

Funded PCAP projects:

Dr. Divyanshu Mohananey

Dr. Divyanshu Mohananey, Assistant Professor in the department of Medicine, Division of Cardiovascular Medicine was awarded PCAP funds for the project titled “A Retrospective review of Patients with Degenerative Mitral Stenosis” This project focuses on patients with Degenerative Mitral Stenosis (MS) by comparing echo and CT criteria to identify patients with true mitral stenosis and its impact on outcomes. This study has three aims:

1. Study the natural history of isolated degenerative mitral stenosis
2. To study the various methods of quantification of severity (transmitral gradient, area by continuity equation, area by pressure half time, mitral dimensionless index, planimetered area) and their impact on clinical outcomes.
3. To study patients with severe AS who undergo a preprocedural planning retrospective gated CT in an effort to correlate CT derived mitral valve and mitral annular areas with echocardiographic parameters of valvular stenosis severity.

Dr. Nunzio Gaglianello & Dr. Leo Gozdecki

Dr. Nunzio Gaglianello Associate Professor in the department of Medicine, Division of Cardiovascular Medicine & Dr. Leo Gozdecki, Cardiovascular Medicine Fellow, were awarded PCAP funds for their project “Prognostic Significance of Jugular Venous Diameter Ratio in Inpatients with Decompensated Heart Failure”. The primary objective of this project is to determine the relationship of Jugular Venous Diameter ratio to prognosis, specifically a composite outcomes of 30 day re-admission and mortality, of patients admitted with acute decompensated heart failure as a primary diagnosis.

Dr. Anna Palatnik & Dr. Jacquelyn Kulinski:

Dr. Anna Palatnik, associate professor in Obstetrics and Gynecology, Division of Maternal Fetal Medicine, and Dr. Jacquelyn Kulinski, Associate Professor in the department of Medicine, Division of Cardiovascular Medicine, were awarded PCAP funds for their project entitled “Intensive postpartum antihypertensive treatment to improve women’s cardiovascular health”. This project’s ***central hypothesis*** is that intensive postpartum blood pressure control could decrease maternal morbidity in hypertensive disorders of pregnancy and accelerate recovery of vascular function by limiting exposure to HTN. *The objective of this proposal*, titled “Intensive Postpartum Antihypertensive Treatment” (IPAT), is to examine the effect of IPAT on blood pressure control and markers of vascular dysfunction through 6 months postpartum, and finalize all study procedures for the development of a fully powered future multisite trial. There are two main aims:

1. Test the feasibility of IPAT study procedures while addressing barriers to postpartum follow-up.
2. Determine which measures of vascular function would be most reflective of blood pressure control postpartum.

****This project received a notice of award in April of 2023 for funding of a R34 grant from the NIH for related work entitled "Intensive postpartum antihypertensive treatment to improve women's cardiovascular health"**

Dr. Sarah Thordsen & Dr. Sara Matloub:

Dr. Sara Matloub, internal medicine resident, and Dr. Sarah Thordsen, Assistant Professor, Department of Medicine/Cardiology, were awarded PCAP funds for their project titled, "Peripartum Cardiomyopathy Outcomes in a Local Population." The study compares the population and outcomes between white and non-white subjects affected by peripartum cardiomyopathy.

The study consists of three aims:

1. Determine the demographic makeup and clinical history of Froedtert Health's Peripartum Cardiomyopathy (PPCM) population
 2. Determine if minority women with PPCM are referred to specialty care with the same frequency as white women
 3. Describe the differences in guideline directed medical therapy in white versus non-Hispanic/black PPCM patients
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Dr. Jacquelyn Kulinski and Srisha Kotlo (Medical Student)

Dr. Jacquelyn Kulinski, Associate Professor in the department of Medicine, Division of Cardiovascular Medicine, and Srisha Kotlo, MCW Medical Student were awarded PCAP funds for their project entitled "Coronary artery calcification as a predictor of outcomes in patients hospitalized with COVID-19". This study is looking at the question: In patients without a history of atherosclerotic cardiovascular disease (ASCVD), does the presence and amount of coronary artery calcification seen on CT imaging (no calcification, mild, moderate, or severe) predict risk for mortality, necessity and duration of ICU care, mechanical ventilation, and acute coronary syndrome/myocardial injury for hospitalized patients with COVID-19? The goal of this study is to see if Coronary artery calcification predicts ICU necessity, mortality, and ACS during admission for COVID-19.

Presented at ACC 2023:

Kotlo S, Thorgerson A, Kulinski J. Coronary artery calcification as a predictor of adverse outcomes in patients hospitalized with COVID-19. *Am Heart J Plus*. 2023 Apr;28:100288. doi: 10.1016/j.ahjo.2023.100288. Epub 2023 Mar 8. PMID: 36925617; PMCID: PMC9993728.

[Abstract](#)

Dr. Subhashish Agarwal

Dr. Subhashish Agarwal, Assistant Professor with FH-MCW Community Physicians was awarded PCAP funds as a reimbursement for a published manuscript entitled "Association between 25-Hydroxyvitamin D and Metabolic Syndrome in Older Adults: The Health, Aging and Body Composition Study."

<https://pubmed.ncbi.nlm.nih.gov/33777141/>