



NeoHeart

Cardiovascular Management of the Neonate

MARCH 27-29, 2019

Hyatt Regency Huntington Beach

21500 Pacific Coast Hwy

Huntington Beach, CA 92648

Tremendous uncertainty and controversy exists about best practices for the management of neonates with congenital heart disease and/or hemodynamic instability. The purpose of the NeoHeart Conference is to bring together experts in the fields of neonatology, pediatric cardiology, pediatric intensive care, heart surgery, anesthesiology and nursing to share innovations in caring for the neonatal patient. By working closely together, specialists can optimize care of these delicate newborns and improve outcomes.

Since 2015, NeoHeart has attracted thousands of national and international attendees, along with truly legendary keynote speakers including Dr. Jacqueline Noonan, Dr. William Norwood, and Dr. Abraham Rudolph.



TOPICS WILL INCLUDE

- Management of Pulmonary Hypertension
- Neonatal Hemodynamics
- Controversies in Congenital Heart Disease (CHD)
- Special Considerations for Preterm Infants with CHD
- Neonatal Cardiac Innovations
- Neurodevelopmental Outcomes in Neonates with CHD
- Fetal Interventions & Delivery Room Management
- Family Dynamics in Complex Cardiac Care
- Congenital Diaphragmatic Hernia
- Echocardiography
- ECMO in the Neonate



AM WORKSHOPS

Wednesday, March 27, 2019

8:00 AM - 12:00 PM

BASIC HEMODYNAMIC ASSESSMENT WITH ECHOCARDIOGRAPHY FOR THE NICU/PICU PHYSICIAN

Shazia Bhombal, MD and Gabriel Altit, MD, FRCPC

- Didactic and hands-on training
- Attendees will acquire views for basic cardiac anatomy and interpret preload status, biventricular contractility, and pulmonary hypertension.

ESSENTIALS OF NEONATAL CARDIOLOGY AND CONGENITAL HEART DISEASE

Anthony Chang, MD, MBA, MPH

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

At the conclusion of this workshop, attendees will be able to differentiate the lesions in congenital heart disease and describe the implications of each lesion. They will also be able to identify and treat the most common arrhythmias in neonates and surgical repairs needed to correct the most common lesions.

EXCELLING AT THE BEDSIDE FOR NURSES AND APNS

Dawn Tucker, DNP, CPAP and Lindsey Justice, DNP, APRN, CPNP-AC

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

At the conclusion of this workshop, attendees will be able to identify common pitfalls of pre- and post-operative care in CHD, and apply state-of-the-art intervention for practical bedside care.

REGISTER: CHOC.ORG/NEOHEART2019



PM WORKSHOPS

Wednesday, March 27, 2019

1:30 PM - 5:30 PM



ADVANCED HEMODYNAMIC ASSESSMENT WITH ECHOCARDIOGRAPHY FOR THE NICU/PICU PHYSICIAN

Shazia Bhombal, MD and Gabriel Altit, MD, FRCPC

- Didactic and hands-on training
- Attendees will acquire and interpret key images to guide hemodynamic management based on Doppler interrogations, pulmonary vascular resistance, and cardiac output.

CONTROVERSIES OF NEONATAL HEMODYNAMICS

John Cleary, MD

Interactive session with thought leaders - including **Drs. Keith Barrington, Martin Kluckow, Istvan Seri, and Patrick McNamara** - debating the management of hemodynamic instability, the ductus arteriosus, congenital diaphragmatic hernia, and pulmonary hypertension.

At the conclusion of this workshop, attendees will be able to understand physiologic assessment and treatment of PPHN, PDA, and hemodynamic instability. They will also be able to appropriately treat and manage PPHN, PDA, and hemodynamic instability in a critical newborn.

EXCELLING AT THE BEDSIDE FOR NURSES AND APNS

Dawn Tucker, DNP, CPAP and Lindsey Justice, DNP, APRN, CPNP-AC

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

At the conclusion of this workshop, attendees will be able to identify common pitfalls of pre- and post-operative care in CHD, and apply state-of-the-art intervention for practical bedside care.

REGISTER: CHOC.ORG/NEOHEART2019

KEYNOTE SPEAKER DINNER

WEDNESDAY, MARCH 27, 2019

6:00 - 9:00 PM

Richard Van Praagh

The Father of Segmental Anatomy in Congenital Heart Disease

Dr. Richard Van Praagh is one of the greatest minds in medicine, and our field has directly benefited from his countless contributions. His seminal publication in 1972 on the segmental approach of cardiac development has become the foundation of congenital heart disease.

In 1965, he developed the world's first modern pediatric cardiac pathology registry. In a novel approach to education, he combined each patient's clinical course alongside their anatomic pathology to gain in-depth understanding of their unique physiology. What sets Dr. Van Praagh apart is his all-inclusive approach. This includes pediatric cardiologists, CT surgeons, neonatologists, pathologists, radiologists, and many others. Nearly every patient from every country around the world has benefited from his contributions.

Join us at the beautiful Hyatt Regency Resort in Huntington Beach for a hosted dinner honoring this legend.



Seating will fill up quickly.
Visit our website, register, and RSVP today!

www.choc.org/neoheart2019

THURSDAY, MARCH 28

Welcome to NeoHeart 2019!

Plenary Session: What Makes the Neonate Different?

- 8:00 - 8:15 • **The neonatal myocardium and how to maximize its performance** - Dan Penny, MD, PhD
- 8:15 - 8:30 • **The neonatal vascular endothelium; the most important organ system nobody talks about** - Mjaye Mazwi, MBChB, MD
- 8:30 - 8:45 • **Cerebral auto-regulation, how understanding physiology can be the lowest-hanging fruit for improving long-term outcomes?** - Istvan Seri, MD, PhD
- 8:45 - 9:15 • **Expert Round Table Discussion - NICU:** Martin Kluckow, MBBS & Istvan Seri, MD, PhD; **CVICU:** Mjaye Mazwi, MBChB, MD; **Cardiology:** Carl Backes, MD & Dan Penny, MD
 - What is the optimal blood pressure for neonates in different physiologic states?
 - How does preload and afterload effect neonatal cardiac output?
 - What role does the endothelium play in hemodynamic instability?
 - How to manage capillary leak in shock, post cardio-pulmonary bypass, etc.
 - Are extubation readiness tests meaningless for the neonatal diaphragm?
- 9:15 - 10:25 • **The most difficult case I had this year...What would the professors have done?** - **NICU:** Martin Kluckow, MBBS & Istvan Seri, MD, PhD; **CVICU:** Mjaye Mazwi, MBChB, MD; **Cardiology:** Carl Backes, MD & Dan Penny, MD; **Nursing:** Annie Denslow, PA
 - Infant of diabetic mother with severe hypertrophic cardiomyopathy complicated by hypoxic ischemic encephalopathy and pulmonary hypertension
 - Congenital diaphragmatic hernia in a newborn with double outlet right ventricle and hypoplastic left sided structures

Breakout Sessions

Breakout Session A: Hemodynamics of Extreme Prematurity

Moderated by Patrick McNamara, MB, BCh

- 10:40 - 10:55 • Optimizing the physiologic transition from in-utero life to ex-utero; what is evidence based and what is myth? - Martin Kluckow, MBBS
- 10:55 - 11:10 • Pharmacotherapies for the hemodynamically significant PDA: Are we doing it right? Reflections from a network meta-analysis. - Souvik Mitra, MD
- 11:10 - 11:25 • Blood pressure in the ELBW; permissive hypotension or tight control? - Keith Barrington, MBBS
- 11:25 - 11:40 • Cerebral NIRS: the key to optimizing long term neuro-developmental outcomes or just another monitor? - Krisa Van Meurs, MD
- 11:40 - 12:00 • Q & A

Breakout Session B: Hemodynamics of Septic Shock

Moderated by Anthony Chang, MD, MBA, MPH

- 10:40 - 10:55 • How do I know when I have given my patient enough volume resuscitation?? Is the central venous pressure my north star or a misleading distraction? - Saul Flores, MD
- 10:55 - 11:10 • Why vital signs are NOT so "vital". In 2019, there is a better way to assess and manage the hemodynamics in septic shock. - Gabriel Altit, MD
- 11:10 - 11:25 • Pressor resistant shock, which steroid should I give and when should I give it? - Kristi Watterberg, MD
- 11:25 - 11:40 • ECMO for septic shock, once a contraindication but now part of the treatment algorithm. - David Cooper, MD
- 11:40 - 12:00 • Q & A

Hosted Lunch | 12:00 PM - 1:00 PM

Visit our website for additional details and updates! choc.org/neoheart2019

Plenary Session: The Right Ventricle

- 13:00 - 13:15 • **Hypoplastic left heart syndrome, can we make the RV function more like the LV?** - *Andrew Redington, MD*
- 13:15 - 13:30 • **PA-IVS; an evidenced based approach in the neonatal period that will increase the likelihood for biventricular circulation** - *Alan Nugent, MD*
- 13:30 - 13:50 • **Expert Round Table Discussion - NICU:** Ganga Krishnamurthy, MD; **CVICU:** Mary McBride, MD; **Cardiology:** Alan Nugent, MD; **CT Surgery:** Glen Van Ardsell, MD & Vaughn Starnes, MD; **Nursing:** Dawn Tucker, DNP, CPNP
- What is the long term impact of right ventriculotomy?
 - Who should be listed for neonatal heart transplant?
 - Are our families really informed about all their options and realistic outcome expectations?
 - Is a single well functioning RV better than 2 ventricles functioning poorly?
- 13:50 - 14:05 • **Tetralogy of Fallot; How I decide between full repair, BT shunt, or RVOT stent** - *Glen Van Ardsell, MD*
- 14:05 - 14:20 • **Severe Ebstein's anomaly; how I decide between BT shunt vs. Cone procedure vs. Starnes procedure?** - *Vaughn Starnes, MD*
- 14:20 - 14:40 • **Expert Round Table Discussion - NICU:** Ganga Krishnamurthy, MD; **CVICU:** Mary McBride, MD; **Cardiology:** Alan Nugent, MD; **CT Surgery:** Glen Van Ardsell, MD & Vaughn Starnes, MD
- When and where to utilize catheter based palliation rather than surgical
 - What decisions are made in the neonatal period with will allow for best outcomes as a future pediatric and adult patient?
 - How does prematurity or growth restriction influence critical decision making
 - Is US News and World Report killing innovation?
- 14:40 - 15:25 • **The most difficult case I had this year...What would the professors have done?** - **NICU:** Ganga Krishnamurthy, MD & Keith Barrington, MBBS; **CVICU:** Mary McBride, MD & Gil Wernovsky, MD. FAAP, FACC; **Cardiology:** Alan Nugent, MD; **CT Surgery:** Glen Van Ardsell, MD & Vaughn Starnes, MD; **Nursing:** Dawn Tucker, DNP, CPNP
- Newborn with congenitally corrected transposition complicated by heart block and heart failure

Breakout Sessions

Breakout Session C:

Comparative Physiology – Neonatologists, Cardiologists, and Intensivists Learning from One Another

Moderated by Amir Ashrafi, MD

- 15:40 - 15:55 • What can the neonatologist managing diaphragmatic hernia learn from the cardiologist who manages interrupted aortic arch? - *Gil Wernovsky, MD, FAAP, FACC*
- 15:55 - 16:10 • What can the cardiac intensivist managing IVH/PVL secondary to cardiopulmonary bypass learn from the neonatologist who manages IVH/PVL secondary to prematurity? - *Istvan Seri, MD, PhD, HonD*
- 16:10 - 16:25 • What can the neonatologist managing a pulmonary hypertension secondary to bronchopulmonary dysplasia (BPD) learn from the cardiologist who manages total anomalous pulmonary venous return (TAPVR)? - *Carl Backes, MD*
- 16:25 - 16:40 • What can the cardiac intensivist managing a hypothermic neonate post bypass learn from the neonatologist who utilizes total body cooling for hypoxic ischemic encephalopathy? - *Krisa Van Meurs, MD*
- 16:40 - 17:00 • Q & A

Breakout Session D:

Controversies in Feeding and Nutrition

Moderated by Rune Toms, MD

- 15:40 - 15:55 • Is there really a difference between maternal milk, banked milk, and formula in neonates with CHD? If so, is it clinically significant? - *Christine Bixby, MD*
- 15:55 - 16:10 • Pre-operative feeds, post-operative feeds, probiotics, and necrotizing enterocolitis in ductal dependent heart disease. - *Diana Vargas, MD*
- 16:10 - 16:25 • Intestinal malrotation in heterotaxy syndrome; better to be proactive or watchful waiting? - *Rune Toms, MD*
- 16:25 - 16:40 • To G-tube or not to G-tube, that is the question - *Molly Ball, MD*
- 16:40 - 17:00 • Q & A

Visit our website for more details and any agenda updates!
choc.org/neoheart2019

ABSTRACT POSTER RECEPTION

THURSDAY, MARCH 28, 2019
5:00 PM - 7:00 PM



SUBMIT AN ABSTRACT

Submit your scientific abstract, quality improvement initiative, or interesting case!

Abstract submission is open to all including physicians, trainees, nurses, pharmacists, respiratory therapists, dietitians, and therapists.

Submissions should be a maximum of 500 word and include title, author, and institution. All accepted submissions will be presented on electronic poster (i.e. no paper posters will be showcased) on Thursday March 28, 2019 from 5:00 pm to 7:00 pm.

The best submissions will be asked to present at the plenary session on Friday March 29, 2019. Submissions are graded by the conference faculty in a blinded fashion.

ADDITIONAL DETAILS

There is no additional stipend or reimbursement offered for abstract research, preparation, or poster development, etc.

Deadline for abstract submission: January 25, 2019
Notification of acceptance: February 8, 2019

Questions: 800-329-2900 or choccme@choc.org

VISIT CHOC.ORG/NEOHEART2019

FOR MORE INFORMATION & TO SUBMIT YOUR ABSTRACT

CALIFORNIA BEACH PARTY

THURSDAY, MARCH 28, 2019
8:00 PM - 10:00 PM

beachside entertainment



classic SoCal food & drink



stunning views of the Pacific



your home away from home



FRIDAY, MARCH 29

Plenary Session: Pulmonary Vascular Bed

- 8:00 - 8:15 • **Differentiating preventable from inevitable; the who, when, why, and how of newborns with pulmonary vascular disease** - Robin Steinhorn, MD
- 8:15 - 8:30 • **Precision medicine: how clinical heterogeneity should alter our decision making in acute pulmonary hypertension** - Steven Abman, MD
- 8:30 - 8:50 • **Pulmonary hypertension year in review: summary of publications in 2018 and which ones should change our practice** - Roberta Keller, MD
- 8:50 - 9:20 • **Expert Round Table Discussion** - **NICU:** Roberta Keller, MD & Robin Steinhorn, MD; **CVICU:** Jeff Fineman, MD; **Cardiology:** Anthony Chang, MD, MPH, MBA; **Pulmonology:** Steven Abman, MD
- What is the best 2nd line agent in acute pulmonary hypertension?
 - What to do when neonate has PH but also has PDA that “needs” to be closed?
 - Update of the genetics of pulmonary vascular disease
 - Anesthetic considerations in pulmonary hypertension
 - Can preemies get PPHN? Of course, but what is the latest evidence based treatment
- 9:20 - 9:45 • **Presentation of best abstracts from 2019 poster session**
- 9:45 - 10:25 • **The most difficult case I had this year...What would the professors have done?** - **NICU:** Roberta Keller, MD & Robin Steinhorn, MD; **CVICU:** Jeff Fineman, MD; **Cardiology:** Anthony Chang, MD, MPH, MBA; **Pulmonology:** Steven Abman, MD
- Severe PPHN, ecmo, ultimately diagnosed with neonatal idiopathic PH

Breakout Sessions

Breakout Session E: Innovations in Neonatal-Cardiac Intensive Care

Moderated by Anthony Chang, MD, MPH, MBA

- 10:40 - 10:55 • Lymphatic imaging and coil intervention for chylous effusions - Yoav Dori, MD, PhD
- 10:55 - 11:10 • The artificial placenta is almost a reality; should we be excited or terrified? - George Mychalika, MD
- 11:10 - 11:25 • Neonatal ventricular assist device, how close is it to becoming a reliable option for my patients? - Vamsi Yarlagadda, MD
- 11:25 - 11:40 • Artificial intelligence in the ICU, why predictive analytics can manage complex patients better than you. - Mjaye Mazwi, MBChB, MD
- 11:40 - 12:00 • Q & A

Breakout Session F: The Blood and the Brain

Moderated by Victor Levy, MD, MSPH, FAAP, FACC

- 10:40 - 10:55 • This neonate has a large parenchymal brain bleed, now what am I supposed to do to optimize long-term outcomes? Can I confidently predict future outcomes? - Chris Smyser, MD
- 10:55 - 11:10 • My patient has IVH, when can we take him/her to the operating room for cardiopulmonary bypass—a hematologist’s perspective? - Courtney Thornburg, MD, MS
- 11:10 - 11:25 • Anti-coagulation while on ECMO, perils that help me avoid a bad situation—surgeons perspective. - Joanne Starr, MD
- 11:25 - 11:40 • If benzodiazapines, ketamine, opioids, precedex, and propofol are so bad for the neonates’ long term neuro-developmental outcomes, then what am I supposed to do? - David Vener, MD
- 11:40 - 12:00 • Q & A

Hosted Lunch | 12:00 PM - 1:00 PM

Visit our website for additional details and updates! choc.org/neoheart2019

Plenary Sessions

Continuum of Care: Fetus to Neonate to Child

- 13:00 - 13:15 • **The fetus with complex CHD: multidisciplinary approach to perinatal and delivery management** - *Mary Donofrio, MD*
- 13:15 - 13:30 • **In 2019, why do we continue to miss structural heart disease pre- and post-natally?**
- 13:30 - 13:45 • **The evolution of prenatal genetic testing, has the reality matched the hype?** - *David Demmick, MD*
- 13:45 - 14:05 • **Insight for the NeoHeart community: reflecting on the difficult decisions I made while pregnant. The story of a mother and her daughter living with heart transplant**
- 14:05 - 15:00 • **Expert Round Table Discussion**
 - What are the perils that allow for successful fetal counseling?
 - Are we honest with our families and ourselves about who and when termination should be offered?
 - Is comfort care the only option for our patients with trisomy13/18?
 - Successes and failures of nationally mandated pulse oximetry screening
 - Can prenatal brain injury from CHD be reversed postnatally? Should all newborns with "significant" structural heart disease receive a brain MRI?

Fetal Intervention

- 15:15 - 15:30 • **Hemodynamics and myocardial performance in twin-twin transfusion syndrome—with and without laser therapy** - *Philip Levy, MD*
- 15:30 - 15:45 • **Fetal intervention for HLHS, who should be referred and what are realistic expectations?** - *Wayne Tworetzky, MD*
- 15:45 - 16:00 • **Maternal hyperoxia therapy for CHD, how much can we grow the left sided structures and improve cerebral oxygen delivery before birth?** - *Anita Moon-Grady, MD*
- 16:00 - 16:15 • **Fetal arrhythmias, how I decide between medical therapy, early delivery, or referral for fetal pacemaker implantation**
- 16:15 - 17:00 • **Expert Round Table Discussion**
 - How to decide who gets referred to specialized centers?
 - Calculating the risk-to-benefit ratio for the fetus and mother
 - How do we define a success and failure with fetal intervention?
 - What to do when parents can't agree
 - Indications for laser therapy with twin-twin transfusion syndrome

Final Q & A | Closing Remarks | Adjourn

SEE YOU NEXT TIME!

Visit neoheartsociety.org to see where we'll meet in 2020 & 2021!



Visit our website for additional details and updates! choc.org/neoheart2019

NEOHEART 2019 INVITED FACULTY

ANESTHESIOLOGY

David Vener, MD

Professor, Dept. of Anesthesiology
Baylor College of Medicine
Pediatric Cardiovascular
Anesthesiology
Texas Children's Hospital

CARDIOLOGY

Carl Backes, MD

Asst. Professor of Pediatrics
Ohio State Univ College of Medicine
Neonatologist & Cardiologist
Nationwide Children's Hospital

Anthony Chang, MD, MBA, MPH

Chief Intelligence & Innovation Officer
CHOC Children's

Yoav Dori, MD, PhD

Dir., Pediatric Lymphatic Imaging &
Interventions
Children's Hospital of Philadelphia

Wyman Lai, MD

Director of Echocardiography Lab
Co-Medical Director, Heart Institute
CHOC Children's

Anita J. Moon-Grady, MD FACC, FASE

University of California San Francisco
Director, Fetal Cardiovascular Program
UCSF Benioff Children's Hospital

Alan Nugent, MBBS, FRACP

Section Head Cardiac Catheterization
Lurie Children's Hospital.
Professor of Pediatrics Northwestern
University Feinberg School of Medicine

Daniel Penny, MD, PhD

Chief of Pediatric Cardiology
Texas Children's Hospital

Andrew Redington, MD

Executive Co-Director, Heart Institute
Chief of Pediatric Cardiology
Cincinnati Children's Hospital

CARDIAC INTENSIVE CARE

David Cooper, MD, MPH

Med. Dir., Cardiac Intensive Care Unit
Med. Dir., Cardiac Anesthesia Recovery
Unit
Co-Dir., Center for Acute Care
Nephrology
Cincinnati Children's Hospital

Jeff Fineman, MD

Professor and Vice Chair of Pediatrics
Director, Critical Care and Pulmonary
Hypertension
Investigator, Cardiovascular Research
Institute
University of California, San Francisco

Saul Flores, MD, FAAP, FACC

Texas Children's Hospital
Asst Prof, Pediatrics
Baylor College of Medicine

Mjaye Mazwi, MBChB, MD

Critical Care Intensivist
Toronto SickKids

Mary McBride, MD, FAAP, MEd

Assoc. Fellowship Dir., Cardiology
Lurie Children's
Assoc. Professor Pediatrics,
Northwestern University Feinberg School
of Med.

Gil Wernovsky, MD, FAAP, FACC

Sr. Consultant, Cardiac Intensive Care
and Pediatric Cardiology
Children's National Medical Center

Vamsi Yarlagadda, MD

Medical Director, CVICU
Clinical Associate Professor, Pediatric
Cardiology
Lucile Packard Children's Hospital

HEMATOLOGY

Courtney Thornburg, MD

Medical Dir, Hemophilia & Thrombosis
Treatment Center, Research Program,
and Fellowship Program
Rady Children's
Professor, Clinical Pediatrics
UC San Diego School of Medicine

NEONATOLOGY

Gabriel Altit, MD, FRCPC, FAAP

Neonatologist
Montreal Children's Hospital
Assistant Professor, Dep. of Pediatrics
McGill University

Molly K. Ball, MD

Director of Neonatal Care CTICU
Neonatal Assoc. Dir. of Fetal Medicine
Assistant Professor- Clinical
Nationwide Children's

Keith Barrington, MBBS

Chief of Neonatology
University of Montreal

Shazia Bhombal, MD

Clinical Asst. Professor
Stanford University

Roberta Keller, MD

Medical Dir., ECMO Program
UCSF Fetal Treatment Center

Martin Kluckow, MBBS, FRACP, PhD, CCPU

Prof. & Sr. Staff Specialist,
Neonatology
Royal North Shore Hospital

Ganga Krishnamurthy, MD

Director, Neonatal Cardiac Care
Morgan Stanley Children's Hospital

Philip T. Levy, MD

Assistant Professor
Boston Children's Hospital
Harvard Medical School

Victor Y. Levy, MD, MSPH, FAAP, FACC

President, Neonatal Heart Society
Neonatal Cardiac ICU Consultants

Patrick McNamara, MB, BCh

Neonatologist & Division Head
Professor of Pediatrics & Internal Med.
University of Iowa

Souvik Mitra, MD, RCPC Affiliate, MSc

Asst. Prof. & Neonatologist
IWK Health Centre
Dalhousie University

NEOHEART 2019 FACULTY CONT'D

NEONATOLOGY CONT'D

Istvan Seri, MD, PhD, HonD

Professor of Pediatrics,
First Dept. of Pediatrics,
Semmelweis University, Budapest,
Hungary
CHLA/USC Keck School of Medicine
Honorary Member, Hungarian
Academy of Sciences, Budapest,
Hungary

Robin Steinhorn, MD

Senior VP, Center for Hospital Based
Specialties
Children's National

Rune Toms, MD

Assoc. Prof/Neonatal Cardiac
Intensivist/
Med. Dir., RNICU
Dir., Nosocomial Infection
Prevention Program

Krisa Van Meurs, MD

Rosemarie Hess Prof., Neonatal and
Developmental Medicine
Stanford Children's Health

Diana Vargas, MD

Asst. Prof. of Pediatrics
Columbia University Medical Center

Kristi Watterberg, MD

Professor of Pediatrics
University of New Mexico

NEUROLOGY

Chris Smyser, MD, MSCI

Assoc. Prof. Neurology
Dir., Neonatal Neurology Program
Washington Univ./St. Louis Children's

NURSING & PHYSICIAN ASSISTANT

Annie Denslow, PA-C

Neonatology

Lindsey Justice, DNP, APRN, CPNP-AC

CICU Nurse Practitioner, Heart Inst.
Cincinnati Children's

Dawn Tucker, DNP, RN, CPNP-AC

Admin Dir., Cardiac Center
Nemours Children's Hospital

PULMONOLOGY

Steven Abman, MD

Director, Pediatric Heart-Lung Ctr
Children's Hospital Colorado

SURGERY

Richard Gates, MD

Surgeon-in-Chief
Co-Medical Director, Heart Institute
CHOC Children's

Joanne Starr, MD

Medical Director, ECMO
CHOC Children's

Glen Van Arsdell, MD

Dept. Head, Cardiovascular Surgery
Toronto SickKids



PROGRAM CHAIRS

Amir H. Ashrafi, MD

Associate Dir., Neonatal Cardiac ICU
CHOC Children's
Assistant Professor
UC Irvine

John Patrick Cleary, MD

Associate Director, ECMO
Regional Director, Neonatology
CHOC Children's



COURSE OUTCOMES

At the completion of this conference, attendees will be able to:

- Assess neonatal myocardial performance in different physiologic states.
- Manage the transition from in utero to ex utero life in the extremely premature neonate.
- Manage hypotension in neonates with septic shock.
- Diagnose congenital heart diseases of the right ventricle.
- Assess and treat pulmonary vein stenosis in former premature neonates.
- Develop a plan to optimize nutrition and calories in kids with CHD and/or hemodynamic instability.
- Diagnose and manage pulmonary hypertension in the neonate.
- Refer and, when needed, intervene with lymphatic imaging in chylous effusions.
- Develop a plan to optimize neurodevelopment outcomes after a brain bleed by selecting appropriate treatment options.
- Create a counseling plan to discuss with families the inpatient and outpatient complexities surrounding CHD.
- Determine who and when to refer for intervention in patients with hypoplastic left heart syndrome.

TARGET AUDIENCE

This live activity is intended for Physicians who specialize in Pediatric Cardiology, Neonatology, Pediatric Critical Care Medicine, Pediatric Cardiac Surgery, OB/GYN, Maternal-Fetal Medicine, and Neonatal/Maternal-Fetal Fellows, Nurse Practitioners, Fetal Echocardiographers/Sonographers and others who are involved in the cardiovascular management and care of babies in utero or neonatal babies.

CONFERENCE FORMAT

No lengthy PowerPoint presentations with 50/50 balance of didactic and dynamic sessions. Emphasis placed on audience participation. NeoHeart is a 2 full-day conference with pre-conference workshop options filled with expert panels, for/against debates, and case-based tutorials.

ACCREDITATION

CHOC Children's Hospital is accredited by the Institute of Medical Quality/California Medical Association (IMQ/CMA) to provide continuing medical education (CME) for physicians.

CHOC Children's Hospital designates this live educational activity for a maximum of 23.25 *AMA PRA Category 1 Credit(s)*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Nurses: The California Board of Registered Nursing recognizes that Continuing Medical Education (CME) is acceptable for meeting RN continuing education requirements as long as the course is certified for *AMA PRA Category 1 Credit(s)*[™] (rn.ca.gov). Nurses will receive a Certificate of Attendance following this activity that may be used for license renewal.

FINANCIAL DISCLOSURES

Educational grants are being sought for this activity.

VISIT OUR WEBSITE FOR
ADDITIONAL DETAILS &
UPDATES!

CHOC.ORG/NEOHEART2019





REGISTRATION

Physician	\$650
RN/NP/PA	\$350
Resident/Fellow	\$350
Other	\$350
<i>Early bird prices end 2/8/19, then prices increase by \$100.</i>	

OPTIONAL REGISTRATION

Pre-Conference Workshop	\$250
Pacific Coast Fetal Cardiology Add-On: Phys	\$250
Pacific Coast Fetal Cardiology Add-On: Non-Phys	\$150

Cancellation Policy: A written notice of cancellation must be received by 2/8/19. All admin fees and credit card transaction fees are NOT refundable. A \$100 cancellation fee will be assessed. After 2/8/19, cancellation requests cannot be honored. Substitutions are allowed. We understand emergencies do occur. However, due to our contracted food & beverage minimums and hotel room block, we will be unable to refund any registration fees past the deadline noted above.

HOTEL INFORMATION

Hyatt Regency Huntington Beach

21500 Pacific Coast Hwy | Huntington Beach, CA 92648

We have an excellent negotiated room rate of **\$279+/night** for NeoHeart attendees!

Book your room early because the hotel will sell out!
Hyatt Regency reserves the right to close the room block 30 days before the conference. Negotiated room rate not guaranteed after 2/26/2019.

<https://book.passkey.com/go/CHOCNeoheartConference>
or call **(714) 698-1234** or **(888) 421-1442** toll free

REGISTER: [CHOC.ORG/NEOHEART2019](https://choc.org/neoheart2019)

