ABOUT THE AMERICAN CLINICAL NEUROPHYSIOLOGY SOCIETY

ACNS is a professional association dedicated to fostering excellence in clinical neurophysiology and furthering the understanding of central and peripheral nervous system function in health and disease through education, research, and the provision of a forum for discussion and interaction.

Founded in 1946 and originally named the American Electroencephalographic Society (AEEGS), ACNS is the major professional organization in the United States devoted to the establishment and maintenance of standards of professional excellence in clinical neurophysiology in the practice of neurology, neurosurgery, and psychiatry. ACNS members utilize neurophysiology techniques in the diagnosis and management of patients with disorders of the nervous system and in research examining the function of the nervous system in health and disease.

ABOUT THE FALL COURSES

The 2019 Fall Courses are designed around new and rapidly-evolving areas of clinical neurophysiology. Educational activities will cover both basic methodologies, and innovative techniques.

TARGET AUDIENCE

The Society’s educational activities are directed to clinical neurophysiologists, neurologists, psychiatrists, psychologists, neurosurgeons, trainees in these disciplines, and other physicians and researchers who utilize clinical neurophysiologic techniques and knowledge in the diagnosis and management of patients with disorders of the peripheral and central nervous system.

ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the sponsorship of ACNS. ACNS is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION

ACNS designates the Fall Courses for the maximum number of AMA PRA Category 1 Credit(s)™ indicated below:

Intensive Care Unit EEG Monitoring (ICU EEG) - Part I: 6 AMA PRA Category 1 Credit(s)™
Intensive Care Unit EEG Monitoring (ICU EEG) - Part II: 6 AMA PRA Category 1 Credit(s)™
Neurologic Intraoperative Monitoring (NIOM) - Part I: 6 AMA PRA Category 1 Credit(s)™
Neurologic Intraoperative Monitoring (NIOM) - Part II: 6 AMA PRA Category 1 Credit(s)™
Stereo-Electroencephalography (Stereo EEG) - Part I: 2 AMA PRA Category 1 Credit(s)™
Stereo-Electroencephalography (Stereo EEG) - Part II: 2 AMA PRA Category 1 Credit(s)™
Neonatal and Pediatric EEG Symposium: 2 AMA PRA Category 1 Credits™
CPT Coding Changes: 1.75 AMA PRA Category 1 Credits™

LEARNING OBJECTIVES

STEREO-ENCEPHALOGRAPHY (STEREO EEG)

At the conclusion of this course, the participant should be able to:
1. Understand the principles of SEEG;
2. Discuss the approach to various epilepsy syndromes with SEEG; and
3. Describe the limitations of SEEG and surgical risk.

NEONATAL AND PEDIATRIC EEG SYMPOSIUM - BASIC PRINCIPLES AND ADVANCED CONCEPTS

At the conclusion of this course, participants should be able to:
1. Discuss basic concepts to be applied to interpretation of neonatal and pediatric electroencephalography;
2. Identify common patterns that are useful to the diagnostic work up and treatment of neonatal and pediatric disorders; and
3. List common principles of quantitative EEG analysis, and its application to neonatal and pediatric patients.

NEUROPHYSIOLOGIC INTRAOPERATIVE MONITORING (NIOM)

At the conclusion of this course, participants should be able to:
1. Describe basic modalities used in NIOM;
2. Recognize the appropriate methods and indications for a variety of common and uncommon NIOM techniques;
3. Recognize differences in NIOM of adult and pediatric cases;
4. Explain a variety of NIOM case presentations and interpretation of neurophysiologic data;
5. Recognize some of the technical challenges and limitations of performing and interpreting NIOM studies; and
6. Discuss relevant billing and medicolegal concerns in the field of NIOM.

INTENSIVE CARE UNIT EEG MONITORING (ICU EEG)

At the conclusion of this course, participants should be able to:
1. Recognize common indications for CEEG in the ICU setting in neonates, children, and adults;
2. Interpret EEG patterns encountered in the ICU, including seizures, periodic patterns and other background patterns important for prognosis and management;
3. Select appropriately dosed treatment options for seizures and status epilepticus, and recognize the nuances in approach to treatment based on EEG findings in nonconvulsive SE, or with rhythmic/periodic patterns that lie on the ictal interictal continuum;
4. Utilize quantitative EEG methods to see long-term trends, screen for seizures rapidly, and to detect signs of ischemia;
5. Describe the value and limitations of EEG monitoring to predict neurologic outcomes in hypoxic ischemic encephalopathy;
6. Recognize the specific EEG patterns induced by different anesthetics used in general anesthesia and in the ICU;
7. Select appropriate equipment for ICU-EEG monitoring, including networking and data storage options; and
8. Determine optimal staffing, data review, and reporting practices.

CPT CODING CHANGES: EEG MONITORING AND NEUROSTIMULATION

Coming soon.

At the conclusion of this course, participants should be able to:
1. Understand the new 2020 CPT codes for EMU video-EEG monitoring;
2. Understand the new 2020 CPT codes for ICU EEG monitoring;
3. Understand the new 2020 CPT codes for ambulatory EEG monitoring;
4. Understand the new 2019 CPT codes VNS, RNS, and DBS;
5. Identify the associated coding instructions for using those codes; and
6. Describe how to apply those codes to their typical services.

For complete program and registration information, visit https://www.acns.org/meetings/fall-courses/2019.
PROGRAM OVERVIEW

MORNING COURSES
SATURDAY, SEPTEMBER 21, 2019
(7:00 - 9:00AM)

NEONATAL AND PEDIATRIC EEG SYMPOSIUM - BASIC PRINCIPLES AND ADVANCED CONCEPTS
Course Director: Arnold J. Sansevere, MD
7:00am Welcome and Introduction
7:05am Key Concepts of Neonatal and Pediatric Electroencephalography
Arnold J. Sansevere, MD
7:40am Pathognomonic Neonatal and Pediatric Patterns: A Case-Based Approach to Diagnostic and Therapeutic Implications
Dana B. Harrar, MD, PhD
8:15am Advanced Concepts: Quantitative Analysis in Neonatal and Pediatric EEG
Réjean M. Guerriero, DO
8:50am Discussion

SATURDAY, SEPTEMBER 21 & SUNDAY, SEPTEMBER 22, 2019
(7:00 - 9:00AM)

STEREO-ENCEPHALOGRAPHY (STEREO EEG)
Course Co-Directors: Stephan U. Schuele, MD, MPH, FACNS and Giridhar P. Kalamangalam, MD, DPhil, FACNS
Part I - Saturday, September 21, 2019
7:00am Welcome and Introduction
7:00am Defining the Epileptogenic Zone with SEEG
Stephan U. Schuele, MD, MPH, FACNS
7:30am Temporal Lobe Epilepsy Syndromes
Giridhar P. Kalamangalam, MD, DPhil, FACNS
8:00am Frontal Lobe Epilepsy Syndromes
Saurabh R. Sinha, MD, PhD, FACNS
8:30am Posterior Cortex Epilepsy Syndromes
Stephan U. Schuele, MD, MPH, FACNS
Part II - Sunday, September 22, 2019
7:00am Magnetoencephalography (MEG)
Lawrence W. VerHoef, MD
7:30am Surgical Aspects
Jon T. Willie, MD, PhD
8:00am Laserblation and SEEG
Jon T. Willie, MD, PhD
8:30am Cognitive Outcome
Daniel L. Drane, PhD

TWO-DAY COURSES
SATURDAY, SEPTEMBER 21 & SUNDAY, SEPTEMBER 22, 2019 (9:00AM - 5:00PM)

INTENSIVE CARE UNIT EEG MONITORING (ICU EEG)
Course Co-Directors: Hiba A. Haider MD, FACNS and Sarah E. Schmitt, MD, FACNS
Part I - Saturday, September 21, 2019
9:00am Breakfast
9:20am Welcome and Introduction
9:30am ICU EEG Monitoring: An Overview Across the Ages
Cecil D. Hahn, MD, MPH, FACNS
10:15am ICU EEG: Guidelines
Susan T. Herman, MD, FACNS
10:45am Coffee Break and Visit Exhibits
11:00am The Ictal Interictal Continuum: Identifying Seizures, Periodic Patterns and Everything in Between
Suzette M. LaRoche, MD, FACNS
11:30am Seizures: Early Management in Adults
Sarah E. Schmitt, MD, FACNS
12:00pm Seizures: Management of Refractory and Super-Refractory Status Epilepticus
Hiba A. Haider, MD, FACNS
12:30pm Impact of Seizure Management on Outcome: Risk-Benefit Calculus
Aatif M. Husain, MD, FACNS
1:00pm Lunch and Visit Exhibits
2:00pm Seizures: Management in Neonates and Children
Shavonne Massey, MD, MSCE
2:30pm Seizures: Unusual Types of Status Epilepticus
Frank W. Drislane, MD, FACNS
3:00pm Multimodal and Invasive Monitoring
Brandon Foreman, MD, FACNS
3:30pm Coffee Break and Visit Exhibits
3:45pm EEG in Toxic/Metabolic Encephalopathy (Delirium): Adults
Peter W. Kaplan, MD, FRCP, FACNS
4:15pm Adult Case Presentations
Monica B. Dhakar, MD, MS
4:30pm Pediatric Case Presentations
Shavonne Massey, MD, MSCE
4:45pm Conclusion
Part II - Sunday, September 22, 2019
9:00am Breakfast
9:20am Welcome and Introduction
9:30am QEEG: Overview of Available Tools and Uses
Hiba A. Haider, MD, FACNS
10:05am QEEG at the Bedside: Seizure Detection and Beyond
Christa Swisher, MD, FACNS
10:45am Coffee Break and Visit Exhibits
11:00am QEEG: Seizure Recognition Tutorial
Edilberto Amorim, MD
11:30am QEEG: Ischemia Detection
M. Brandon Westover, MD, PhD, FACNS
12:00pm QEEG: Adult Case Presentations
Christa Swisher, MD, FACNS
12:15pm QEEG: Pediatric Case Presentations
Tammy Tsuchida, MD, PhD, FACNS
12:30pm EEG in ICU Sedation Monitoring
M. Brandon Westover, MD, PhD, FACNS
1:00pm Lunch and Visit Exhibits
2:00pm HIE: EEG in Anoxic Brain Injury /Targeted Temperature Management
Jong Woo Lee, MD, PhD, FACNS
2:30pm HIE: Prognosis in Adults
Edilberto Amorim, MD
3:00pm HIE: Prognosis in Children and Neonates
Tammy Tsuchida, MD, PhD, FACNS
3:30pm Coffee Break
3:45pm Artifacts in the ICU: Navigating a (Electrically) Hostile Environment
Sarah E. Schmitt, MD, FACNS
4:15pm Setting Up Your ICU EEG Service: Staffing, Personnel, Workflow and Logistics
Andres Rodriguez Ruiz, MD
4:45pm Conclusion

Program is tentative; topics and speakers are subject to change.
PROGRAM OVERVIEW

TWO-DAY COURSES
SATURDAY, SEPTEMBER 21 & SUNDAY, SEPTEMBER 22, 2019 (9:00AM - 5:00PM)
NEUROPHYSIOLOGIC INTRAOPERATIVE MONITORING (NIOM)
Course Co-Directors: Leslie H. Lee, MD, FACNS and Jaime R. Lopez, MD, FACNS

Part I - Saturday, September 21, 2019
9:00am Breakfast
9:20am Welcome & Introduction
   Leslie H. Lee, MD, FACNS
9:25am SEP
   Aatif M. Husain, MD, FACNS
10:05am MEP
   Ronald Emerson, MD, FACNS
10:45am Coffee Break and Visit Exhibits
11:00am BAEP Monitoring
   Alan D. Legatt, MD, PhD, FACNS
11:40am EEG Monitoring
   Mirela V. Simon, MD, FACNS
12:20pm EMG and Peripheral Nerve Monitoring
   Gloria M. Galloway, MD, MBA, FACNS
1:00pm Lunch and Visit Exhibits
2:00pm Cranial Nerve Monitoring
   Jaime R. López, MD, FACNS
2:40pm Anesthesia During NIOM
   Paul Garcia, MD, PhD
3:20pm Discussion
3:30pm Coffee Break and Visit Exhibits
3:45pm Troubleshooting Issues in NIOM
   Ioannis Karakis, MD, PhD, MSc, FACNS
4:25pm Billing Issues in NIOM
   Marc R. Nuwer, MD, PhD, FACNS

Part II - Sunday, September 22, 2019
9:00am Breakfast
9:20am Welcome and Introductions
   Jaime R. López, MD, FACNS
9:25am Spinal Column Surgery
   Eva K. Ritzl, MD, FACNS
10:05am NIOM of Spinal Cord Tumors
   Eva K. Ritzl, MD, FACNS
10:45am Coffee Break and Visit Exhibits
11:00am Pediatric Considerations in NIOM
   Gloria M. Galloway, MD, MBA, FACNS
11:40am NIOM of Cerebrovascular Cases
   Leslie H. Lee, MD, FACNS
12:20pm Special Studies in IOM (Reflex Studies,
   Use of IOM in Orthopedic Joint Surgeries, VEPs, etc.) vs.
   Case Discussion
   Ronald Emerson, MD, FACNS vs. Panel
1:00pm Lunch and Visit Exhibits
2:00pm Monitoring of Posterior Fossa Surgeries
   Alan D. Legatt, MD, PhD, FACNS
2:40pm Functional Mapping of the Brain
   Mirela V. Simon, MD, FACNS
3:20pm Discussion
3:30pm Coffee Break
3:45pm Practical Considerations in IOM
   Leslie H. Lee, MD, FACNS
4:25pm Medicolegal Concerns in IOM
   Jaime R. López, MD, FACNS

EVENING COURSE
SATURDAY, SEPTEMBER 21, 2019 (5:15PM - 7:00PM)**
CPT CODING CHANGES: EEG MONITORING AND NEUROSTIMULATION
Course Director: Marc R. Nuwer, MD, PhD, FACNS
5:15pm RUC Process to Value New Codes
   Eva K. Ritzl, MD, FACNS
5:45pm Neurostimulation Codes for VNS and RNS
   Jonathan C. Edwards, MD, MBA, FACNS
6:15pm 2020 New CPT Codes for Video-EEG and EEG Monitoring
   Marc R. Nuwer, MD, PhD, FACNS

**Registration for CPT Coding Changes is Complimentary with any full-day Saturday two-day course registration.

HOUSING
The 2019 Fall Courses will be held at the JW Marriott Atlanta Buckhead
3300 Lenox Road NE
Atlanta, GA 30326
ACNS Group Rate: $161/night; single/double occupancy
Housing Deadline: September 3, 2019** at 5:00 pm Eastern Time
**ACNS has reserved a block of rooms that will be available until this date OR until all have been booked at the group rate, whichever comes first. We recommend booking your hotel as soon as your travel plans have been confirmed. Reservations will be accepted on a space-available basis after the housing deadline of September 3, 2019 at 5:00 pm ET.
Visit the ACNS website for hotel and travel information (https://www.acns.org/meetings/fall-courses/2019/housing--travel-information).

IMPORTANT DATES
Housing Open Now! Registration Open Now!
Housing Deadline: September 3, 2019
Advance Registration Deadline: September 3, 2019
Registration Cancellation Deadline: September 9, 2019
CME Certificate Program Opens (pre-registered attendees): September 22, 2019
CME Certificate Program Opens (attendees registering on-site): October 9, 2019

Program is tentative; topics and speakers are subject to change.