic Amylin Dyshomeostasis in Alzheimer's Disease  
National Institute of Aging  
09/15/16-05/31/21

Programing Amylin Secretion to Slow Brain Aging - An Animal Model  
National Institute of Aging  
09/15/17-04/30/22

## **Ming Gong**

Targeting Timing of Food Intake as a Novel Strategy against Disruption of Blood Pressure Circadian Rhythm in Diabetes  
National Heart Lung and Blood Institute  
01/15/19-10/31/22

A Novel Mechanism by which Smooth Muscle BMAL1 Regulates IL-6 and Sexual Dimorphism of Abdominal Aortic Aneurysm  
National Heart Lung and Blood Institute  
08/20/18-07/31/22

## **Scott Gordon**

The Role of High Density Lipoprotein Associated Protease Inhibitor Activity in Protection Against Atherosclerosis.  
National Heart Lung and Blood Institute  
08/20/18-07/31/21

Protease Activity in Atherosclerotic Plaque Formation and Protection by Novel HDL-targeting Protease Inhibitors  
Medical Foundation  
12/01/18-11/30/20

High Density Lipoprotein Targeting Protease Inhibitors for Preservation of Lung Function  
Alpha One Foundation Incorporated  
07/01/19-06/30/20

## **Gregory Graf**

Contributions of hepatic and intestinal pathways to cholesterol excretion  
National Institute Diabetes & Digestive & Kidney  
09/13/17-07/31/22

**Brian Jackson**

Graduate Research Fellowship Program  
National Science Foundation  
08/01/18-07/31/23

**Jing Li**

Project MISSION: Developing a multicomponent, Multilevel Implementation Strategy for Syncope  
OptimalCare through eEngagement  
National Heart Lung and Blood Institute  
08/15/18-07/31/20

**Xiangang Li**

Mechanism of Adrenal Insufficiency as A Risk Factor for Sepsis  
National Institute of General Medical Sciences  
09/01/17-08/31/21

Synthetic HDL\_ a Potential Sepsis Therapy  
National Institute of General Medical Sciences  
11/01/15-11/30/20

**Zhenyu Li**

Inflammasome Activation Triggers Systemic Coagulation in Sepsis  
National Heart Lung and Blood Institute  
05/15/19-04/30/23

A Novel Mechanism of Immunosuppression in Sepsis: Depletion of Monocytes and Macrophages  
National Institute of General Medical Sciences  
09/20/19-06/30/23

**Analía Loria**

Effect of Early Life Stress on Obesity-Induced Hypertension in Mice  
National Heart Lung and Blood Institute  
12/01/17-11/30/22

Fat Nerve Recording in Mice  
American Physiological Society  
10/01/19-09/30/20

**Hong Lu**

Atherosclerosis Mechanisms: Angiotensin II Production and Action  
National Heart Lung and Blood Institute  
05/01/18-03/31/22

**Andrew Morris**

Define the Twist-ATX-LPAR1 Signaling Axis in Promoting Obesity-Associated Triple Negative Breast Cancer  
Army Medical Research and Materiel Command  
04/15/16-04/14/20

Anniston Community Health Survey: Follow-up Study and Dioxin Analyses  
National Cancer Institute  
05/01/19-04/30/21

**Debra Moser**

Rural Intervention for Caregivers' Heart Health (RICHH)  
National Institute of Nursing Research  
09/26/16-06/30/21

# FUNDING CONT.

**Gia Mudd-Martin**

Corazón de la Familia (Heart of the Family)  
National Institute of Nursing Research  
03/02/17-01/31/22

**Timothy Mullett**

Using Biomarkers and Imaging in Fungal Regions to Improve Lung Cancer Diagnosis  
Vanderbilt University  
04/01/19-03/31/20

**Mariana Nikolova-Karakashian**

Ceramide and Acute Phase Proteins Elevation During Aging  
National Institute on Aging  
08/01/02-05/31/23

**Fredrick Onono**

Intestinal Phosphatidylcholine Exposure and Breast Cancer Risk  
National Cancer Institute  
07/01/15-06/30/20

**Jonathan Satin**

Monomeric G-Proteins and Cardioprotection from Heart Failure  
National Heart Lung and Blood Institute  
09/01/17- 08/31/20

University of Kentucky Undergraduate Training in Cardiovascular Research  
American Heart Association Great Rivers Affiliate  
02/01/17-01/31/20

**Nancy Schoenberg**

Community to Clinic Navigation to Improve Diabetes Outcomes  
National Institute Diabetes & Digestive & Kidney  
08/01/17-07/31/22

**Susan Smyth**

Serum Amyloid A as a Novel Inflammatory Mediator of Thrombosis  
UK-Center for Clinical and Translational Science  
03/05/19-03/31/20

Lipid Phosphate Phosphatase 3 as a Novel Atherosclerosis Suppressor  
National Heart Lung and Blood Institute  
04/01/15-03/31/21

NRSA Training Core (Kentucky Center for Clinical and Translational Science)  
National Center for Advancing Translational Sciences  
08/15/16-05/31/20

NRSA T32: Clinical Scholars in Cardiovascular Science  
National Heart Lung and Blood Institute  
06/01/08-05/31/20

**Venkateswaran Subramanian**

Calpains and Abdominal Aortic Aneurysms  
National Heart Lung and Blood Institute  
08/10/17-07/31/21

**Ryan Temel**

TRAF6 Nanoimmunotherapy to Resolve Plaque Inflammation  
Mount Sinai  
08/15/18-06/30/20

Targeting MicroRNA-33 To Reduce Intracranial Atherosclerosis and Other Neurovascular Hallmarks of Vascular Cognitive Impairment and Dementia  
National Institute of Neurological Disorders & Stroke  
04/01/19-03/31/21

Therapeutic Targeting of Metabolic microRNAs as a New Treatment Paradigm for NASH  
Aalborg University  
01/01/19-12/31/24

**Dongfang Wang**

Development of a Paracorporeal Pump-Integrated Artificial Lung for Transport of Warfighters with Acute Respiratory Distress Syndrome (ARDS)  
Army Medical Research and Materiel Command  
08/15/19 -08/14/22

SBIR Phase 1: Development of Percutaneous Pulmonary Artery Drainage Device to Unload LV During VA ECMO Support for Severe Cardiogenic Shock  
W-Z Biotech LLC  
09/01/18- 02/29/20

SBIR: Development of a TransApical to Aorta Double Lumen Cannula for a Neonate LVAD.  
W-Z Biotech LLC  
04/01/19-07/31/20

**Shuxia Wang**

Thrombospondin 1 in obesity associated inflammation and insulin resistance  
National Institute Diabetes & Digestive & Kidney  
08/20/17-05/31/20

**Christopher Mark Waters**

ASK1 and Ventilator-Induced Lung Injury  
National Heart Lung and Blood Institute  
12/15/16-11/30/20

CXCR4 Signaling in Lung Epithelial Repair  
National Heart Lung and Blood Institute  
07/08/14-03/31/20

Regulation and Function of IL33 During Neonatal RSV Infection  
Louisiana State University  
05/05/18-07/31/20

**Nancy Webb**

Serum Amyloid A, Inflammasome Activation, and Abdominal Aortic Aneurysms  
 National Heart Lung and Blood Institute  
 01/01/17-12/31/20

NRSA T32: Pharmacology and Nutritional Sciences: Multidisciplinary Approaches for Metabolic Disease  
 National Institute Diabetes & Digestive & Kidney  
 08/15/00-07/31/20

**Jonathan Wenk**

Force Validated Heart Valve Surgical Planning Tool  
 University of Arkansas  
 09/01/19-08/31/22

**Sidney Whiteheart**

Platelet Exocytosis and Endocytosis in Thrombosis and Immunity  
 National Heart Lung and Blood Institute  
 04/01/20-03/31/28

**Jeremy Wood**

Protein S Anticoagulant Activity: Biochemical Mechanisms and Structural Studies  
 National Heart Lung and Blood Institute  
 09/15/15-03/31/21

## SEMINARS & JOURNAL CLUBS

\* Please note if these seminars are still occurring, they will be online only. Check website for details.

**Cardiovascular Seminar Series****Fridays at 8:00 am**

This forum brings to campus prominent external speakers and provides presentations by UK faculty to ensure their research expertise is widely known.

<https://cvrc.med.uky.edu/cvrc-current-seminar-schedule>

**Cardiovascular Journal Club****Tuesdays at 8:00 am**

Presenters in this forum discuss specific citations including basis for this publication's selection, strengths and weaknesses, from the perspective as if he/she were the original reviewer. For more information contact:

**Greg Graf, Ph.D. or Ryan Temel, Ph.D.**

<https://cvrc.med.uky.edu/cvrc-current-journal-club-schedule>

**Blood Cell Journal Club****4th Friday of each month at 4:00 pm**

The journal club was started a number of years ago in an effort to provide a focal point for the hemostasis community at UK. The focus is usually on platelets but they also discuss papers on Coagulation and Immune responses.

<https://cvrc.med.uky.edu/cvrc-blood-cell-journal-club-2018>

# PUBLICATIONS

## January-March 2020

Alkhouli M, Alqahtani F, **Ziada KM**, Aljohani S, Holmes DR, Mathew V. Contemporary trends in the management of aortic stenosis in the USA. *Eur Heart J*. 2020 Feb 21;41(8):921-928. doi: 10.1093/eurheartj/ehz568.

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# UPCOMING EVENTS

June 10-Hyde Lecture-Julie  
Frieschlag guest lecturer

September 11- Flowers & Horan  
Lecture-Dr Paul Ridker, Harvard

September 12-KY-ACC-Louisville

September 25- CVRC Research  
Day

Save the Date:

April 17, 2021-The Very Latest in  
Cardiovascular Medicine and  
Surgery