

NeoHeart:

Cardiovascular Management of the Neonate



Manchester Grand Hyatt, San Diego, CA | March 22-25, 2017 | www.choc.org/neoheart

CONFERENCE OVERVIEW

Wednesday - March 22, 2017

1:00 PM – 5:30 PM

and

Saturday – March 25, 2017

8:00 AM – 12:30 PM

Workshop – A: Targeted Neonatal & Pediatric Echocardiography (TNE)

- Didactic and hands-on training
- Attendees will acquire and interpret key images to guide hemodynamic management including estimation of preload, contractility, and right ventricular pressure
- How to avoid the common pitfalls and blind spots

Workshop – B: Essentials of Neonatal Cardiology and Congenital Heart Disease

- Comprehensive review of anatomy, physiology, electrophysiology, and surgical repair

Workshop – C: NP/PA/RN Perspective of Advanced Care for the Neonate with Heart Disease

- Comprehensive review of anatomy, physiology, electrophysiology, and surgical repair with emphasis on practical bedside care

- **All Wednesday Workshops are repeated on Saturday morning.**

- **Workshop – A has a seating limit of 30 people. Register early as this workshop sold out in 2015!**

Dinner: Reflections on a Legendary Career

Wednesday – March 22, 2017

6:00 PM – 9:00 PM

Dr. William I. Norwood, Jr.

We honor this pioneering physician who will reflect on his inspiring career.
Hosted ocean-side dinner and cocktail hour | **Must R.S.V.P. to attend.**

Thank you for your interest in **NeoHeart: Cardiovascular Management of the Neonate!** *Please note:* The schedule is subject to changes and/or substitutions.

For an up-to-date program, visit www.choc.org/neoheart.

Session I: Neonatal Myocardium and Hemodynamics

Thursday – March 23, 2017 – 8:00 AM to 12:00 PM

Welcome

The Neonatal Myocardium - *Andrew Redington, MD*

Defining and Treating Shock in the Newborn - *Patrick McNamara, MD*

Expert Round Table

- What is a "Normal" Blood Pressure? Is There a Role for Permissive Hypotension?
- How Much Preload do Neonates Actually Need? How Afterload Sensitive is the Neonatal Myocardium?
- What Should be the 1st Line Agents in Treating Hypotension? What About the 2nd Line?
- What are the Indications for Milrinone, Vasopressin, and/or Steroids?
- How Sensitive are Neonates to Fluctuations in Calcium?

NICU

Keith Barrington, MBBS
Patrick McNamara, MBBS
Shazia Bhombal, MD

Cardiology

Andrew Redington, MD
Wyman Lai, MD

The Ductus Ateriosus – *Keith Barrington, MBBS*

Expert Round Table

- Prophylactic Indomethacin, is it Coming Back?
- Defining Hemodynamically Significant: Clinical Findings vs Echo vs Biomarkers
- Dangers of Treatment? Dangers of No Treatment?
- To Feed or Not to Feed
- Post Ligation Syndrome
- How Should Cardiologists Treat in the Outpatient Setting?

NICU

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Shazia Bhombal, MD

Cardiology

Andrew Redington, MD
Wyman Lai, MD

The Most Difficult Case I had this Year...How I Could and/or Should have Optimized Cardiac Output, Hemodynamics, and Tissue Oxygen Delivery

- Severe Septic Shock
- Cardiomyopathy Secondary to Perinatal Asphyxia
- Refractory Arrhythmia
- Severe Diastolic Dysfunction with Lung Hypoplasia

NICU

Denise Suttner, MD
Vijay Dhar, MD

CVICU

Ronald Bronicki, MD

Cardiology

Mitchell Cohen, MD
Daniel Penny, MD

Echocardiography in the ICU

Cardiology Vs NICU Vs PICU

Expanding Point-of-Care Echocardiography into the Hands of NICU and PICU Physicians

- What is a Targeted Echocardiogram and Who Should be Trained?
- Release of the First Standardized TNE (Targeted Neonatal echocardiogram) Training Curriculum for Neonatologists
- What is the Time Line for Developing a Standardized Curriculum in the PICU?
- With 24/7 Pediatric Cardiology Coverage, What are the Benefits of Point-of-Care Cardiac Ultrasound?

NICU

Anup Katheria, MD
Patrick McNamara, MBBS

CVICU

Ronald Bronicki, MD
Mjaye Mazwi, MD

Cardiology

Wyman Lai, MD
Yogen Singh, MBBS



Session II: Controversies in Congenital Heart Disease

TOF-PA with MAPCAs, How Did We Get Here and Where Are We Going? - Frank Hanley, MD

Tetralogy of Fallot

- Neonatal Repair vs BT Shunt
- Is There Ever a Time to Stent the Neonatal RVOT?
- In TOF-PA MAPCAs, Single or Staged Unifocalization?
- Anticoagulation for the Neonates with BT Shunt, How Reliable is Aspirin?
- Do We Need Home Monitoring for BT Shunt? Who Gets it and Why?

NICU

Denise Suttner, MD

CVICU

Paul Checchia, MD
Gil Wernovsky, MD

Cardiology

Andrew Redington, MD

CT Surg

Frank Hanley, MD

Update on State of Neonatal Heart Transplantation - Anthony Chang, MD, MPH, MBA

Pulmonary Atresia with Intact Ventricular Septum (PA-IVS)

- Anatomic Risk Factors in PA-IVS
- Should We Pre-Operatively Feed all Neonates with Ductal Dependent Pulmonary Blood Flow?
- Predictive Value of Daily Troponins
- Who Should be Listed for Neonatal Transplant?
- Is there a Role for Systemic Vasodilators After Palliation?
- Long Term Survival Outcomes

NICU

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CVICU

Paul Checchia, MD
Gil Wernovsky, MD

Cardiology

Andrew Redington, MD

CT Surg

Frank Hanley, MD

Fetal Cardiac Intervention – Standard of Care or Experimental Therapy? – Wayne Tworetzky, MD

Hypoplastic Left Heart Syndrome

- Anatomic Risk Factors in HLHS
- Pre-Operative Feeding in Patient with Obstructive Systemic Blood Flow. Who, When, and How?
- When is the Premature Neonate Ready for Bypass?
- Utility of Selective Cerebral Perfusion
- Who Should Get the BT Shunt, Sano, or Hybrid?
- Expanded Neuro-Monitoring: Improving Outcomes or Increasing False Positives?
- What are the Post-Operative Caloric Needs?

NICU

Ganga Krishnamurthy, MD

CVICU

David Cooper, MD

Cardiology

Mjaye Mazwi, MD
Wayne Tworetzky, MD

CT Surg

John Lamberti, MD

Anesthesia

Dean Andropoulos, MD

How Computational Medicine Helps Me Predict and Prevent Cardiovascular Collapse – Mjaye Mazwi, MD

Heterotaxy

- How do We Decide Who Gets a Single or Biventricular Repair?
- Who Should We Screen for Malrotation? Should All Get Prophylactic Ladd's Procedure?
- How Often do We Miss Atrial Tachycardia?
- How Has the Genomic Revolution Affected This Diagnosis?
- Are Poly-Splenic Patients Really Asplenic?

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Anesthesia

Dean Andropoulos, MD

Coverage Model for Post-Op Neonates

Is It Time to Redesign Our ICUs?

- Is the Traditional Pediatric CVICU the Optimal Location for Neonates?
- Do CVICU Physicians Need More Training in Neonatology?
- Should Neonatologists be Trained in CVICU?
- Physician-Nurse Collaboration
- What do Care Models Look Like in 2017 from Around the Country?

NICU

Ganga Krishnamurthy MD
Denise Suttner, MD

CVICU

Paul Checchia, MD

Cardiology

Victor Levy, MD

CT Surg

Richard Gates, MD

Nursing

Dawn Tucker, APRN

Thursday – March 23, 2017 - After Hours Possibilities

5:15 PM – Abstracts Walk-Around & Network Hour

Session III: The Pulmonary Vascular Bed

The Neonatal Pulmonary Vascular Bed — Science Behind Our Therapies - Steven Abman, MD

State of the Art Management of PPHN in 2017 - John Kinsella, MD

Expert Round Table

- Role of iNO in the Premie with PPHN
- Can Combination Therapy Prevent the Need for ECMO?
- The Effects of Whole Body Cooling on PVR and PPHN
- Chronic Pulmonary Hypertension in BPD/CLD. When and Who to Cath?
- Role of Endothelin Receptor Antagonists in Chronic Disease? Role of Prostacyclins?
- What Specific Strategies are Needed for the Patient with Trisomy 21?
- Pulmonary Hypertension in Congenital Diaphragmatic Hernia

NICU

Keith Barrington, MD
John Kinsella, MD
Patrick McNamara, MBBS

CVICU

David Wessel, MD

Cardiology

Anthony Chang, MD

Pulmonology

Steven Abman, MD

Pulmonary Hypertension in CHD - David Wessel, MD

Expert Round Table

- The Right Ventricle in Chronic Disease
- Can We Protect the Pulmonary Vasculature in Single Ventricles? Timing of Surgery in the Unprotected Pulmonary Vascular Bed
- Effects of Cardiopulmonary Bypass on the Neonatal Pulmonary Vascular Bed
- The Role of Gaseous Nitric Oxide During Cardiopulmonary Bypass
- Pulmonary Vein Stenosis and CLD: A Rare Disease or Rarely Diagnosed?
- Reflection of the 2015 PH Guidelines; What Have We Learned?
- Strategies for Anesthesia and Sedation in the High Risk Patients
- What Novel Therapeutics Will We Use in the Coming Years?

NICU

John Kinsella, MD

CVICU

David Wessel, MD

Cardiology

Daniel Penny, MD
Andrew Redington, MD

CT Surg:

Frank Hanley, MD

Pulmonology

Steven Abman, MD

It Drives Me Crazy When....

Cardiology Vs CT Surg Vs NICU Vs PICU Vs Anesthesia

**In-depth Look at the Biases
and Cultural Practices From
Each of Our Disciplines**

NICU

Christine Bixby, MD

CVICU

David Cooper, MD

Cardiology

Daniel Penny, MD

CT Surg

Richard Gates, MD

Anesthesia

Dean Andropoulos, MD

Nursing

Dawn Tucker, APRN

Friday – March 24, 2017 – 8:00 AM to 12:00 PM



Session IV: Ethics, Controversies & Long Term Neurodevelopmental Outcomes

Friday – March 24, 2017 – 1:00 PM to 4:30 PM

Fragility and Resilience of Neonatal Cardiac Care - *Gil Wernovsky, MD*

How Do We Include Families in Complex Decision Making? - *Annie Janvier, MD*

Expert Round Table

- Values Added from a Fetal Center; Should We Build One at Our Institution?
- Ethical Considerations of Late Diagnosis and Termination of Pregnancy
- What Options Should We Provide for Family of Trisomy 21 and Single Ventricle?
- Should We Ever Provide Operations for Trisomy 18? Trisomy 13?
- Because “We Can Do This” vs “Should We Do This”? Who Decides and Why?
- Speaking About Life and Death

NICU

Annie Janvier, MD

CVICU

Gil Wernovsky, MD

Cardiology

Wayne Tworetzky, MD

CT Surg

John Lamberti, MD

Neurology

Daniel Licht, MD

Nursing

Lisa Kohr, CPNP

Neurodevelopmental Outcomes of CHD: What are the Low Hanging Fruit for Improvement? - *Dean Andropoulos, MD*

Expert Round Table

- Cooling After Cardiac Arrest? Who and When?
- Are We Using the Wrong Sedatives?
- What are the Most Up-to-Date Recommendations for Sedation in Neonates?
- Should All Pre and Post Op Neonates Get EEG? What Happens If We Begin Treating Too Many Subclinical Seizures?
- Special Considerations for Those With DiGeorge and CHARGE Syndrome
- How Our Decisions in the Neonatal Period Effect Their School Years

NICU

Keith Barrington, MBBS

CVICU

Gil Wernovsky, MD

Cardiology

Pierangelo Renella, MD

Anesthesia

Dean Andropoulos, MD

Neurology

Daniel Licht, MD

Nursing

Lisa Kohr, CPNP

How Are We Defining and Measuring Success? Are the Present Metrics Misleading?

What Happens When the Best Physicians, Hospital Executives, Medical Innovators, and Industry Leaders get Together to Talk About How to Make the Lives of Neonates Better?

- Is US News and World Report Killing Innovation?
- How Much Transparency Should be Available for Families? For 3rd Party Payers?
- What Models Exist for How Hospitals and Physicians Should Use Big Data?
- What is the Appropriate Cost-2-Outcome Ratio for Our Patients? Should We Really Aspire for 0% Mortality?
- Value Based Medicine for Neonates
- What is the Most Important Metric for Success?
- Are the Current National Databases Too Simple (ATS, STS, VON, etc.)?
- Which Physicians Best Understand the Science of Improvement?
- When Will We Stop Multi-Center, Randomized, Placebo Controlled Trials and Begin Focusing on Personalized Medicine?

NICU

Vijay Dhar, MD

CVICU

David Wessel, MD

Cardiology

Gil Wernovsky, MD

CT Surgery

John Lamberti, MD

Hospital Executive

Richard Afable, MD, MPH,
President & CEO

Biotechnology Executive

Sam Ajizian, MD

Medical Innovator

Anthony Chang, MD, MBA, MPH

