

New England Neonatal Neuromonitoring and Neuroimaging Workshop

October 10 – 11, 2019 | 7:30 a.m. – 5:45 p.m.

The Joseph B. Martin Conference Center at Harvard Medical School
77 Avenue Louis Pasteur, Boston, MA 02115

Course Description

The New England Neonatal Neuromonitoring and Neuroimaging Workshop will educate medical providers about the interpretation and clinical application of neonatal aEEG, NIRS, HUS, and MRI technologies.

In addition to didactic presentations, this workshop will provide small group case discussions for different areas of neonatal neuroimaging and neuromonitoring.

Course Objectives

Upon completion of the symposium, participants should be able to:

1. Identify how aEEG tracing is processed, and the difference between aEEG and cEEG
2. Interpret and score aEEG tracing
3. Describe the variable clinical applications of aEEG in preterm and term neonates
4. Identify the applications of NIRS in the NICU
5. Review the practical steps of applying the aEEG electrodes
6. Assess the indications and limitations of neonatal neuroimaging
7. Interpret basic neonatal HUS and MRI findings
8. Recognize the variable clinical applications of head ultrasound and brain MRI in preterm and term neonates

Target Audience

Neonatal Intensive Care Physicians (Neonatologists and Neurologists), Fellows, Nurses and Allied Health.

Accreditation

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

The Partners HealthCare System designates this live activity for a maximum of 15.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Successful completion of this CME activity, which includes participation in the activity, with individual assessments of the participant and feedback to the participant, enables the participant to earn 15 MOC points in the American Board of Pediatrics' (ABP) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABP MOC credit.

An application will be submitted to the Brigham and Women's Hospital Center for Nursing Excellence for continuing nursing education contact hours. Brigham and Women's Hospital is an Approved Provider of Continuing Nursing Education by the Northeast Multistate Division, an Accredited Approver of The American Nurses Credentialing Center Commission on Accreditation (ANCC).

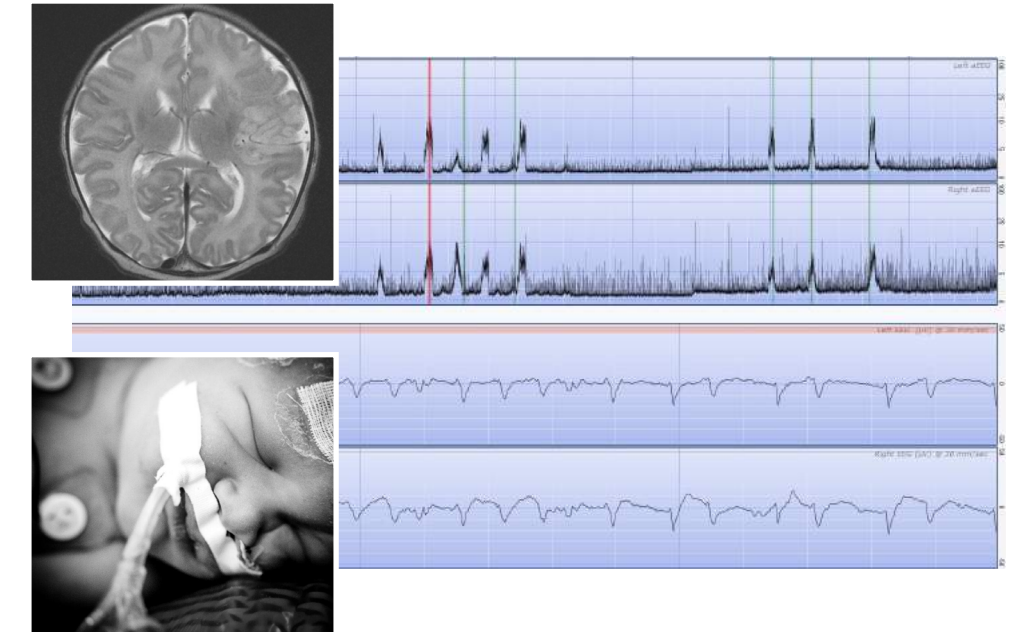


75 Francis Street
Boston, MA 02115

BRIGHAM HEALTH



BRIGHAM AND WOMEN'S
Department of Pediatric Newborn Medicine



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Provided by the Department of Pediatric Newborn Medicine
at Brigham and Women's Hospital and Partners HealthCare System

Agenda

THURSDAY OCTOBER 10, 2019

7:30 – 7:55 a.m.	Check in and breakfast
7:55 – 8 a.m.	Opening Remarks – Terrie Inder, MBChB, MD, Mohamed El-Dib, MD
8 – 8:45 a.m.	cEEG and aEEG: Patterns and Classification – Brian Walsh, MB, BCh, PhD
8:45 – 9:30 a.m.	aEEG Maturations and Applications in Premature Infants – Terrie Inder, MBChB, MD
9:30 – 10:15 a.m.	aEEG in Neonatal Encephalopathy in the Term Infant – Linda de Vries, MD
10:15 – 10:30 a.m.	Break
10:30 – 11:15 a.m.	Seizures and aEEG – Terrie Inder, MBChB, MD
11:15 – 12 p.m.	cEEG in the NICU – Arnold Sansevere, MD
12 – 12:45 p.m.	Clinical Use of NIRS in the NICU – Mohamed El-Dib, MD
12:45 – 2 p.m.	Lunch
2 – 3 p.m.	Hands-On Session 1*
3 – 4 p.m.	Hands-On Session 2*
4 – 4:15 p.m.	Break
4:15 – 5:15 p.m.	Hands-On Session 3*
5:15 – 5:45 p.m.	Panel Discussion
5:45 p.m.	Adjourn

*Breakout Sessions: One hour session repeated for 3 groups:

- **Lead Application and Basics of Neuromonitoring Devices**, Brian Walsh, MB, BCh, PhD, Debra Marks, MS, RNC-NIC, Julie Cadogan, MS, Kristin Chatelain, RN, Lillian O'Leary, RN
- **Neuromonitoring in Term Neonatal Encephalopathy and Seizures**, Linda de Vries, Mohamed El-Dib, MD, Silvia Patrizi, MD
- **Cases of Neuromonitoring in Preterm Infants**, Terrie Inder, MBChB, MD, Arnold Sansevere, MD

FRIDAY OCTOBER 11, 2019

7:30 – 7:55 a.m.	Check in and breakfast
7:55 – 8 a.m.	Opening Remarks – Terrie Inder, MBChB, MD, Mohamed El-Dib, MD
8 – 8:45 a.m.	Neonatal Head Ultrasound: The Basics and Optimizing the Tool – Carol Benson, MD
8:45 – 9:30 a.m.	Neonatal Head Ultrasound: Clinical Uses – Linda de Vries, MD
9:30 – 10:15 a.m.	Neonatal Brain MRI: Understanding Sequences and their Applications – P. Ellen Grant, MD
10:15 – 10:30 a.m.	Break
10:30 – 11:15 a.m.	Brain MRI in Neonatal Encephalopathy – Edward Yang, MD, PhD
11:15 – 12 p.m.	Brain MRI in Preterm Infant – Terrie Inder, MBChB, MD
12 – 12:45 p.m.	Advanced Neonatal Brain MRI Techniques – Lillian Matthews, PhD
12:45 – 2 p.m.	Lunch
2 – 3 p.m.	Hands-On Session 1*
3 – 4 p.m.	Hands-On Session 2*
4 – 4:15 p.m.	Break
4:15 – 5:15 p.m.	Hands-On Session 3*
5:15 – 5:45 p.m.	Panel Discussion
5:45 p.m.	Adjourn

*Breakout Sessions: One hour session repeated for 3 groups:

- **Incorporating and Optimizing Neuroimaging in the NICU**, Mohamed El-Dib MD, Brian Walsh, MB, BCh, PhD, Debra Marks, MS, RNC-NIC Julie Cadogan, MS
- **Cases of Neuroimaging in Term Neonatal Encephalopathy and Seizures**, Edward Yang, MD, Sara Bates, MD
- **Cases of Neuroimaging in Preterm Infants**, Terrie Inder, MBChB, MD, Linda de Vries, MD

CME Faculty

Terrie Inder, MBChB, MD

Course Director
Chair, Department of Pediatric Newborn Medicine, Brigham and Women's Hospital;
Mary Ellen Avery Professor of Pediatrics in the Field of Newborn Medicine,
Harvard Medical School

Mohamed El-Dib, MD

Course Director
Director of Neonatal Neurocritical Care, Department of Pediatric Newborn Medicine,
Brigham and Women's Hospital;
Assistant Professor of Pediatrics, Harvard Medical School

Sara Bates, MD

Attending Neonatologist, Director of Clinical and Translational Research,
Division of Newborn Medicine, Massachusetts General Hospital;
Instructor in Pediatrics, Harvard Medical School

Carol B. Benson, MD

Director of Ultrasound, Department of Radiology, Brigham and Women's Hospital;
Professor of Radiology, Harvard Medical School

Julie Cadogan, MS

Professional Development Manager, Neonatal Intensive Care Unit,
Brigham and Women's Hospital

Kristin Chatelain, RN, BSN

Staff Nurse, Neonatal Intensive Care Unit, Brigham and Women's Hospital

Linda de Vries, MD

Professor in Neonatal Neurology
Wilhelmina Children's Hospital, University Medical Center, Utrecht, Netherlands

P. Ellen Grant, MD

Director of Fetal and Neonatal Neuroimaging Research,
Boston Children's Hospital Endowed Chair in Neonatology, Boston Children's Hospital;
Professor of Radiology and Pediatrics, Harvard Medical School

Debra Marks, NP

Nurse Practitioner, Neonatal Intensive Care Unit, Brigham and Women's Hospital

Lillian G. Matthews, PhD

Research Scientist, Department of Pediatric Newborn Medicine,
Brigham and Women's Hospital;
Instructor in Pediatrics, Harvard Medical School

Lillian O'Leary, RN

Staff Nurse, Neonatal Intensive Care Unit, Brigham and Women's Hospital

Silvia Patrizi, MD

Attending Neonatologist, Department of Pediatric Newborn Medicine,
Brigham and Women's Hospital;
Instructor in Pediatrics, Harvard Medical School

Arnold J. Sansevere, MD

Neurologist, Department of Neurology, Boston Children's Hospital;
Instructor in Neurology, Harvard Medical School

Brian Walsh, MB, BCh, PhD

Consultant Neonatologist, Cork University Maternity Hospital, Cork, Ireland

Edward Yang, MD, PhD

Attending Radiologist, Director of Neuro MR, Boston Children's Hospital;
Instructor in Radiology, Harvard Medical School

Registration

Registration for the **New England Neonatal Neuromonitoring and Neuroimaging Workshop** can be processed online at www.newbornbrainworkshop.org.

Cancellation Policy:

Registrations cancelled on or before September 26, 2019 for 1 Day will be refunded, less a \$25 administrative fee. Registrations cancelled after September 26th will not be refunded.

Registrations cancelled on or before September 26, 2019 for 2 Days will be refunded, less a \$40 administrative fee. Registrations cancelled after September 26th will not be refunded.

Contact partnerscpd@partners.org or call 857-282-2514 if you require assistance in cancelling your online registration.

Registration Pricing:

Full Tuition (Physicians)

1 day: \$200; 2 days: \$300

Scientists

1 day: \$200; 2 days: \$300

Residents/Fellows

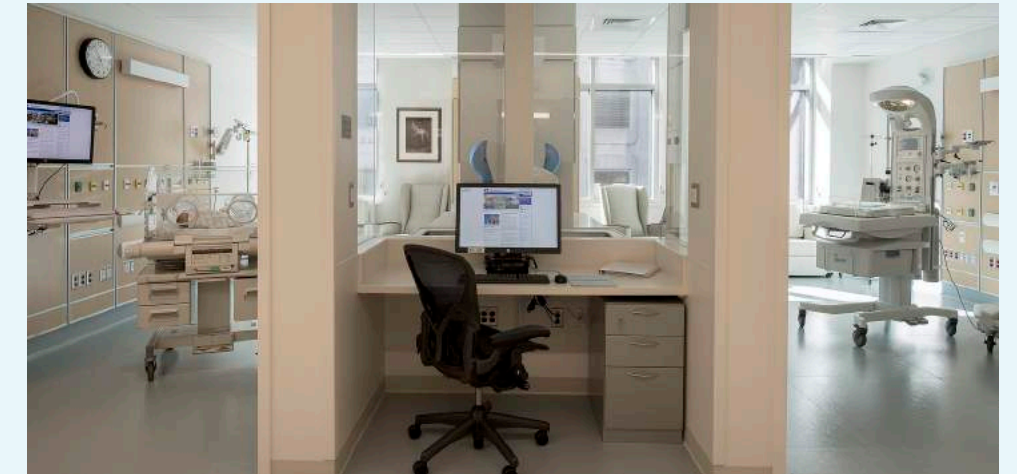
1 day: \$150; 2 days: \$250

Other Health Care Professionals

1 day: \$150; 2 days: \$250

For assistance with any questions or special needs (i.e., physical, dietary, etc), please email NNCC@partnershealthcare.onmicrosoft.com or call 617-732-7739.

For questions regarding registration, please contact Partners Office of Continuing Professional Development at partnerscpd@partners.org or call 857-282-2513.



The Department of Pediatric Newborn Medicine provides the most compassionate, comprehensive, and skilled care to all infants and their families; alongside providing education for future generations of health care professionals, advancing knowledge of newborn science and care, and advocating for optimal health of newborns.