



**NYU Winthrop**  
Hospital

**26<sup>TH</sup> ANNUAL NEW YORK REGIONAL  
NEONATOLOGY & PERINATAL SYMPOSIUM**

# **ISSUES IN NEONATOLOGY**

**MARCH 7, 2019**

**THE GARDEN CITY HOTEL**  
Garden City, New York



Accredited by NYU Winthrop Hospital  
Approved for 5.50 CME-CE Credits

# OVERVIEW

The Issues in Neonatology 26th Annual New York Regional Neonatology & Perinatal Symposium has long been recognized as the most well regarded and well attended regional conference in this field in the entire New York metropolitan area. For our 25th Anniversary Symposium in 2018, Dr. Michael W. Young, the 2017 Nobel Prize Laureate in Physiology/Medicine, delivered the keynote speech. As in prior years, the 2019 course will offer a nationally recognized panel of expert faculty in the specialty of neonatology. The goal of the 26th Annual New York Regional Neonatology & Perinatal Symposium is to provide cutting-edge information about neonatal care by teaching physicians, nurses, nurse practitioners, residents and fellows, the pathogenesis of a variety of disease states that affect newborns, and how the development of new therapeutic approaches (pharmacologic and technologic) can influence care outcomes.

Based on written as well as verbal evaluations and surveys from last year's symposium, several gaps in knowledge were identified, hence the objectives of this program were selected. Of special concern to 63.6% of the 2018 exit survey responders (N= 157 responders, 96 non-responders) were practice changes that can be addressed around: a) aspiration, reflux, and safety issues occurring during feeding; b) relationship between transfusion and NEC; c) early diagnosis of NEC using new technologies; and d) identification and optimal management of pain in newborns.

There are recent advances in the care of Very Low Birth Weight (VLBW) infants. A recent needs assessment identified the following areas in knowledge, competence and performance that we plan to address in the course curriculum including:

- 1) Reviewing the epidemiology of non-acute and prolonged pain in newborns and practices used for its management;
- 2) Examining how pain terms are commonly used in clinical settings and in published literature;
- 3) Understanding the basic principles of near infrared spectroscopy monitoring technique;
- 4) Learning about the current established uses of near infrared spectroscopy in infants specially related to diagnosis of NEC;
- 5) Elucidating biological mechanisms and developmental pathways involved in neonatal oral feeding;
- 6) Discussing the applicability of integrating advanced transcriptomic platforms into newborn care;
- 7) Utilizing data to generate personalized, targeted, approaches to improving neonatal oral feeding outcomes;
- 8) Showing how NIH-funded studies have impacted our neonatal care;
- 9) Demonstrating the benefits of antenatal steroid therapy in improving survival, even in preterm infants under 28 weeks of gestation;
- 10) Reviewing studies that led to improved perinatal care;
- 11) Understanding how to optimize use of genomic data to drive clinical decision making;
- 12) Updating of recent development of genomics evidence base;
- 13) Reviewing personalization and population impact of genome sequencing;
- 14) Understanding engineering Two-day Diagnosis with rapid Whole Genome Sequencing;
- 15) Understanding the relationship of intestinal microbes to Innate Immune system and Inflammatory pathways in the GI tract.

## COMPETENCIES

This symposium will address the following ACGME/ABMS competencies:

- Medical knowledge
- Patient care
- Practice-based learning and improvement
- Systems-based practice

## TARGET AUDIENCE

Neonatologists, fellows, residents, nurses and neonatal nurse practitioners involved in the care of neonates.

## ACCREDITATION

### ACCME Accreditation

NYU Winthrop Hospital is **Accredited with Commendation** by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

### AMA Credit Designation

NYU Winthrop Hospital designates this live activity for a maximum of **5.50 AMA PRA Category 1 Credit(s)™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

### Nursing Accreditation

NYU Winthrop Hospital is an Approved Provider of continuing nursing education by the Northeast Multistate Division, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. Provider Number: #NY009-2020 – 10/9/20. **5.50 contact hours will be awarded.**

## FACULTY DISCLOSURE

It is the policy of NYU Winthrop Hospital to adhere to ACCME and ANCC accreditation requirements, policies and Standards for Commercial Support in order to ensure content validity, fair balance, independence, objectivity and scientific rigor in all its sponsored programs. All faculty, planners and authors of educational content, who participate in sponsored programs, must disclose to the audience any potential, apparent or real conflicts of interest related to their contribution to the activity, as well as any discussions of off-label or investigational uses of any commercial products or devices not yet approved in the United States. All faculty disclosures will be made at the time of the activity.

# AGENDA

7:30a **REGISTRATION – BREAKFAST**

8:20a **OPENING REMARKS**

**Nazeeh Hanna, MD**

8:30a **NON-ACUTE PAIN IN NEWBORNS: Looking Beyond the Heelstick**

**Kanwaljeet J. S. Anand, MBBS, D.Phil, FAAP, FCCM, FRCPCB**

*Objectives:*

- Review the epidemiology of non-acute/prolonged pain in newborns and practices used for its management
- Discuss the previous attempts to define prolonged, persistent, or chronic pain in newborns
- Examine how these terms were commonly used in clinical settings and in the published literature
- Prepare a conceptual framework for the definitions of acute, persistent, prolonged, and chronic pain in newborns

9:20a **DERMATOLOGIC PEARLS TO IMPROVE THE CARE OF THE NEONATE**

**Vikash Oza, MD**

*Objectives:*

- Identify cutaneous morphologies that can serve as markers of severe infection
- Develop a checklist for next steps for working up birthmarks
- Recognize and be able to manage genetic dermatologic disorders in the NICU

10:10a Coffee Break

10:30a **CAN SALIVA ANALYSIS UNCOVER DISRUPTIVE DEVELOPMENTAL PATHWAYS AFFECTING ORAL FEEDING SUCCESS IN THE NEWBORN?**

**Jill L. Maron MD, MPH**

*Objectives:*

- Elucidate biological mechanisms and developmental pathways involved in neonatal oral feeding
- Discuss the applicability of integrating advanced transcriptomic platforms into newborn care
- Utilize data to generate personalized, targeted, approaches to improving neonatal oral feeding outcomes

11:20a **THE IMPACT OF NICHD-FUNDED RESEARCH ON TODAY'S NEONATAL PERINATAL CARE**

**Tonse N. K. Raju, MD, DCH**

*Objectives:*

- Demonstrate the benefits of antenatal steroid therapy in improving survival, even in preterm infants under 28 weeks of gestation
- Review studies that led to improved perinatal care, such as: antepartum prophylaxis during cesarean delivery to reduce postpartum infection; use of antenatal steroid for late preterm deliveries; stopping therapies that had no therapeutic or predictive value, such as: Home uterine monitoring; treating bacterial vaginosis; fetal oxymetry and sophisticated fetal EKG with ST-segment analyses to predict compromised fetuses and reduce unnecessary C/sections — all of these were shown to be of little or no use, thus saving millions of dollars in patient care cost
- Demonstrate that treatment of borderline hypothyroidism or hypothyroxinemia in pregnant women DOES not lead to reductions in CP rates in infants born to such women
- Demonstrate the benefits of antenatal Mg to reduce the risk of CP in preterm deliveries

12:15p Lunch Break

- 1:30p **RAPID GENOME WIDE SEQUENCING: An Upcoming Standard of Care for Acutely Ill Neonates**  
**David Dimmock, MD**  
*Objectives:*
- Optimize use of genomic data to drive clinical decision making
  - Update of recent development of genomics evidence base
  - Review personalization and population impact of genome sequencing
  - Understand engineering Two-day Diagnosis with rapid Whole Genome Sequencing
- 2:20p **CLINICAL APPLICATIONS OF MONITORING NEONATES WITH NEAR INFRARED SPECTROSCOPY**  
**Sean M. Bailey, MD, FAAP**  
*Objectives:*
- Understand the basic principles of near infrared spectroscopy monitoring technique
  - Learn about the current established uses of near infrared spectroscopy in infants
  - Recognize the newest areas in neonatal intensive care practice in which near infrared spectroscopy is being employed to help make patient care management decisions
- 3:15p **CLOSING REMARKS**
- 3:30p Adjourn



# FACULTY



## **Nazeeh Hanna, MD\***

*(Activity Director)*  
Chief, Division of Neonatology  
NYU Winthrop Hospital  
Mineola, NY  
Professor of Pediatrics  
Stony Brook University School of Medicine  
Stony Brook, NY  
President, American Society for Reproductive Immunology

## CONFIRMED GUEST FACULTY



## **Kanwaljeet J. S. Anand, MBBS, D.Phil, FAAP, FCCM, FRCPCH**

Professor of Pediatrics (Pediatric Critical Care)  
Anesthesiology, Perioperative & Pain Medicine  
Stanford University Medical Center  
Palo Alto, CA



## **Jill L. Maron, MD, MPH**

Vice Chair of Pediatric Research  
Executive Director  
Mother Infant Research Institute  
Tufts Floating Hospital for Children  
Associate Professor of Pediatrics  
Division of Newborn Medicine  
Tufts University School of Medicine  
Boston, MA



## **Sean M. Bailey, MD, FAAP**

Medical Director  
Neonatal Intensive Care Unit  
Tisch Hospital at NYU Langone Medical Center  
Assistant Professor of Pediatrics  
Division of Neonatology  
New York University School of Medicine  
New York, NY



## **Vikash Oza, MD**

Director of Pediatric Dermatology  
NYU Langone Health  
Assistant Professor of Dermatology and Pediatrics  
New York University School of Medicine  
New York, NY



## **David Dimmock, MD**

Medical Director  
Rady Children's Institute for Genomic Medicine  
Rady Children's Hospital  
San Diego, CA



## **Tonse N. K. Raju, MD, DCH**

Chief, Pregnancy and Perinatology Branch  
NIH/NICHD  
Washington, DC

## PLANNING COMMITTEE

### **Vikramaditya Dumpa, MD**

Staff Neonatologist  
NYU Winthrop Hospital  
Mineola, NY

### **Rob Martin, MBA, CHCP, CPHIMS**

Assistant Dean, Director of CME  
NYU Winthrop Hospital  
Mineola, NY

### **Peter Sandre, BA**

Manager of CME Events and Compliance  
NYU Winthrop Hospital  
Mineola, NY

# NYU WINTHROP HOSPITAL AWARD FOR INNOVATION IN NEONATAL RESEARCH

**THIS COMPETITION IS DESIGNED TO RECOGNIZE EMERGING RESEARCH IN  
THE FIELD OF NEONATOLOGY**

**THREE CATEGORIES, ONE WINNER IN EACH CATEGORY**

**FIRST PRIZE WINNER FOR BEST ABSTRACT WILL RECEIVE \$2,000.**

## **COMPETITION CATEGORIES**

- Clinical
  - Basic Science
  - Quality Improvement
- 
- Any NICU staff member attending the conference (including residents and fellows) is eligible to submit an abstract.
  - First author must register before submitting an abstract.
  - Abstracts should be structured and consist of no more than 500 words (including title) and organized into four paragraphs labeled: Background, Methods, Results and Conclusions/Impact.
  - Please specify in your email submission which Category you are entering.
  - Please submit as Microsoft Word file using Ariel font in 12 pt. Begin your abstract with title, authors' name and institutions
  - Winners are requested to present their research as a Poster during the conference (March 7, 2019). Please submit abstract by email to Dr. Nazeeh Hanna at [Nazeeh.Hanna@nyulangone.org](mailto:Nazeeh.Hanna@nyulangone.org)

**The first author will be awarded the prize to support their research.**

**SUBMISSION DEADLINE: MONDAY, FEBRUARY 4, 2019.**

**Winners will be notified by Friday, February 15, 2019** and provided with poster instructions.

Poster production is the author's responsibility.



# REGISTRATION

**We accept online registration ONLY for all NYU Winthrop CME-CE courses. Please register at [goo.gl/HrwZkx](http://goo.gl/HrwZkx) SPACE IS LIMITED. REGISTER EARLY.**

## LOCATION

The Garden City Hotel  
45 Seventh St.  
Garden City, NY 11530  
[www.gchotel.com](http://www.gchotel.com)

**CONFIRMATION** All registrants will receive a confirmation via email.

**CANCELLATION** A handling fee of \$25 is deducted for cancellation. Refund requests must be received by email no later than midnight on March 3, 2019 to [Keyana.Golds@nyulangone.org](mailto:Keyana.Golds@nyulangone.org). No refunds will be made thereafter.

## FEES

\$150 Physicians  
\$130 Non-Physicians (NPs, PAs, Nurses, Others)  
\$ 35 External (non-WUH) Residents & Fellows (with ID)  
FREE NYU Winthrop Residents & Fellows (with ID)

**ACCOMMODATIONS** A small room block is available at The Garden City Hotel for participants by calling 1-800-547-0400 at the discounted rate of \$217.50 plus taxes. When calling the hotel, please give them the name of the course (**26th Annual New York Regional Neonatology & Perinatal Symposium; Issues in Neonatology**), sponsored by NYU Winthrop Hospital. **RESERVATIONS MUST BE MADE BY MARCH 1, 2019**  
[www.gardencityhotel.com](http://www.gardencityhotel.com)

**SPECIAL NEEDS** Participants with special needs should contact the Office of CME at 516-663-8459. If you require other special arrangements, please contact Peter Sandre at (516) 663-8459 or via email at [Peter.Sandre@nyulangone.org](mailto:Peter.Sandre@nyulangone.org) for assistance.

**MORE INFORMATION** If you experience technical problems with the online system, wish to register a group or require other special arrangements please contact Keyana Golds at 516-663-9685 or via email at [Keyana.Golds@nyulangone.org](mailto:Keyana.Golds@nyulangone.org) for assistance.

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Register Online  
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