



LOMA LINDA UNIVERSITY  
CHILDREN'S HOSPITAL

Neonatal Intensive Care Unit (NICU)  
11234 Anderson Street, Suite A  
Loma Linda, CA 92354

Nonprofit  
Organization  
US Postage  
PAID  
San Bernardino, CA  
Permit No. 1282

# CARE OF THE NEWBORN

## *BRAIN SYMPOSIUM*

**September 13, 2017 | 8 a.m. – 5 p.m.**

WONG KERLEE INTERNATIONAL CONFERENCE CENTER



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### 7 CEU'S OVERVIEW

This one day symposium is designed for those who want to journey into the brain of the neonate. We will investigate seizures, therapeutic hypothermia, neuroprotection, and more exciting new science of neurocritical care and brain monitoring, using amplitude EEG and Near-Infrared Spectroscopy. These innovative advances allow us to treat and even prevent neurological impairments for some babies.

### CONFERENCE OBJECTIVES

- Describe the challenges in accurate diagnosis of neonatal seizures
- Identify which groups of neonates are at highest risk for seizures
- Describe challenges to forming secure parent-infant attachments in the NICU and how it affects brain development in all babies
- Demonstrate graded sensory input, contingent on infant's neurobehavioral responses
- Evaluate infant specific positioning needs based on age, diagnosis and neurobehavioral presentation of infant
- Provide an overview of the anti-seizure medications used in the NICU, their mechanism of action, potential interactions with other medications and long-term outcome data
- Review normal neonatal neuroanatomy
- Discuss common neonatal neuropathology using interactive case presentations
- Describe the indications and prognostic value of neuromonitoring with EEG, aEEG, and NIRS and neuro-imaging with cranial ultrasound and MRI during the neonatal period, and when applicable in early childhood
- Discuss the biologic rationale for therapeutic hypothermia to treat hypoxic-ischemic encephalopathy
- Describe screening, eligibility criteria, adjuvant therapy, and evaluation for therapeutic hypothermia
- Determine when to call the cooling center for possible transfer and initiation of cooling measures
- Review possible side-effects associated with body cooling
- Elaborate on the indications for surgical interventions for neonatal IVH
- Discuss the morbidity and outcomes of high grade neonatal IVH
- Explain the basis for and limitations of aEEG monitoring
- Name the 5 background patterns for aEEG and their classification a normal vs. abnormal
- Describe the neurodevelopmental (ND) & neurobehavioral problems in patients with congenital heart disease (CHD)
- Describe school performance problems in childhood and adolescence
- Discuss the goals of care over the life-span of persons with neurodevelopmental impairment
- Describe the wide spectrum of developmental trajectories amongst persons with neurodevelopmental impairment
- Explain how the experience in the Neonatal Intensive Care Unit influences the trajectory and the narrative of a family affected by neurodevelopmental impairment



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### SPEAKERS

**Anastasia (Stacey) Belliard, PT, DPT, NTMTC**

Pediatric and Neonatal Physical Therapist  
Loma Linda University Children's Hospital  
High Risk Infant Follow Up Clinic

**Alexis S. Davis, MD, MS Epi**

Clinical Associate Professor, Pediatrics/Neonatology  
Stanford University School of Medicine  
NICU Medical Director  
Lucile Packard Children's Hospital Stanford

**Donna Goff, MD, MS**

Assistant Professor of Pediatrics, Loma Linda University School of Medicine  
Pediatric Cardiologist, Loma Linda University Children's Hospital

**Sheri Harder, MD, FRCPC**

Assistant Professor of Radiology, Loma Linda University School of Medicine  
Diagnostic Radiologist  
Loma Linda University Medical Center

**Andrew O. Hopper, MD**

Assistant Professor of Pediatrics, Loma Linda University School of Medicine  
Director, Neuro NICU Program  
Loma Linda University Children's Hospital, Division of Neonatology

**Young-Min Kim, MD**

Assistant Professor of Pediatrics, Loma Linda University School of Medicine  
Director of the Pediatric Movement Disorders Clinic  
Co-Director of the Neurology Neonatal Intensive Care Unit

**Raylene M. Phillips, MD, IBCLC, FABM, FAAP**

Associate Professor of Pediatrics, Loma Linda University School of Medicine  
Director, Newborn Neurodevelopment Program  
Director, Lactation/Breastfeeding Program  
Co-Director, Nursery/Neonatology, Loma Linda University  
Medical Center-Murrieta  
Loma Linda University Children's Hospital, Division of Neonatology

**Courtney Wusthoff, MD, MS**

Neurology Director, LPCH NeuroNICU  
Assistant Professor of Neurology & Neurological Sciences and by courtesy,  
Pediatrics-Neonatal and Developmental Medicine  
Stanford Division of Child Neurology

**Pilar Pichon Zentil, MD**

Staff, Department of Pediatric Neurology  
Epileptologist/Child Neurologist, Loma Linda University

**Alexander Zouros, MD, FRCS(C), FAAP, FANS**

Chief of Pediatric Neurosurgery Section  
Associate Professor, Department of Neurosurgery, Loma Linda University

### Register

[www.ce.llu.edu](http://www.ce.llu.edu)  
Keyword Search: NICU

### Cost

**LLU Staff** \$125  
**All Others** \$150  
**All Students** \$50

### Direction to Conference Center

Loma Linda University Medical Center  
Wong Kerlee Conference Center  
11175 Campus Street  
Loma Linda, CA 92350

### More Information

<http://childrens-hospital.lomalindahealth.org/nicuconference>

### CE Credits:

- Loma Linda University Medical Center, Staff Development is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation (ANCC).
- Loma Linda University Medical Center Office of Staff Development is approved by the American Psychological Association to sponsor continuing education for psychologists. LLUMC Office of Staff Development maintains responsibility for this program and its contents. This event meets the qualifications for 7.0 hours of continuing education credit for psychologists as required by the American Psychological Association.
- Loma Linda University Medical Center, Staff Development is a Provider approved by the California Board of Registered Nursing, Provider Number 00239, this program is approved for 7 contact hours.
- Loma Linda University Medical Center, Staff Development is recognized as a Continuing Competency Approving Agency by the Physical Therapy Board of California. This program is approved for 7 CE credits.
- This course meets the qualifications for 7 hours of continuing professional development credit for Speech-Language Pathologists as required by the California Speech-Language Pathology and Audiology Board, provider #PDP42.
- Occupational Therapist reciprocate with provider #PDP42.
- Behavioral Health Professionals reciprocate with APA.
- Loma Linda University School of Public Health is a designated provider of Category I continuing education contract hours for health education by the National Commission for Health Education Credentialing, Inc. The NCHCEC Multiple Event Provider (MEP) number is 105816. This event will be available for 7 (CHES & MCHES) credit hours.

