

## GW Heart and Vascular Institute e-Newsletter: May 2023

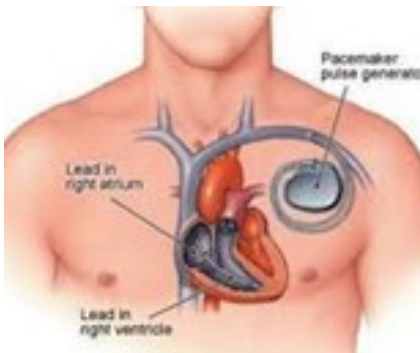
*A busy month of cardiac education, community service, and research*

### Education

#### *National Cardiac Guidelines*

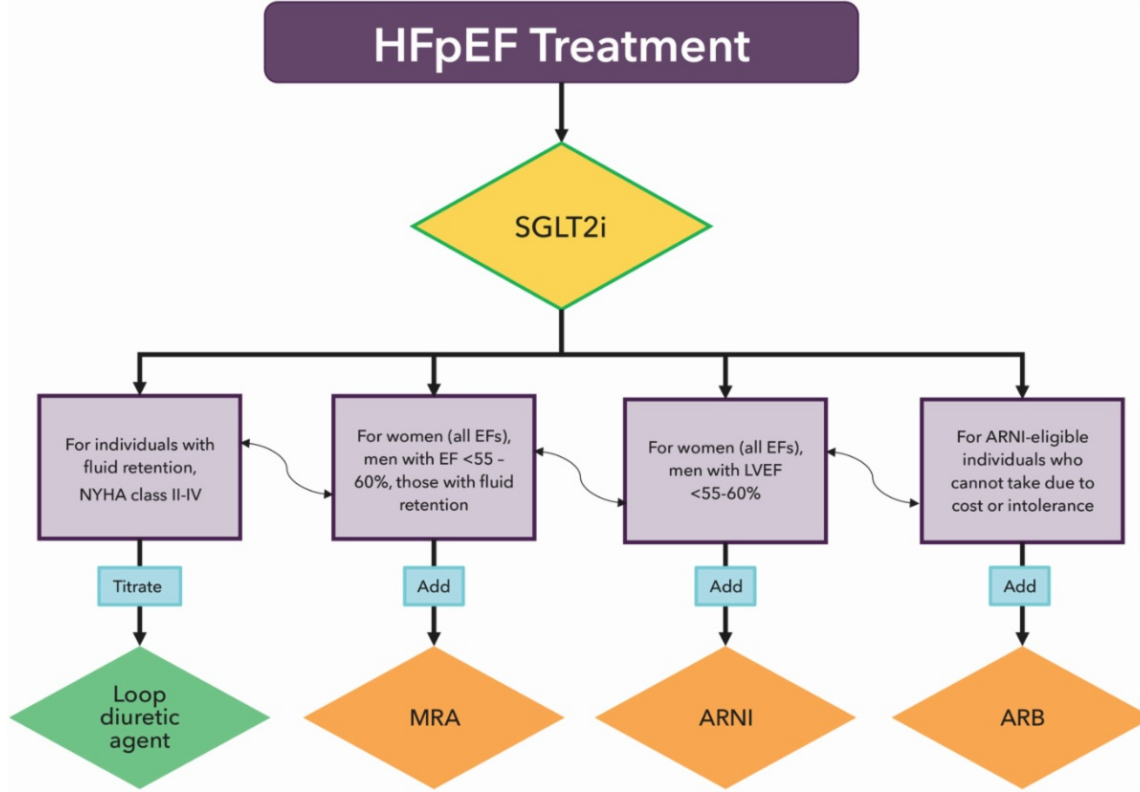
The major US cardiology organizations, American College of Cardiology, American Heart Association, Heart Rhythm Society, Heart Failure Society of America, and others select national experts to participate in developing and updating the diagnosis and treatment strategies of heart disease. GW faculty have a significant role in several of these working committees. This month **Drs Cynthia Tracy and Gurusher Panjra** were key experts devoting time and expertise to new heart failure therapy.

**2023 HRS/APHRS/LAHRs Guideline on Cardiac Physiologic Pacing for the Avoidance and Mitigation of Heart Failure.** Cynthia Tracy co-author. Heart Rhythm: Science Direct 5/26/2023



This long-awaited guideline updates the use of conduction system pacing in the management of heart failure. Pacemaker treatment has been adapted to resynchronize heart pumping and enhance heart pumping. This new guideline takes the evidence to the next step confirming the utility of conduction system pacing in a broad group of heart failure patients not only for symptom improvement, but for mortality benefit.

**2023 ACC Expert Consensus Decision Pathway on Management of Heart Failure with Preserved Ejection Fraction,** G. Panjra (Vice Chair) et al. JACC 5/9/2023



Heart failure with preserved left ventricular function previously called “stiff” heart results from a variety of chronic conditions (hypertension, diabetes, obesity and others) and can cause shortness of breath, reduced endurance and poor survival. With the availability of exciting new medications, this consensus document for the first time provides a comprehensive approach to diagnosis and management of heart failure patients with this condition.

### *Annual Treadwell Lecture in Lipidology*

Pam Taub, Professor of Cardiology San Diego University School of Medicine, was a visiting professor meeting with GW residents and cardiology fellows discussing case presentations, and delivering Medical Grand Rounds on the **Evolving Landscape in Dyslipidemias: New and Emerging Agents**.

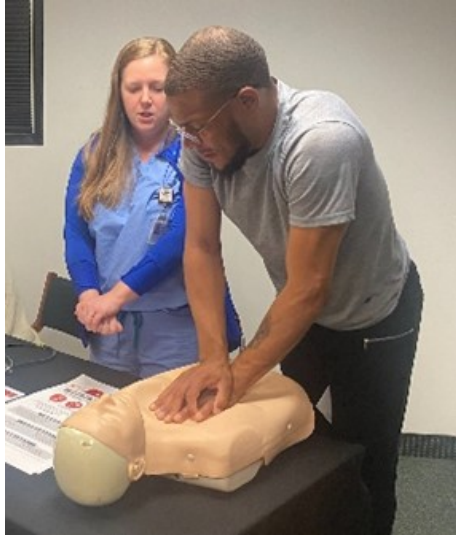


### *International Meetings*

**Best of ACC 2023 Updates for India: Dr. Gurusher Panjra**th was invited as part of ACC team of four internationally recognized faculty who gave multiple lectures on various topics in cardiovascular medicine in two cities in India. Dr. Panjra's lectures were focused around heart failure.



## Community Service



GW medical students and cardiology fellows, supervised by **Dr. Richard Katz**, provided hypertension screening and demonstrated hands-on CPR training for parishioners hosted by Bishop Webb at the Temple of Praise 5/18/2023.

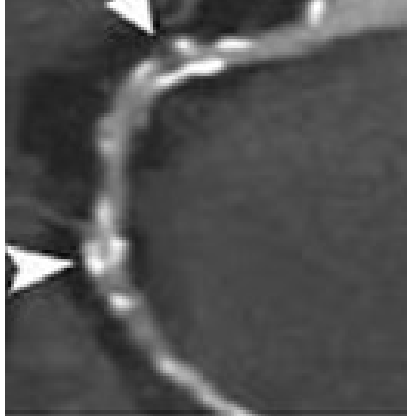
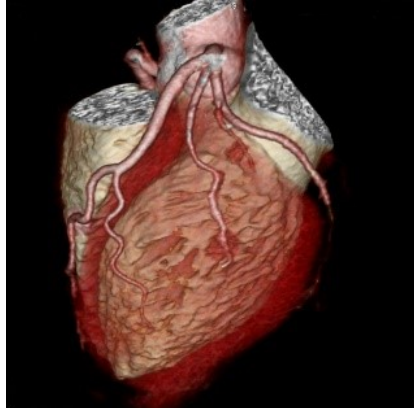


## Research

### *International Meeting Presentation*

Nick Nurmohamed, GW visiting cardiology research fellow and **Andrew Choi** presented a featured late breaking poster at the European Society of Angiography 5/23/23 : ***Lipoprotein (a) is Associated with Long-Term Plaque Progression on Serial Coronary CT Angiography.***

This high profile study highlighted the independent risk of elevated lipoprotein (a) worsening coronary artery disease despite control of LDL cholesterol.



### ***Publications***

**Andrew Bradley, Malik Ghwanmeh, Ashley Govi, Pedro Covas, Gurusher Panjra, and Andrew Choi** Heart Failure Clinics: ***Emerging Roles for Artificial Intelligence in Heart Failure Imaging.***

Artificial intelligence's role in medicine is growing. This review covers developments in AI as applied to imaging of heart failure including AI-based cardiac analysis of echocardiography, cardiac MRI, SPECT, and coronary CT angiography. AI offers promise in improving diagnosis, streamlining imaging lab workflow, and prediction of clinical outcomes.

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