

# THE EVOLVING PRACTICE OF CARDIOVASCULAR PRECISION MEDICINE

**MAY 13, 2022**

**OUTFRONT**  
ON EDUCATION

## PRE-CONFERENCE WORKSHOP

(Available on demand starting May 6, 2022)

### A Primer on Cardiovascular Genetics

#### Key Principles of Human Genetics and their Application to Cardiovascular Disease

*Elizabeth Jordan, MS, CGC*

#### Cardiovascular Disease Risk Prediction Utilizing Information from Genetic Testing

*Benjamin M. Helm, MS, CGC*

#### Next Generation Technologies and Therapeutics: Genomic Medicine for Cardiovascular Disease

*C. Anwar A. Chahal, MD, PhD, FACC*

## FRIDAY, MAY 13

### Welcome and Opening Session

10:00 a.m. **Welcome and Course Overview**  
*Regina Druz, MD, MBA, MS, FACC - Course Chair*  
*Akl C. Fahed, MD, MPH, FACC - Course Co-Chair*

10:10 a.m. **Fireside Chat – Updates from the All of Us Research Program**  
*Joshua C. Denny, MD, MS*  
*CEO, All of Us Research Program*  
*Geoffrey Ginsburg, MD, PhD, FACC*  
*Chief Medical and Scientific Officer, All of Us Research Program*

### Genomic Medicine Patient Journey

10:45 a.m.	<b>The Application of Genomic Medicine for Today's and Tomorrow's Cardiovascular Patient</b> <i>Philip Empey, PharmD, PhD, FCCP</i> <i>Amy C. Sturm, MS</i>
10:55 a.m.	<b>Towards More Precise Risk Prediction: The Application and Utility of Polygenic Scores</b> <i>Deanna Brockman, MS, CGC</i> <i>Iftikhar Kullo, MD, FACC</i> <i>Aniruddh Pradip Patel, MD</i>
11:40 a.m.	<b>Towards Personalized Prescribing: How to Implement Pharmacogenomics in Your Patient Population</b> <i>James C. Coons, PharmD, FACC</i>
11:55 a.m.	<b>Cardiomyopathy as a Use Case for Today's Genomic Medicine: Utilizing Genetic Testing for Diagnosis and Cascade Screening</b> <i>Neal K. Lakdawala, MD</i>
12:10 p.m.	<b>Break</b>

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<b>Artificial Intelligence - Augmented Clinical Decision Support for Cardiovascular Disease Management</b>	
12:20 p.m.	<b>A Clinician's Guide for Learning Artificial Intelligence</b> <i>Partho Sengupta, MD, FACC</i>
12:35 p.m.	<b>The Future is Now: AI Augmented ECG</b> <i>Paul A. Friedman, MD, FACC</i>
1:05 p.m.	<b>Implementation of AI into Clinical Practice</b> <i>Damini Dey, PhD</i>
1:30 p.m.	<b>Panel Discussion</b> <i>Moderators: Evan D. Muse, MD, PhD, FACC and Megan N. Pelter, MD</i> <i>Panelists: Damini Dey, PhD and Ravi B. Parikh, MD, MPP</i>
1:50 p.m.	<b>Break</b>
<b>When Precision Medicine Gets Personal</b>	
2:00 p.m.	<b>From N of 1 to Everyone: Intersection of Precision and Personalized Medicine</b> <i>Regina Druz, MD, MBA, MS, FACC</i>
2:15 p.m.	<b>The Omics Revolution</b> <i>Salim S. Hayek, MD, FACC</i>
2:30 p.m.	<b>What's Gut Got to Do with It?</b> <i>Kim Allan Williams, Sr, MD, MACC</i>
2:45 p.m.	<b>The Nutritional Kaleidoscope</b> <i>David L. Katz, MD, MPH</i>
3:00 p.m.	<b>Panel Discussion</b> <i>Moderator: Regina Druz, MD, MBA, MS, FACC</i> <i>Panelists: Salim Hayek, MD, FACC, David L. Katz, MD, MPH and Kim Allan Williams, Sr, MD, MACC</i>
3:15 p.m.	<b>Wrap-Up</b> <i>Regina Druz, MD, MBA, MS, FACC</i> <i>Akl C. Fahed, MD, MPH, FACC</i>
3:30 p.m.	<b>Adjournment</b>

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## **BONUS ON DEMAND CONTENT**

*(Available on demand starting May 16, 2022)*

### **Genomic Medicine Patient Journey**

#### **A Deep Dive into Polygenic Scores**

*Matthew T. Oetjens, PhD*

#### **Genetics of Heart Rhythm Disorders in the Clinic**

*C. Anwar A. Chahal, MD, PhD, FACC*

#### **Genetics of Aortopathies in the Clinic**

*Dianna Milewicz, MD, PhD*

#### **Gene-editing Technologies and Novel Heart Disease Therapeutics**

*Kiran Musunuru, MD, PhD*

### **Artificial Intelligence – Augmented Clinical Decision Support for Cardiovascular Disease Management**

#### **Demystifying Artificial Intelligence and Machine Learning**

*Naveena Yanamala, MS, PhD*

#### **Disparities and Ethical Challenges in Using AI**

*Ravi B. Parikh, MD, MPP*

#### **AI in Action: Risk Prediction Using Wearable Technologies**

*Maulik Majmudar, MD*

### **When Precision Medicine Gets Personal**

#### **Case Study in Personalized Precision Medicine**

*Regina Druz, MD, MBA, MS, FACC*

*Salim Hayek, MD, FACC*

*David L. Katz, MD, MPH*

*Kim Allan Williams, Sr, MD, MACC*