

Course Topics

Day 1 Highlights:

- Why a NeuroNICU?
- Fetal Brain Development
- NeuroExam Skills
- IVH & Brain Injuries
- Neuroprotective Care

Day 2 Highlights:

- Seizure Management
- Reading EEG
- HIE & Cooling
- Comfort Care Principles
- Family Centered Care

Break-Out Sessions:

- Beginning aEEG/NIRS
- Advanced aEEG/NIRS
- Neonatal Imaging
- Therapeutic Hypothermia
- Nursing Care & Bedside Skills for the NeuroNICU

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Lucile Packard Children's, Stanford

NICU-2 West—725 Welch, Palo Alto, CA 94304

Tel (650) 497-8000



NeuroNICU Training Course

May 3 & 4, 2017

Join us for a special PAS/SPR edition of our popular 2-day training course. In addition to our local experts in neonatology, neurology, developmental pediatrics and high-risk infant follow up care, we will have several international experts joining us to provide a range of break-out sessions for beginners and advanced users of therapeutic hypothermia, aEEG and NIRS



Lucile Packard
Children's Hospital
Stanford

Johnson Pregnancy
& Newborn Center



Course Description

This course has been designed to bring you an intense focus on one organ system, the neonatal brain and nervous system; the organ system that is ultimately responsible for our quality of life. We will take you on a journey from fetal life, through specialized care in the NICU, and finally beyond the doors of the NICU, to the infant's real home.

This comprehensive course will prepare you to care for the most critically ill NICU infants with a new appreciation for the resiliency, adaptability, and fragility of the newborn brain and for the power you have to hold their futures in your hands.

Date & Time

- May 3 & 4, 2017 - 0900 to 1700

Location

- Paul Brest Hall, Stanford University, Palo Alto, CA
- Break out sessions - Afternoon on May 4th in various campus locations

Faculty List

Coordinators/Speakers:

Krisa Van Meurs, M.D.
Kathi Salley-Randall, RN, CNS, NNP
Shannon Tinkler, B.S.N.
Sonia Bonifacio, M.D.
Valerie Chock, M.D., M.S. Epi.
Alexis Davis, M.D., M.S. Epi.
Susan Hintz, M.D., M.S. Epi.
Courtney Wusthoff, M.D., M.S. Epi.

Invited Guest Faculty:

Lina Chalak, M. D.
(UTexas Southwestern, Dallas)
Guilherme Sant'Anna , M.D, PhD
(McGill, Montreal)
Lena Hellström-Westas, M.D.
(Uppsala, Sweden)

Registration

Cost:

- \$350 until April 1st
- \$400 after April 1st; \$500 at the door
- Registration Fee Includes: Printed Syllabus, Parking, Lunch and Snacks

Refund Policy

- 50% refunds will be given for cancellations received in writing by April 14th, 2017.
- No refunds will be given after April 24th.

Register Online

<http://tinyurl.com/neuronicu-may>

Course Objectives

1. Identify risk factors, incidence and common causes; describe the pathophysiology, diagnostic work-up, two potential medical treatments, procedures, referrals; and list two nursing interventions or care considerations, for infants with the following conditions:
 - Hypoxic Ischemic Encephalopathy
 - CNS Malformations
 - Seizures
 - ELBW Infants
 2. Discuss the range of neuroprotective strategies that can be utilized to prevent and ameliorate neonatal brain injury.
 3. Describe the range of follow up services that need to be provided for infants at risk for developmental delay and with brain injury.
- Full list of objectives can be found online.**

Nursing CE Credits

This course is pending approval for Nursing Continuing Education by California Board of Registered Nursing Provider Number CEP 15417 for 12 contact hours.

Contact Information:

Shannon Tinkler—NeuroNICU Educator
Email: STinkler@stanfordchildrens.org

Krisa Van Meurs—NeuroNICU Medical Director
Email: vanmeurs@stanford.edu



Wednesday, May 3

- 0800-0810 Welcome
Kathi Salley Randall, RN MSN CNS NNP
- 0810-0830 Why a NeuroNICU? - The LPCH story up until now
Kathi Salley Randall
- 0830-0930 Fetal and neonatal brain development: Timing, significance, and outcomes
Courtney Wusthoff, MD MS
- 0930-1015 Neurological Examination of the Newborn - *Courtney Wusthoff*
- 1015-1030 **BREAK**
- 1030-1120 Short-Term and Early Neurodevelopmental Outcomes of Extremely Pre-term Infants
Susan R. Hintz, MD MS
- 1120-1205 Comfort Care versus Intensive Care: What to do when providing palliative and bereavement care in the Neuro NICU - *Diana Kobayashi, NNP*
- 1205-1300 **LUNCH**
- 1300-1345 HIE – Insult, impact, & interventions
Krisa Van Meurs, MD
- 1345-1430 Systemic Implications of Hypothermia – Bedside Management Pearls
Sonia L. Bonifacio, MD
- 1430-1530 Reviewing the Evidence for Servo-Controlled Hypothermia for Infants with Mild HIE
Guillherme Sant'Anna, MD PhD
- 1530-1545 **BREAK**
- 1545-1645 Life goes on: High risk infants, follow-up and beyond
Anne DeBattista, RN PNP PhD
- 1645-1700 **WRAP UP**

Thursday, May 4

- 0800-0805 Introductions
Kathi Salley Randall
- 0805-0900 Diagnosis and management of neonatal seizures
Courtney Wusthoff
- 0900-0945 IVH and white matter injuries: Understanding the pathophysiology, and risks for the small and big baby
Valerie Chock, MD MSEpi
- 0945-1000 **BREAK**
- 1000-1045 5 Ways to Offer Neuro-Protective Care in the NICU
Kathi Salley Randall
- 1045-1115 Looking back to look forward: The parent's perspective of life in the NICU and beyond
LPCH Family-Centered Care Department
- 1115-1130 **WRAP UP**
- 1130-1300 **LUNCH**
- 1300-1700 **BREAKOUT SESSIONS**



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Break Out Session A

- Advanced aEEG
Lena Hellstrom-Westas, MD PhD
- Introduction to EEG
Courtney J. Wusthoff, MD MS
- Advanced NIRS
Lina Chalak, MD
- Neuroimaging in HIE
Sonia Bonifacio, MD and Patrick Barnes, MD

Break Out Session B

- Introduction to NIRS
Valerie Chock, MD
- NIRS application and cases
Valerie Chock, MD MS
- Introduction to aEEG & Case Review
Lena Hellstrom-Westas, MD PhD
- aEEG Electrode Application Techniques
Shannon Tinkler, RN, BSN

Break Out Session C

- Bedside Brain Monitoring with aEEG – Who, What, When, Why—*Kathi Salley Randall*
- Bedside Use of NIRS in the NICU - *Krisa Van Meurs, MD*
- Practice of therapeutic hypothermia - *Celia Shepherd Glennon, MN NNP*
- Developmental Care -
LPCH NeuroDevelopmental Team



Lena Hellström-Westas M.D., Ph.D.

*Professor of Perinatal Medicine
Senior Consulting Neonatologist
Uppsala University Hospital
Uppsala, Sweden*

Dr. Lena Hellström-Westas is one of the pioneering clinical researchers on amplitude-integrated EEG monitoring with a focus on early prediction of outcome in asphyxiated infants and preterm infants, seizure detection, sleep and pain assessments.

She is credited with the creation of the combined aEEG classification schema for premature and term neonates; and co-author of the Atlas of Amplitude Integrated EEG in the Newborn.

Lina Chalak, MD

*Associate Professor in Pediatrics &
Clinical Neonatologist
UTexas Southwestern Medical Center
Dallas, TX - USA*

Dr Lina Chalak's has clinical and translational research expertise is related to neonatal brain injury, HIE identification and therapies, as well as the neurovascular unit and cerebral autoregulation.

Her current federally funded research projects include:

- Cerebrovascular autoregulation and neuronal biomarkers in mild neonatal encephalopathy,
- Neuronal and systemic inflammatory serum biomarkers involved in neuronal injury pathways,
- Autoregulation in newborns with HIE undergoing hypothermia therapy



Guilherme Sant'Anna M.D., Ph.D.

*Associate Professor of Pediatrics &
Staff Neonatologist
McGill University Health Center
Montreal, Canada*

Dr. Sant'Anna is a MD from Brazil and completed his clinical and research training at McGill University in Montreal, Quebec; and obtained his PhD in Physiology in 2002.

His research interests are in neonatal physiology (respiratory and thermoregulation) and invasive & non-invasive ventilation; including the role of heart rate and respiratory variability in the prediction of extubation failure in extreme preterm infants.

He is also investigating cerebral blood flow using Doppler ultrasonography and analysis of biological signals for infants with HIE.