

# NEONATOLOGY TODAY

News and Information for BC/BE Neonatologists and Perinatologists

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SPECIAL NEO 2017 PREVIEW ISSUE

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## Preview of NEO: The Conference for Neonatology and Specialty Review in Neonatology 2017

By Alan R. Spitzer, MD



Alan R. Spitzer, MD, Program Director for NEO, Emeritus Senior Vice President for Research, Education, Quality & Safety, MEDNAX, Inc. / Pediatrix Medical Group / American Anesthesiology.

February is just around the corner, and that means the *NEO Conference* and *Specialty Review* meetings will once again take place in beautiful Orlando, Florida! These annual events represent a wonderful opportunity for many to get out of the cold and snow, while learning from some of the finest speakers in the world discuss up-to-the minute care for the newborn infant.

This year is the 11<sup>th</sup> annual *NEO - The Conference for Neonatology*, and we are pleased to outline many of the upcoming sessions of the meeting in this special edition of *Neonatology Today*. If you want to hear the latest and greatest

information in the field of neonatal medicine, then the *NEO Course* is the one to take.

Once again, it is our desire to also highlight our Specialty Review Course, held concurrently with the *NEO Conference*. If you are preparing for your upcoming Board examination, or simply want a concise and thorough review of the current practice of neonatology, you'll want to check out the *Specialty Review Course*. Overseen by David Weisoly, DO, and Matt Saxonhouse, MD, *Specialty Review* is a revised and updated course formerly organized and presented in Chicago by Dharmapuri Vidyasagar, MD, a Legend of Neonatology. In addition, we are proud to have Lucky Jain, MD, Vice Chairman of Pediatrics at Emory University, as our Special Consultant to the course. The educational experience of the course leaders and the outstanding faculty are second to none.

### About NEO

*NEO* itself began 11 years ago as an extensive redesign of the former *Management of the Tiny Baby Conference*, which ran for 28 years and was one of the pioneering meetings in neonatal medicine. *NEO* has become one of the major annual conferences in neonatal medicine, with the unique Legends of Neonatology evening as part of the event.

The lineup for this year's meeting is one of the most impressive we have attracted to date. It includes some unique features, a wide range of topics and world-renowned speakers, who will address many of the most critical and controversial issues that influence the clinical

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practice of newborn medicine. The focus of the *NEO* meeting remains the same, which is providing a wealth of valuable information for our attendees to improve the care they provide to infants in their NICUs. *NEO* is designed as a practical meeting to advance your understanding of neonatal intensive care and help you apply leading approaches.

Also, we are continuing the simultaneous translation of the meeting into Spanish. Last year, the meeting had nearly 150 international attendees, and we look forward to increasing numbers of our colleagues from around the world for this stellar event.

### Breakdown of the NEO Conference

As usual, the meeting begins with a pre-conference day dedicated to quality improvement in neonatology. Understanding and improving patient care outcomes has become a hallmark of the modern practice of Neonatology. Wednesday, February 22<sup>nd</sup>, will be devoted to a full-day pre-conference session on this timely issue, to allow participants to better appreciate and utilize the methodology of quality improvement, and begin to implement goals of meaningful use.

Once again led by Dan Ellsbury, MD, and Robert Ursprung, MD — two renowned national educators in neonatal CQI — this pre-conference session is ideally suited to prepare the clinician for developing valuable quality improvement initiatives in the NICU. Also, with third-party payers now seeking outcome information on the NICU population, to determine reimbursement for care, this CQI session topic is progressively gaining in importance for daily medical practice. Stay ahead of the curve, and learn the latest approaches to tracking and ensuring quality outcomes in your NICU.

The main section of the *NEO Conference* starts on Thursday, February 23, 2017, and runs through Sunday, February 26, 2017. The *NEO Conference* is arranged thematically so that we can cover a select series of topics more inclusively, and in greater detail. The major themes of this year's meeting include:

- Fluids and Fuels for the Micropreemie
- Developing Better Practices in the NICU
- New Thoughts About BPD
- Improving Education for Physicians and Nurses
- New Threats in Infectious Diseases; and Safe Discharge of the Micropreemie

Each of these sessions features many of the foremost experts and leading speakers in the country, addressing the topics for which they have become noted. Some of the accomplished experts include: Jeffrey Segar, MD, discussing fluid management for the micropreemies, and Namasivayam Ambalavanan, MD, who will speak about current thoughts of advancing feedings in tiny babies. James Moore, MD, will bring us up to date about transfusion therapy and NEC.

Finally, Reese Clark, MD, and Don Chace, PhD, will speak about their extensive work on protein nutrition, and how this effort can change the way we view and manage neonatal nutrition.

On the afternoon of the first day, William Engle, MD, DeWayne Pursley, MD and John Lantos, MD, will lead a special session about improved NICU practices. They will speak about protocol development in the NICU, choosing wisely and how to approach obtaining consent from families in a variety of circumstances.

Friday's theme of "New Thoughts About BPD" starts with a series of presentations by some of the most recognized leaders in the field. Jeff Reese, MD, will discuss current thoughts about ductal management, and Camilia Martin, MD, will speak about the nutritional management of the BPD baby, which is always a major challenge. Alan Jobe, MD, from the University of Cincinnati (one of this year's Legends of Neonatology) will give us his thoughts about whether it is possible to prevent BPD. Last, but certainly not least, Steve Abman, MD — a favorite speaker at *NEO* — will give us the pulmonologist's perspective on long-term BPD management. This session should be truly outstanding and highly valuable to the clinician.

Friday afternoon's session starts with Virginia Moyer, MD, of the American Board of Pediatrics, speaking about the evolving nature of Maintenance of Certification for the NICU physician. Following this talk will be a special panel of nurses and physicians, who will reflect on some of the concerns of the event organizing committee related to medical and nursing education for NICU clinicians. Is it optimal for the modern era or should it be remodeled to something else? David Burchfield, MD, former Chair of the Neonatal-Perinatal Section of the AAP and Chief of Neonatology at the University of Florida, will serve as moderator. This panel discussion should be of interest to all attendees and will have significant audience participation. We truly want to know your opinions.

### Legends of Neonatology

Since the first *NEO Conference* in 2007, we have made an effort to acknowledge and highlight some of the greatest advances in neonatal medicine through our Legends of Neonatology program. Winners of the Legends Award essentially constitute a 'Hall of Fame' for newborn medicine. Past recipients include:

- Mildred Stahlman, MD
- Maria Delivoria-Papadopoulos, MD
- Mary Ellen Avery
- Lucille Ann Papile, MD
- Avroy Fanaroff, MD
- Marshall Klaus, MD
- Jerold Lucey, MD
- Robert Bartlett, MD, FACS

- Stanley Dudrick, MD
- George Gregory, MD
- John Clements, MD
- Forrest Bird, MD, PhD, SCD
- William Norwood, MD
- William Oh, MD
- Abraham Rudolph, MD
- Lilly Dubowitz, MD, MRCP, FRCP
- M. Jeffrey Maisels, MB, BCH, DSC
- Jen-Tien Wung, MD, FCCM
- Frederick C. Battaglia, MD
- Joseph Volpe, MD
- Philip Sunshine, MD
- Alan Spitzer, MD
- John Kattwinkel, MD
- Vinod Bhutani, MD
- Dharmapuri Vidyasagar, MD
- Ronald Bloom, MD
- Catherine Cropley, RN

All of these honorees have graced us with their presence over the years to accept their awards. This year's honorees are once again unique and major ongoing contributors to the field of neonatal medicine.

Alan Jobe, MD, of the University of Cincinnati, is one of the long-standing leaders in the specialty of newborn medicine, whose work in Neonatal Lung Disease has been fundamental to the establishment of modern NICU care.

Richard Polin, MD, from Columbia University, is one of the greatest neonatal educators and researchers in infectious disease and neonatal pulmonary disease and management.

The work of these amazing individuals represents some of the primary reasons why outcomes for critically ill infants have improved so dramatically in the last few decades. At the Legends presentation itself, Dr. Alan Spitzer, Course Director for *NEO*, will review the contributions of these Legends, and detail how their work has become the core upon which much of modern newborn medicine is founded. This night is always a special event and a favorite of the meeting. We hope to see you there.

### NEO Continues

Although the Legends evening is a highlight, it is hardly the end of the meeting. Saturday's sessions begin with a special speaker, Sonja Rasmussen, MD, from the CDC, who will discuss where we are in attempting to understand and manage Zika virus infection. Gail Demmler, MD, follows with a presentation on the latest in our understanding and management of Cytomegalovirus infection. Irina Bird, MD, of Johns Hopkins, will then speak about how infection impacts neurodevelopment. Finally, Richard Polin, MD, will discuss neonatal infection pathogenesis and its impact upon the neonate and beyond.

Sunday concludes the meeting with a review of one of the primary issues of concern for all neonatologists: safe discharge of the Micropreemie. Eric Eichenwald, MD, will





The Hilton Orlando, Bonnet Creek is located in Orlando just 20 minutes from Orlando/Orange County International Airport (Airport Code MCO).

outline current thinking about apnea management. Stephanie Merhar, MD, from the University of Cincinnati, will then discuss long-term feeding issues and feeding aversion. Graham Quinn, MD, of the Children's Hospital of Philadelphia, will outline the present thinking about ROP and its care. Graham has long been one of the country's foremost ROP researchers. Saroj Saigal, MD, of McMaster University, will close the session by teaching us more about long-term follow-up and outcomes.

We feel this year's meeting will be a special one, perhaps the finest we have ever hosted. It is one we hope you will attend.

#### Specialty Review

We are also proud and excited about the annual *Specialty Review* in Neonatology course, which will be held concurrently in Orlando, Florida, February 21st-26th, 2017. This premier board certification review course has been the model for core foundational physiology and problem-based learning since the 1970s. Launched by Dr. Vidyasagar, who remains an advisor to the meeting, the newest version of *Specialty Review* is directed by David Weisoly, DO, and Matthew Saxonhouse, MD, as part of the MEDNAX Center for Research, Education, Quality and Safety.

Every year, the *Specialty Review* Course grows in content and breadth, with new and innovative offerings added to enhance the learning experience of course attendees. The absolute objective of *Specialty Review in Neonatology* is to provide our attendees with a clear, focused and comprehensive educational program to prepare them for the ABP Neonatology Board Certification Exam. Master teachers lead every lecture and tutorial. Some examples include:

- Neonatal Pulmonary Physiology by Lucky Jain, MD of Emory University School of Medicine
- Neonatal Cardiac Physiology by Dara Brodsky, MD
- Clinical Biostatistics for the Neonatologist by Jonn Zupanci, MD of Boston Children's/Harvard University School of Medicine

The faculty members are chosen primarily for their teaching and lecturing skills, and are committed to providing the absolute best learning experience for attendees. Faculty also make themselves available for one-on-one instruction after their lectures. Lectures are enhanced through the tutorial format, which uses the Audience Response System (ARS). The full syllabus, with every slide presented in the course, is available only to course attendees.

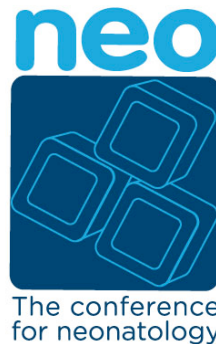
The MEDNAX Center for Research, Education, Quality and Safety is excited to see you at *Specialty Review in Neonatology* 2017. While the course is geared towards neonatologists preparing for their ABP Neonatal-Perinatal Certification Examination, it is also a tremendous foundational review in neonatal-perinatal pathophysiology for advance practice nurses, neonatology fellows and residents in training. With six days packed full of core fundamental pathophysiology and medical management techniques, in an enthusiastic and entertaining learning environment, we are certain attendees will agree that *Specialty Review in Neonatology* is the premier review course in the specialty.

This year's combined events at the incredible Hilton Orlando Bonnet Creek Resort are guaranteed to be the pivotal educational program of the year in neonatal-perinatal medicine. We very much hope that you can join us for one of these meetings, and promise you an educational experience (not to mention delish food) that you will not soon forget.

NT



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## ACCREDITATION INFORMATION

### NEO:

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Melanie Pepper, Director of Professional Nursing Education  
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FEBRUARY 22<sup>nd</sup> - WEDNESDAY SESSION  
NEO CQSI PRE-CONFERENCE AGENDA

**Moderators:** *Dr. Dan Ellsbury Director of CQI – Pediatrix Medical Group, Inc.; Dr. Robert Ursprung, Associate Director of CQI – Pediatrix Medical Group, Inc.*

**8:00-9:00 am - Quality Improvement Project Design**

**9:00-9:45 am - Clinical Problem Solving Workshop: How to Use Your Data**

**9:45-10:30 am - Avoiding Iatrogenesis: Case Studies in Medical Misadventure**

**10:30-11:00 am - Break & Exhibits**

**11:00-11:45 am - Avoiding Diagnostic Error**

**11:45 am-12:30 pm - Logical Fallacies & Spurious Correlations in Research**

**12:30-2:00 pm - Lunch & Exhibits**

**2:00-2:45 pm - What's New? Recent Research of Interest**

**2:45-3:30 pm - The Small Baby Unit: Designed to Succeed?**

**3:30-4:00 pm - Break & Exhibits**

**4:00-5:00 pm - Selected Poster Symposium Sessions**

**5:00 pm - Adjourn**

*\*You do not have to be registered for NEO to attend the Continuous Quality Improvement Symposium.*



**SAVE THE 2018 MEETING DATE!**

**NEO: The Conference for Neonatology**

*February 22-25, 2018*

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**SELECTED QUOTES FROM PREVIOUS  
NEO SYMPOSIUMS**

*"All of the presenters today were dynamic, captivating, good speakers, gave direct content, amicable, funny, kept my attention well, interactive, animated."*

*"Conference is great. Hard to improve upon it. I say that every year, but it is always better each time."*

*"Always an informative conference with current information for evidence-based practice. Speakers are the Best."*

*"Good scientific presentations that were understandable, attributable to talent and experience of presenters."*

*"This is and always has been a wonderful conference."*

*"I always enjoy this conference."*

*"Wonderful conference. Very relevant."*

*"Excellent conference. I especially appreciated the review of commonly practiced, but poorly supported treatment regimens."*

*"Excellent Conference!!"*

*"Fantastic conference!"*

*"Really appreciated session on breaking bad news and parent perspectives."*

*"The Preemie Parent Panel was (comprised of) unbelievably BRAVE PEOPLE to have the courage to tell their stories to so many strangers. Information was very honest but compassionately given. They were sincere and knowledgeable."*

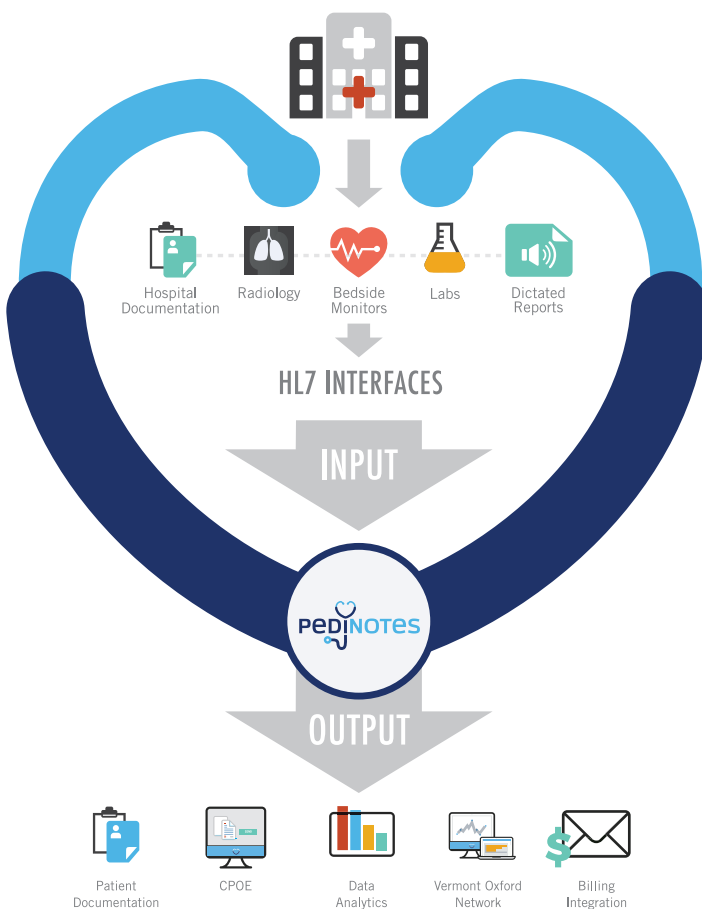


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NEO: THE CONFERENCE FOR NEONATOLOGY  
FEBRUARY 23<sup>rd</sup> - THURSDAY SESSION

**FLUIDS AND FUELS FOR THE MICRO PREMIE**

**7:45-8:00 am** - Introductory Remarks

**8:00-9:00 am** - Soggy or Dry? – What's Most Appropriate?  
– Jeffrey Segar, University of Iowa

**9:00-10:00 am** - Advancing Feedings – Is There a Best Practice – Namasivayam Ambalavanan, University of Alabama at Birmingham

**10:00-10:30 am** - Break & Exhibits

**10:30-11:30 am** - What's Your Gut Feeling about Feeding & Transfusions? – James Moore, University of Connecticut

**11:30 am-12:30 pm** - Proteins & Amino Acids – How Much Can You Push That Infant? – Reese Clark / Don Chace, MEDNAX

**12:30-2:00 pm** - Lunch & Exhibits

**DEVELOPING BETTER NICU PRACTICES**

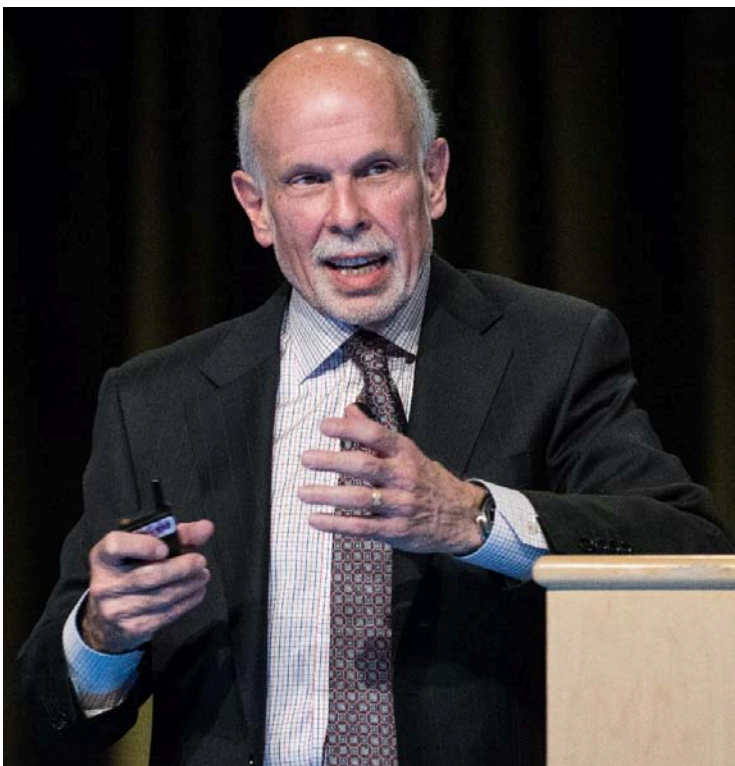
**2:00-3:00 pm** - Guideline Development in the NICU  
– William Engle, Indiana University

**3:00-4:00 pm** - Choosing Wisely – DeWayne Pursley, Harvard Medical School

**4:00-4:30 pm** - Break & Exhibits

**4:30-5:30 pm** - Getting Informed Consent, How and Why?  
– John Lantos, University of Missouri – Kansas City

**6:00-8:00 pm** - Welcome Reception & Exhibits



NEO: THE CONFERENCE FOR NEONATOLOGY  
FEBRUARY 24<sup>th</sup> - FRIDAY SESSION

**NEW THOUGHTS ABOUT BPD**

**8:00-9:00 am** - The Ductus' Role in BPD – Jeffrey Reese, Vanderbilt University

**9:00-10:00 am** - Nutritional Care of the BPD Patient  
– Camilia Martin, Harvard Medical School

**10:00-10:30 am** - Break & Exhibits

**10:30-11:30 am** - Can You Prevent BPD? Pro & Con  
– Alan Jobe, University of Cincinnati (Legends Talk)

**11:30 am-12:30 pm** - Chronic Outpatient Management of BPD – The Pulmonology Perspective – Steve Abman, University of Colorado

**12:30-1:30 pm** - Lunch & Exhibits

**IMPROVING NEONATAL PHYSICIAN & NURSE EDUCATION**

**1:30-2:30 pm** - Where is MOC Today? – Virginia Moyer, American Board of Pediatrics

**2:30-3:30 pm** - Is Neonatal Training Optimal for Physicians and Nurses? – Panel Discussion, Moderator: David Burchfield, University of Florida

**3:30-4:00 pm** - Break & Exhibits

**4:00-5:00 pm** - Evaluation & Management of the Infant with Invasive Fungal Infection – Danny Benjamin, MD

**LEGENDS OF NEONATOLOGY AWARD DINNER**

**7:00-10:00 pm** - Legends Honorees:

- Dr. Alan H. Jobe, MD, PhD
- Dr. Richard S. Polin, MD





**NEO: THE CONFERENCE FOR NEONATOLOGY  
FEBRUARY 25<sup>th</sup> - SATURDAY SESSION**

**NEW THREATS IN INFECTIOUS DISEASES**

**8:00-9:00 am - Zika Virus, the Fetus & Neonate** – *Sonja Rasmussen, Centers for Disease Control and Prevention*

**9:00-10:00 am - Congenital & Perinatal Cytomegalovirus (CMV) Infections: An Update on Diagnosis and Management** – *Gail Harrison, Baylor College of Medicine*

**10:00-10:30 am - Break & Exhibits**

**10:30-11:30 am - Infection and Brain Development** – *Irina Burd, Johns Hopkins University*

**11:30 am-12:30 pm - Neonatal Pathogenesis & Prevention of Central Nervous System Injury (Legends Talk)** – *Richard Polin, Columbia University*

**12:30-1:30 pm - Lunch & Exhibits**

**Afternoon Free**



**NEO: THE CONFERENCE FOR NEONATOLOGY  
FEBRUARY 26<sup>th</sup> - SUNDAY SESSION**

**THE SAFE DISCHARGE OF THE MICRO PREMIE**

**7:00-8:00 am - Breakfast & Exhibits**

**8:00-9:00 am - What's the Apnea Story Today?**  
– *Eric Eichenwald, University of Pennsylvania*

**9:00-10:00 am - The Management of Feeding Aversion**  
– *Stephanie Merhar, University of Cincinnati*

**10:00-10:30 am - Break**

**10:30-11:30 am - Long-Term Outcomes for ROP**  
– *Graham Quinn, University of Pennsylvania*

**11:30 am -12:30 pm - Developmental Follow-up & Long-Term Outcomes for the Micro Premie** – *Saroj Saigal, McMaster University*



# The Legends of Neonatology



The *Legends of Neonatology Hall of Fame* was established in 2007. Since its inception, the *Legends of Neonatology Award Dinner* has honored remarkable individuals whose efforts have added so much to the care of the critically-ill neonate. The Honorees in 2016 are: Alan H. Jobe, MD, PhD and Richard Polin, MD. Congratulations to the 2016 honorees. Please join us for the *Legends of Neonatology Award Dinner* - Friday, February 24<sup>th</sup>, 2017 at 7:00 pm.

## The Legends of Neonatology 2016 Honorees



**Alan H. Jobe, MD, PhD:** Dr. Jobe graduated Phi Beta Kappa from Stanford University with a degree in Biology in 1967. He then completed MD and PhD degrees in 1973 at the University of California, San Diego. His PhD research was on regulation of the Lac operon with Drs. Melvin and Suzanne Cohn at the Salk Institute. Dr. Jobe completed his pediatric residency in 1975 and fellowship in Neonatology in 1977 at the University of California, San Diego. He joined the Department of Pediatrics at Harbor-UCLA in

1977 where he became a Professor of Pediatrics at UCLA in 1983. He became Director of the Perinatal Research Laboratories at the Walter P. Martin Research Center at Harbor-UCLA in 1995, and he was named the 1st Joseph W. St. Geme, Jr., Professor of Pediatrics at UCLA in 1995. He moved to Cincinnati Children's Hospital, University of Cincinnati in 1997 where he presently is Professor of Pediatrics in the divisions of Neonatology and Pulmonary Biology.

Dr. Jobe performed many of the metabolic and physiologic studies that resulted in FDA approval of surfactant for the treatment of Respiratory Distress Syndrome. His research interests are in surfactant homeostasis, lung injury and Bronchopulmonary Dysplasia, fetal inflammation, and lung development. He has had continuous R01 funding since fellowship. He was the Director of a P-50 Program Project Grant from NHLBI to study surfactant homeostasis in transgenic animal models at Cincinnati Children's Hospital Medical Center. He has worked for 22 years with NIH and Australian NHMRC funding in Perth, Western Australia and Cincinnati on translational research to understand fetal lung maturation, fetal inflammation, and the risks of Bronchopulmonary Dysplasia. He also directs two clinical studies funded by NHLBI to evaluate chorioamnionitis and lung outcomes in late-preterm infants (RO1) and to identify biomarkers for Bronchopulmonary Dysplasia (U10). He was Chair of the Steering Committee for the NICHD Neonatal Research Network from 1996 to 2006. He was a member of the National Advisory Child Health and Human Development Council for NIH from 2003 to 2007. He presently is the Chair of the Steering Committee for the NICHD Global Research Network, and a consultant to

Fundassmin, a research foundation in Argentina and a consultant for a Bill and Melinda Gates supported evaluation of maternal and infant mortality. His CV lists over 325 peer reviewed publications and over 185 editorials, chapters, and other publications.



**Richard A. Polin, MD:** Dr. Richard A. Polin is the William T. Speck Professor of Pediatrics at Columbia University, College of Physicians and Surgeons in the City of New York and has been Director of the Division of Neonatology at Morgan Stanley Children's Hospital of New York-Presbyterian since 1998.

After earning BA and MD degrees from Temple University, Dr. Polin completed a pediatric internship and residency at

Children's Memorial Hospital in Chicago, and a pediatric residency and neonatology fellowship at Babies' Hospital in NY. He was Pediatric Chief Resident there, from 1974-75 and Rustin McIntosh Fellow in Pediatrics from 1975-77.

An Associate Pediatrician at Children's Hospital from 1975-1977, he was named Outstanding Pediatric Attending for 1976-1977. He won similar honors for 1978-79 and 1982-83 at The Children's Hospital of Philadelphia, where he held the positions of Director of the Housestaff Training Program, Assistant and Associate Physician-in-Chief, Academic Coordinator of Pediatrics, and Acting Director, Neonatology. Temple University's Medical School named Dr. Polin its outstanding alumnus in 1995. In 1998, Dr. Polin returned to Morgan Stanley Children's Hospital of NY- Presbyterian as the Director of Neonatology and Vice-Chairman of the Department of Pediatrics. In 2005 he received the Physician of the Year Award both from the New York-Presbyterian Hospital Columbia University Medical Center and the Morgan Stanley Children's Hospital of New York-Presbyterian, Division of Nursing. In the spring of 2006 Dr. Polin received the National Neonatal Education Award from the AAP's Section on Perinatal Pediatrics.

Dr. Polin has published over 200 original papers, 20 books (including: *Fetal and Neonatal Physiology, Workbook in Practical Neonatology, Pediatric Secrets, Fetal and Neonatal Secrets, Current Pediatric Therapy, Pocket Neonatology*) and more than 200 abstracts. Dr. Polin is the Chair of the NICHD Neonatal Research Network executive steering committee, and he is the past chair of the Sub-board of Neonatal-Perinatal Medicine.

NT

## Neonatology Hall of Fame Past Honorees

### 2016

Vinod K. Bhutani, MD, FAAP  
Ronald Bloom, MD  
Catherine Cropley, RN  
Dharmapuri Vidyasagar, MD

### 2015

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Philip Sunshine, MD

### 2014

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Alan Spitzer, MD  
Joseph J. Volpe, MD

### 2013

Lilly Dubowitz, MD, MRCP, FRCP  
M. Jeffrey Maisels, MB, BCH, DSC  
Jen-Tien Wung, MD, FCCM

### 2012

William Oh, MD  
Abraham M. Rudolph, MD

### 2011

Forrest M. Bird, MD, PhD, SCD  
Stanley J. Dudrick, MD

### 2010

John A. Clements, MD  
George Gregory, MD

### 2009

Robert Bartlett, MD, FACS  
William Norwood, MD

### 2008

Avroy Fanaroff, MD  
Marshall Klaus, MD  
Jerold Lucey, MD

### 2007

Virginia Apgar, MD (deceased)  
Maria Delivoria-Papadopoulos, MD  
Mary Ellen, MD  
Lucille Ann Papile, MD  
Mildred Stahlman, MD

## EVIDENCE-BASED WEBINAR

# Early Inhaled Nitric Oxide and Progression of Hypoxic Respiratory Failure (HRF)

See us at Neo 2017 in Orlando, FL at **booth #201/203** to learn more, or view the webinar on-demand at [INOMAX.com/earlieruse](http://INOMAX.com/earlieruse)

### Created by practitioners, for practitioners.

Review various elements of HRF treatment, including:

- Acute HRF in newborns
- The pathophysiology of HRF
- Optimizing oxygenation in HRF
- Evidence for the earlier use of inhaled nitric oxide in the treatment of HRF



**Satyan Lakshminrusimha, MD**

Chief, Division of Neonatology  
Women and Children's  
Hospital of Buffalo



**Ashley Darcy Mahoney, PhD, NNP-BC**

Neonatal Nurse Practitioner,  
South Dade Neonatology  
Assistant Professor,  
Emory University School of Nursing

### Indication

INOMAX is indicated to improve oxygenation and reduce the need for extracorporeal membrane oxygenation in term and near-term (>34 weeks gestation) neonates with hypoxic respiratory failure associated with clinical or echocardiographic evidence of pulmonary hypertension in conjunction with ventilatory support and other appropriate agents.

### Important Safety Information

- INOMAX is contraindicated in the treatment of neonates dependent on right-to-left shunting of blood.
- Abrupt discontinuation of INOMAX may lead to increasing pulmonary artery pressure and worsening oxygenation.
- Methemoglobinemia and NO<sub>2</sub> levels are dose dependent. Nitric oxide donor compounds may have an additive effect with INOMAX on the risk of developing methemoglobinemia. Nitrogen dioxide may cause airway inflammation and damage to lung tissues.
- In patients with pre-existing left ventricular dysfunction, INOMAX may increase pulmonary capillary wedge pressure leading to pulmonary edema.
- Monitor for PaO<sub>2</sub>, inspired NO<sub>2</sub>, and methemoglobin during INOMAX administration.
- INOMAX must be administered using a calibrated INOmax DS<sub>IR</sub><sup>®</sup> Nitric Oxide Delivery System operated by trained personnel. Only validated ventilator systems should be used in conjunction with INOMAX.

Please see **Brief Summary of Prescribing Information** on adjacent page.



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# INOMax® (nitric oxide gas)

## Brief Summary of Prescribing Information

### INDICATIONS AND USAGE

#### Treatment of Hypoxic Respiratory Failure

INOMax® is indicated to improve oxygenation and reduce the need for extracorporeal membrane oxygenation in term and near-term (>34 weeks) neonates with hypoxic respiratory failure associated with clinical or echocardiographic evidence of pulmonary hypertension in conjunction with ventilator support and other appropriate agents.

### CONTRAINDICATIONS

INOMax is contraindicated in neonates dependent on right-to-left shunting of blood.

### WARNINGS AND PRECAUTIONS

#### Rebound Pulmonary Hypertension Syndrome following Abrupt Discontinuation

Wean from INOMax. Abrupt discontinuation of INOMax may lead to worsening oxygenation and increasing pulmonary artery pressure, i.e., Rebound Pulmonary Hypertension Syndrome. Signs and symptoms of Rebound Pulmonary Hypertension Syndrome include hypoxemia, systemic hypotension, bradycardia, and decreased cardiac output. If Rebound Pulmonary Hypertension occurs, reinstate INOMax therapy immediately.

#### Hypoxemia from Methemoglobinemia

Nitric oxide combines with hemoglobin to form methemoglobin, which does not transport oxygen. Methemoglobin levels increase with the dose of INOMax; it can take 8 hours or more before steady-state methemoglobin levels are attained. Monitor methemoglobin and adjust the dose of INOMax to optimize oxygenation.

If methemoglobin levels do not resolve with decrease in dose or discontinuation of INOMax, additional therapy may be warranted to treat methemoglobinemia.

#### Airway Injury from Nitrogen Dioxide

Nitrogen dioxide (NO<sub>2</sub>) forms in gas mixtures containing NO and O<sub>2</sub>. Nitrogen dioxide may cause airway inflammation and damage to lung tissues.

If there is an unexpected change in NO<sub>2</sub> concentration, or if the NO<sub>2</sub> concentration reaches 3 ppm when measured in the breathing circuit, then the delivery system should be assessed in accordance with the Nitric Oxide Delivery System O&M Manual troubleshooting section, and the NO<sub>2</sub> analyzer should be recalibrated. The dose of INOMax and/or FIO<sub>2</sub> should be adjusted as appropriate.

#### Worsening Heart Failure

Patients with left ventricular dysfunction treated with INOMax may experience pulmonary edema, increased pulmonary capillary wedge pressure, worsening of left ventricular dysfunction, systemic hypotension, bradycardia and cardiac arrest. Discontinue INOMax while providing symptomatic care.

### ADVERSE REACTIONS

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. The adverse reaction information from the clinical studies does, however, provide a basis for identifying the adverse events that appear to be related to drug use and for approximating rates.

Controlled studies have included 325 patients on INOMax doses of 5 to 80 ppm and 251 patients on placebo. Total mortality in the pooled trials was 11% on placebo and 9% on INOMax, a result adequate to exclude INOMax mortality being more than 40% worse than placebo.

In both the NINOS and CINRGI studies, the duration of hospitalization was similar in INOMax and placebo-treated groups.

From all controlled studies, at least 6 months of follow-up is available for 278 patients who received INOMax and 212 patients who received placebo. Among these patients, there was no evidence of an adverse effect of treatment on the need for rehospitalization, special medical services, pulmonary disease, or neurological sequelae.

In the NINOS study, treatment groups were similar with respect to the incidence and severity of intracranial hemorrhage, Grade IV hemorrhage, periventricular leukomalacia, cerebral infarction, seizures requiring anticonvulsant therapy, pulmonary hemorrhage, or gastrointestinal hemorrhage.

In CINRGI, the only adverse reaction (>2% higher incidence on INOMax than on placebo) was hypotension (14% vs. 11%).

Based upon post-marketing experience, accidental exposure to nitric oxide for inhalation in hospital staff has been associated with chest discomfort, dizziness, dry throat, dyspnea, and headache.

### DRUG INTERACTIONS

#### Nitric Oxide Donor Agents

Nitric oxide donor agents such as prilocaine, sodium nitroprusside and nitroglycerine may increase the risk of developing methemoglobinemia.

### OVERDOSAGE

Overdosage with INOMax is manifest by elevations in methemoglobin and pulmonary toxicities associated with inspired NO<sub>2</sub>. Elevated NO<sub>2</sub> may cause acute lung injury. Elevations in methemoglobin reduce the oxygen delivery capacity of the circulation. In clinical studies, NO<sub>2</sub> levels >3 ppm or methemoglobin levels >7% were treated by reducing the dose of, or discontinuing, INOMax.

Methemoglobinemia that does not resolve after reduction or discontinuation of therapy can be treated with intravenous vitamin C, intravenous methylene blue, or blood transfusion, based upon the clinical situation.

INOMAX® is a registered trademark of INO Therapeutics LLC, a Mallinckrodt Pharmaceuticals company.

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**SPECIALITY REVIEW IN NEONATOLOGY  
FEBRUARY 21<sup>st</sup> - TUESDAY SESSION**

**INTRODUCTION TO THE COURSE**

**8:00-8:10 am - Welcome & Course Overview**  
– *David L. Weisoly, DO*

**MATERNAL-FETAL MEDICINE**

**8:10-9:00 am - The Placenta: Structure, Function and Maternal Disorders Affecting the Fetus** – *David Burchfield, MD*

**9:00-10:00 am - Maternal-Fetal Medicine High Yield Problem-Based Review: Part 1** – *Rodney Edwards, MD*

**10:00-10:30 am - Break**

**10:30-11:30 am - Maternal-Fetal Medicine High Yield Problem-Based Review: Part 2** – *Rodney Edwards, MD*

**11:30 am-12:00 pm - Board Exam Preparation & Audience Response Quiz Session** – *David L. Weisoly, DO*

**GENERAL CARE OF THE NEONATE /  
PHARMACOLOGY /  
FLUIDS AND ELECTROLYTES / BIRTH TRANSITION / DERM**

**12:00-12:30 pm - Neonatal Pharmacology Rapid Review: Audience Response Quiz Session** – *David L. Weisoly, DO*

**12:30-1:30 pm - Lunch**

**1:30-2:15 pm - Neonatal Thermoregulation & Heat Loss: Problem-Based Review & Tutorial** – *Fernando Moya, MD*

*The Dr. Dharmapuri Vidyasagar Lectureship -*  
**2:15-3:00 pm - Fetal and Neonatal Growth / Aberrant Growth States: Problem-Based Review** – *David L. Weisoly, DO*

**3:00-4:00 pm - Water Balance, Electrolytes & Acid Base: Problem-Based Review & Tutorial** – *Fernando Moya, MD*

**4:00-4:30 pm - Break**

**4:30-5:30 pm - Extrauterine Adaptation: Birth Transition / Asphyxia / Neonatal Resuscitation** – *Lucky Jain, MD*

**5:30-6:00 pm - Dermatology Photo Quiz: Rashes & Skin Disorders of the Neonate** – *Matthew Saxonhouse, MD; David L. Weisoly, DO*



Visit [www.SpecialtyReview.com](http://www.SpecialtyReview.com) for up-to-date program changes.

**SPECIALITY REVIEW IN NEONATOLOGY  
FEBRUARY 22<sup>nd</sup> - WEDNESDAY SESSION**

**NEONATAL GASTROENTEROLOGY AND NUTRITION**

**7:00-8:00 am - Breakfast**

**8:00-10:15 am - Problem-Based Gastroenterology Review – An Audience-Participatory Tutorial** – *James Moore, MD, PhD; Camilia Martin, MD*

**10:15-10:45 am - Break**

**10:45 am-12:15 pm - All About Neonatal Nutrition – An Audience-Participatory Tutorial** – *James Moore, MD, PhD; David L. Weisoly, DO*

**12:15-1:15 pm - Lunch**

**NEONATAL INFECTIOUS DISEASES /  
NEONATAL NEPHROLOGY**

**1:15-2:45 pm - Neonatal Bugs: Bacterial, Viral & Fungal Infections – An Interactive Review** – *Robert Lawrence, MD*

**2:45-3:15 pm - Break**

**3:15-4:30 pm - I.D. Clinical Dilemmas & Photographic Tutorial: Audience Response Quiz Session** – *Robert Lawrence, MD*

**4:30-5:15 pm - Neonatal Nephrology: Renal Development & Function, Renal Failure** – *Ravi Mangal Patel, MD*

**5:15-6:00 pm - Neonatal Nephrology: AKI & Nephrology Problems/Calculations** – *Ravi Mangal Patel, MD*

**6:00 pm - Adjourn**

**7:00-9:00 pm - 3<sup>rd</sup> Annual SR Battle of the Boards: An Evening of Quiz Questions & Camaraderie!** – *Dara Brodsky, MD; Camilia Martin, MD; James Moore, MD, PhD; Matthew Saxonhouse, MD; David L. Weisoly, DO*





SPECIALITY REVIEW IN NEONATOLOGY  
FEBRUARY 23<sup>rd</sup> - THURSDAY SESSION

NEONATAL RESPIRATORY SYSTEM

**8:00-8:45 am - Lung Development, Lung Fluid Composition & Clearance** – *Lucky Jain, MD*

**8:45-9:30 am - RDS, Surfactant & Surfactant Proteins, Surface Tension and Balloon Problems** – *Lucky Jain, MD*

**9:30-10:00 am - Break & Exhibits**

**10:00-11:00 am - The Dr. Richard Rivas Memorial Award Lecture - Respiratory Mechanics: Respiratory Physiology, Pulmonary Function Testing**  
– *David Burchfield, MD*

**11:00-11:45 am - Pulmonary Hypertension: Hypoxic Respiratory Failure / MAS / PPHN & Intrinsic Pulmonary Disorders or Anomalies Resulting in PPHN** – *David Burchfield, MD*

**11:45 am-12:30 pm - A NEW Case-Based Review of O<sub>2</sub> & CO<sub>2</sub> Physiology, Alveolar Gas Equation, Bohr Effect with Audience Response** – *Martin Keszler, MD*

**12:30-1:30 pm - Lunch & Exhibits**

**1:30-2:15 pm - NEW: Physiology of Mechanical Ventilation: Do You Understand the Modes, Loops & Curves? A Case-Based Review with Audience Response** – *Martin Keszler, MD*

**2:15-3:45 pm - Pulmonary Problem Solving Workshop / Tutorial I (Audience Response Quiz Session)** – *Lucky Jain, MD; Martin Keszler, MD*

**3:45-4:15 pm - Break & Exhibits**

**4:15-5:15 pm - Pulmonary Problem-Solving Workshop / Tutorial II** – *Lucky Jain, MD; Martin Keszler, MD*

**5:15-6:15 pm - Classic Neonatology Problems & Associations – An Interactive High Yield Review for Neonatologists** – *Matthew Saxonhouse, MD; David L. Weisoly, DO*

**6:15-8:00 pm - Annual Specialty Review and NEO Faculty - Fellows Reception - Welcome Reception & Exhibits (Located in Exhibit Hall)**

SPECIALITY REVIEW IN NEONATOLOGY  
FEBRUARY 24<sup>th</sup> - FRIDAY SESSION

NEONATAL CARDIOVASCULAR SYSTEM

**8:00-8:35 am - Cardiovascular Physiology of the Fetus**  
– *Dara Brodsky, MD*

**8:35-9:15 am - Cardiac Hemodynamics in the Newborn**  
– *Dara Brodsky, MD*

**9:15-9:45 am - Review of the Pathophysiology & Pharmacotherapy of Neonatal Shock** – *Dara Brodsky, MD*

**9:45-10:15 am - Break & Exhibits**

**10:15-11:15 am - The Physiology of Congenital Heart Disease & PDA – Part I** – *Laurie Armsby, MD*

**11:15 am-12:00 pm - The Physiology of Congenital Heart Disease – Part II – Case-Based Examples** – *Laurie Armsby, MD*

**12:00-12:30 pm - Cardiac Physiology: Problem-Based Examples & Intro to ECG** – *Laurie Armsby, MD*

**12:30-1:30 pm - Lunch & Exhibits**

**1:30-2:15 pm - ECG, Dysrhythmias & Electrocardiography: A Case-Based Review** – *Laurie Armsby, MD*

CORE SCHOLARLY ACTIVITIES / BIostatISTICS /  
CV PHYSIOLOGY TUTORIAL

**2:15-3:45 pm - Review of Core Scholarly Activities & Biostatistics for the Neonatologist** – *John Zupancic, MD*

**3:45-4:15 pm - Break & Exhibits**

**4:15-6:00 pm - A New Cardiovascular Physiology Problem-Solving Tutorial** – *Dara Brodsky, MD; Laurie Armsby, MD*

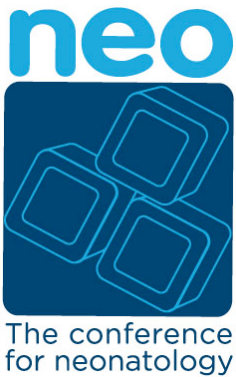
LEGENDS OF NEONATOLOGY AWARD DINNER

**7:00-10:00 pm - Legends Honorees:**

- Dr. Alan H. Jobe, MD, PhD
- Dr. Richard S. Polin, MD









SPECIALITY REVIEW IN NEONATOLOGY  
FEBRUARY 25<sup>th</sup> - SATURDAY SESSION

NEONATAL ENDOCRINOLOGY & METABOLISM

- 8:00-8:45 am** - Neonatal Thyroid & Pituitary Disorders – *Tandy Aye, MD*
- 8:45-9:30 am** - Adrenal Gland Disorders / Steroid Pathways / CAH Review – *Tandy Aye, MD*
- 9:30-10:15 am** - Calcium & Phosphorus Metabolism & Disorders – *Tandy Aye, MD*
- 10:15-10:45 am** - Break & Exhibits
- 10:45-11:30 am** - Pathophysiology of Glucose Metabolism & Homeostasis – *Tandy Aye, MD*

CORE SCHOLARLY ACTIVITIES / BIostatISTICS FOR  
THE NEONATOLOGIST: PART II

- 11:30 am-12:30 pm** - Lunch & Exhibits
- 12:30-2:15 pm** - Audience Response Quiz: “Do You Really Understand the Stats?” – *Reese Clark, MD*

NEONATAL IMMUNOLOGY

- 2:15-3:00 pm** - High Yield Clinical Immunology for the Neonatologist – *James Wynn, MD*
- 3:00-3:30 pm** - Break

NEONATAL HEMATOLOGY / BILIRUBIN

- 3:30-5:45 pm** -
- All About Hematology: Review of Hematopoiesis, Hemoglobin & Red Cell Disorders – *Matthew Saxonhouse, MD*
  - Review of Platelets & Coagulation – *Matthew Saxonhouse, MD*
  - Pathophysiology, Prevention & Management of Bilirubin, Jaundice & Kernicterus – *Matthew Saxonhouse, MD*
- 5:45-6:15 pm** - Audience Response Quiz on Blood Smears – *Matthew Saxonhouse, MD*



SPECIALITY REVIEW IN NEONATOLOGY  
FEBRUARY 26<sup>th</sup> - SUNDAY SESSION

NEONATAL RADIOLOGY

- 8:00-9:30 am** - Neonatal Radiology: Review of the Basics & Interactive Audience Challenge – *Jon Williams, MD*
- GENETICS, CENTRAL NERVOUS SYSTEM: PART II & NEONATAL NEUROLOGY**
- 9:30-10:30 am** - High Yield Review of Inborn Errors, Enzymatic & Metabolic Disorders – *Michael Gambello, MD*
- 10:30-11:00 am** - Break
- 11:00 am-12:00 pm** - Chromosomal Disorders: A High Yield Rapid Review – *Michael Gambello, MD*
- 12:00-12:45 pm** - Lunch
- 12:45-2:00 pm** - Neonatal Neurology: Review of Neonatal Neurologic Disorders, Seizures, Cerebral Palsy & Neurodevelopmental Outcomes of CP – *Pedro Mancias, MD*
- 2:00-2:45 pm** - Pathophysiology of Cerebral Blood Flow, Intracranial Pressure & IVH – *Michael Weiss, MD*
- 2:45-3:30 pm** - White Matter Injury, HIE, Intracranial & Extracranial Hemorrhage – *Michael Weiss, MD*
- 3:30 pm** - Closing Remarks / Adjournment of Course / CME / Course Evaluations

(Link for Specialty Review Post-Test and SR Essentials to be emailed to attendees in protected non-printable format. Links are time-limited and are available until May 1, 2017 ONLY)



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Pediatrix Medical Group of Central Florida*

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*Professor and Chief of Neonatology  
The University of Florida*

**Reese Clark, MD**

*Vice President, Co-Director  
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*Specialty Review Steering Committee Editor, Neonatology in Review  
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**Camilia Martin, MD**

*Assistant Professor of Pediatrics  
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**Lucky Jain, MD, MBA**

*Faculty-In-Chief, Specialty Review  
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**Melanie Pepper, MS, NNP-BC**

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**Matthew Saxonhouse, MD**

*Associate Course Director, Specialty Review in Neonatology  
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**Robert Ursprung, MD, MMSc**

*Specialty Review Steering Committee Neonatologist  
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Associate Director, Continuous Quality Improvement  
Pediatrix Medical Group, Inc.*

**Dharmapuri Vidyasagar, MD**

*Founder, Specialty Review in Neonatology Professor of Pediatrics Emeritus  
University of Illinois at Chicago College of Medicine*

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Camilia Martin, MD  
Stephanie Merhar, MD, MS  
James Moore, MD, PhD  
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Richard Polin, MD  
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Graham Quinn, MD, MSCE  
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Fernando Moya, MD  
Ravi M. Patel, MD, MSC  
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David Weisoly, DO  
Michael Weiss, MD  
Jon Williams, MD  
James Wynn, MD  
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### NEO CQSI PRE-CONFERENCE FACULTY

Daniel Ellsbury, MD  
Robert Ursprung, MD





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● **NOTE: Early Discount Rate in Red. Available until Dec 31, 2016.**

● Regular Rate: Beginning January 1, 2017

NEO Registration Fees				CQSI Pre-Conference Registration Fees
Registrant Type	NEO Only	NEO and CQSI	NEO-Single Day	CQSI Conference Only
Physician	\$1,050 / \$1,225	\$1,250 / \$1,425	\$500 / \$600	\$350 / \$475
AP / Nurse / PA / Allied Health and Respiratory Therapist	\$825 / \$1050	\$875 / \$1,150	\$500 / \$550	\$350 / \$400
Resident / Fellow	\$725 / \$950	\$875 / \$1,050	\$500 / \$550	
Business / Other	\$1,050 / \$1,225	\$1,250 / \$1,425	\$500 / \$600	\$350 / \$475
	<ul style="list-style-type: none"> <li>•All-access to four days of NEO courses</li> <li>•Lunch &amp; snacks every day</li> <li>•CME / CNE credit processing</li> <li>•Legends Gala Dinner &amp; Awards Ceremony</li> </ul>	<ul style="list-style-type: none"> <li>•All-access to pre-conference courses</li> <li>•All-access to four days of NEO courses</li> <li>•Lunch &amp; snacks every day</li> <li>•CME / CNE credit processing</li> <li>•Legends Gala Dinner &amp; Awards Ceremony</li> </ul>	<ul style="list-style-type: none"> <li>•Choice of 1-day of NEO courses</li> <li>•Lunch &amp; snacks</li> <li>•CME / CNE credit processing</li> <li>•Legends Gala Dinner &amp; Awards Ceremony (<i>additional \$80</i>)</li> </ul>	<ul style="list-style-type: none"> <li>•All-access to pre-conference CQSI Symposium courses</li> <li>•Lunch &amp; snacks</li> <li>•CME/CNE credit processing</li> </ul>

SPECIALITY REVIEW Registration Fees	
Registrant Type	SR ONLY
Physician	\$1,800 / \$2,100
Resident / Fellow / Nurse	\$1,099 / \$1,500

**Cancellation Policy:** From October 24 - December 31, 2016, Full refund less \$175.00 processing fee

January 1, 2017, No refunds



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NEONATOLOGY TODAY
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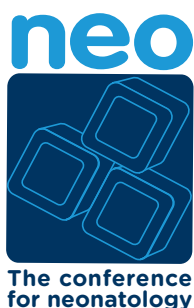
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