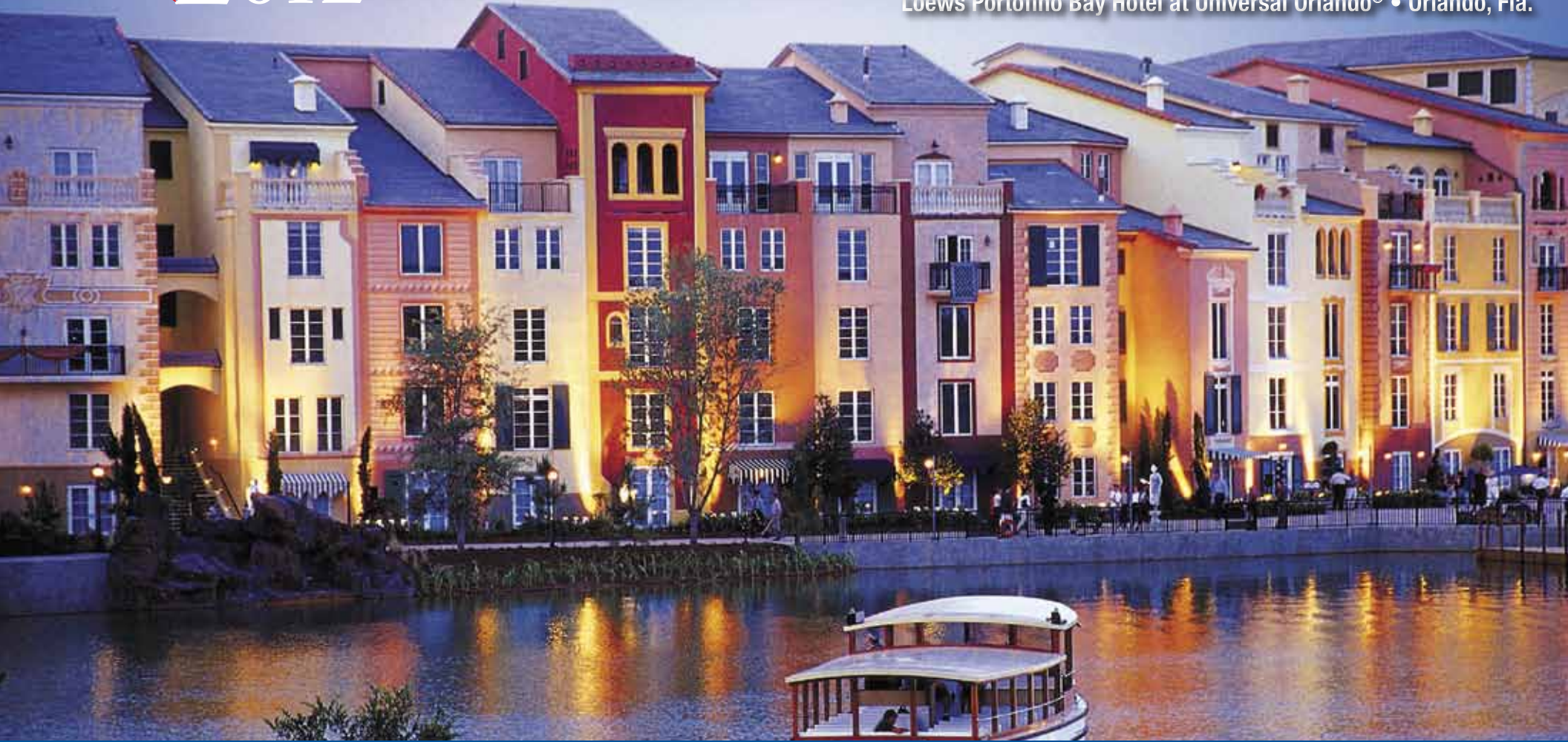


Cardiology
2012

16th Annual Update on Pediatric and Congenital Cardiovascular Disease

February 22 – 26, 2012

Loews Portorino Bay Hotel at Universal Orlando® • Orlando, Fla.



Developing a Lifelong Interdisciplinary Strategy for Your Patient with Congenital Heart Disease

A comprehensive post-graduate course for ACHD specialists, pediatric cardiologists, surgeons, intensivists, nurses, anesthesiologists, sonographers, perfusionists, and all those involved in the care of neonates, infants, children and young adults with cardiovascular disease.

heart.chop.edu/cardiology2012

 The Children's Hospital
of Philadelphia®

 CARDIAC CENTER

Cardiology 2012



Registration and full program available online at heart.chop.edu/cardiology2012.



Dear Colleague:

On behalf of the organizing committee and the Cardiac Center at The Children's Hospital of Philadelphia, we are pleased to present the program for our 16th annual post-graduate course designed for physicians, nurses, sonographers, perfusionists, administrators, clinical pharmacists, respiratory therapists, and all others involved in the care of neonates, infants, children and young adults with cardiovascular disease.

The face of "pediatric cardiology" has radically changed. Just 35-40 years ago, anatomic diagnosis of congenital heart disease was challenging. Pediatric cardiac intensive care and interventional catheterization was in its infancy. Surgical management was improving, although cardiac surgery was associated with a significant risk of mortality and morbidity. And for complex lesions, outcomes into adulthood were unknown.

So many things have improved. Following the dramatic improvements in surgical management and postoperative care, there is a growing group of patients born with CHD now reaching adulthood in numbers never thought possible.

Pediatric and congenital cardiovascular diseases are rarely isolated events that can be treated by a single practitioner. Instead, our patients have chronic conditions with uncertain prognoses and lifelong challenges, and their disease evolves over decades and beyond. Providing optimal care for our patient population mandates an interdisciplinary team approach. This includes a variety of physicians (from cardiology, cardiac surgery, cardiothoracic anesthesia, neonatal and pediatric critical care medicine, and multiple consulting services) as well as specialized nurses, sonographers, social workers, nutritionists, counselors and many, many others.

The outcomes of our treatments require a much longer time frame to understand; our knowledge of the truly long-term sequelae of our past and current treatments is only in its infancy. Increased cooperation between many institutions allows knowledge to be advanced at a more rapid pace. Determining "best practices" — and then sharing them — will ultimately reduce the cost of CHD care delivery.

Importantly, increasing data on the late consequences of CHD management is being gathered in the ACHD population. The long-term findings in young adults with CHD must 'feedback' to those designing current management plans for neonates, infants and children, as well as to those who counsel families following a prenatal diagnosis of CHD. In turn, ACHD specialists must be informed about current therapies that will directly impact their practice in the coming years.

In addition to the progress made in the treatment of CHD, the field of "pediatric cardiology" has changed in other ways as well. Basic and translational research has led to significant advances in our understanding of acquired heart disease in children, especially in the areas of cardiomyopathy and arrhythmias, followed by improved treatment strategies and ultimately outcomes.

Finally, the healthcare delivery system is changing constantly, requiring a more integrated approach between administrators, third-party payers, hospitals and practices.

With this comprehensive and collaborative approach in mind, the Cardiac Center at The Children's Hospital of Philadelphia presents its 16th Annual Post-graduate Course. Each year, the course faculty, topics and format are chosen following a careful assessment of prior attendees' comments and reviews. The course faculty will present more than 50 talks in plenary sessions as well as over 200 talks in small group, subspecialty breakout sessions, covering all areas necessary for comprehensive care of neonates, children and young adults with cardiovascular disease.

Although there are many successful meetings for subspecialists who care for children and young adults with heart disease, this course employs an interdisciplinary faculty from multiple institutions to present a balanced approach to diagnosis and management. We trust that you will leave this conference with a more in-depth understanding of your own discipline and with new ways to improve your practice, as well as with a better appreciation of what your colleagues are accomplishing.

Looking forward to seeing you in Orlando!

Gil Wernovsky, M.D., R.C.
Course Director

Cardiology 2012

Course Objectives

At the completion of this program, the participant will be better able to:

- Implement a plan for multidisciplinary evaluation and follow-up for children with complex congenital heart disease
- Review the latest outcomes of congenital heart surgery, including inpatient management and long-term follow-up
- Describe the risk factors for neurodevelopmental delay in children with congenital heart disease, and better understand which patients to refer for specialized evaluation
- Discuss the current treatment options for consequences of the Fontan operation

Course Highlights

While plenary sessions are designed to address important concepts for all practitioners, breakout sessions are more specifically designed for the subspecialties of:

- Cardiac Intensive Care
- Imaging
- Catheterization
- Electrophysiology
- Cardiac Surgery
- Perfusion
- Cardiac Anesthesia
- Cardiovascular Nursing
- Basic Science
- Ambulatory Cardiology
- Adult CHD

Over 300 talks divided among:

- 8 plenary sessions
- 43 discipline-specific individual breakout sessions
- 6 comprehensive optional preconferences:
 - » Career Planning for Trainees and Junior Faculty
 - » Congenital Heart Disease for the Bedside Nurse: Anatomy, Surgery and Outcomes
 - » Fetal Cardiology
 - » Contemporary Issues in Cardiovascular Administration
 - » Designing the ACHD Program of the Future
 - » CPR and Mechanical Support
- 11 additional sessions, including:
 - » Live Exercise Testing in Adolescents and Young Adults with CHD
 - » Live Echo of the Fetus, Adolescent and Young Adult with CHD
 - » Subspecialty Session on Pediatric and Congenital Cardiovascular Disease, presented in Spanish
 - » Featured Oral and Poster Presentations of Accepted Abstracts
 - » Controversies and Debates
 - » Career Planning

General Information

The conference will be held Wednesday, Feb. 22 through Sunday, Feb. 26 at the Loews Portofino Bay Hotel at Universal Orlando® – Orlando, Fla.

Registration

Registration will take place Wednesday, Feb. 22, from 6:30 a.m. to 6 p.m. and Thursday, Feb. 23, from 6:30 a.m. to 9 a.m.

Fees

The registration fee for the five-day conference is \$895 for physicians and \$595 for other healthcare professionals and physicians-in-training.

In addition to the comprehensive program and course syllabus, the registration fee includes daily continental breakfasts, lunches (Thursday and Friday only), receptions, access to the conference presentation site, and access to an exclusive exhibit of cardiovascular products and educational materials specific to congenital and pediatric cardiovascular disease.

Accreditation Statement

The Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.



AMA Credit Designation Statement

The Children's Hospital of Philadelphia designates this live activity for a maximum of 35 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Physicians registered for one of the six optional preconferences being held Wednesday, Feb. 22, will be eligible to claim an additional maximum of 5.5 *AMA PRA Category 1 Credit(s)*[™].

Nursing Accreditation

An application for Pennsylvania State Nurses Association (PSNA) contact hours will be submitted. The Children's Hospital of Philadelphia is approved as a provider of continuing education in nursing by the PSNA, which is accredited as an approver of continuing education in nursing by the American Nurses Credentialing Center's Commission on Accreditation.

Perfusion Accreditation

An application for CEU Category 1 hours will be submitted.

Services for the Disabled

If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.

Cancellation and Refund Policy

The Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement, The Children's Hospital of Philadelphia will refund registration fees but is not responsible for any related costs or charges assessed by airlines, hotels and travel agencies. In order to process refunds for course withdrawals, cancellations must be received in writing by Feb. 13, 2012. Refunds will be issued for the amount of registration less a \$75 service charge.

Hotel

A block of rooms has been reserved at the Loews Portofino Bay Hotel at Universal Orlando®. The group rate is \$260 single or double occupancy plus a 12.5 percent room tax. Participants are required to reserve their own hotel accommodations by calling the hotel directly at 1-866-360-7395. For the reduced conference rate, mention the name of this conference when making your reservation. The conference rate covers Feb. 20 – Feb. 26, 2012, and will be available only until Friday, Jan. 27, 2012. Reservations made after Jan. 27 will be accepted on space and rate availability.

Program At A Glance

Wednesday, Feb. 22	Thursday, Feb. 23	Friday, Feb. 24	Saturday, Feb. 25	Sunday, Feb. 26
	BREAKFAST	BREAKFAST		
			BREAKFAST	BREAKFAST
	Hot Topics in Pediatric and Congenital Heart Disease	Fellows Jeopardy!	Featured Lectures: Cardiology, Critical Care, Surgery, Nursing and Basic Science	Planning Lifelong Care for Patients with a Single Ventricle
Optional Pre-conferences 1. Career Planning for Trainees and Junior Faculty 2. Basics of CHD and Cardiac Surgery for the Bedside Nurse and Frontline Providers: Anatomy, Surgery, Post-operative Care and Outcomes 3. Fetal Cardiology 4. Contemporary Issues in CV Administration 5. Designing the ACHD Program of the Future 6. CPR and Mechanical Support in Children with CHD <i>Includes box lunch</i>		<ul style="list-style-type: none"> Live Imaging of Complex CHD Live Exercise Testing in Patients with CHD Intensive Care Issues in Single Ventricle Patients Echo and Cardiac Resynchronization Cardiac Catheterization Pediatric Perfusion Ambulatory Cardiology International Aid & Cardiac Missions Basic & Translational Science NAPCO/NAPCAC 	Presentation of the Outstanding Investigator and Nursing Scientist Awards	
	BREAK Poster Sessions • Visit the Exhibits		BREAK	BREAK
	<ul style="list-style-type: none"> Surgical & ICU Care Ambulatory Cardiology Strategies in Cardiac Catheterization Imaging the ACHD Patient Invasive Electrophysiology Defining & Measuring Quality of Care New Strategies in Perfusion I Fetal Research New Insights into Cardiac Development 	BREAK Poster Sessions • Visit the Exhibits	<ul style="list-style-type: none"> Redefining Hybrids Imaging Anesthesia and Pain Management Pulmonary Hypertension Adult CHD Patients in a Children's Hospital Perfusion Roundtable 	<ul style="list-style-type: none"> Role of CV Nursing in High-risk, Long-term Care Troubleshooting Pacemakers Exercise and the Patient with CHD
	BREAK Box Lunch Provided • Visit the Exhibits	<ul style="list-style-type: none"> Live Imaging of Complex CHD Live Exercise Testing in Patients with CHD Cardiac Surgery /Intensive Care Temporary Pacing in the ICU Interventional Cardiology Simulation Session: E-CPR Non-invasive Imaging Ambulatory CV Nursing Ambulatory Cardiology Service Line Partnerships 	BREAK	
BREAK	<ul style="list-style-type: none"> Hands-on Anatomic Specimens Surgical & ICU Care of the Neonate and Infant Electrophysiology for the General Cardiologist Assessment of Ventricular Function Catheterization in ACHD Patients Featured Nursing Research/Oral Abstracts Session in Spanish New Strategies and Practices in Perfusion Fetal Research II CV Administration 	BREAK • Box Lunch Provided Visit the Exhibits	The Hazards of Interdisciplinary Care Across the Age Spectrum	
		Cardiology Jeopardy!		
		Featured Oral Abstract Presentations		
		BREAK • Poster Sessions • Visit the Exhibits	BREAK	Adjourn
		CHD and the Brain	Innovation and Disruptive Thinking in CHD	
			Dinner on your own	
		Topics in Congenital Cardiac Surgery	9:15 – 11:15 p.m.	
			Closing Reception at The Wizarding World of Harry Potter™	
Adjourn/Dinner on your own	Adjourn • Dinner on your own	Adjourn/Dinner on your own		



Plenary Sessions



Breakout Sessions

Preconference #1

Basics of CHD and Cardiac Surgery for the Bedside Nurse and Front-line Provider: Anatomy, Surgery, Postoperative Care and Outcomes

The Basics

Moderators: Kathryn M. Dodds, R.N., M.S.N., C.R.N.P.; Cathy Smith, R.N., C.R.N.P.

- 8 a.m. **Embryology and Morphology of the Structurally Normal Heart**
Robert H. Anderson, M.D.
- 8:15 a.m. **ECHO: What Do the Images Show Anyway?**
David Goldberg, M.D.
- 8:30 a.m. **What Should You Know About Cardiopulmonary Bypass and Pattern Recognition After Neonatal Cardiac Surgery**
Gil Wernovsky, M.D.
- 8:50 a.m. **Postoperative Arrhythmias: What Are They? Who Is at Risk? What Should You Do?**
Mitchell I. Cohen, M.D.
- 9:10 a.m. **Bedside Preparation and Anticipation**
Patricia Siefert, R.N., C.R.N.P.; Sheryl Leo, R.N.
- 9:30 –
9:45 a.m. **Break**
- Biventricular CHD in the Neonate, Infant and Young Child**
Moderators: Andrea Torzone Jameson, R.N., C.R.N.P., C.N.S.; Cathy Smith, R.N., C.R.N.P.
- 9:45 a.m. **Transposition of the Great Arteries**
Anatomy – Paul Weinberg, M.D.
Surgery – James Quintessenza, M.D.
Postoperative Care and Outcomes – Kathryn M. Dodds, R.N., M.S.N., C.R.N.P.
- 10 a.m. **Truncus Arteriosus**
Anatomy – Paul Weinberg, M.D.
Surgery – James Quintessenza, M.D.
Postoperative Care and Outcomes – Kathryn M. Dodds, R.N., M.S.N., C.R.N.P.

- 10:15 a.m. **Total Anomalous Pulmonary Venous Return**
Anatomy – Paul Weinberg, M.D.
Surgery – James Quintessenza, M.D.
Postoperative Care and Outcomes – Jo Ann Nieves, R.N., C.R.N.P.
- 10:30 a.m. **Ventricular Septal Defect**
Morphology – Robert H. Anderson, M.D.
Surgery – William M. DeCampli, M.D.
Postoperative Care and Outcomes – Patricia Siefert, R.N., C.R.N.P.
- 10:45 a.m. **Atrioventricular Septal Defect/Complete Atrioventricular Canal**
Morphology – Robert H. Anderson, M.D.
Surgery – William M. DeCampli, M.D.
Postoperative Care and Outcomes – Andrea Torzone Jameson, R.N., C.R.N.P., C.N.S.
- 11 a.m. **Tetralogy of Fallot**
Morphology – Robert H. Anderson, M.D.
Surgery – William M. DeCampli, M.D.
Postoperative Care and Outcomes – Andrea Torzone Jameson, R.N., C.R.N.P., C.N.S.
- 11:15 a.m. **Atrial Septal Defect**
Morphology – Robert H. Anderson, M.D.
Surgery – William M. DeCampli, M.D.
Postoperative Care and Outcomes – Denise Haddocks, R.N.
- 11:30 a.m. **Coarctation**
Morphology – Robert H. Anderson, M.D.
Surgery – William M. DeCampli, M.D.
Postoperative Care and Outcomes – Sheryl Leo, R.N.
- 11:45 a.m. –
12:15 p.m. **Lunch**

continued

Single Ventricle CHD: The Neonate

Moderators: Jo Ann Nieves, R.N., C.R.N.P.; Kathryn M. Dodds, R.N., M.S.N., C.R.N.P.

- 12:15 p.m. **Anatomy of Tricuspid Atresia, Pulmonary Atresia/Intact Ventricular Septum and Hypoplastic Left Heart Syndrome**
Robert Anderson, M.D.
- 12:30 p.m. **Single Ventricle Physiology: How the Blood Goes Around**
Gil Wernovsky, M.D.
- 12:45 p.m. **How I Rearrange “How The Blood Goes Around”: Shunts, Bands, the Norwood Procedure**
James S. Tweddell, M.D.
- 1 p.m. **Postoperative Care Following Neonatal Palliation for Single Ventricle**
Gil Wernovsky, M.D.
- 1:15 p.m. **Postoperative Care Following the Hybrid Procedure**
Sharon Hill, R.N., Ph.D.(c)
- 1:30 p.m. **Discharge Planning and Home Monitoring**
Jo Ann Nieves, R.N., C.R.N.P.

Single Ventricle CHD: Staged Reconstruction in the Infant and Child

Moderators: Andrea Torzone Jameson, R.N., C.R.N.P., C.N.S.;
Cathy Smith, R.N., C.R.N.P.

- 1:45 p.m. **Second and Third Stage Reconstructions: Bidirectional Glenn, Hemi-Fontan, Kawashima, Fontan Modifications**
Anatomic Specimens – Paul Weinberg, M.D.
Surgery – Thomas L. Spray, M.D.
- 2:20 p.m. **Routine Postoperative Care and Management of Early Complications: Monitoring, Mechanical Ventilation, Arrhythmias, Effusions, Chylothorax, Stroke and Thrombus**
Kathryn M. Dodds, R.N., M.S.N., C.R.N.P.
- 2:45 p.m. **Q/A**
- 3 p.m. **Adjourn**



Using a multidisciplinary team approach and high-fidelity simulation technology, participants will simulate and observe case-based scenarios of the prearrest and arrest phases of cardiopulmonary resuscitation in patients with congenital heart disease. Furthermore, resuscitative modalities, such as eCPR and ECMO, will be simulated.

- 8 a.m. **Welcome and Conference Goals**
Stacie Peddy, M.D.; Catherine Allan, M.D.
- 8:15 a.m. **New Concepts in Resuscitation Science**
Vinay Nadkarni, M.D.
- 8:40 a.m. **eCPR: Current Strategies and Results**
Stacie Peddy, M.D.; Harun Fakioglu, M.D.
- 9 a.m. **Long-term Mechanical Support in Neonates, Infants and Children**
J. William Gaynor, M.D.
- 9:20 a.m. **Hands-on Simulation Session**
- 10:30 a.m. **Break**
- 10:45 a.m. **Hands-on Simulation Session**

- Noon **Lunch Lecture: Simulation at Children’s Hospital Boston: Lessons Learned**
Catherine Allan, M.D.
- 1 p.m. **Considerations for the Bedside Nurse**
Christopher Beaty, R.N.
- 1:20 p.m. **Troubleshooting the Pump**
Richard Melchior, C.C.P.; Monica Olsen, C.C.P.
- 1:40 p.m. **Long-term Outcomes Following eCPR**
Chitra Ravishankar, M.D.
- 2 p.m. **Hands-On Simulation Session**
Additional Faculty:
Roberta L. Hales, M.H.A., R.R.T.-N.P.S., R.N.
Javier Lasa, M.D.
- 3 p.m. **Adjourn**

ANESTHESIA/ICU

NURSING

SURG/PERF

Moderators: Yuli Kim, M.D.; David Drajpuch, C.R.N.P.

Background and Essential Elements

- 8 a.m. **Building a Program in a Freestanding Children’s Hospital**
Yuli Kim, M.D.
- 8:20 a.m. **Building a Program in an Adult Hospital**
Craig Broberg, M.D.
- 8:40 a.m. **Credentialing and Assuring Quality of ACHD Programs**
Amy Verstappen, M.Ed.
- 9 a.m. **Essential Elements in a Transition Program**
Adrienne Kovacs, Ph.D.
- 9:20 a.m. **Ambulatory Nursing Considerations**
David Drajpuch, C.R.N.P.
- 9:40 a.m. **Inpatient Nursing Considerations**
Kathy Gover, R.N.
- 10 a.m. **Panel Discussion**
- 10:20 a.m. **Break**

Personnel and Training

- 10:40 a.m. **Training the ACHD Cardiologist of the Future**
Michael Landzberg, M.D.
- 11 a.m. **Training the ACHD Surgeon of the Future**
Thomas L. Spray, M.D.
- 11:20 a.m. **The Role of the Congenital Interventionist Across the Age Spectrum**
Matthew Gillespie, M.D.
- 11:40 a.m. **The Role of the Electrophysiologist Across the Age Spectrum**
Edward P. Walsh, M.D.
- Noon **Imaging Considerations**
Luc Mertens, M.D.
- 12:20 p.m. **Panel Discussion**
- 12:45 p.m. **Box Lunch**

Reality Check 2012: What Works (and What Doesn’t) at My Program for My Inpatients and Outpatients?

Moderators: Adrienne Kovacs, Ph.D.; David Drajpuch, C.R.N.P.

- 1:15 p.m. Michael Landzberg, M.D., Boston, Mass.
- 1:30 p.m. Craig Broberg, M.D., Portland, Ore.
- 1:45 p.m. Brian Kogon, M.D., Atlanta, Ga.
- 2 p.m. Luc Mertens, M.D., Toronto, Calif.
- 2:15 p.m. David Nykanen, M.D., Orlando, Fla.
- 2:30 p.m. Yuli Kim, M.D., Philadelphia, Pa.
- 2:45 p.m. **Panel Discussion/Next Steps**
- 3 p.m. **Adjourn**

ACHD
NURSING
PED CARD

Moderators: Jack Rychik, M.D.; Norman Silverman, M.D.

- 8 a.m. **Application of Doppler Techniques in Understanding Fetal Physiology**
Anita Szawast, M.D.
- 8:20 a.m. **Functional MRI in the Fetus**
Mark Fogel, M.D.
- Anatomy, Pathophysiology and Management in the Fetus**
- 8:40 a.m. **Tetralogy of Fallot**
Ismee Williams, M.D.
- 9 a.m. **Hypoplastic Left Heart Syndrome**
Shobha Natarajan, M.D.
- 9:20 a.m. **Ebstein's Anomaly and Tricuspid Valve Dysplasia**
Bettina Cuneo, M.D.
- 9:40 a.m. **The Heterotaxy Syndrome: A Heterogeneous Condition**
Anita Szawast, M.D.
- 10 a.m. **Q/A**
- 10:30 a.m. **Break**
- 11 a.m. **Masses and Weak Walls: Tumors and Aneurysms of the Fetal Heart**
Norman Silverman, M.D.

- 11:30 a.m. **What Can Cardiac Structure Tell Us About the Genes?**
Elizabeth Goldmuntz, M.D.
- Noon **Essential Elements of Prenatal Counseling for CHD**
Jack Rychik, M.D.
- 12:30 p.m. **Lunch**
- 1 p.m. **Fetal Arrhythmias: Fast and Slow**
Bettina Cuneo, M.D.
- 1:30 p.m. **Heart Failure in the Fetus**
Jack Rychik, M.D.
- 2 p.m. **The Systolic Diastolic Ratio in the Fetus**
Norman Silverman, M.D.
- 2:30 p.m. **My Most Fascinating Case of the Year**
Faculty

FETAL

IMAGING

PED CARD



Session 1: The Starter Job

Moderators: *Eric Graham, M.D.; Alan Friedman, M.D.*

8 a.m. **What I Look for in Candidates**
Robert Shaddy, M.D.

8:15 a.m. **Multitasking**
Eric Graham, M.D.

8:30 a.m. **Timelines**
William Mahle, M.D.

8:45 a.m. **Identifying Research Directions**
Daniel Penny, M.D.

9 a.m. **Constructing a Talk**
Andrew Redington, M.D.

9:15 a.m. **Saying No: How and When**
Meryl Cohen, M.D.

9:30 a.m. **Discussion**

10 a.m. **Break**

Session 2: The Job Hunt

Moderators: *Meryl Cohen, M.D.; Lisa D'Alessandro, M.D.*

10:30 a.m. **Before the Job Search**
Timothy Feltes, M.D.

10:45 a.m. **The Job Search**
Robert Shaddy, M.D.

11 a.m. **The Interview Day**
Richard Friedman, M.D.

11:15 a.m. **After the Interview**
Alan Friedman, M.D.

11:30 a.m. **Academic Tracks**
Girish Shirali, M.D.

11:45 a.m. **Discussion**

12:15 p.m. **Lunch**

Session 3: Practicalities

Moderators: *David Goldberg, M.D.; Girish Shirali, M.D.*

12:45 p.m. **The Private Practice Option**
Mitchell Cohen, M.D.

1 p.m. **Financial Realities in the Private Setting**
David Nykanen, M.D.

1:15 p.m. **Financial Realities in the Academic Setting**
Robert Shaddy, M.D.

1:30 p.m. **First Job or Life Plan**
Timothy Feltes, M.D.

1:45 p.m. **Work-life Imbalance**
Girish Shirali, M.D.

2 p.m. **They Never Told Me About This!: Little Secrets,
Learned the Hard Way, by New Attending Physicians,
That Somehow Didn't Get Discussed in the Job
Interview**
Faculty

2:30 p.m. **Discussion**

3 p.m. **Adjourn**

ADMIN

PED CARD

8 a.m.
Round Table: The Current State of Data Management for Pediatric Heart Programs: What Are We Missing?

Moderators: Mary Jo Timlin-Hoag, R.N., M.S.N., M.P.H.; Kay Stewart Huey

- Robert Campbell, M.D.
- Kenneth McCardle, M.S.
- Sara Pasquali, M.D.
- Jeffrey Jacobs, M.D.

10 a.m. Break

10:30 a.m.
Pediatric Cardiac Program Overviews: Compare and Contrast Pediatric Heart Program Infrastructure Across the Globe

Moderators: Maryanne Kessel, R.N., M.B.A.; Daniel Penny, M.D.

Uruguay – Roberto Canessa, M.D., Italian Hospital of Montevideo

Brazil – Carlos Pedra, M.D., Instituto Dante Pazzanese de Cardiologia

England – Allan Goldman, M.D., Great Ormond Street Hospital, London

Canada – Andrew Redington, M.D., Hospital for Sick Children, Canada

U.S.A. – Susan Collins, M.B.A., R.N., All Children's Hospital/Johns Hopkins

Australia – Daniel Penny, M.D., Texas Children's Hospital

Panel Discussion

12:30 p.m. Box Lunch

Moderators: Robert Campbell, M.D.; Stuart Berger, M.D.

1 p.m. Solving the Cost Crisis in Healthcare: Principles of Value-based Healthcare Delivery and the Time-driven Activity-based Costing (TDABC) Approach

Mary Witkowski, M.B.A.

2 p.m. How Does This Apply to Pediatric Cardiac Care?

Faculty

3 p.m. Adjourn

3:45 p.m. **Welcome and Course Introduction**
Gil Wernovsky, M.D.

Case-based Learning: Using an example of a neonate with interruption of the aortic arch, ventricular septal defect and 22q11.2 deletion syndrome, the course faculty will discuss pertinent aspects of care relevant to many other children with complex CHD and an associated genetic syndrome.

Diagnosis and Early Management

Moderators: Gil Wernovsky, M.D.; Thomas L. Spray, M.D.

4 p.m. **Case Presentation/Genetics of DiGeorge Syndrome**
Lisa D'Alessandro, M.D.

4:10 p.m. **Anatomy of Interrupted Aortic Arch**
Robert H. Anderson, M.D.; Paul Weinberg, M.D.

4:30 p.m. **DiGeorge Syndrome – Clinical Manifestations**
Elizabeth Goldmuntz, M.D.

4:45 p.m. **Fetal Counseling**
Craig Fleishman, M.D.

5 p.m. **Preoperative Stabilization**
Andrew M. Atz, M.D.

5:10 p.m. **Surgical Management and Risk Factors for Reintervention**
Victor Morell, M.D.

5:30 p.m. **Postoperative Care**
Lara Shekerdeman, M.D.

5:45 p.m. **Panel Discussion**

6 p.m. **Short Break**

Follow-up and Transition to ACHD Care

Moderators: Jack Rychik, M.D.; Yuli Kim, M.D.

6:30 p.m. **Outpatient Follow-up and Diagnostic Testing**
Chitra Ravishankar, M.D.

6:45 p.m. **Semi-Lunar Valves Are Not Created Equally**
H. Scott Baldwin, M.D.

7 p.m. **Management of Late LV Outflow Tract Obstruction**
Thomas L. Spray, M.D.

7:15 p.m. **Management of Late Arch Obstruction**
Matthew Gillespie, M.D.

7:30 p.m. **Planning Transition and Lifelong Care in the Context of Developmental Disabilities**
Yuli Kim, M.D.

7:45 p.m. **Financial Considerations in Complex CHD**
Gil Wernovsky, M.D.

8 p.m. **Questions/Panel**
What Should the Fetal Cardiologist Say to the Family?
What Should the Ambulatory Cardiologist Do?

8:30 p.m. **Adjourn/Dinner on Your Own**





Moderators: *Edward Bove, M.D.; Robert Shaddy, M.D.*

- 7 a.m. **How Should We Manage the Changelopathies in 2012?**
Michael Ackerman, M.D., Ph.D.
- 7:20 a.m. **Unprecedented Times: Leading in an Era of Uncertainty**
Kathy Gorman, M.S.N.
- 7:40 a.m. **The New CPR: Why They're Called Guidelines (Not Standards)**
Vinay Nadkarni, M.D.
- 8 a.m. **Who We Are ... Nursing and Organizational Characteristics of Pediatric Cardiovascular Critical Care in the United States**
Patricia Hickey, R.N., M.B.A., Ph.D.
- 8:20 a.m. **Update on the World Congress of Pediatric Cardiology and Cardiac Surgery**
Christopher Hugo-Hamman, M.D.
- 8:30 a.m. **Update on the Pediatric Heart Network**
Jonathan Kaltman, M.D.
- 8:50 a.m. **Update on the IMPACT Registry**
Jonathan J. Rome, M.D.
- 9:10 a.m. **"CHD Awareness" Is Not Enough: Advocacy 101 for Pediatric Cardiovascular Practitioners**
Amy Verstappen, M.Ed.
- 9:30 a.m. **Challenges and Outcomes of In-house Deliveries of CHD in a Freestanding Children's Hospital**
Jack Rychik, M.D.
- 9:50 a.m. **Tribute to Charles S. Kleinman, M.D.**
- 10 a.m. **Break/Poster Session/Visit the Exhibits**

Subspecialty Breakout Session #1

Surgical and ICU Care of the Neonate and Infant: Part I
Moderators: Anthony Rossi, M.D.; Lara Shekerdemian, M.D.

- 11 a.m. **Perioperative Steroids: Current Knowledge**
Eric Graham, M.D.
- 11:20 a.m. **The Relationship Between Inflammatory Activation and Clinical Outcome After Infant Cardiopulmonary Bypass**
Catherine Allan, M.D.
- 11:40 a.m. **Nutritional Considerations Before and After Neonatal Surgery**
Chitra Ravishankar, M.D.
- Noon **How Should Nitric Oxide Be Used in the Neonatal CHD Patient in 2012?**
Dunbar Ivy, M.D.
- 12:20 p.m. **Experience with Sildenafil in Neonates and Infants After Heart Surgery**
Brian Hanna, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/
 Visit the Exhibits**

Subspecialty Breakout Session #2

Ambulatory Cardiology
Moderators: Jeffrey Boris, M.D.; Stephen M. Paridon, M.D.

- 11 a.m. **A Nurse Practitioner Model Improves Clinic Efficiency**
Julianne Evangelista, R.N., D.N.P.
- 11:20 a.m. **The Impact of Registry Follow-up on Clinic Flow**
William Mable, M.D.
- 11:40 a.m. **Resource Utilization for Outpatient Cardiology Practice**
Patrick Frias, M.D.
- Noon **Teaching How to Communicate with Patients and Families**
Jeffrey Boris, M.D.
- 12:20 p.m. **Use of the iPad as an Educational Tool in the Clinic**
Alan Friedman, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/
 Visit the Exhibits**

Subspecialty Breakout Session #3

New Strategies in Cardiac Catheterization
Moderators: Matthew Gillespie, M.D.; Edward L. Bove, M.D.

- 11 a.m. **Role of Exit Angiography After Surgical Procedures**
Sharon Hill, R.N., Ph.D.(c)
- 11:20 a.m. **3-D Rotational Angiography**
David Nykanen, M.D.
- 11:40 a.m. **XMRI**
Jonathan J. Rome, M.D.
- Noon **Will There Ever Be a Transcatheter Fontan?**
Mark Galantowicz, M.D.
- 12:20 p.m. **Treatment of Coarctation of the Aorta in the Adult**
Carlos Pedra, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/
 Visit the Exhibits**

ANESTHESIA/ICU

NURSING

PED CARD

SURG/PERF

PED CARD

CATH

PED CARD

Subspecialty Breakout Session #4

Imaging in the ACHD Patient

Moderators: Michael Landzberg, M.D.; Craig Broberg, M.D.

- 11 a.m. **Structuring a Pediatric Echocardiography Laboratory for Training of ACHD Fellows**
Peter Frommelt, M.D.
- 11:20 a.m. **Structuring a Pediatric Cath Lab for Training of ACHD Fellows**
Michael Landzberg, M.D.
- 11:40 a.m. **Myocardial Fibrosis in ACHD**
Craig Broberg, M.D.
- Noon **Role of Cardiac Magnetic Resonance Imaging in the Evaluation of Pulmonary Insufficiency in Tetralogy of Fallot**
Michael Puchalski, M.D.
- 12:20 p.m. **Exercise DURING MRI: New Technology**
Kevin Whitehead, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**

Subspecialty Breakout Session #5

Current Questions in Invasive EP

Moderators: Mitchell Cohen, M.D.; Edward P. Walsh, M.D.

- 11 a.m. **Asymptomatic HCM: Sitting on an ICD Fence?**
Ronn Tanel, M.D.
- 11:20 a.m. **VT in CHD: Ablate or Device?**
Richard Friedman, M.D., M.B.A.
- 11:40 a.m. **VT in Structurally Normal Heart: Ablate or Device?**
Rodrigo Nehgme, M.D.
- Noon **SVT in CHD: Medication and/or Ablation?**
Edward P. Walsh, M.D.
- 12:20 p.m. **Should Every Adolescent with WPW Have an Ablation?**
Pro: Jonathan Kaltman, M.D.
Con: Ramesh Iyer, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**

Subspecialty Breakout Session #6

Defining and Measuring Quality of Care

Moderators: Michael Apkon, M.D., M.B.A.; Kathy Gorman, R.N., M.S.N.

- 11 a.m. **Impact of Team Dynamics and Culture on Patient Safety**
David Cooper, M.D., M.P.H.; Geoffrey Bird, M.D., M.S.I.S.; Stuart Berger, M.D.
- 11:20 a.m. **Q/A**
- 11:30 a.m. **Quality Indicators for Congenital and Pediatric Cardiac Surgery**
The STS Database – Jeffrey Jacobs, M.D.
Linking Large Databases – Sara Pasquali, M.D.
- 11:50 a.m. **Q/A**
- Noon **Measuring and Improving Staff Productivity**
Robert Shaddy, M.D.
- 12:20 p.m. **Measuring and Improving Patient Handover**
Timothy Feltes, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**

ACHD
IMAGING
PED CARD

EP
PED CARD

ADMIN
ANESTHESIA/ICU
PED CARD
SURG/PERF

Subspecialty Breakout Session #7

New Strategies in Perfusion I

Moderator: James Quintessenza, M.D.

- 11 a.m. **Mechanical Assist for Failing Fontan**
Brian Kogon, M.D.
- 11:20 a.m. **Pediatric Mechanical Support: Current Strategies**
Tami Rosenthal, C.C.P., M.B.A.
- 11:40 a.m. **ECMO: View from the Frontline**
Christopher Beaty, R.N.
- Noon **ECMO: Use in ACHD Patients**
William Harris, C.C.P.
- 12:20 p.m. **ECMO: Optimal Anticoagulation**
Samuel Weinstein, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/
Visit the Exhibits**

Subspecialty Breakout Session #8

What's New in Fetal Research?

Moderators: Norman Silverman, M.D.; Anita Szawast, M.D.

- 11 a.m. **Impact on Left-sided Growth and Cerebral Blood Flow Following Fetal Intervention**
Doff McElhinney, M.D.
- 11:20 a.m. **Laser Photocoagulation in Twin-Twin Transfusion Syndrome: Impact Upon the CV System**
Jack Rychik, M.D.
- 11:40 a.m. **Maternal Hyperoxygenation to Assess the Fetal Pulmonary Vasculature**
Anita Szawast, M.D.
- Noon **Insights into Right Ventricular Function in the Fetus with Hypoplastic Left Heart Syndrome**
Shobha Natarajan, M.D.
- 12:20 p.m. **Fetal Magnetocardiography in Identifying Fetal Arrhythmias**
Bettina Cuneo, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/
Visit the Exhibits**

Subspecialty Breakout Session #9

Cardiac Development: New Insights

Moderators: Robert H. Anderson, M.D.; Jonathan Epstein, M.D.

- 11 a.m. **The Role of the Endocardium in Regulating Cardiac Development**
H. Scott Baldwin, M.D.
- 11:20 a.m. **The Development of the Pulmonary Veins**
Karl Degenhardt, M.D., Ph.D.
- 11:40 a.m. **The Development of the Outflow Tracts**
Jonathan Epstein, M.D.
- Noon **The Development of the Right Ventricle**
Robert H. Anderson, M.D.
- 12:20 p.m. **The Role of Folate in the Development of Conotruncal Lesions**
Elizabeth Goldmuntz, M.D.
- 12:40 p.m. **Adjourn/Box Lunch Provided/
Visit the Exhibits**

ANESTHESIA/ICU

NURSING

SURG/PERF

IMAGING

FETAL

PED CARD

BASIC SCI

FETAL

PED CARD

Subspecialty Breakout Session #10

Surgical and ICU Care of the Neonate and Infant: Part II

Moderators: Geoffrey L. Bird, M.D., M.S.I.S.; Andrew M. Atz, M.D.

- 1:30 p.m. **Measuring Lactate Is Great (or Is It Too Late?)**
Anthony F. Rossi, M.D.
- 1:50 p.m. **Outcomes in Premature Neonates with CHD**
Catherine Allan, M.D.
- 2:10 p.m. **Indications and Current Results of Peritoneal Dialysis in Neonates and Infants After Cardiac Surgery**
David Cooper, M.D., M.P.H.
- 2:30 p.m. **Seizures After Neonatal Heart Surgery: Etiology, Frequency and Predictive Validity**
J. William Gaynor, M.D.
- 2:50 p.m. **Surgical Management of Cardiac Tumors in Neonates and Infants**
Brian Kogon, M.D.
- 3:10 p.m. **RBC Transfusions Following Neonatal and Infant Surgery: What Are the Risks? Are There Proven Benefits?**
Karen Harrington, M.D.
- 3:30 p.m. **Adjourn**

Subspecialty Breakout Session #11

Electrophysiology for the General Cardiologist

Moderator: Stuart Berger, M.D.

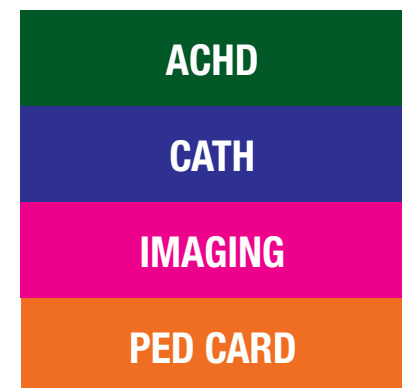
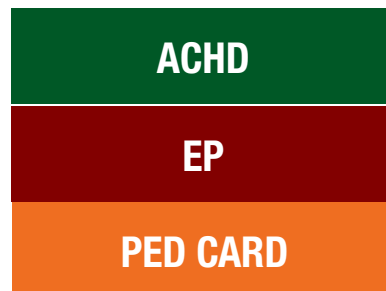
- 1:30 p.m. **Psychosocial Needs of the Pediatric EP Population**
Adrienne Kovacs, Ph.D.
- 1:50 p.m. **How I Manage Borderline QT Prolongation**
Michael Ackerman, M.D., Ph.D.
- 2:10 p.m. **How I Manage Exercise-induced Syncope (with a Normal Echo)**
Ronn Tanel, M.D.
- 2:30 p.m. **How I Manage Couplets and Non-sustained VT After Repair of CHD**
Edward P. Walsh, M.D.
- 2:50 p.m. **Brugada and CPVT: How to Avoid Missing It**
Victoria L. Vetter, M.D.
- 3:10 p.m. **How Do Electrophysiologic Abnormalities Affect Health-related Quality of Life?**
Bradley S. Marino, M.D., M.P.P., M.S.C.E.
- 3:30 p.m. **Adjourn**

Subspecialty Breakout Session #12

Catheterization in the ACHD Patient

Moderators: Jonathan J. Rome, M.D.; David Nykanen, M.D.

- 1:30 p.m. **Debate: Patients Should be Offered a Melody Valve Even if They do Not Meet Indications for Surgical Pulmonary Valve Replacement**
Pro: Matthew Gillespie, M.D.
Con: TBD
- 2 p.m. **Treatment of Coarctation of the Aorta in the Adult**
Carlos Pedra, M.D.
- 2:20 p.m. **Clinical Trials/Clinical Practice for PFO Closure: MIST, Closure I and the Death of a Company**
Michael Landzberg, M.D.
- 2:40 p.m. **One-Stop-Shop: EP, Intervention and Hemodynamics in ACHD Patients**
Matthew Gillespie, M.D.; Ramesh Iyer, M.D.
- 3 p.m. **Debate: Echocardiographers Get in the Way of Efficient Transcatheter ASD Closure**
Pro: David Nykanen, M.D.
Con: Craig Fleishman, M.D.
- 3:30 p.m. **Adjourn**



Subspecialty Breakout Session #13

Assessment of Ventricular Function: Choosing the Right Method for the Right Patient at the Right Time
Moderators: Daniel Penny, M.D.; Andrew Redington, M.D.

- 1:30 p.m. **Assessment in the Fetus: Have Techniques Improved?**
David Goldberg, M.D.
- 1:50 p.m. **Ventricular Function and Dyssynchrony in the Single Ventricle Patient**
Peter Frommelt, M.D.
- 2:10 p.m. **Echo Assessment of Regional RV Function in CHD: Does It Matter?**
Luc Mertens, M.D.
- 2:30 p.m. **Assessment of Ventricular Performance Early After Surgery for CHD**
Girish Shirali, M.D.
- 2:50 p.m. **What the Pediatric Cardiologist Can Learn from the Adult Echocardiographer About Ventricular Function**
Craig Broberg, M.D.
- 3:10 p.m. **New Insights into Molecular Mechanisms: Neuregulin**
H. Scott Baldwin, M.D.
- 3:30 p.m. **Adjourn**

Subspecialty Breakout Session #14

Featured Nursing Research/Oral Abstracts
Moderators: Kathleen Mussatto, R.N., Ph.D.; Kathryn M. Dodds, R.N., M.S.N., C.R.N.P.

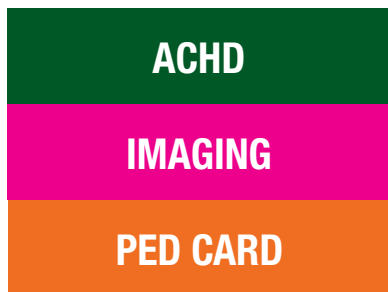
- 1:30 p.m. **Oral Abstract Competition (10-minute presentation, 5-minute discussion)**
Featuring the top six submitted abstracts in competition for the 5th Annual Nursing Scientist Award
- 3:30 p.m. **Adjourn**

Sesión de Subespecialidad #15

Actualiza en Enfermedad Cardiovascular Pediátrica y Congénita. Esta Sesión Extraordinaria Será Presentada en Español

Moderadores: Javier Lasa, M.D.; Victor Morell, M.D.

- 1:30 p.m. **Atresia Pulmonar con Septum Íntegro Aspectos de Circulación Extracorpórea en Pacientes con Circulación Coronaria Dependiente del Ventrículo Derecho**
Monica Olsen, C.C.P. (USA)
- Estrategias Medicas, Quirúrgicas e Intervencionales – Carlos Pedra, M.D.; Simone Pedra, M.D. (Brazil)**
- 2 p.m. **Preguntas y Respuestas**
- 2:10 p.m. **Doble Salida de Ventrículo Derecho Estrategias Medicas y Quirúrgicas y Resultados – Dante Picarelli, M.D.; Roberto Canessa, M.D. (Uruguay)**
- 2:30 p.m. **Preguntas y Respuestas**
- 2:40 p.m. **Síndrome de Corazón Izquierdo Hipoplásico Estrategias Quirúrgicas y Resultados – Jose da Silva, M.D. (Brazil)**
- Obstáculos y Éxitos en Formar Programas de Monitoreo en el Hogar**
Jo Ann Nieves, R.N., M.S.N., C.P.N.P. (USA)
- 3:10 p.m. **Preguntas y Respuestas**
- 3:20 p.m. **Consecuencias Electrofisiológicas en Pacientes con Ventrículo Único**
Rodrigo Nebgme, M.D. (USA)
- 3:40 p.m. **Preguntas y Respuestas**



Subspecialty Breakout Session #16

New Strategies and Current Practices in Perfusion: Quick Hits
Moderators: William Harris, C.C.P.; William M. DeCampli, M.D., Ph.D.

- 1:30 p.m. **Clinical Experiences with Integrated Arterial Line Filtration**
Richard Melchior, C.C.P.
- 1:45 p.m. **Strategies to Improve Bedside Nursing Competence with the Berlin Heart**
Shanna Miko Chapman, M.S.N., R.N.-B.C., C.P.N.
- 2 p.m. **Blood Usage in Pediatric Cardiac Surgery**
Colleen Gruenwald, C.C.P.
- 2:15 p.m. **Bloodless Pediatric Heart Surgery**
Mark Galantowicz, M.D.
- 2:30 p.m. **Update on Aprotinin**
James Tweddell, M.D.
- 2:45 p.m. **Recombinant Factor VIIa**
Hamish Munro, M.D.
- 3 p.m. **Creative Strategies for Post-cardiotomy Cardiopulmonary Support**
Dante Picarelli, M.D.
- 3:15 p.m. **Heparin Alternatives for Pediatric CPB and ECMO Anticoagulation**
Monica Olsen, C.C.P.
- 3:30 p.m. **Adjourn**

Subspecialty Breakout Session #17

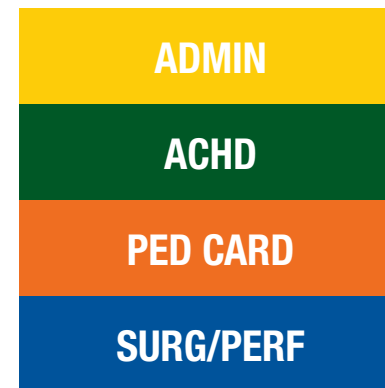
Fetal Research II
Moderators: Jack Rychik, M.D.; Bettina Cuneo, M.D.

- 1:30 p.m. **A Complete Understanding of Cardiac Embryology (in 20 minutes)**
Jonathan Epstein, M.D.
- 1:50 p.m. **Maternal Stress Following Prenatal Diagnosis of CHD**
Jack Rychik, M.D.
- 2:10 p.m. **Fetal Impact of Maternal Autoimmune Disease**
Bettina Cuneo, M.D.
- 2:30 p.m. **Predicting the Need for Urgent Postnatal Care in TGA**
Norman Silverman, M.D.
- 2:50 p.m. **Influence of Anatomical Variability on Fetal Cerebrovascular Resistance**
Anita Szawast, M.D.
- 3:10 p.m. **Does a Prenatal Diagnosis of CHD Impact Outcomes?**
Isme Williams, M.D.
- 3:30 p.m. **Adjourn**

Subspecialty Breakout Session #18

Administrative Round Table
Moderators: Mary Jo Timlin-Hoag, R.N., M.S.N., M.P.H.; Timothy Feltes, M.D.

- 1:30 p.m. **Academic Infrastructure vs. Service Line Structure: Blow It Up or Matrix**
 An interactive session to review challenges and solutions for academic infrastructure alignment. — *Steven Altschuler, M.D.; Martin Elliott, M.D.; Carolyn Kenny, M.H.A.; Gretchen Penton, R.D.C.S., M.B.A.; Robert Shaddy, M.D.; Sara Steines, M.P.P.*
Moderators: Gil Wernovsky, M.D.; Robert Campbell, M.D.
- 2:45 p.m. **Private-practice Cardiologists and Referrals to Surgical Programs: How to Maintain Continuity of Care**
 An interactive, case-based session to review systems and human factors important to maintain continuity of care, safe transfer of information and fiscal responsibility.
Jim Quintessenza, M.D.; William Mable, M.D.; Timothy Feltes, M.D.; Terry Anderson, M.D.
- 3:30 p.m. **Adjourn**



Thursday, Feb. 23 • 1:30 – 3:30 p.m. • Cardiac Specimens from the Van Mierop Collection

Diane Spicer, B.S., P.A. (A.S.C.P.), Robert H. Anderson, M.D., and Paul Weinberg, M.D.

An Interactive, Hands-on Session with On-site Specimens from the Van Mierop Archive at the University of Florida



Moderator: Alan Friedman, M.D.

4 p.m. Looking Back/Looking Forward: How Would YOU Design Your Fellowship?

An interactive session featuring division chiefs and training program directors from multiple institutions designed for medical students, residents, fellows and junior faculty.

- *H. Scott Baldwin, M.D.; Chief, Division of Pediatric Cardiology, Vanderbilt University Medical Center, Nashville, Tenn.*
- *Edward L. Bove, M.D.; Co-director, Michigan Congenital Heart Center, Ann Arbor, Mich.*
- *Barry Byrne, M.D., Ph.D.; Associate Chair of Pediatrics, University of Florida, Gainesville, Fla.*
- *Robert Campbell, M.D.; Chief of Cardiac Services, Director, Sibley Heart Center, Atlanta, Ga.*
- *Jonathan Epstein, M.D.; Chair, Department of Cell and Developmental Biology, Scientific Director, Penn Cardiovascular Institute*
- *Timothy Feltes, M.D.; Co-director, Heart Center, Nationwide Children's Hospital, Columbus, Ohio*
- *Richard Friedman, M.D.; Chief, Division of Pediatric Cardiology, Morgan Stanley Children's Hospital*
- *Mark Galantowicz; Co-director, Heart Center, Nationwide Children's Hospital, Columbus, Ohio*
- *William Greeley, M.D.; Chief, Department of Anesthesia and Critical Care Medicine, The Children's Hospital of Philadelphia, Philadelphia, Pa.*
- *Dunbar Ivy, M.D.; Chief, Division of Pediatric Cardiology, The Children's Hospital, Denver, Colo.*
- *Michael Landzberg, M.D.; Director, Boston Adult Congenital Heart Service*
- *Victor Morell, M.D.; Chief, Cardiac Surgery, Children's Hospital of Pittsburgh, Pittsburgh, Pa.*
- *Vinay Nadkarni, M.D.; Medical Director, Center for Simulation, Advanced Education and Innovation, The Children's Hospital of Philadelphia, Philadelphia, Pa.*
- *David Nykanen, M.D.; Medical Director, Congenital Heart Institute, Orlando, Fla.*
- *Daniel Penny, M.D.; Chief, Division of Pediatric Cardiology, Texas Children's Hospital, Houston, Texas*
- *Andrew Redington, M.D.; Chief, Division of Pediatric Cardiology, Hospital for Sick Children, Toronto, Canada*
- *Robert Shaddy, M.D.; Chief, Division of Pediatric Cardiology, The Children's Hospital of Philadelphia, Philadelphia, Pa.*

4:30 p.m. How Can I Deal with All This Debt?

A unique opportunity for those early in their medical career. Ms. Chatzky is a financial journalist, the financial editor for NBC's *Today* show, a contributing editor for *More* magazine and *USA WEEKEND* magazine, and a columnist for the *New York Daily News*. She is a member of the Communications Committee for the University of Pennsylvania. Go to www.jeanchatzky.com for more details.
Jean Chatzky

5 p.m. Anatomy with the Professors

An interactive session featuring specimens from the Van Mierop Collection and video-archived specimens from the Cardiac Registry at The Children's Hospital of Philadelphia. Likely to contain "nomenclature controversy," and certain to be both educational and entertaining.
Paul M. Weinberg, M.D.
Robert H. Anderson, M.D.
Diane Spicer, M.D.

6 p.m. Adjourn/Dinner on Your Own

6 – 6:30 p.m. Fellow and Junior Faculty Reception

ACHD

CAREER TRACK

PED CARD

**Session B: Controversies in Outpatient Cardiology:
“Routine” Screening, ADHD and Sudden Cardiac Death**

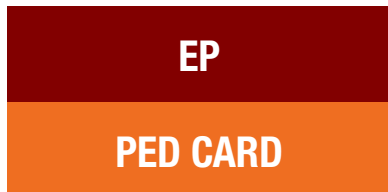
Moderators: *Edward P. Walsh, M.D.; Stuart Berger, M.D.*

- 4 p.m. **Implementation of Pulse Oximetry Prior to Hospital Discharge for Healthy Newborns: Pros and Cons**
Terry Anderson, M.D.
- 4:20 p.m. **ADHD and the Pediatric Cardiologist: A Review**
Victoria L Vetter, M.D.
- 4:45 p.m. **A Meta-analysis of Sudden Death in Children**
Mitchell I. Cohen, M.D.
- 5 p.m. **Cost-effectiveness of Routine ECG Screening**
Jonathan Kaltman, M.D.
- 5:15 p.m. **Cost-effectiveness and Implementation of a Preventative AED Program**
Stuart Berger, M.D.
- 5:30 p.m. **Sports Clearance: A Practical Approach**
Robert Campbell, M.D.
- 5:45 p.m. **Panel Discussion**
- 6 p.m. **Adjourn/Dinner on Your Own**

Session C: Controversies in Inpatient Management of CHD

Moderators: *Catherine Allan, M.D.; Geoffrey Bird, M.D.*

- 4 p.m. **Elective Delayed Sternal Closure: Is It Evidence Based?**
Sara Pasquali, M.D.
- 4:20 p.m. **Critically Ill Patients with CHD Should Be Cared for in Dedicated Cardiac Intensive Care Units**
Pro: David S. Cooper, M.D., M.P.H.
Con: Gil Wernovsky, M.D.
- 4:50 p.m. **Is ECMO Worth It? When Should We Stop It?**
Allan Goldman, M.D.
- 5:10 p.m. **When Should the Pulmonary Valve Be Replaced?**
James Quintessenza, M.D.
- 5:30 p.m. **Risks and Benefits of Noninvasive and Invasive Monitoring**
Use as Much as Possible – Anthony Rossi, M.D.
Use as Little as Possible – Thomas L. Spray, M.D.
- 6 p.m. **Adjourn/Dinner on Your Own**



Session D: Workshop for Cardiac Nurses: Questions Surrounding the Decision to Go Back to School for an Advanced Degree

Moderators: Kim Delaney, R.N.; Linda Goss, R.N., M.S.N.

Join the nursing faculty for a unique opportunity to learn from your colleagues who have made the decision to change their career path and advance their education.

- 4 p.m. Wow, This Is Expensive! How Can I Pay for This?**
Jean Chatzky (See Page 22 and www.jeanchatzky.com for more details.)
- 4:20 p.m. Why Even Bother?**
Patricia Hickey, R.N., Ph.D., M.B.A.

A MASTER'S DEGREE IN NURSING

- 4:40 p.m. What Type of M.S.N. Is Right for Me?**
Andrea Torzone Jameson, R.N., C.R.N.P., C.N.S.
- 4:45 p.m. Panel Discussion**
Andrea Torzone Jameson, R.N., C.R.N.P., C.N.S.
Kerri Lombardi, C.R.N.P.
Karen Iacono, C.R.N.P.
Damaris Amaya, C.R.N.P.
David Drajpuch, C.R.N.P.
Jo Ann Nieves, C.R.N.P.
Shanna Miko Chapman, M.S.N.
Patricia Siefert, C.R.N.P.
Cathy Smith, C.R.N.P.
Alyson Stagg, C.R.N.P.

A DOCTORATE IN NURSING

- 5 p.m. What Type of Doctorate Is Right for Me?**
Julianne Evangelista, R.N., D.N.P.
Sharon Hill, R.N., Ph.D.(c)
- 5:10 p.m. Panel Discussion**
Julianne Evangelista, R.N., D.N.P.
Sharon Hill, R.N., Ph.D.(c)
Kathleen Mussatto, R.N., Ph.D.

WHAT'S NECESSARY TO BE AN ADMINISTRATOR?

- 5:20 p.m. So Many Options!**
Alexis Perri, R.N., M.S.N., N.E.-B.C.
- 5:30 p.m. Panel Discussion**
Alexis Perri, R.N., M.S.N., N.E.-B.C.
Patricia Hickey, R.N., Ph.D., M.B.A.
Kathy Gover, R.N., B.S.N.
Linda Goss, R.N., M.S.N.
Kathy Gorman, R.N., M.S.N.
Mary Jo Timlin-Hoag, R.N., M.S.N., M.P.H.
Madeline Bell, R.N., M.S.O.D., M.Phil.

- 6 – 6:30 p.m. Nursing Reception**

ADMIN

NURSING

7 – 7:50 a.m.

Special Sunrise Session: Fellows Jeopardy!

Join host Michael Brook, M.D., (as Alex Trebek) as teams of fellows from children's hospitals compete for the title!

Live Interactive Sessions

Comprehensive Echocardiography in the Patient with Complex CHD

Join the echo faculty as they perform live imaging on patients with complex CHD. Emphasis will be on representing protocol-driven strategies for consistent data acquisition across the age spectrum. Learn to match the types of available protocols to the specific questions based upon the CHD, age of the patient and clinical concerns. Audience participation encouraged.

8 – 10 a.m. Session A

Moderators: Meryl S. Cohen, M.D.; Craig Fleishman, M.D.

11 a.m. – 1 p.m. Session B

Moderators: Girish Shirali, M.D.; David Goldberg, M.D.; Craig Fleishman, M.D.

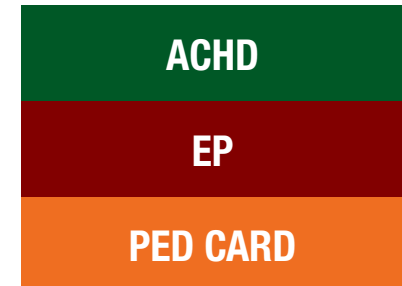
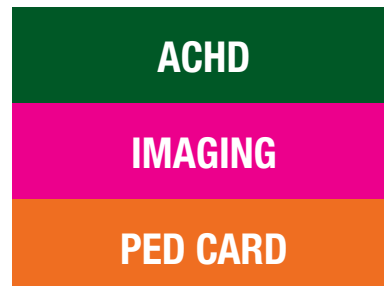
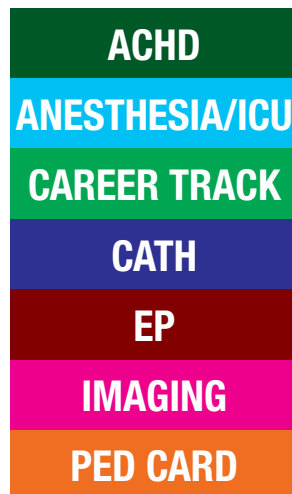
Live Interactive Sessions

Exercise Testing in the Adolescent and Adult with CHD
Moderators: Michael McBride, Ph.D.; Stephen Paridon, M.D.

Join the exercise physiologists during this interactive session as patients with CHD undergo formal exercise testing. Strengths and benefits of treadmill, bicycle and other forms of exercise testing will be demonstrated as patients with CHD undergo standardized protocols. Learn to match the types of available protocols to the specific questions based upon the CHD, age of the patient and clinical concerns.

8 – 10 a.m. Session A

11 a.m. – 1 p.m. Session B



Subspecialty Breakout Session #19

Intensive Care Unit Issues in the Single Ventricle Patient
Moderators: Allan Goldman, M.D.; Gil Wernovsky, M.D.

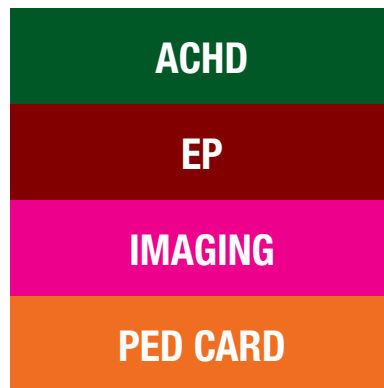
- 8 a.m. **Risk Factors for Preoperative Mortality in HLHS: Results from the SVR Trial**
Andrew M. Atz, M.D.
- 8:20 a.m. **Incidence and Risk Factors for Tracheostomy and/or Gastrostomy Following Stage I Reconstruction**
Anthony F. Rossi, M.D.
- 8:40 a.m. **Short- and Long-term Results of Rescue ECMO Following Stage I Reconstruction**
Chitra Ravishankar, M.D.
- 9 a.m. **What Should the ICU Staff Say to Families About Long-term Outcomes ... and When Should They Say It?**
Shanna Miko Chapman, M.S.N., R.N.-B.C., C.P.N.
- 9:20 a.m. **The Impact of a Prenatal Diagnosis on the Perioperative Course in HLHS**
Daniel Penny, M.D.
- 9:40 a.m. **Effects of Mechanical Ventilation Following Bidirectional Glenn and Fontan Procedures: Oxygenation, Cardiac Output and Cerebral Blood Flow**
Eric Graham, M.D.
- 10 a.m. **Break/Poster Session/Visit the Exhibits**



Subspecialty Breakout Session #20

Echo and Cardiac Resynchronization Therapy
Moderators: Edward P. Walsh, M.D.; Luc Mertens, M.D.

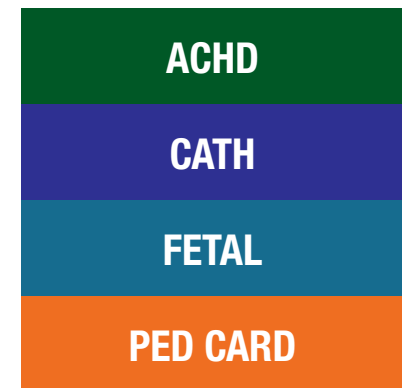
- 8 a.m. **Can Adult CRT Devices Be Extrapolated to Children?**
Richard Friedman, M.D., M.B.A.
- 8:20 a.m. **How I Assess Diastology for the Electrophysiologist**
Michael Brook, M.D.
- 8:40 a.m. **CRT for the Systemic LV: Indications and Timing**
Ramesh Iyer, M.D.
- 9 a.m. **CRT for the Systemic RV: Indications and Timing**
Mitchell Cohen, M.D.
- 9:20 a.m. **Assessing Effectiveness of CRT after Implantation**
Luc Mertens, M.D.
- 9:40 a.m. **Panel Discussion**
- 10 a.m. **Break/Poster Session/Visit the Exhibits**



Subspecialty Breakout Session #21

Cardiac Catheterization: State of the Art
Moderator: Jonathan J. Rome, M.D.

- 8 a.m. **Evolving Strategies in Transcatheter Pulmonary Valve Replacement**
Ziyad Hijazi, M.D.
- 8:20 a.m. **Updated Results: Percutaneous Melody Valve Implantation**
Doff McElhinney, M.D.
- 8:40 a.m. **From Conception to Maturity: Building a Fetal Therapy Program**
Carlos Pedra, M.D.; Simone Pedra, M.D.
- 9 a.m. **What Do We Really Know About Collaterals and the Single Ventricle Patient?**
Jonathan J. Rome, M.D.
- 9:20 a.m. **Transcatheter PDA Closure in the Premature Infant**
Matthew Gillespie, M.D.
- 9:40 a.m. **Risks of Cardiac Catheterization in CHD: Data from the CCISC**
David Nykanen, M.D.
- 10 a.m. **Break/Poster Session/Visit the Exhibits**



Subspecialty Breakout Session #22

Controversies in Pediatric Perfusion

Moderators: James Quintessenza, M.D.; Edward L. Bove, M.D.

- 8 a.m. **Single Ventricle Support with a VAD**
*Andrea Torzone Jameson, R.N., M.S.N.,
C.R.N.P., C.N.S.*
- 8:20 a.m. **Heparin or Protamine: A Randomized
Trial**
Colleen Gruenwald, C.C.P.
- 8:40 a.m. **Deep Hypothermic Circulatory Arrest Is
Useful and Safer Than Regional
Perfusion in Selected Cases**
*Pro: Thomas L. Spray, M.D.
Con: Dean Andropoulos, M.D.*
- 9 a.m. **Discussion and Q/A**
- 9:10 a.m. **Intraoperative Cerebral NIRS for
Targeted, Nonemergent Perfusion
Management Is Standard of Care**
*Pro: William DeCampi, M.D., Ph.D.
Con: J. William Gaynor, M.D.*
- 9:50 a.m. **Discussion and Q/A**
- 10 a.m. **Break/Poster Session/Visit the Exhibits**

Subspecialty Breakout Session #23

Ambulatory Cardiology

Moderators: Stuart Berger, M.D.; Terry Anderson, M.D.

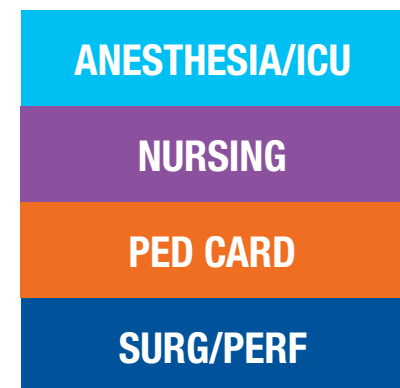
- 8 a.m. **Update on Kawasaki Disease**
Brian McCrindle, M.D.
- 8:20 a.m. **Cardiac Diseases in Genetic Syndromes**
Elizabeth Goldmuntz, M.D.
- 8:40 a.m. **Bicuspid Aortic Valve: Best Practices**
William Mahle, M.D.
- 9 a.m. **Arrhythmogenic Right Ventricular
Dysplasia/Cardiomyopathy**
Robert Shaddy, M.D.
- 9:20 a.m. **Syncope: What's Going Down?**
Jeffrey Boris, M.D.
- 9:40 a.m. **Cardiac Manifestations of Systemic
Disease**
Roberto Canessa, M.D.
- 10 a.m. **Break/Poster Session/Visit the Exhibits**

Subspecialty Breakout Session #24

International Aid and Cardiac Missions

Moderator: Jeffrey Jacobs, M.D.

- 8 a.m. **Cardiac Surgical Missions: Lessons
Learned from Jamaica**
Creating Sustainable Partnerships
Jeffrey Jacobs, M.D.
- Logistics for a Successful Mission**
Jennifer Carapelluci, R.N.
- 8:30 a.m. **Challenges and Successes in Latin
America**
Samuel Weinstein, M.D.
- 9 a.m. **Essential Elements of an International
Team**
Mark Galantowicz, M.D.
- 9:30 a.m. **Panel Discussion**
- 10 a.m. **Break/Poster Session/Visit the Exhibits**



Subspecialty Breakout Session #25

Basic and Translational Science

Moderator: Jonathan Epstein, M.D.

- 8 a.m. **Clinical Implications of Genetic Mutations in the Management of Pulmonary Hypertension**
Erika Berman Rosenzweig, M.D.

- 8:20 a.m. **Regulation of the Neural Tube and Neural Crest**
Karl Degenhardt, M.D., Ph.D.

- 8:40 a.m. **Development of the Atrioventricular Canal**
Robert Anderson, M.D.

- 9 a.m. **Gene Therapy for Ventilatory Failure in Neuromuscular Disease**
Barry Byrne, M.D.

- 9:20 a.m. **The Role of Nonendothelial Cells in Pulmonary Hypertension**
Dunbar Ivy, M.D.

- 9:40 a.m. **The Role of Nonmyocardial Cells in Cardiac Function and Repair**
H. Scott Baldwin, M.D.

- 10 a.m. **Break/Poster Session/Visit the Exhibits**

Subspecialty Breakout Session #26

8 a.m.

Annual Breakfast Meeting

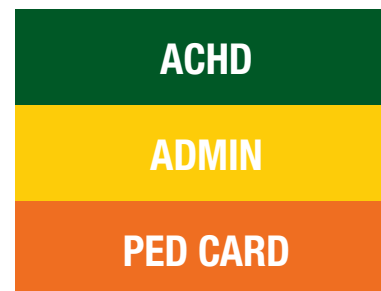
- North Atlantic Pediatric Cardiology Organization (NAPCO)
- North American Pediatric Cardiovascular Administrator Consortium (NAPCAC)

How Did We Get Here and Where Are We Going?

Facilitators: Robert Campbell, M.D.; Maryanne Kessel, R.N., M.B.A.

- Review of the Last 12 Months and Results from the ACC Cardiovascular Care Summit 2012

10 a.m. **Break/Poster Session/Visit the Exhibits**



Subspecialty Breakout Session #27

Cardiac Surgery and Intensive Care

Moderators: *Bradley S. Marino, M.D., M.P.P., M.S.C.E.;*
Brian Kogon, M.D.

- 11 a.m. **Pulmonary Root Translocation for TGA/VSD/PS**
Jose da Silva, M.D.
- 11:20 a.m. **Cardiopulmonary Interaction: New Modes of Mechanical Ventilation**
Andrew Redington, M.D.
- 11:40 a.m. **Impact of Age at Repair of Unobstructed Total Anomalous Pulmonary Venous Return on Perioperative Morbidity**
James S. Tweddell, M.D.
- Noon **Does Intraoperative Temperature Make a Difference in Outcome?**
Lara Shekerdeman, M.D.
- 12:20 p.m. **What's New in Medical Management of Postoperative Heart Failure?**
Daniel Penny, M.D.
- 12:40 p.m. **Handover and Communication Between the Cardiac Surgeon and Cardiac ICU Team**
Victor Morell, M.D.; Geoffrey Bird, M.D.
- 1 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**

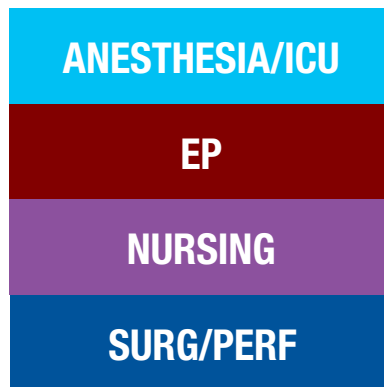


Subspecialty Breakout Session #28

Emergency Temporary Pacing in the ICU

Join Drs. Mitchell Cohen, Edward Walsh and Rodrigo Nehgme for a practical review of temporary pacing at the bedside (hands-on), how to do an atrial electrogram, acute management of tachyarrhythmias and much more!

1 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**

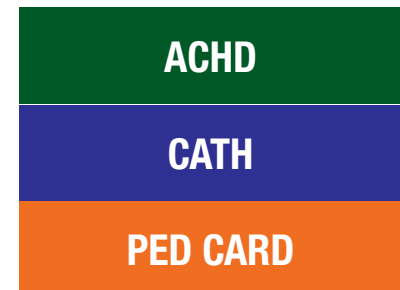


Subspecialty Breakout Session #29

New Directions in Interventional Cardiology

Moderator: *Michael Landzberg, M.D.*

- 11 a.m. **Coronary Interventions in ACHD**
Michael Landzberg, M.D.
- 11:20 a.m. **Experimental Studies on Expanded Application of Melody Valve**
Matthew Gillespie, M.D.
- 11:40 a.m. **Off-label Use of the Melody Valve in CHD**
Doff McElhinney, M.D.
- Noon **Device Closure of TE Fistula**
Carlos Pedra, M.D.
- 12:20 p.m. **The Developing Role of the Nurse Practitioner in Interventional Cardiology**
Karen Iacono, R.N.
- 12:40 p.m. **Collaborating with Your Surgeon: Do's and Don'ts**
James Quintessenza, M.D.
- 1 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**



Subspecialty Breakout Session #30

Simulation Session: E-CPR in the Neonate with Single Ventricle

Using a multidisciplinary team approach and high-fidelity simulation technology, participants will observe a case-based scenario of eCPR in a postoperative patient with single ventricle.

- 11 a.m. **Factors Associated with Cardiac Arrest After Stage I Norwood**
Javier Lasa, M.D.
- 11:15 a.m. **Neck vs. Chest Cannulation?**
Samuel Weinstein, M.D.
- 11:30 a.m. **How Fast Should I Flow?**
Tami Rosenthal, C.C.P., M.B.A.
- 11:45 a.m. **Temperature and Glucose Control on ECMO: Can We Extrapolate Existing Data to the Neonate with Single Ventricle Following Cardiac Arrest?**
Vinay Nadkarni, M.D.
- Noon **Case-based Learning: Simulated Cardiac Arrest Additional faculty:**
Stacie Peddy, M.D.; Catherine Allan, M.D.; Christopher Beaty, R.N.; Harun Fakioglu, M.D.; Richard Melchior, C.C.P.; Monica Olsen, C.C.P.
- 1 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**

Subspecialty Breakout Session #31

Noninvasive Potpourri

Moderators: Mark Fogel, M.D.; Peter Frommelt, M.D.

- 11 a.m. **ALCAPA**
Meryl Cohen, M.D.
- 11:20 a.m. **Echo Assessment of Intramural Coronary Arteries**
Alan Freidman, M.D.
- 11:40 a.m. **Delayed Enhancement MRI in Cardiomyopathy**
Michael Puchalski, M.D.
- Noon **Echocardiographic Assessment of AV Valve Function**
Peter Frommelt, M.D.
- 12:20 p.m. **Assessment of Arch Anomalies by Echo and MRI**
Kevin Whitehead, M.D.
- 12:40 p.m. **Spongy Myocardium**
Norman Silverman, M.D.
- 1 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**

Subspecialty Breakout Session #32

Cardiovascular Nursing in the Ambulatory Setting: Quick Hits

Moderators: Cathy Smith, R.N.; Julianne Evangelista, R.N., D.N.P.

- 11 a.m. **Overview: Anti-Arrhythmic Medications**
Damaris Amaya, C.R.N.P.
- 11:15 a.m. **Outpatient Issues for the Transplant Recipient**
Jennifer Carapelluci, R.N.
- 11:30 a.m. **Pediatric Nurse Practitioner Managed Cardiology Clinics: Patient Satisfaction and Appointment Access**
Julianne Evangelista, R.N., D.N.P.
- 11:45 a.m. **Staffing and Resources in a 23-hour-stay Cardiac Facility**
Linda Goss, R.N., M.S.N.
- Noon **Discharge Planning to Maximize Parent Education Prior to Outpatient Follow-up**
Andrea Torzone Jameson, R.N., M.S.N., C.R.N.P., C.N.S.
- 12:15 p.m. **Essential Elements of a Preprocedure Visit**
Kerri Lombardi, M.S.N.
- 12:30 p.m. **Essential Elements of a Postprocedure Visit**
Patricia Siefert, R.N., M.S.N.
- 12:45 p.m. **Emergent Intervention in the Outpatient Setting**
Cathy Smith, R.N., C.R.N.P.
- 1 p.m. **Adjourn/Box Lunch Provided/ Visit the Exhibits**

ANESTHESIA/ICU

NURSING

SURG/PERF

IMAGING

PED CARD

NURSING

Subspecialty Breakout Session # 33

Ambulatory Cardiology: Quick Hits

Moderators: Jeffrey Boris, M.D.; Patrick Frias, M.D.

- 11 a.m. **The Special Needs of the Adolescent Patient: Practical Aspects to Improve Transition**
Adrienne Kovacs, Ph.D.
- 11:15 a.m. **Contraception and Birth Control: How to Counsel**
Yuli Kim, M.D.
- 11:30 a.m. **Assessment of Endothelial Function and Its Role in the Management of Cardiovascular Disease**
Shobha Natarajan, M.D.
- 11:45 p.m. **Late Status of Fontan Patients with Persistent Surgical Fenestration**
Andrew M. Atz, M.D.
- Noon **The Impact of Obesity and Hypertension on Adults with Congenital Heart Disease**
Meryl Cohen, M.D.
- 12:15 p.m. **Anti-hypertensives and Statins: What's New and When Are They Indicated in Children?**
Brian McCrindle, M.D.
- 12:30 p.m. **Early Repolarization Causes Sudden Cardiac Death? Really?**
Patrick Frias, M.D.
- 12:45 p.m. **Hypertension: It's Not Just for Nephrologists**
Jeffrey Boris, M.D.
- 1 p.m. **Adjourn/Box Lunch Provided/
Visit the Exhibits**

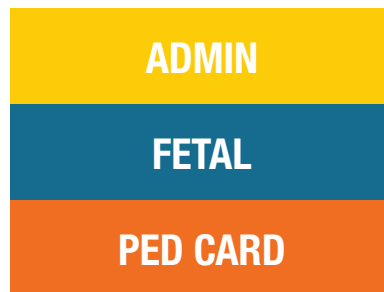


Subspecialty Breakout Session #34

Cardiovascular Service Line Partnerships

Moderators: Mary Jo Timlin-Hoag, R.N., M.H.A.; Kay Stewart Huey

- 11 a.m. **Optimal Approach to Developing and Implementing a New Fetal Program**
Mary Beth Martin, B.S.N., R.N., M.B.A.
- 11:20 a.m. **The Multiple Partnerships Necessary for a Fetal Heart Program**
Jack Rychik, M.D.
- 11:40 a.m. **Behind the Political Locked Door: Healthcare Reform From an Insider's Perspective**
Sara Steines, M.P.P. (former healthcare reform adviser to Sen. Russ Feingold)
- Noon **Data Governance Perspective**
Kenneth McCardle, M.S.
- 12:20 p.m. **The Importance of Philanthropy**
General Guidelines – John Bozard
Physician and Staff Engagement – Robert Campbell, M.D.
- 12:40 p.m. **Physician as Administrator**
Michael Apkon, M.D., M.B.A., C.M.O.
- 1 p.m. **Adjourn/Box Lunch Provided/
Visit the Exhibits**



Friday, Feb. 24 • 2 p.m. • Afternoon Plenary Session • Cardiology Jeopardy!

- 2 p.m. **Cardiology Jeopardy!**
"I'll Take Septal Defects for \$200, Alex!"
- 3 p.m. **Featured Oral Abstract Presentations**
Featuring the top six submitted abstracts in competition for the 9th Annual Outstanding Investigator Award
Moderators: Bradley S. Marino, M.D., M.P.P., M.S.C.E.; David Goldberg, M.D.
- 4 p.m. **Break, Posters, Exhibits**

4:30 p.m. • Plenary Session 3 • CHD and the Brain: From Fetal Origins to Lifelong Success

Moderators: Lara Shekerdeman, M.D.; J. William Gaynor, M.D.

- | | | | |
|-----------|---|-----------|---|
| 4:30 p.m. | How Significant Is It, Really?
<i>Kathleen Mussatto, R.N., Ph.D.</i> | 5:15 p.m. | What Can Be Done with Anesthetic and Analgesic Strategies to Maximize Long-term Outcomes?
<i>Aruna Nathan, M.B.B.S.</i> |
| 4:45 p.m. | Fetal Origins: Is There Congenital Brain Disease?
<i>Ismee Williams, M.D.</i> | 5:30 p.m. | What Can Be Done in the ICU and After Hospital Discharge to Maximize Long-term Outcomes?
<i>Gil Wernovsky, M.D.</i> |
| 5 p.m. | What Can Be Done with Perfusion Strategies to Maximize Long-term Outcomes?
<i>J. William Gaynor, M.D.</i> | 5:45 p.m. | Measuring Health-related Quality of Life: What Can We Modify?
<i>Bradley S. Marino, M.D., M.P.P., M.S.C.E.</i> |

6 p.m. • Plenary Session 4 • Hot Topics in Cardiac Surgery

Moderators: Mark Galantowicz, M.D.; James Tweddell, M.D.

- | | | | |
|-----------|--|-----------|---|
| 6 p.m. | The Cone Technique for Ebstein's Anomaly
<i>Jose da Silva, M.D.</i> | 7 p.m. | Center Variation in Cost and Outcomes for CHD Surgery
<i>Sara Pasquali, M.D.</i> |
| 6:15 p.m. | Surgical Decision-making in cc-TGA
<i>Edward L. Bove, M.D.</i> | 7:15 p.m. | Does Replacement of the Pulmonary Valve in Tetralogy Impact Ventricular Ectopy and/or Reduce the Risk of Sudden Death?
<i>Edward P. Walsh, M.D.</i> |
| 6:30 p.m. | The Kawashima Procedure
<i>Dante Picarelli, M.D.</i> | 7:40 p.m. | Adjourn/Dinner on Your Own |
| 6:45 p.m. | Learning from 86,297 Congenital Heart Operations: Where Do I Start?
<i>Jeffrey P. Jacobs, M.D.</i> | | |

Saturday, Feb. 25 • Plenary Session 5 • Featured Lectures

Moderators: Robert E. Shaddy, M.D.; Thomas L. Spray, M.D.

- 7:15 a.m. **5th Annual Jack Downes Lecture in Cardiac Anesthesia and Critical Care**
Can Healthcare Be Fixed?
Allan Goldman, M.D.
- 7:45 a.m. **13th Annual C. Walton Lillehei Memorial Lecture in Cardiovascular Surgery**
Invisible Problems: Lessons Learned from Comprehensive Perioperative Data Collection
James Tweddell, M.D.
- 8:15 a.m. **13th Annual Featured Lecture in Cardiovascular Nursing: T. Garrett Rauch Memorial Lecture**
One Parent's Perspective: Helping Patient Families Deal with the Nonmedical Challenges of CHD
Jean Chatzky
- 8:45 a.m. **11th Annual William J. Rashkind Memorial Lecture in Pediatric Cardiology**
A Short History of Progress
Gil Wernovsky, M.D.
- 9:15 a.m. **2nd Annual Featured Lecture in the Cardiovascular Basic and Translational Sciences**
A Tale of Three Myopathies: Mechanisms, Measures and Molecular Medicines
Barry Byrne, M.D.
- 9:45 a.m. **Presentation of the Outstanding Investigator and Nursing Scientist Awards**
Gil Wernovsky, M.D., and Kathryn M. Dodds, R.N., C.R.N.P.
- 10 a.m. **Break/Poster Sessions/Visit the Exhibits**



Saturday, Feb. 25 • 11 a.m. – 1 p.m. • Subspecialty Breakout Session 35

Subspecialty Breakout Session #35

Hybrids 2.0: Beyond HLHS

Moderators: J. William Gaynor, M.D.; Daniel Penny, M.D.

- 11 a.m. **The Evolving Status of the Hybrid Procedure in HLHS**
Mark Galantowicz, M.D.
- 11:20 a.m. **Can Randomized Trials Be Done for Hybrid Procedures?**
Andrew Redington, M.D.
- 11:40 a.m. **Combining New Technology and New Teams**
William M. DeCampi, M.D., Ph.D.; David Nykanen, M.D.
- Noon **One-Stop Shop: Ablation, Intervention and Hemodynamics**
Matthew Gillespie, M.D.; Ramesh Iyer, M.D.

- 12:20 p.m. **The Periventricular Approach to the Complex VSD**
Carlos Pedra, M.D.
- 12:40 p.m. **Hybrid Imaging**
Jonathan J. Rome, M.D., and Jack Rychik, M.D.
- 1 p.m. **Lunch on Your Own**



Subspecialty Breakout Session #36

What's New in Imaging?

Moderators: Alan Friedman, M.D.; Paul Weinberg, M.D.

- 11 a.m. **Mini Echo Machines: Are They Getting Better?**
Michael Brook, M.D.
- 11:20 a.m. **Assessment of Systemic Pulmonary Arterial Collateral Flow in the Single Ventricle Patient**
Kevin Whitehead, M.D., Ph.D.
- 11:40 a.m. **New Techniques in 3-D Imaging of CHD**
Girish Shirali, M.D.
- Noon **Prediction of Pulmonary Arteriovenous Malformations by MRI**
Mark Fogel, M.D.
- 12:20 p.m. **Hybrid Imaging in CHD: How Does It Work?**
Craig Fleishman, M.D.
- 12:40 p.m. **Safe Sedation/Anesthesia for MRI Imaging**
Dean Andropoulos, M.D.
- 1 p.m. **Adjourn/Lunch on Your Own**

Subspecialty Breakout Session #37

Cardiac Anesthesia and Pain Management in Patients with CHD Across the Age Spectrum

Moderators: William Greeley, M.D., M.B.A.; Harun Fakioglu, M.D.

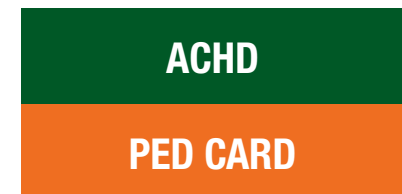
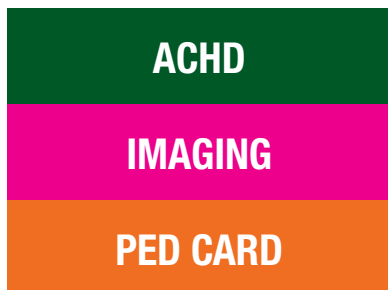
- 11 a.m. **Anesthesia for Noncardiac Surgery in CHD Patients**
Dean Andropoulos, M.D.
- 11:20 a.m. **The Evolving Role of the Cardiac Anesthesiologist in the Cardiac ICU**
William Greeley, M.D., M.B.A.
- 11:40 a.m. **Immediate Postpartum Anesthesia for the Neonate: the IMPACT Procedure**
Aruna Nathan, M.D.
- Noon **Dexmedetomidine: Wonder Drug or Overuse?**
Anesthetic Perspective – Hamish Munro, M.D.
Surgical Perspective – Victor Morell, M.D.
ICU Perspective – Anthony Rossi, M.D.
Nursing Perspective – Shanna Miko Chapman, M.S.N., R.N.-B.C.
- 1 p.m. **Adjourn/Lunch on Your Own**

Subspecialty Breakout Session #38

What's New in Pulmonary Hypertension?

Moderators: Erika Berman Rosenzweig, M.D.; Brian Hanna, M.D., Ph.D.

- 11 a.m. **The Optimal Role of the General Pediatric Cardiologist**
Stuart Berger, M.D.
- 11:20 a.m. **Eisenmenger Syndrome: Current Treatment Options**
Erika Berman Rosenzweig, M.D.
- 11:40 a.m. **Eisenmenger Syndrome: Noninvasive Imaging**
Craig Broberg, M.D.
- Noon **Update on Current Clinical End Points**
Brian Hanna, M.D., Ph.D.
- 12:20 p.m. **Survival and Insights from the U.S. Pediatric Pulmonary Hypertension Reveal Registry**
Dunbar Ivy, M.D.
- 12:40 p.m. **Providing a Safe Anesthetic**
Aruna Nathan, M.D.
- 1 p.m. **Adjourn/Lunch on Your Own**



Subspecialty Breakout Session #39

The Adult in a Children's Hospital: Hopes and Fears

Moderators: Yuli Kim, M.D.; David Drajpuch, M.S.N., R.N., C.R.N.P.

- 11 a.m. **Cardiac Anesthetic Perspective**
Donald Felix, M.D.
- 11:10 a.m. **Electrophysiology Perspective**
Richard Friedman, M.D.
- 11:20 a.m. **Pediatric Nursing Perspective**
Christopher Beaty, R.N.
- 11:30 a.m. **Pediatric Intensivist Perspective**
Catherine Allan, M.D.
- 11:40 a.m. **Surgical Perspective**
Thomas L. Spray, M.D.
- 11:50 a.m. **Interventionalists Perspective on an Adult in a Children's Hospital**
Ziyad Hijazi, M.D.
- Noon **Administrative Perspective**
Hospital – Madeline Bell, R.N., M.S.O.D., M.Phil.
Academic – Robert Shaddy, M.D.
- 12:20 p.m. **The Most Important Perspective: The Patient**
Amy Verstappen, M.Ed.
- 12:30 p.m. **Extended Panel Discussion**
- 1 p.m. **Adjourn/Lunch on Your Own**

Subspecialty Breakout Session #40

Perfusion Round Table

Join the perfusion and surgical faculty for an interactive session discussing contemporary topics and upcoming challenges.

1 p.m. **Adjourn/Lunch on Your Own**



Saturday, Feb. 25 • 2 p.m. • Plenary Session 6 • Are Silos Safer?

Recognizing and Minimizing the Inherent Hazards of Interdisciplinary Care Across the Age Spectrum of CHD

Moderators: Geoffrey Bird, M.D.; Michael Apkon, M.D.; Kathy Gorman, R.N., M.S.N.

- 2 p.m. **Impact of California's Staffing Law on Pediatric Cardiac Surgery Outcomes**
Patricia Hickey, R.N., Ph.D., M.B.A.
- 2:15 p.m. **The Risky Business of Running a Cardiac Service Line: Six Years of Lessons from Defining Moments in the Danger Zones of Aviation, Sport and Elite Performance**
Allan Goldman, M.D.
- 2:30 p.m. **Many, Many Teachers, but Not One Coach: Reconciling Duty, Autonomy and the Learning Curve**
Edward L. Bove, M.D.

2:45 p.m. **The Benefits of Giving Signout Before I Operate: It's Safer to Tell the Story Even Before I Know the Ending**
James Tweddell, M.D.

3 p.m. **New Ways of Understanding Risk and Complexity in Pediatric Cardiac Surgery: The Evolving Promise of Resilience Engineering**
Karen Harrington, M.D.

3:15 p.m. **Handoffs, Fumbles and Interceptions: The Evolving Role of Culture in Communication**
Michael Apkon, M.D.

3:30 p.m. **Panel for Q/A**

3:45 p.m. **Break**



4 p.m. • Plenary Session 7 • Innovation and Disruptive Thinking in CHD

Moderators: Brian McCrindle, M.D.; Jonathan J. Rome, M.D.

- 4:15 p.m. **Have We Learned Anything from Computational Fluid Dynamics?**
William M. DeCampi, M.D., Ph.D.
- 4:30 p.m. **Simulated 3-D Construction of the Fontan Baffle Prior to Surgery**
Mark Fogel, M.D.
- 4:45 p.m. **The CHD Cloud**
Girish Shirali, M.D.
- 5 p.m. **Update on Remote Ischemic Preconditioning**
Andrew Redington, M.D.

CLOSING SESSION

Moderator: Gil Wernovsky, M.D.

- 5:20 **Title TBD**
*Ambassador Ebrahim Rasool
South Africa's Ambassador to the USA*

5:30 p.m. **Update from the Council on Cardiovascular Disease in the Young (CVDY) of the American Heart Association**
Michael Gewitz, M.D.

5:40 p.m. **The Implementation of Pulse Oximetry Screening: The Backstory**
William T. Mahle, M.D.; Annamarie Saarinen, M.A.

6 p.m. **Future Directions in Screening Children for Heart Disease: Partnering with Professional Organizations, Industry, Patients, Families and the Legislature**
William T. Mahle, M.D.

6:15 p.m. **Adjourn/Dinner on Your Own**

9:15 p.m. **Special Closing Dessert Reception at The Wizarding World of Harry Potter™ at Universal's Islands of Adventure®**



Saturday, Feb. 25 • Closing Reception

**Closing Reception at
The Wizarding World of Harry Potter™
at Universal's Islands of Adventure®
Saturday, Feb. 25, 9:15 – 11:15 p.m.**

All conference attendees will receive one reception ticket, which includes desserts, beverages and entertainment for Saturday, Feb. 25, from 9:15 to 11:15 p.m. Additional tickets for guests of conference attendees are available on a first-come, first-served basis. You can purchase additional reception tickets when you register for the conference. We have a limited number of tickets so please place your order as soon as possible. You will receive your tickets at registration on Wednesday, Feb. 22.

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Moderators: Jack Rychik, M.D.; Kathryn M. Dodds, R.N., C.R.N.P.; David Goldberg, M.D.

8 a.m. History of the Fontan Operation: Why Has It Been Modified So Frequently? How Do I Do It Now?
Thomas L. Spray, M.D.

8:20 a.m. Current Challenges and Successes in Children and Adults with a Fontan Circulation

10-minute Reviews/Reference Library Provided

The Unanticipated: The CALF Study
Michael Landzberg, M.D.

The Unexpected: Protein Losing Enteropathy and Plastic Bronchitis
David Goldberg, M.D.

The Unforeseen: Status of the Liver
Jack Rychik, M.D.

Arrhythmia: Is the Prevalence Decreasing? Are We Getting Better at Management?
Ronn Tanel, M.D.

Coagulation Abnormalities: How to Reduce the Risk
Brian McCrindle, M.D.

Pregnancy and Contraception
Yuli Kim, M.D.

Neurological Abnormalities: Are They Inevitable?
Gil Wernovsky, M.D.

Education, Insurability, Functional Status and Self Awareness
David Drajpuch, M.S.N., R.N., C.R.N.P.

Health-related Quality of Life Following the Fontan Operation
Bradley S. Marino, M.D., M.P.P., M.S.C.E.

A New Paradigm for Management – Single Ventricle Survivorship Program: A Focused Clinical Care Service
Kathryn M. Dodds, R.N., C.R.N.P.

10 a.m. Panel Discussion

10:15 a.m. Adjourn



Subspecialty Breakout Session #41

Closing Nursing Session: The Essential Role of CV Nursing in High-risk, Long-term Care

Moderators: Linda Goss, R.N., M.S.N.; Julianne Evangelista, R.N., D.N.P.

10:30 a.m. **The Vulnerable Family**
Gil Wernovsky, M.D.; Kathleen Mussatto, R.N., Ph.D.

10:50 a.m. **Maternal Stress After Stage I Norwood**
William Mahle, M.D.

11:15 a.m. **The Fragile Neonate After Hospital Discharge: The JCCHD Collaborative**
Alyson Stagg, C.R.N.P.; Jo Ann Nieves, C.R.N.P.; Cathy Smith, C.R.N.P.

11:35 a.m. **The Role of the APN in Lifelong Care**
Kathryn M. Dodds, R.N., C.R.N.P.

11:50 a.m. **Panel Discussion**

Noon **Adjourn**

Subspecialty Breakout Session #42

Troubleshooting Permanent Pacemakers

Moderator: Mitchell Cohen, M.D.

10:30 a.m. **Troubleshooting Single Ventricle Pacemakers**
Patrick Frias, M.D.

11 a.m. **Troubleshooting Dual Chamber Pacemakers**
Mitchell Cohen, M.D.

11:30 a.m. **Troubleshooting ICDs**
Ramesh Iyer, M.D.

Noon **Adjourn**

Subspecialty Breakout Session #43

Exercise and the Patient with CHD

Moderators: Michael McBride, Ph.D.; Stephen Paridon, M.D.

10:30 a.m. **Psychological Advantages of Exercise**
Adrienne Kovacs, Ph.D.

10:45 a.m. **Promotion of Physical Activity for Congenital Heart Disease Patients**
Brian McCrindle, M.D.

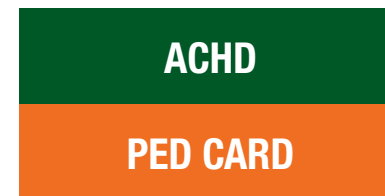
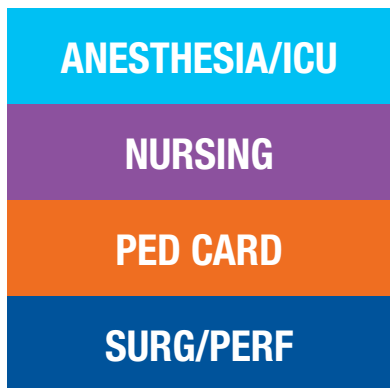
11 a.m. **Exercise Guidelines for the Patient with an Implanted Device**
Ronn Tanel, M.D.

11:15 a.m. **Physical Activity in Congenital Heart Disease: Beyond Competitive Sports**
Stephen Paridon, M.D.

11:30 a.m. **Exercise Capacity in Adults with Congenital Heart Disease: Correlates and Prognostic Implication**
Stephen Paridon, M.D.

11:45 a.m. **Panel Discussion**

Noon **Adjourn**



Faculty

Cardiology 2012 Organizing Committee

Jeffrey Boris, M.D.
Robert Campbell, M.D.
Meryl Cohen, M.D.
Mitchell Cohen, M.D.
Lisa D'Alessandro, M.D.
Kathryn Dodds, R.N., C.R.N.P.
David Drajpuch, R.N., C.R.N.P.
Alan Friedman, M.D.
Craig Fleishman, M.D.

David Goldberg, M.D.
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Maryanne Kessel, M.B.A.
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Natasha Murphy
David Nykanen, M.D.
Jonathan Rome, M.D.

Tami Rosenthal, C.C.P., M.B.A.
Jack Rychik, M.D.
Robert Shaddy, M.D.
Girish Shirali, M.B.B.S.
Thomas Spray, M.D.
Mary Jo Timlin-Hoag, R.N., B.S.N., M.P.H.
Gil Wernovsky, M.D., R.C.;
Course Director

Adult Congenital Heart Disease

Craig S. Broberg, M.D.
*Oregon Health and Science
MCR University*

Yuli Kim, M.D.
The Children's Hospital of Philadelphia
Adrienne Kovacs, Ph.D.
Toronto General Hospital, Canada

Michael Landzberg, M.D.
Children's Hospital Boston
Amy Verstappen, M.Ed.
Adult Congenital Heart Association

Anatomy/Morphology

Robert Anderson, M.D., F.R.C.Path.
Medical University of South Carolina Children's Hospital

Diane Spicer, B.S.
University of Florida, Congenital Heart Institute of Florida

Paul Weinberg, M.D.
The Children's Hospital of Philadelphia

Anesthesiology/Critical Care Medicine

Catherine K. Allan, M.D.
Children's Hospital Boston
Dean Andropoulos, M.D.
Texas Children's Hospital
Andrew M. Atz, M.D.
Medical University of South Carolina Children's Hospital
Geoffrey L. Bird, M.D., M.S.I.S.
The Children's Hospital of Philadelphia
David S. Cooper, M.D., M.P.H.
Cincinnati Children's Hospital Medical Center
Harun Fakioglu, M.D.
Arnold Palmer Hospital for Children
Allan Goldman, M.D.
Great Ormond Street Hospital, London

Eric M. Graham, M.D.
Medical University of South Carolina Children's Hospital
William J. Greeley, M.D., M.B.A.
The Children's Hospital of Philadelphia
Karen Harrington, M.D.C.M., M.Sc.
CHU Sainte-Justine University Hospital Centre, Montreal
Javier Lasa, M.D.
The Children's Hospital of Philadelphia
Bradley S. Marino, M.D., M.P.P., M.S.C.E.
Cincinnati Children's Hospital Medical Center
Hamish Munro, M.D.
Arnold Palmer Hospital for Children
Vinay M. Nadkarni, M.D.
The Children's Hospital of Philadelphia

Aruna Nathan, M.B.B.S.
The Children's Hospital of Philadelphia
Stacie B. Peddy, M.D.
The Children's Hospital of Philadelphia
Anthony Rossi, M.D.
Miami Children's Hospital
Lara Shekerdeman, M.D.
Texas Children's Hospital
Gil Wernovsky, M.D., R.C.
The Children's Hospital of Philadelphia

Faculty

Basic Science

H. Scott Baldwin, M.D., Ph.D.
Monroe Carell Jr. Children's Hospital at Vanderbilt

Barry J. Byrne, M.D., Ph.D.
University of Florida

Karl Degenhardt, M.D.
The Children's Hospital of Philadelphia

Jonathan A. Epstein, M.D.
Hospital of the University of Pennsylvania

Elizabeth Goldmuntz, M.D.
The Children's Hospital of Philadelphia

Cardiac Catheterization

Matthew Gillespie, M.D.
The Children's Hospital of Philadelphia

Ziyad M. Hijazi, M.D., M.P.H.
Rush University Medical Center, Rush Children's Hospital

Doff McElhinney, M.D.
Children's Hospital Boston

David G. Nykanen, M.D.
Arnold Palmer Hospital for Children

Carlos Pedra, M.D., Ph.D.
Instituto Dante Pazzanese de Cardiologia

Jonathan Rome, M.D.
The Children's Hospital of Philadelphia

Cardiology

Michael J. Ackerman, M.D., Ph.D.
Mayo Clinic

Terry Anderson, M.D.
The Children's Hospital of Philadelphia

Stuart Berger, M.D.
Children's Hospital of Wisconsin

Jeffrey R. Boris, M.D.
The Children's Hospital of Philadelphia

Roberto Canessa, M.D.
Italian Hospital of Montevideo

Lisa D'Alessandro, M.D.
The Children's Hospital of Philadelphia

Timothy Feltes, M.D.
Nationwide Children's Hospital

Alan Friedman, M.D.
Yale-New Haven Children's Hospital

Brian Hanna, M.D.C.M., Ph.D., F.R.C.P.(C)
The Children's Hospital of Philadelphia

Dunbar Ivy, M.D.
Children's Hospital Colorado

William Mahle, M.D.
Children's Healthcare of Atlanta

Michael McBride, Ph.D.
The Children's Hospital of Philadelphia

Brian McCrindle, M.D., M.P.H.
The Hospital for Sick Children, Canada

Stephen Paridon, M.D.
The Children's Hospital of Philadelphia

Sara K. Pasquali, M.D., M.H.S.
Duke Children's Hospital & Health Center

Daniel J. Penny, M.D., Ph.D.
Texas Children's Hospital

Chitra Ravishankar, M.D.
The Children's Hospital of Philadelphia

Andrew N. Redington, M.D., F.R.C.P.
The Hospital for Sick Children, Canada

Erika Berman Rosenzweig, M.D.
Morgan Stanley Children's Hospital

Robert Shaddy, M.D.
The Children's Hospital of Philadelphia

Victoria L. Vetter, M.D., M.P.H.
The Children's Hospital of Philadelphia

Cardiothoracic Surgery

Edward L. Bove, M.D.
University of Michigan, C.S. Mott Children's Hospital

José Pedro da Silva, M.D.
Heart Institute, São Paulo, Brazil

William M. DeCampi, M.D., Ph.D.
Arnold Palmer Hospital for Children

Mark A. Galantowicz, M.D.
Nationwide Children's Hospital

J. William Gaynor, M.D.
The Children's Hospital of Philadelphia

Jeffrey Jacobs, M.D.
All Children's Hospital

Brian Kogon, M.D.
Children's Healthcare of Atlanta

Victor O. Morell, M.D.
Children's Hospital of Pittsburgh

Dante Picarelli, M.D.
American Hospital, Montevideo, Uruguay

James Quintessenza, M.D.
All Children's Hospital

Thomas L. Spray, M.D.
The Children's Hospital of Philadelphia

James Tweddell, M.D.
Children's Hospital of Wisconsin

Samuel Weinstein, M.D., M.B.A.
Montefiore Medical Center

Faculty

Cardiovascular Administration

Steven M. Altschuler, M.D.
The Children's Hospital of Philadelphia

Michael Apkon, M.D., Ph.D.
The Children's Hospital of Philadelphia

Lawrence Barnes, M.B.A.
The Children's Hospital of Philadelphia

Madeline Bell
The Children's Hospital of Philadelphia

John W. Bozard
Arnold Palmer Hospital for Children

Susan Collins, M.B.A.
All Children's Hospital

Kay Stewart Huey
Children's Healthcare of Atlanta

Carolyn Kenny, M.H.A.
Children's Healthcare of Atlanta

Maryanne Kessel, R.N., M.B.A.
Children's Hospital of Wisconsin

Mary Beth Martin, R.N., B.S.N., M.B.A.
Children's Hospital, Colorado

Kenneth McCardle, M.S.
The Children's Hospital of Philadelphia

Gretchen Penton, R.D.C.S., M.B.A.
Arnold Palmer Hospital for Children

Sara Steines, M.P.P.
Children's Hospital of Wisconsin

Mary Jo Timlin-Hoag, R.N., M.S.N., M.P.H.
The Children's Hospital of Philadelphia

Mary Witkowski, M.B.A.
Harvard Business School, Harvard Medical School

Electrophysiology

Robert Campbell, M.D.
Children's Healthcare of Atlanta

Mitchell Cohen, M.D.
Phoenix Children's Hospital

Patrick Frias, M.D.
Children's Healthcare of Atlanta

Richard Friedman, M.D., M.B.A.
Morgan Stanley Children's Hospital

Ramesh Iyer, M.D., M.R.C.P.
The Children's Hospital of Philadelphia

Jonathan Kaltman, M.D.
National Heart, Lung, and Blood Institute

Rodrigo Nehgme, M.D.
Arnold Palmer Hospital for Children

Ronn Tanel, M.D.
UCSF Benioff Children's Hospital

Victoria L. Vetter, M.D., M.P.H.
The Children's Hospital of Philadelphia

Edward P. Walsh, M.D.
Children's Hospital Boston

Imaging

Michael Brook, M.D.
University of California-San Francisco

Meryl S. Cohen, M.D.
The Children's Hospital of Philadelphia

Bettina Cuneo, M.D.
Advocate Hope Children's Hospital, Oak Lawn, Ill.

Craig E. Fleishman, M.D.
Arnold Palmer Hospital for Children

Mark Fogel, M.D.
The Children's Hospital of Philadelphia

Peter Frommelt, M.D.
Children's Hospital of Wisconsin

David Goldberg, M.D.
The Children's Hospital of Philadelphia

Audrey Jones, R.C.S.
The Children's Hospital of Philadelphia

Luc Mertens, M.D., Ph.D.
The Hospital for Sick Children, Canada

Shobha S. Natarajan, M.D.
The Children's Hospital of Philadelphia

Simone Pedra, M.D.
Instituto Dante Pazzanese de Cardiologia

Michael Puchalski, M.D.
University of Utah

Jack Rychik, M.D.
The Children's Hospital of Philadelphia

Girish S. Shirali, M.B.B.S.
Medical University of South Carolina Children's Hospital

Norman H. Silverman, M.D., D.Sc. (Med)
Lucile Packard Children's Hospital

Anita Szwast, M.D.
The Children's Hospital of Philadelphia

Kevin Whitehead, M.D., Ph.D.
The Children's Hospital of Philadelphia

Ismee Williams, M.D., M.S.
Morgan Stanley Children's Hospital

Faculty

Nursing

Damaris Amaya, C.R.N.P.
The Children's Hospital of Philadelphia

Christopher Beaty, B.S.N., C.C.R.N.
The Children's Hospital of Philadelphia

Jennifer Carapelluci, R.N.
All Children's Hospital

Shanna Miko Chapman, M.S.N., R.N.-B.C., C.P.N.
Special School District, St. Louis

Kathy Chavanu Gorman, R.N., M.S.N.
The Children's Hospital of Philadelphia

Kim Delaney, R.N., B.S.N.
The Children's Hospital of Philadelphia

Kathryn M. Dodds, R.N., M.S.N., C.R.N.P.
The Children's Hospital of Philadelphia

David Drajpuch, M.S.N., R.N., C.R.N.P.
The Children's Hospital of Philadelphia

Julianne Evangelista, D.N.P., A.P.R.N., C.P.N.P.-A.C.
Children's Hospital Boston

Linda Goss, R.N., M.S.N.
The Children's Hospital of Philadelphia

Kathy Gover, R.N., M.S.N.
Arnold Palmer Hospital for Children

Denise Haddocks, R.N., B.S., C.C.R.N.
Arnold Palmer Hospital for Children

Patricia A. Hickey, Ph.D., M.B.A., R.N., F.A.A.N.
Children's Hospital Boston

Sharon Hill, M.S.N., A.C.N.P.-B.C., Ph.D.(c)
Nationwide Children's Hospital

Karen Iacono, C.P.N.P.
Arnold Palmer Hospital for Children

Andrea Torzone Jameson, M.S.N., R.N., C.P.N.P.
Children's Medical Center, Dallas

Sheryl Leo, R.N., B.S.N.
Arnold Palmer Hospital for Children

Kerri Lombardi, R.N., M.S.N., C.R.N.P., M.J.
The Children's Hospital of Philadelphia

Kathleen Mussatto, R.N., Ph.D.
Children's Hospital of Wisconsin

Jo Ann Nieves, M.S.N., P.N.P.-B.C.
Miami Children's Hospital

Alexis Perri, M.S.N., R.N., N.E.-B.C.
The Children's Hospital of Philadelphia

Patricia Siefert, M.S.N., C.R.N.P.
Arnold Palmer Hospital for Children

Cathy Smith, M.S.N., C.P.N.P.
Arnold Palmer Hospital for Children

Alyson Stagg, C.R.N.P.
The Children's Hospital of Philadelphia

Perfusion

Colleen Gruenwald, Ph.D., M.H.Sc., B.A., R.N., C.C.P., C.P.C.
The Hospital for Sick Children, Canada

William Harris, C.C.P.
Ochsner Medical Center

Richard Melchior, M.P.S., C.C.P.
The Children's Hospital of Philadelphia

Monica C. Olsen, B.S., C.C.P.
Arnold Palmer Hospital for Children

Tami Rosenthal, C.C.P., M.B.A.
The Children's Hospital of Philadelphia

Additional Faculty

Jean Chatzky
Author
Financial Consultant, NBC's Today Show

Michael Gewitz

Roberta L. Hales, M.H.A., R.R.T.-N.P.S., R.N.
Center for Simulation, Advanced Education and Innovation
The Children's Hospital of Philadelphia

Chris Hugo-Hamman

Annamarie Saarinen, M.A.
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16th Annual Update on Pediatric Cardiovascular Disease

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All conference registrants receive one complimentary ticket. A limited number of additional tickets are available for purchase for guests of conference attendees. All tickets will be distributed at on-site registration, Feb. 22 and 23.

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 Additional ticket(s) for ages 10 – 21 \$50
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16th Annual Update on Pediatric and Congenital Cardiovascular Disease

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