

CARDIOLOGY
2027 

FEB. 3 – 7, 2027

Celebrating **30** Years of Learning,
Collaboration and Innovation

TO TREAT, DREAM AND TRANSFORM





WELCOME TO CARDIOLOGY 2027

WEDNESDAY, FEB. 3

PRE-CONFERENCE SYMPOSIUM

7:30 A.M. – 3 P.M.

Nursing Pre-Conference Symposium

Congenital Heart Disease and Its Post-operative Management:
A Master Class for Nurses, APPs and Front-line Providers

9 A.M. – 3 P.M.

Building a Successful Career in Pediatric Cardiology:
A Workshop for Trainees, Fellows and Early Career Physicians

WELCOME RECEPTION • 3 – 4 P.M.

Join us for a beverage and visit the Platinum Exhibits.



4 – 6:30 P.M. • PLENARY SESSION I

Opening Comments: To Treat, Dream & Transform: 30 Years of Annual Updates – What Have We Learned and What Comes Next?

- Commemorating 30 Years of Annual Updates
- Redefining Success: It's Not Just Survival
- The Evolving Pediatric Healthcare Landscape and Health Policy: Are We Getting It Right?
- The Revolution of Genetics and How It Is Transforming Care
- Improving Access for All
- The Changed Landscape of CHD Outcomes: Are We Creating New Chronic Conditions?
- How Are We Going to Provide Quality, High-end Care to the Growing Population of Adults?
- The Future of Congenital Heart Care: What Comes Next?



30th ANNIVERSARY GALA

6:30 – 8:30 P.M. • An outdoor party with great food and drinks and the opportunity to connect with colleagues and friends

CONFERENCE BROCHURE

THURSDAY, FEB. 26

7 – 8 A.M. • SUNRISE SESSIONS

Breakfast & Early Morning Topics:

- How to Master Reading the ECG
- Pearls & Pitfalls: Case Presentations and Lessons Learned

8 – 10 A.M. • PLENARY SESSION II

Cardiogenetics and Precision Medicine

- Predicting Pediatric Cardiac Disease Before It Happens: The Genomic Era of Cardiology
- Genetics Influencing Clinical Management: Disease-targeted Therapies with RASopathies as a Model
- A Blueprint Before Birth: The Imprints and Influences of Prenatal Life on Outcomes for CHD
- The Application of Genomic Medicine at the Beside in Children with Critical Cardiac Disease
- Gene Therapy for Cardiomyopathy and Myosin Inhibitors for Hypertrophic Cardiomyopathy: Precision Makes the Difference
- Precision Pharmacotherapy in Children: The Beta Blocker Story
- Individualized Therapy: What Does Precision Care Look Like in Congenital Heart Surgery? Will AI Play a Role?
- Precision Care in Planning Fontan Completion Strategies: Lymphatic Architecture as a Roadmap

10 – 11 A.M. Poster Session 1 and Visit Exhibits

11 A.M. – 1 P.M. • BREAKOUT SESSIONS

Acute Care Cardiology

- Graduate Medical Education in Pediatric Cardiology: The Role of Acute Care Cardiology
- Advanced Cardiac Therapies Outside of the ICU: How to Build a Team to Deliver Safe and Family-centered Care
- Evidence-based Pharmacotherapy of the Infant with Shunt-dependent Physiology
- Respiratory Management in the Acute Care Cardiology Environment: What Level of Support is Appropriate?
- Infant Feeding in the Acute Care Cardiology Environment: Art vs. Science
- Quality Improvement and Research Science from the Pediatric Acute Care Cardiology Collaborative
- Ensuring Safe, Supported Transitions After Hospital Discharge
- Acute Care Cardiology in 2027: Is It Its Own Subspecialty?

11 A.M. – 1 P.M. • BREAKOUT SESSIONS

Congenitally Corrected TGA: Unraveling the Twists from Before Birth to Adulthood

- Anatomical Variants of CC-TGA
- Imaging in CC-TGA
- Surgical Approaches and Strategies
- Management of the Adult

- Framing the Discussion: Controversies and Dilemmas in CC-TGA
- Debate and Discuss from Fetus to Adult: The Specifics and Details Count – Case-based Scenarios in the Highly Variable Disease of CC-TGA

Multimodality Imaging and Image Processing: How the Picture Guides Therapeutics

- Advanced Echocardiography to Guide Therapy
- Cross-sectional Imaging: CT and MRI to Guide Therapy
- Advanced Cardiac MRI to Guide Therapy
- Rapid vs. Long Acquisition in MRI: Pros and Cons of Each Approach
- 3D Echocardiography
- Update on 3D Cardiac Modelling
- Stress Imaging: Indications and Clinical Utility
- Imaging and How It Influences Device Placement

Heart Failure and Transplantation in 2027: Case Presentations and Discussions

Group Panel Discussion with Lead Moderator

Nursing and Frontline Providers

- 30 Years of Excellence and Legacy in Leadership, Evidence-based Practice and Research: What Have We Learned?

Perfusion and Circulation Support

- Enchanting Thoughts for Cardiopulmonary Bypass

1 – 2 P.M. LUNCH

Outdoor buffet lunch for all conference participants.

2 – 3 P.M. MODERATED PANEL

Group Panel Discussion with Lead Moderator

Effective Progress in CHD Innovation: How Do We Get from Concept to Testing to Clinical Application?

3 – 4 P.M. ORAL ABSTRACT PRESENTATIONS

Top 6 Abstracts Presented

4 – 6:30 P.M. • PLENARY SESSION III

Inspiration, Innovation and Discovery: From Cell to Organ System

- A Catalyst to Dream, Transform and Treat: The Mussallem CHD Alliance
- A Single Cell Can Tell Us So Much!
- Molecular Therapeutics in Pediatric Cardiology
- The Microbiome in Congenital Heart Disease: What Are We Potentially Missing?
- Novel Models for the Study of CHD: Computational Modelling
- Novel Models for the Study of CHD: Organoids
- Novel Models for the Study of CHD: Small Animal Models
- Novel Models for the Study of CHD: Large Animal Models
- Can Artificial Intelligence Aid in Imaging Diagnostics in Congenital Heart Disease?
- What Have We Learned from the Artificial Placenta Project and What Comes Next?

6:15 P.M. • ADJOURN

CONFERENCE BROCHURE

FRIDAY, FEB. 5

7 – 8 A.M. • SUNRISE SESSIONS

Breakfast & Early Morning Topics:

Pearls & Pitfalls: Case Presentations and Lessons Learned

Nursing Breakfast:

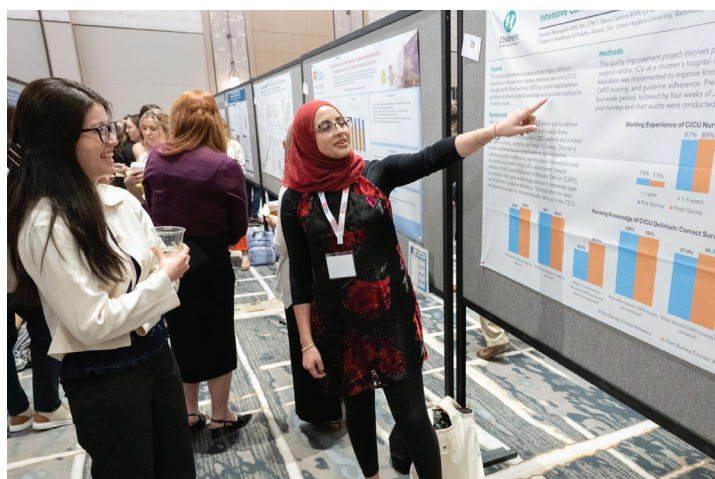
- Pharmacology Updates in Pediatric and Congenital Heart Care: What's New and What's Next?

8 – 10 A.M. • PLENARY SESSION IV

Decision-making in Pediatric and Congenital Cardiovascular Care

- How to Change: The Science of Nudging People Towards Better Health
- Principles and Practice of Clinical Decision-making
- Administrative, Programmatic and Strategic Decision-making in Pediatric Healthcare
- How the Image and Its Interpretation Influence Decision in Clinical Care
- In a High-stakes Environment: Decision-making in the Interventional Catheterization Lab
- In a High-stakes Environment: Decision-making in the Surgical Operating Room
- Shared Decision-making in Critical Conditions: The Patient, the Provider and Others
- Ethics Considerations in Clinical Decision-making

10 – 11 A.M. Poster Session II and Visit Exhibits



11 A.M. – 1 P.M. • BREAKOUT SESSIONS

Fontan Circulation and Single Ventricle: Annual Robert & Dolores Harrington Session

- Redesigning the Road: New Thinking about Characteristics of the Fontan Pathway
- Update on the Tissue-engineered Vascular Grafts for the Fontan Pathway
- How Will We Answer the Key Questions? Importance of a Lifespan Fontan Registry – SV-ONE
- What Defines “Failure” in Fontan Circulation?
- How Best to Maintain Wellness? Exercise is One Key, but How?
- Pharmacotherapeutic Trials for the Fontan Circulation: What Have We Done and What More Can We Do?
- Current State-of-the-Art Strategy of Care for PLE
- Audience Q&A

Pediatric and Congenital Electrophysiology: State of the Art Clinical Practice in 2027

- When Every Beat Counts: Navigating Fetal Bradycardia
- Infant SVT: Management Strategies
- Crunching the Numbers: How Far Can Risk Calculators Take Us in Sudden Cardiac Death Prevention in HCM and ARVC
- Beyond the Genotype: New Frontiers in Inherited Arrhythmia Diagnosis and Treatment
- The New Ablation Toolbox: Pulse Fields, Robots and What Actually Works for Atrial Arrhythmias in CHD
- Beyond Trial and Error: Personalizing Antiarrhythmic Drug Selection
- Chasing Innovation Responsibly: When to Implant Novel Pacemakers and ICDs in Children
- Does Location of Pacing Make a Difference?

Diseases of the Aorta and Aortic Valve

- Anatomy of the Aortic Valve and Aorta: ECHO Imaging
- MRI-based Imaging of the Aorta and Aortic Valve
- Catheter-based Management of Aortic Stenosis
- Surgical Intervention for Aortic Valve Disease in the Young
- Diseases of the Aorta and Their Management in the Young
- Catheter-based Interventions for the Aortic Arch
- Systemic Hypertension in the Young
- Pragmatic Interventions for the Management of Acquired Cardiovascular Risk Factors, Including Hypertension, in Children and Adolescents

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CONFERENCE BROCHURE

FRIDAY, FEB. 5 *continued*

The Pulmonary Vasculature in the Young

- New Understandings of the Basic Science of Pulmonary Vascular Disease
- The Clinical Spectrum of Pulmonary Hypertension in the Pediatric Population
- Biomarkers for Pulmonary Hypertension
- Prematurity and Its Impact on the Pulmonary Vasculature
- Pulmonary Hypoplasia
- Developing an Effective Programmatic Approach to Pulmonary Vein Disease
- Improving Outcomes for TOF/PA with MAPCAS: Pulmonary Artery Rehabilitation
- Audience Q&A

Healthcare Administration and the Business of Pediatric and Congenital Heart Care

- Heart Center Structure: A Cardiac Service Line – Why?
- Mid-size Programs: Unique Challenges and Opportunities
- Dyad Leadership Structure and Development of Ambulatory Programs (Outreach and Destinations)
- Clinicians and the Revenue Cycle: A Shared Responsibility in Pediatric Cardiac Care
- Public Reporting and Its Impact on Clinical Priorities
- Creating Opportunities for Leadership Through Targeted Training
- Frontline Staffing Models for a Heart Center
- Regionalization and Partnerships for Pediatric and Congenital Heart Care

Nursing and Frontline Providers

- What Are We Discovering? Top Nursing Abstracts in Research, Quality Improvement, Innovation and Transformation

Perfusion and Circulatory Support

- Making the Magic Happen with Mechanical Circulatory Support (MCS)

After 1 p.m. • Free Time

Participate in program satellite symposia or enjoy free time at *Disney World* in beautiful Orlando, Florida.

SATURDAY, FEB. 6



8 – 10 A.M. • PLENARY SESSION V

Featured Lectures

- Thomas L. Spray Lecture in Pediatric & Congenital Cardiovascular Surgery
- William J. Rashkind Memorial Lecture in Pediatric Cardiology
- John J. Downes Jr. Lecture in Cardiac Anesthesia and Critical Care
- Robert J. Levy Lecture in Cardiovascular Basic and Translational Sciences
- Thomas Garrett Rauch Memorial Lecture in Nursing
- Announcement of Best Abstract Awards

10 – 11 A.M. Poster Session III and Visit Exhibits

11 A.M. – 1 P.M. • BREAKOUT SESSIONS

Fetal and Perinatal Cardiology

- Fetal Cardiovascular Imaging: Protocols and Pearls
- Understanding the Fetal Heart-Brain Axis
- Maternal Hyperoxygenation: Can It Be Useful as a Provocative Diagnostic Tool?
- Catheter-based Interventions in the Newborn: Limitations and Expectations
- Delivery Room Management of Congenital Heart Disease
- Advanced Neuromonitoring to Improve Neurodevelopmental Outcomes in Neonates with Single Ventricle Heart Disease
- The Role of Palliative Care in Fetal Cardiovascular Conditions
- CHD Surgery in the Premature Newborn

CONFERENCE BROCHURE

SATURDAY, FEB. 6 *continued*

Pediatric and Congenital Heart Care in the Ambulatory Setting

- Developing and Maintaining a Community-based Fetal Cardiology Network
- Exercise as Medicine for Those with CHD
- 2027 Update on Kawasaki Disease
- Long-term Outcomes After Multisystem Inflammatory Syndrome in Children
- Electronic Medical Record: Friend or Foe?
- Physical Activity in Cardiomyopathy
- Implantable Devices and Ambulatory Electrophysiology in the Pediatric Population
- Hematochezia in Infants with CHD: What Does it Mean?

Bi-Ventricular Balance: Two are Always Better than One!

- Case Presentations and Panel Discussion

Lifespan Trajectory of CHD and Adult Congenital Heart Disease:

- Case Presentations and Panel Discussion

Nursing and Frontline Providers

- Where Are We Going? A Conversation with Our Nursing Leaders About the Next 30 Years of Pediatric Cardiac Nursing

Perfusion and Circulatory Support

- Leave Everything to the Imagination with ECHO



1 – 2 P.M. LUNCH

Nurses: Outdoor Nursing Luncheon

Other Conference Attendees:

Lunch & Learn! Grab a boxed lunch and attend one of these sessions:

- Computational Modeling in Congenital Heart Disease
- Meet the Experts: Clinical Cases and Conundrums – What Would You Do?

2 – 3 P.M. • MODERATED PANEL

Overcoming Barriers to the Advancement of Women in Pediatric and Congenital Heart Care



3 – 5 P.M. • PLENARY SESSION VI

The Knowledge Gap Analysis: What Important Things Have We Learned? What Don't We Know but Need To?

- Applications of AI in Pediatric and Congenital Heart Care: Promise and Potential
- In Imaging and Congenital Heart
- In Peri-operative Intensive Care
- In Pediatric Cardiac Anesthesia
- In Nursing Care for CHD
- In Acute Care Cardiology
- Developing Effective Strategies for CHD Advocacy
- Let's Tie It All Together: What Comes Next for Complex Conditions Like Hypoplastic Left Heart Syndrome?

5 – 6:15 P.M. • POSTER SESSION IV

Selected Abstract Posters Displayed and Discussed with Expert "Professor" Rounds Moderators

Enjoy an evening of science, relaxation and professional socializing to close out a busy day of learning.

6:15 P.M. • ADJOURN

CONFERENCE BROCHURE

SUNDAY, FEB. 7

7 – 8 A.M. • BREAKFAST & EARLY MORNING TOPIC

Breakfast & Early Morning Topics:

- Pearls & Pitfalls: Case Presentations and Lessons Learned

Nursing Breakfast

- Cases That Changed Our Practice: Lessons from the Bedside

8 A.M. – NOON • WORKSHOPS

These Collaborative Learning Experiences Include Lectures, Panels, Case-based Presentations and Audience Q&A

Therapeutic Interventions and Periprocedural Care in Congenital Heart Disease

Topics covered:

- Updates on Surgical Interventions
- Updates on Catheter-based Interventions
- State-of-the-art Cardiac Intensive Care
- ECMO Utilization in 2027
- Quality Improvement to Reduce Lesions After Surgery
- Anesthesia for Congenital Heart Disease
- Role of Innovation
- Quality Improvement in the Intensive Care Unit
- And more!

Life Before Birth

Topics covered:

- Managing Complex Fetal Arrhythmias
- Cardiac Tumors in the Fetus
- Imaging Tricks and Pearls
- Management of Complex Fetal Cardiovascular Conditions
- Placental Complications in CHD
- Extracardiac Anomalies Affecting the Fetal Heart
- Monitoring the Heart During Fetal Surgical Interventions
- Twin-twin Transfusion Syndrome
- Prenatal Counseling
- And more!

Administration and the Business of Delivering Pediatric and Congenital Heart Care

Topics covered:

- CHSS Cardiac Surgical Program Designation/Accreditation
- Large Program Perspectives
- Small Program Perspectives
- Faculty Mentorship
- Operations and Quality Improvement Making Change Stick
- Make-A-Wish and Its Role in the CHD Community
- Chiefs Roundtable Discussion: Challenges and Shared Experiences
- Administrative Leaders Roundtable Discussion: Challenges and Shared Experiences
- And more!

Wellness, Nutrition, Exercise, Mental Health and Managing Life Transitions

Topics covered:

- Frameworks for Improving Cardiovascular Health Across the Lifespan
- Preventative Cardiology: Identifying Risks in the Young and Planning for Lifelong Health
- Cardiomyopathy and Exercise
- Importance of Physical Activity in CHD
- Psychosocial Interventions to Support Parents of Children with Prenatally Diagnosed Congenital Heart Disease
- Mental Health in Fontan Circulation
- And more!

NOON
ADJOURN
See you next year!

