

## New England Neonatal aEEG and Neuroimaging Workshop

November 8 – 9, 2017 | 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

Amplitude-integrated electroencephalography (aEEG) is an important tool for continuous monitoring of brain function, sleep wake cycling, and instantaneous detection of electro-graphic seizures. aEEG monitoring plays an important role in monitoring neonates with encephalopathy, neonatal seizures, and extremely premature infants. In addition, neuroimaging, including head ultrasound (HUS) and magnetic resonance imaging (MRI), are able to delineate brain structures and evaluate brain growth and brain injury both in term and preterm infants.

The New England Neonatal aEEG and Neuroimaging Workshop will educate medical providers (physicians, trainees, and nurses) about the technology of neonatal aEEG as well as how to interpret and incorporate the tool into clinical practice. This workshop will also provide the basic knowledge needed to interpret neonatal HUS and MRI and their applications in neonates.

### Course Objectives


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

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

### Target Audience

Neonatal Intensive Care Physicians, Fellows, Nurses and Allied Health

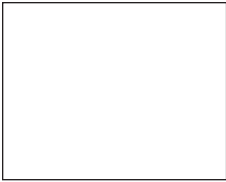
### Accreditation

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

Partners HealthCare System designates this live activity for a maximum of *16.25 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 16 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.

Brigham and Women’s 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. This program will award 8 nursing contact hours for Day 1, and 8 nursing contact hours for Day 2.

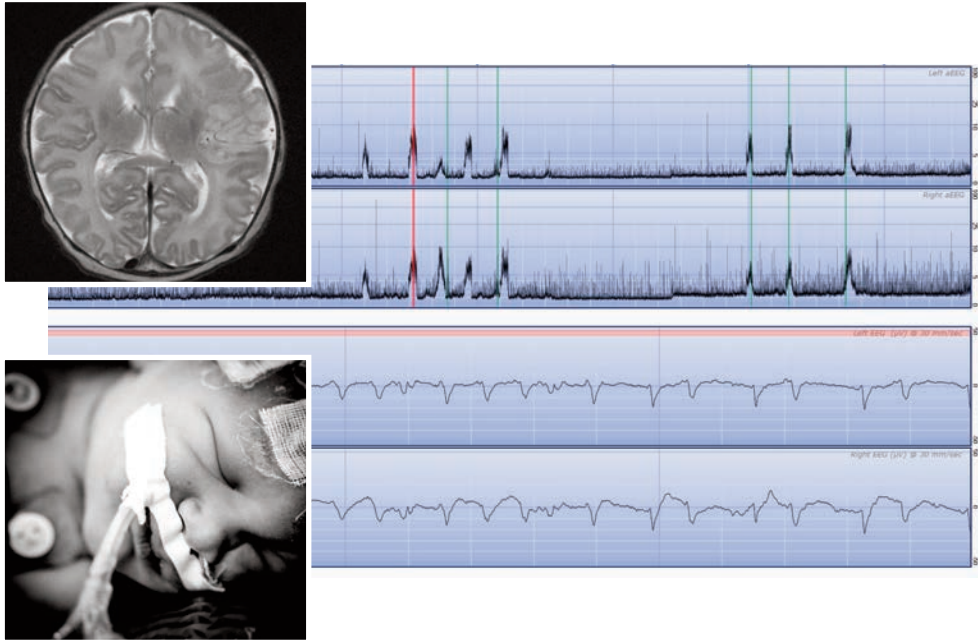


75 Francis Street  
Boston, MA 02115

## 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

## Agenda

### WEDNESDAY, NOVEMBER 8, 2017

7:30 – 7:55 a.m.	<b>Check-in and Breakfast</b>
7:55 – 8 a.m.	<b>Opening Remarks</b> <i>Terrie Inder, MD, MBChB</i> <i>Mohamed El-Dib, MD</i>
8 – 8:45 a.m.	<b>cEEG and aEEG- Patterns and Classifications</b> <i>Mohamed El-Dib, MD</i>
8:45 – 9:30 a.m.	<b>aEEG Maturations and Applications in Premature Infants</b> <i>Terrie Inder, MD, MBChB</i>
9:30 – 10:15 a.m.	<b>aEEG in Neonatal Encephalopathy in the Term Infant</b> <i>Jeffrey Neil, MD, PhD</i>
10:15 – 10:30 a.m.	<b>Break</b>
10:30 – 11:15 a.m.	<b>Seizures and aEEG</b> <i>Brian Walsh, MBBS</i>
11:15 – 12 p.m.	<b>cEEG in the NICU</b> <i>Arnold Sansevere, MD</i>
12 – 12:45 p.m.	<b>Incorporating cEEG and aEEG into the NICU Practice</b> <i>Linda de Vries, MD</i>
1:45 – 2 p.m.	<b>Instructions and preparation for Sessions</b>
2 – 3 p.m.	<b>Session 1: Lead application and basics of the aEEG machine</b>
3 – 4 p.m.	<b>Session 2: Cases of aEEG use in term neonatal encephalopathy and seizures</b>
4 – 4:15 p.m.	<b>Break</b>
4:15 – 5:15 p.m.	<b>Session 3: Cases of aEEG use in preterm infants and complex clinical conditions</b>
5:15 – 5:45 p.m.	<b>Panel Discussion</b>

### THURSDAY, NOVEMBER 9, 2017

7:30 – 7:55 a.m.	<b>Check-in and Breakfast</b>
7:55 – 8 a.m.	<b>Opening Remarks</b> <i>Terrie Inder, MD, MBChB</i> <i>Mohamed El-Dib, MD</i>
8 – 8:45 a.m.	<b>Neonatal Head Ultrasound – The Basics and Optimizing the Tool</b> <i>Carol Benson, MD</i>
8:45 – 9:30 a.m.	<b>Neonatal Head Ultrasound – Clinical Uses</b> <i>Linda de Vries, MD</i>
9:30 – 10:15 a.m.	<b>Neonatal Brain MRI – The Basics and Beyond the Basics</b> <i>P. Ellen Grant, MD</i>
10:15 – 10:30 a.m.	<b>Break</b>
10:30 – 11:15 a.m.	<b>Brain MRI in Neonatal Encephalopathy</b> <i>Jeffrey Neil, MD, PhD</i>
11:15 – 12 p.m.	<b>Brain MRI in Preterm Infants</b> <i>Terrie Inder, MD, MBChB</i>
12 – 12:45 p.m.	<b>Incorporating Neuroimaging into the NICU Practice</b> <i>Mohamed El-Dib, MD</i> <i>Brian Walsh, MBBS</i>
1:45 – 2 p.m.	<b>Instructions and preparation for Sessions</b>
2 – 3 p.m.	<b>Session 1: Optimizing MRI for infants</b>
3 – 4 p.m.	<b>Session 2: Cases of neuroimaging in term neonatal encephalopathy and seizures</b>
4 – 4:15 p.m.	<b>Break</b>
4:15 – 5:15 p.m.	<b>Session 3: Cases of neuroimaging in preterm infants</b>
5:15 – 5:45 p.m.	<b>Panel Discussion</b>

## CME Faculty

### Terrie Inder, MD, MBChB

*Course Co-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 Co-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 of Pediatrics, Harvard Medical School*

### Carol Benson, MD

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

### Linda de Vries, MD

*Professor in Neonatal Neurology, Utrecht Medical Center, Netherlands*

### Marcia Filip, RN

*Newborn Intensive Care Unit, Brigham and Women's Hospital*

### 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*

### Deirdre Greene, RN, MSN

*Nurse in Charge, Newborn Intensive Care Unit, Brigham and Women's Hospital*

### Debra Marks, MS, RNC-NIC

*Clinical Educator, Newborn Intensive Care Unit, Brigham and Women's Hospital*

### Christina Meehan, MSN, RNC-NIC

*Clinical Educator, Newborn Intensive Care Unit, Brigham and Women's Hospital*

### Jeffrey Neil, MD, PhD

*Neurologist, Department of Neurology, Boston Children's Hospital;*  
*Visiting Professor of Neurology, Harvard Medical School*

### Corinne Pryor, BS RNC-NIC IBCLC

*Clinical Educator, Newborn Intensive Care Unit, Brigham and Women's Hospital*

### Arnold Sansevere, MD

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

### Brian Walsh, MB, BCh, PhD

*Attending Neonatologist, Department of Pediatric Newborn Medicine, Brigham and Women's Hospital*

## Registration

Registration for New England Neonatal aEEG and Neuroimaging Workshop can be processed online at [www.phscpd.org/NeonatalaEEGNeuroimagingWorkshop](http://www.phscpd.org/NeonatalaEEGNeuroimagingWorkshop)

### Physicians/Scientists

Day 1 or Day 2: \$150; Day 1 and Day 2: \$250

### Residents/Fellows or Other Health Care Professionals

Day 1 or Day 2: \$125; Day 1 and Day 2: \$200

Registrations cancelled on or before October 25, 2017 for one day will be refunded, less a \$40 administrative fee.

Registrations cancelled on or before October 25, 2017 for two days will be refunded, less a \$60 administrative fee.

Registrations cancelled after October 25, 2017 will not be refunded.

If you have questions, please contact Tangela Kindell, Program Coordinator, at (617) 732-5209 or email at [tkindell2@partners.org](mailto:tkindell2@partners.org).



**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.