FEATURED SESSIONS

Recent Advances Sessions and Opening Keynote
The Recent Advances in Hypertension Program will be highlighted by the Kidney Council Symposia entitled “Sodium-Potassium Ratio: Effects and the Implications for the Public,” the Council on Hypertension Symposia entitled “Editing the Genome and Epigenome: Implications for Translational Medicine,” and a symposia entitled “Adipose Biology in the Cardiovascular System: Advances, Tools and Context in Hypertension.” The program will also include the first symposia by the Health Equity Research Network (HERN) on the Prevention of Hypertension, also known as RESTORE. The RESTORE Network’s goal is to address social determinants of health to prevent hypertension.

Wednesday September 7, 2022
8:00 – 9:00 AM

Opening Session Keynote Lecture

Challenges and New Approaches to Drug Discovery for G Protein Coupled Receptors
Brian Kobilka, MD, Department of Molecular and Cellular Physiology, Stanford University School of Medicine

9:00- 10:00 AM

Adipose Biology in the Cardiovascular System: Advances, Tools and Context in Hypertension
Moderators: Stephanie Watts, PhD, FAHA and Clintoria R. Williams, PhD, FAHA

The Multifaceted Roles of Adipose Tissue
Christy Gliniak
A Unique Adipocyteprogenitor Population Promotes Age-Related Adiposity
Qiong (Annabel) Wang, PhD

Adipose Tissue in the CV System
Andres Contreras, DVM, MS, PhD

10:30 AM-12:00 PM
Sodium-Potassium Ratio: Effects and the Implications for the Public

Moderators: Stephen Juraschek, MD, PhD, FAHA and Alexander Staruschenko, PhD, FAHA

Non-Traditional Mechanisms of Salt-Sensitivity
Srividya Kidambi, MD, MS

Beneficial Effects of a High Potassium Diet
Paul A. Welling, MD, FAHA

Population Effects of Dietary Changes
Kirsten Bibbins-Domingo, MD, PhD

Thursday, September 8, 2022
8:00-9:00 AM
The RESTORE Health Equity Research Network
The AHA's 2024 Health Equity Impact Goal is to advance cardiovascular health for all, including identifying and removing barriers to healthcare access and quality. As part of their approach to advancing health equity and combatting structural racism, the RESTORE Health Equity Research Network was recently funded to identify effective strategies to overcome adverse social determinants of health and prevent hypertension in Black communities. The first talks will provide an overview of the AHA Health Equity Impact Goal, and an overview of the RESTORE Network, including its vision, theoretical framework, and an introduction to its five effectiveness-implementation trials. The remaining talks will review evidence regarding the role of social determinants of health, neighborhood environment and geographic disparities in hypertension, as well as evidence regarding community health worker interventions to address these challenges.

**Moderator:** Daichi Shimbo, MD

**AHA Health Equity Impact Goal**
Daichi Shimbo, MD

**Overview of the AHA RESTORE Health Equity Research Network**
Gbenga Ogedegbe, MD

**Social Determinants of Health and Hypertension**
Yvonne Commodore-Mensah, PhD, MHS, RN, FAHA

**Neighborhood Environment and Hypertension**
Phillip Levy, MD, MPH, FAHA, FACC

**Geographic Disparities in Hypertension**
Shakia Hardy, PhD
Worsening Trends in Blood Pressure Control in the US - Getting on Track at the Organizational, Community, and Policy Levels

Hypertension is among the most important modifiable risk factors for cardiovascular disease. A large body of high-quality evidence has accumulated over the past two decades in the management of hypertension. This evidence has formed the basis of clinical practice guidelines, scientific statements and policy statements on hypertension. Evidence indicates that despite the scientific progress in hypertension management, hypertension awareness peaked in 2013-2014 and then declined in 2017-2018; antihypertensive medication use among those with hypertension peaked in 2009-2010 and declined in 2017-2018; and blood pressure control peaked in 2013-2014 and declined in 2017-2018. Recent evidence has also suggested that blood pressure levels have increased during the COVID-19 pandemic. These data indicate that there are increasing gaps between what experts recommend in the form of guidelines, scientific statements and policy statements, and the ability to manage hypertension in the real world. This session will focus on organizational-level, community-level, and policy-level pragmatic strategies to successfully improve blood pressure control in clinical practice.

Moderators: Cassandra Ford, PhD, RN, FAHA, FGSA and Jan Basile, MD, FAHA, FACP

Worrisome Trends in Blood Pressure Control in the US
Jan Basile, MD, FAHA, FACP

Successful Health System Level Strategies
Kristi Reynolds, PhD, MPH, FAHA, FACE

Leveraging Team-Based Care to Improve Blood Pressure Control
Hilary K. Wall, MPH
Use of Multi-faceted Evidence-based Treatment Protocols can Improve BP Control  
Brent M. Egan, MD, FAHA

Lessons from Low-and Middle-Income Countries: Global Perspectives  
Andrew Moran, MD, MPH, FAHA

10:30 AM – 12:00 PM

Editing the Genome and Epigenome: Implications for Translational Medicine

**Moderators:** Silvia Medrano, PhD and Aron Geurts, PhD

Deciphering the Human Genes Through Re-Engineering Human Genome  
Mazhar Adli, PhD

Base Editing/CRISPR  
Lucas Harrington, PhD

Gene Delivery to the Kidney  
Matthew Wilson, MD