



## **VH1201 Section on Cardiology and Cardiac Program: Day 2 Morning** **Innovative Cardiac Technologies for Managing Complex Congenital Heart Disease**

**Saturday, October 9**

**8:00AM – 12:00PM CDT**

This program will feature abstract presentations and cutting-edge cardiac innovations for management of complex congenital heart disease. Innovations to be discussed include artificial intelligence and machine-learning applications, novel mechanical assist devices, and imaging techniques such as 3D printing, virtual reality, and holograms.

- 8:00AM **Welcome**  
*Ritu Sachdeva, MD, FAAP; Stuart Berger, MD, FAAP*
- Symposium 3: Cardiac Innovations  
*Moderators: Ritu Sachdeva, MD, FAAP; Robert Jaquiss, MD, FAAP*
- 8:30AM **Machine Learning in Pediatric Cardiology: Current Landscape and Future Directions**  
*Rima Arnaout, MD*
- 8:50AM **Artificial Intelligence and Machine Learning in Cardiac ICU**  
*Alaa Aljiffry, MD, FAAP*
- 9:10AM **Pushing the Envelope With Cardiac Imaging: 3D Printing, Virtual Reality, and Holograms**  
*Markus Renno, MD, MPH, FAAP*
- 9:30AM **Innovations in Mechanical Circulatory Support in Children**  
*Robert Jaquiss, MD, FAAP*
- 9:50AM **Q&A**
- 10:10AM **Break**
- 10:30AM **Young Investigator Award Abstract Presentations**  
*Moderators: Laurie Armsby, MD, FAAP, Jonathan Johnson, MD, FAAP*
- 10:30AM *Outcomes of Infective Endocarditis Hospitalizations Among Adults with Congenital Heart Disease: A Nationwide Study*
- 10:45AM *Electrocardiogram Findings in Long-Term Pediatric Cancer Survivors Exposed to Anthracyclines*
- 11:00AM *Equity Gaps in Completed Referrals to Pediatric Cardiology Subspecialty Clinic*
- 11:15AM *Whole Genome Sequencing and Familial Segregation Analysis Reveals CELSR1 Risk Alleles in Familial Bicuspid Aortic Valve and Hypoplastic Left Heart Syndrome*
- 11:30AM *Left Ventricular Systolic Dysfunction Following Repair of Ventricular Septal Defects in Infants*
- 11:45AM *Prevalence of Pulmonary Hypertension and Relation to Disease Severity in Children with Obstructive Sleep Apnea*
- 12:00PM **Adjourn**