



Sunday, May 4, 2014 – 7:30 pm

**Sheraton Vancouver Wall Centre - Grand Ballroom A&B
1088 Burrard Street - Vancouver, British Columbia**

New Perspectives in the Management of Neonatal Respiratory Distress Syndrome

A Free CE-Accredited Satellite Symposium

Supported by an
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Program Overview

Chronic lung disease, specifically respiratory distress syndrome (RDS), remains a significant cause of morbidity and mortality in the preterm infant. The use of exogenous pulmonary surfactants has significantly improved the survival of premature infants with RDS. Currently, surfactants are delivered to the alveoli by dispensing boluses of the liquid formulation into the trachea via an endotracheal tube. Existing evidence indicates that more uniform distribution of the surfactant within the lung is achieved by larger volume boluses administered over a shorter period of time. However, larger and faster boluses also increase the amount of time that the airway is transiently occluded during surfactant administration, raising concerns about potential peridosing adverse effects on factors such as mean arterial blood pressure and cerebral perfusion and oxygenation.

Injury to both the fragile lung parenchyma and airways of the preterm can lead to acute and long-term consequences. Evidence suggests that mechanical ventilation and intubation play lead roles in neonatal lung injury. Optimizing the use of non-invasive respiratory therapy and surfactant administration, along with strategies to minimize intubation and re-intubation has the most promise to reduce chronic lung disease in this population.

Informed consent is a cornerstone of modern medical ethics, as well as a legal requirement. This program will review the philosophical and historical principles that underlie the informed consent doctrine, and explain how the process relates to neonatal patients, who are clearly unable to consent for themselves.

Learning Objectives

At the end of this educational event, participants will be able to:

1. Determine factors associated with the uniformity of surfactant distribution within the lung.
2. Identify the effects of surfactant administration on various physiological parameters (i.e., heart rate, oxygenation).
3. Relate the factors which determine pulmonary surfactant distribution to peridosing physiological effects.
4. Discuss current thinking on reduction of chronic lung disease through the more aggressive pursuit of non-invasive ventilation.
5. Identify the potential role of surfactant therapy in reducing chronic lung disease.
6. Delineate some of the potential consequences of recurrent intubations in the preterm infant.
7. List potential advances in aerosolized surfactant and its role in preventing chronic lung disease in preterm infants.
8. Describe the philosophical/historical principles of the informed consent doctrine and how the current process relates to neonatal patients.
9. Discuss how informed consent principles apply with respect to RDS treatment in newborns.

Continuing Education

Physicians and Nurses

Nemours is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Nemours designates this live material for a maximum of 1.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in this activity.

Educational Review Systems is an approved provider of continuing education in nursing by ASNA, an accredited provider by the ANCC/Commission on Accreditation. Provider # 5-115.

This program is approved for 1.5 hours of continuing nursing education. Educational Review Systems is also approved for nursing continuing education by the state of California, the state of Florida and the District of Columbia.

Chair: Stephen Welty, MD; Texas Children's Hospital

7:30–8:00 pm

Light buffet, carving stations and beverages

8:00–8:30 pm

Therapeutic Surfactant Composition & Volumetric Dose – Impact on Lung Distribution and Cardiorespiratory Physiology

– **Arlin Blood, PhD; Loma Linda University**

8:30–9:00 pm

Reducing Management Invasiveness for Infants with Respiratory Distress Syndrome – Where Are We, Where Are We Going?

– **Neil Finer, MD; University of California, San Diego**

9:00–9:30 pm

Considerations Regarding Informed Consent of Parents of the Preterm Child

– **Jonathan Fanaroff, MD, JD; Rainbow Babies and Children's Hospital**

To pre-register for this free program please log onto www.NICUniversity.org

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