NRP Grants Summary and Bright Ideas Showcase

C0010 NRP Current Issues Seminar
Marya Strand, MD, MS, FAAP
Saint Louis University
St. Louis, MO
Faculty Disclosure Information

In the past 12 months, I have had no relevant financial relationships with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial service(s) discussed in this CME activity.

I do (or) do not intend to discuss an unapproved/investigative use of a commercial product/device in my presentation.
Learning Objectives

At the conclusion of the session, participants should be able to:

Showcase innovative ideas and quality improvement initiatives within the NRP community.
NRP Research Grant and Young Investigator Award

The awards are designed to support basic science, clinical, educational, or epidemiological research pertaining to the broad area of neonatal resuscitation.

• Physicians-in-training or individuals within four years of completing fellowship training are eligible to apply for up to $15,000 through the NRP Young Investigator Award.

• Any health care professional with an interest in neonatal resuscitation can submit a proposal for up to $50,000 through the NRP Research Grant Program.
Top Initiative
What are the best ways to optimize care in the delivery room using NRP? Initiatives can include addressing gaps in our understanding of transitional physiology and evidence-based resuscitation practice, teaching and evaluating the cognitive, technical and behavioral skills necessary for successful resuscitation of the newborn and retention of skills and knowledge over time.

Education
Optimization of NRP Education
Basic and Clinical Research

• Placental transfusion
• Effective delivery of ventilation
• Use of oxygen
• Methods to support newborn circulation (chest compressions, medications)
• Human factors impact on delivery room resuscitation
• Use of telemedicine in neonatal resuscitation
• Resuscitation for special considerations
Funded Research Grants

- Delayed Cord Clamping in Term Lambs with Asystolic Cardiac Arrest
- Flush volume and Epinephrine Pharmacokinetics
- Meconium Aspiration Syndrome and Non-Vigorous Neonates
- Novel Transitional Goal Saturations for Preterm Resuscitation in the Delivery Room: A Randomized Control Trial
- MRSOPA-Drills to improve mask ventilation in the delivery room
Funded Young Investigator Awards

• Impact of Flow Disruptions in the Delivery Room
• Optimizing Chest Compressions Targeting Gas Exchange and Hemodynamics in a Transitional Cardiac Arrest Model
• Development and Validation of a Competency Assessment Tool for Bag Mask Ventilation
• Prevention of Skills Decay Through Telesimulation
• Identification of Respiratory Targets for Lung Aeration
• Optimizing Cognitive Workload
• Optimal Oxygen Saturation Range During Resuscitation Following Severe Asphyxia
• Tracheal Suctioning In "Spontaneous" Meconium Aspiration in Non-Vigorous Asphyxiated Lambs AND Optimal Oxygenation with Neonatal Lung Injury AND Device