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MESSAGE FROM THE PRESIDENT AND COURSE COMMITTEE CO-CHAIRS

On behalf of the American Clinical Neurophysiology Society (ACNS), it is our pleasure to welcome you to Atlanta for the 2019 ACNS Fall Courses. The Fall Courses are led by experts in the field and continue to provide an excellent opportunity for professional growth through education in rapidly-evolving areas of clinical neurophysiology.

The ACNS Course Committee has developed an exceptional program, including parallel courses on Intensive Care Unit Electroencephalography (ICU EEG) Monitoring and Neurophysiologic Intraoperative Monitoring (NIOM). Introduced last year and continued due to an incredible response, a course on Stereo-Electroencephalography will be offered as well. We also think you will find the return of the Pediatric EEG morning course to be a beneficial addition to this weekend’s program.

An exciting addition to this year’s program is the “CPT Coding Changes” course, which will focus on neurostimulation codes for VNS, RNS, and DBS as well as recent changes to the Video EEG and EEG Monitoring codes. This is, of course, a timely opportunity for attendees to learn more about the changes that will take effect in just a few short months.

In addition to the courses, please be sure to stop by the Exhibit Hall during meals and breaks on Saturday and Sunday, as well as attend the Welcome Reception on Saturday evening.

On behalf of the ACNS Council and Course Committee, we would like to thank everyone involved in the 2019 Fall Courses for ensuring their continued success. We hope that the courses provide a valuable educational opportunity for all in attendance and wish everyone a safe and enjoyable weekend in Atlanta.

Sincerely,

Cecil D. Hahn, MD, MPH, FACNS
Frank W. Drislane, MD, FACNS
Courtney J. Wusthoff, MD, FACNS
President
Course Committee Co-Chair
Course Committee Co-Chair

Cecil D. Hahn, MD, MPH, FACNS
Frank W. Drislane, MD, FACNS
Courtney J. Wusthoff, MD, FACNS
President
Course Committee Co-Chair
Course Committee Co-Chair
OFFICERS AND COUNCIL

President
Cecil D. Hahn, MD, FACNS
Hospital for Sick Children

1st Vice President
Gloria M. Galloway, MD, FACNS
Ohio State University Medical Center

2nd Vice President
Suzette M. LaRoche, MD, FACNS
Mission Health

Secretary
Saurabh R. Sinha, MD, PhD, FACNS
Duke University Medical Center

Treasurer
Jaime R. Lopez, MD, FACNS
Stanford University

Immediate Past President
Tobias Loddenkemper, MD, FACNS
Children’s Hospital Boston

Past President
Stephan U. Schuele, MD, MPH, FACNS
Northwestern University

Councilors-at-Large
Meriem Bensalem-Owen, MD, FACNS
University of Kentucky
Giridhar Kalamangalam, MD, DPhil, FACNS
University of Texas
Jong Woo Lee, MD, PhD, FACNS
Brigham & Women’s Hospital
Daniel L. Menkes, MD, FACNS
William Beaumont Hospital
Eva K. Ritzl, MD, FACNS
Johns Hopkins University
Devon I. Rubin, MD, FACNS
Mayo Clinic
Sarah E. Schmitt, MD, FACNS
Medical University of South Carolina
Tammy Tsuhida, MD, PhD, FACNS
Children’s National Health System
Courtney J. Wusthoff, MD, FACNS
Stanford University

AMA Delegate
Marc R. Nuwer, MD, PhD, FACNS
UCLA

Journal Editor
Antif M. Husain, MD, FACNS
Duke University Medical Center

CONTINUING MEDICAL EDUCATION (CME) COMMITTEE

Co-Chairs
Meriem Bensalem-Owen, MD, FACNS
Jong Woo Lee, MD, PhD, FACNS

Members
Kapil Arya, MD, FACNS
Amy Crepeau, MD
Charles M. Epstein, MD, FACNS
Evan J. Fertig, MD
Gloria M. Galloway, MD, MBA, FACNS
Elizabeth Gerard, MD, FACNS
Hiba A. Haider, MD
Abeer J. Hani, MD
Monica Islam, MD
Pongkiat Kankirawatana, MD, FACNS
Fawad A. Khan, MD
Ammar Kheder, MD
Luis Carlos Mayor-Romero, MD
Juan Ochoa, MD, FACNS
Joel Oster, MD
Jun T. Park, MD, FAES
Karl Erwin Sanzenbacher, MD, MS, FACNS
Sarah E. Schmitt, MD, FACNS
Fahd Sultan, MD
Christa Swisher, MD, FACNS
Ron Tintner, MD

Ex-Officio
Nicholas S. Abend, MD, MSCE, FACNS
Meriem Bensalem-Owen, MD, FACNS
Gloria M. Galloway, MD, MBA, FACNS
Leslie Lee, MD, FACNS
Jong Woo Lee, MD, PhD, FACNS

COURSE COMMITTEE

Co-Chairs
Frank W. Drislane, MD, FACNS
Courtney J. Wusthoff, MD, FACNS

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Giridhar P. Kalamangalam, MD, DPhil, FACNS
Leslie H. Lee, MD, FACNS
Jaime R. Lopez, MD, FACNS
Marc R. Nuwer, MD, PhD, FACNS
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ACNS EXECUTIVE OFFICE

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Megan M. Hille, CAE, CMP
mhille@acns.org

Senior Meetings Manager
Erin Trimmer
etrimmer@acns.org

Meetings Coordinator
Elizabeth Mueller
emueller@acns.org
GENERAL MEETING INFORMATION

JW MARRIOTT ATLANTA BUCKHEAD FLOOR PLAN

WIRELESS INTERNET
The ACNS will not provide WiFi access to attendees. Please download or print any course materials ahead of arrival to the Fall Courses.
GENERAL MEETING INFORMATION

ACNS MEETING SAFETY & RESPONSIBILITY POLICY

The American Clinical Neurophysiology Society (ACNS) is committed to providing a safe, productive, and welcoming environment for all meeting participants and ACNS/EDI staff. All participants, including, but not limited to, attendees, speakers, volunteers, exhibitors, ACNS/EDI staff, service providers, and others are expected to and, by virtue of registration, invitation or contract acceptance, agree to abide by this Meeting Safety & Responsibility Policy. This Policy applies to all ACNS meeting-related events, including those sponsored by organizations other than ACNS but held in conjunction with ACNS events, in public or private facilities.

Responsible Drinking

At most ACNS networking events both alcoholic and non-alcoholic beverages are served. ACNS expects participants at our events to drink responsibly. ACNS and Meeting host event staff have the right to deny service to participants for any reason, and may require a participant to leave the event.

Personal Safety and Security

ACNS works diligently to provide a safe and secure environment at its meetings and events by working with venue staff to make sure meeting participants are safe. We ask that all attendees report any questionable or concerning activity to ACNS/EDI staff so that they can take immediate action. No concern is too small, if you see something, say something.

- Be aware of your surroundings at all times.
- Use the buddy system when walking to and from the event venue, networking event locations during early or late hours.
- Don’t wear your meeting badge on the street. Take it off as soon as you leave the building/venue.
- Don’t carry a lot of cash or credit cards. Leave these items in your hotel room safe.
- Don’t leave personal property unattended anywhere, anytime.

If it is an emergency or if you need immediate assistance, you should ask any ACNS/EDI staff member or the on-site security personnel to help you.

Unacceptable Behavior

- Harassment, intimidation, or discrimination in any form.
- Physical or verbal abuse of any attendee, speaker, volunteer, exhibitor, ACNS/EDI staff member, service provider, or other meeting guest.
- Examples of unacceptable behavior include, but are not limited to, verbal comments related to gender, sexual orientation, disability, physical appearance, body size, race, religion, national origin, inappropriate use of nudity and/or sexual images in public spaces or in presentations, or threatening or stalking any attendee, speaker, volunteer, exhibitor, ACNS/EDI staff member, service provider, or other meeting guest.
- Disruption of presentations at sessions, in the exhibit hall, or at other events organized by ACNS at the meeting venue, hotels, or other ACNS-contracted facilities.

ACNS has zero-tolerance for any form of discrimination or harassment, including but not limited to sexual harassment by participants or our staff at our meetings. If you experience harassment or hear of any incidents of unacceptable behavior, ACNS asks that you inform the ACNS President or ACNS Executive Director Megan M. Hille, CMP, CAE (mhille@acns.org) so that we can take the appropriate action.

ACNS reserves the right to take any action deemed necessary and appropriate, including immediate removal from the meeting without warning or refund, in response to any incident of unacceptable behavior, and ACNS reserves the right to prohibit attendance at any future meeting.

PRIVACY AND DATA PROTECTION POLICY

ACNS takes your privacy seriously and will only collect and use your personal information to administer your registration and attendance at its meetings/courses, to provide services that you have requested, and otherwise as you may expressly consent.

It is necessary for ACNS, and authorized parties working with ACNS in connection with meetings, courses, products and services, to collect and use the information that you provide (name and contact information, demographic/practice information) to administer and facilitate your attendance at meeting/courses. This may include sharing your information with others providing goods and services related to the meeting (i.e., the hotel in which the meeting will be held or program/abstract collection software vendors). In these cases, ACNS has a “legitimate interest” in collecting and sharing your data, and considers your meeting/course registration or product/service purchase your consent to collect, use and share said data.

You will, however, be given the opportunity to opt-out of non-essential collection and use of your information during all meeting/course registration and product/service purchase processes.

PHOTOGRAPHY AND RECORDING POLICY

Photography or video or audio recording of sessions, materials presented in sessions, or exhibits without written permission from ACNS is strictly prohibited. Please note that photographs and video taken by or on behalf of ACNS of event activities and attendees shall be the property of ACNS.
CONTINUING MEDICAL EDUCATION (CME) INFORMATION

MEETING DESCRIPTION
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, physiatrists, 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.

LEARNING OBJECTIVES

Stereo-Electroencephalography (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
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.

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

ASET CEU STATEMENT

ASET — The Neurodiagnostic Society has granted ASET Continuing Education (ACE) credits as follows for this program. Such crediting, should not be construed by program participants as an endorsement of any type of instruments or supplies mentioned or involved in these presentations.

Intensive Care Unit EEG Monitoring (ICU EEG) — Pt. I: 6 ASET-CEUs
Intensive Care Unit EEG Monitoring (ICU EEG) — Pt. II: 6 ASET-CEUs
Neurophysiologic Intraoperative Monitoring (NIOM)-Pt. I — 6 ASET-CEUs
Neurophysiologic Intraoperative Monitoring (NIOM)-Pt. II — 6 ASET-CEUs
Stereo-Electroencephalography (Stereo EEG) — 7.5 ASET CEUs
Pediatric EEG Update — 1.5 ASET CEUs

Upon completion of the event attendees should follow the below instructions to claim their ASET-CEU credits:
- Print and sign your name on the ASET-CEUs Attendance Roster at the end of the program in order to receive ASET-CEUs. If you arrive late or need to leave the program early (by 30 minutes or more), write the time in the far right column. Your program director will determine the number of credit hours you might be eligible to receive.
- You will also be asked to turn in your completed program evaluation form when you sign out. The evaluation forms are a very important part of the ASET-CEUs process.
- A transcript of your ASET-CEUs hours will be sent to you upon request. If you would like to receive your transcript, please complete the ASET-CEUs Transcript form and mail or fax to the address at the bottom of this page. ASET-CEUs transcripts are free for members and $25.00 for non-members.

CME CERTIFICATES & CERTIFICATES OF ATTENDANCE

Please visit the ACNS website to claim your CME or Attendance Certificate:
- Go to www.acns.org/meetings/fall-courses/2019/cme-information
- Click the “Claim CME or Attendance Certificate” button;
- Enter your last name and ACNS ID number;
  - If you registered in advance, your ACNS ID # can be found on the confirmation form/receipt that you received via e-mail and in your registration materials.
  - If you registered onsite in Atlanta, your ID number will be emailed to you no later than October 15, 2019.
- Indicate the type of certificate you require: CME Certificate or Certificate of Attendance;
- Indicate which sessions you attended and complete session evaluation forms for each;
- Print your certificate or save to your desktop (PDF format). Session attendance and evaluation information are saved in the database, and certificates may be accessed again in the event the certificate is lost or another copy is required.

Delegates are REQUIRED to complete evaluations to obtain a CME or attendance certificate.

All certificates must be claimed online. Certificates will not be mailed or emailed.

If you registered in advance, you may claim your certificate immediately following the completion of the course. If you registered onsite in Atlanta, you will receive an email with your ID # no later than October 15, 2019.

ACNS asks that all CME certificates be claimed no later than December 31, 2019.
Please contact ACNS at info@acns.org for any questions.
CONFLICT OF INTEREST DISCLOSURES

POLICY ON FINANCIAL DISCLOSURES

It is the policy of ACNS to ensure balance, independence, objectivity and scientific rigor in all its individually sponsored or jointly sponsored educational programs. In order to comply with the ACCME’s Updated Standards for Commercial Support, ACNS requires that anyone who is in a position to control the content of an educational activity discloses all relevant financial relationships with any commercial entity pertaining to the content of the presentation. Should it be determined that a conflict of interest exists as a result of a financial relationship of a planner of the CME activity, the planner must recuse himself or herself from the planning for that activity or relevant portion of that activity. All presentations for which the presenter disclosed a potential conflict of interest are peer reviewed by two members of the ACNS CME Committee with no relationships. If bias is found, the presenter is asked to make changes to the presentation and it is re-reviewed for bias before final approval. Refusal to disclose a conflict or the inability to resolve an identified conflict precludes participation in the CME activity. Complete conflict of interest disclosure information is printed in the final program for the activity. A learner may request additional information regarding the nature of a planner or speaker’s disclosure if “No Relevant Relationships” has been indicated below. To request additional information, contact the ACNS Executive office at info@acns.org.

<table>
<thead>
<tr>
<th>Name of Individual</th>
<th>Institution</th>
<th>Individual’s Role(s) in Activity</th>
<th>Nature of Relationship(s)</th>
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</thead>
<tbody>
<tr>
<td>Cecil D. Hahn, MD, MPH, FACNS</td>
<td>The Hospital for Sick Children</td>
<td>Planner, Reviewer, Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Gloria M. Galloway, MD, MBA, FACNS</td>
<td>Ohio State University Medical Center</td>
<td>Planner, Reviewer, Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Tobias Loddenkemper, MD, FACNS</td>
<td>Boston Children’s Hospital</td>
<td>Planner, Reviewer</td>
<td>Lundbeck: (a); Eisai: (a); Upsher-Smith: (a, b); Mallinckrodt: (a); Sage: (a); Pfizer: (a); Zogenix: (a); Amzell: (b); Advanced Medical: (b); Device Loans</td>
</tr>
<tr>
<td>Suzette M. LaRoche, MD, FACNS</td>
<td>Mission Health</td>
<td>Planner, Reviewer, Speaker</td>
<td>Brain Sentinel: (d)</td>
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<tr>
<td>Saurabh R. Sinha, MD, PhD, FACNS</td>
<td>Duke University Medical Center</td>
<td>Planner, Reviewer, Speaker</td>
<td>Basilea Inc.: (d); Cadwell Inc.: (b); Eisai Inc.: (a); UCB Pharmaceuticals: (a, b)</td>
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<tr>
<td>Jaime R. Lopez, MD, FACNS</td>
<td>Stanford University</td>
<td>Planner, Reviewer, Speaker</td>
<td>No Relationships</td>
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<tr>
<td>Stephan U. Schuele, MD, MPH, FACNS</td>
<td>Northwestern University</td>
<td>Planner, Reviewer, Speaker</td>
<td>Eisai Inc.: (d); SK Life Science: (b); Sunovion: (d)</td>
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<tr>
<td>Aatif M. Husain, MD, FACNS</td>
<td>Duke University Medical Center</td>
<td>Planner, Reviewer, Speaker</td>
<td>Eisai Pharmaceuticals: (b, d); Jazz Pharmaceuticals: (b, d); Marinus Pharmaceuticals: (b, d)</td>
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<tr>
<td>Meriem Bensalem-Owen, MD, FACNS</td>
<td>University of Kentucky</td>
<td>Planner, Reviewer, Speaker</td>
<td>Greenwich Biosciences: (a); Neupace: (a); Sunovion: (a)</td>
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<tr>
<td>Giridhar P. Kalamangalam, MD, Dphil, FACNS</td>
<td>University of Florida</td>
<td>Planner, Reviewer, Speaker</td>
<td>No Relationships</td>
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<tr>
<td>Jong Woo Lee, MD, PhD, Dphil, FACNS</td>
<td>Brigham &amp; Women’s Hospital</td>
<td>Planner, Reviewer, Speaker</td>
<td>Advance Medical: (f) SleepMed/DigiTrace: (f)</td>
</tr>
<tr>
<td>Daniel L. Menkes, MD, FACNS</td>
<td>William Beaumont Hospital</td>
<td>Planner, Speaker</td>
<td>CMTE: (c)</td>
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<tr>
<td>Eva K. Ritzl, MD, FACNS</td>
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<td>Sage Therapeutics: (d)</td>
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<td>Tammy Tsuchida, MD, PhD, FACNS</td>
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<td>Planner</td>
<td>No Relationships</td>
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<td>Stanford University</td>
<td>Planner</td>
<td>Ceribell: (b); Persyst: (b)</td>
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Key: a. Grants/Research Support; b. Consultant; c. Stock/Shareholder (self-managed); d. Speaker’s Bureau; e. Advisory Board or Panel; f. Salary, Contractual Services; g. Other Financial or Material Support (royalties, patents, etc.)
## CONFLICT OF INTEREST DISCLOSURES

<table>
<thead>
<tr>
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<th>Relationships</th>
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<tbody>
<tr>
<td>Dana B. Harrar, MD, PhD</td>
<td>Children’s National Medical Center</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Rejean M. Guerriero, DO</td>
<td>St. Louis Children’s Hospital, Washington University School of Medicine</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Lawrence W. Verhoef, MD</td>
<td>University of Alabama Birmingham</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Jon T. Willie, MD, PhD</td>
<td>Emory University School of Medicine</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Daniel L. Drane, PhD</td>
<td>Emory University School of Medicine</td>
<td>Speaker</td>
<td>Medtronic: (a); Neupace: (b)</td>
</tr>
<tr>
<td>Shavonne Massey, MD, MSCE</td>
<td>The Children’s Hospital of Philadelphia</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Brandon Foreman, MD, FACS</td>
<td>University of Cincinnati</td>
<td>Speaker</td>
<td>UCB Pharmaceuticals: (d)</td>
</tr>
<tr>
<td>Peter W. Kaplan, MD, FRCP, FACS</td>
<td>Johns Hopkins Bayview Medical Center</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Monica Dhakar, MD, MS</td>
<td>Emory University</td>
<td>Speaker</td>
<td>Adams Pharmaceuticals: (b); UCB Biopharma SPRL: (a)</td>
</tr>
<tr>
<td>Edilberto Amorim, MD</td>
<td>Massachusetts General Hospital</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>M. Brandon Westover, MD, PhD, FACS</td>
<td>Massachusetts General Hospital</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Andres Rodriguez Ruiz, MD</td>
<td>Emory University School of Medicine</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Ronald Emerson, MD, FACS</td>
<td>Hospital for Special Surgery / Weill Cornell Med Ctr</td>
<td>Speaker</td>
<td>Amgen: (c); Bristol Myers Squibb: (c); Eli Lilly &amp; Company: (c); General Electric: (c); Ice Neurosystems, Inc: (c); Johnson &amp; Johnson, Inc: (c); Neupace: (c); Pfizer: (c); Quality Care Properties: (c); Reach Bionics: (c); Thermo Fisher Scientific: (c)</td>
</tr>
<tr>
<td>Alan D. Legatt, MD, PhD, FACS</td>
<td>Montefiore Medical Center</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Mirela V. Simon, MD, FACS</td>
<td>Massachusetts General Hospital</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Paul Garcia, MD, PhD</td>
<td>Columbia University</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Ioannis Karakis, MD, PhD, MSc, FACS</td>
<td>Emory University School of Medicine</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
<tr>
<td>Jonathan C. Edwards, MD, MBA, FACS</td>
<td>Medical University of South Carolina</td>
<td>Speaker</td>
<td>No Relationships</td>
</tr>
</tbody>
</table>

**Executive Office Staff**

| Megan M. Hille, CMP, CAE | ACNS | Other (staff) | No Relationships |
| Erin Trimmer | ACNS | Other (staff) | No Relationships |
| Deedee Mader | ACNS | Other (staff) | No Relationships |
| Elizabeth Mueller | ACNS | Other (staff) | No Relationships |

**Key:** a. Grants/Research Support; b. Consultant; c. Stock/Shareholder (self-managed); d. Speaker’s Bureau; e. Advisory Board or Panel; f. Salary, Contractual Services; g. Other Financial or Material Support (royalties, patents, etc.)
COURSE AGENDAS

MORNING COURSES

7:00 - 9:00am  
**Neonatal and Pediatric EEG Symposium - Basic Principles and Advanced Concepts**  
Location: Salon I & III  
Course Director: Arnold J. Sansevere, MD

- **Time**  
- **Session**  
- **Description**  
- **Speakers**  

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

**Stereo-Electro Encephalography (Stereo EEG)**  
Location: Salon II & IV  
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
- 7:05am 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 Pediatric Stereo-Electro Encephalography  
  John T. Willie, MD, PhD  
- 8:00am Surgical Aspects  
  John T. Willie, MD, PhD  
- 8:30am Cognitive Outcome  
  Daniel L. Drane, PhD

EVENING COURSE

5:15pm - 7:00pm  
**CPT Coding Changes: EEG Monitoring and Neurostimulation**  
Location: Atlanta Room  
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

WELCOME & NETWORKING RECEPTION

Saturday, September 21  
5:00 - 8:00pm  
Exhibit Hall - Salon V - VI

Join ACNS leaders, course speakers and colleagues for lively conversation and light refreshments.

The reception will begin at the end of the full-day courses on Saturday, September 21 (5:00pm) and continue through the end of the CPT Coding Changes Course (8:00pm) to allow all to attend.
## COURSE AGENDAS

### INTENSIVE CARE UNIT EEG MONITORING (ICU EEG)

**Location:** Salon I & III  
**Course Co-Directors:** Hiba A. Haider MD, FACNS and Sarah E. Schmitt, MD, FACNS

### Part I - Saturday, September 21, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>Breakfast</td>
</tr>
<tr>
<td>9:20am</td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td>9:30am</td>
<td>ICU EEG Monitoring: An Overview Across the Ages</td>
</tr>
<tr>
<td></td>
<td>Cecil D. Hahn, MD, MPH, FACNS</td>
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<tr>
<td>10:15am</td>
<td>ICU EEG: Guidelines</td>
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<tr>
<td></td>
<td>Susan T. Herman, MD, FACNS</td>
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<tr>
<td>10:45am</td>
<td>Coffee Break and Visit Exhibits</td>
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<tr>
<td>11:00am</td>
<td>The Ictal Intercital Continuum: Identifying Seizures, Periodic Patterns and Everything in Between</td>
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<tr>
<td></td>
<td>Suzette M. LoRoche, MD, FACNS</td>
</tr>
<tr>
<td>11:30am</td>
<td>Seizures: Early Management in Adults</td>
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<tr>
<td></td>
<td>Sarah E. Schmitt, MD, FACNS</td>
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<tr>
<td>12:00pm</td>
<td>Seizures: Management of Refractory and Super-Refractory Status Epilepticus</td>
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<tr>
<td></td>
<td>Hiba A. Haider, MD, FACNS</td>
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<tr>
<td>12:30pm</td>
<td>Impact of Seizure Management on Outcome: Risk-Benefit Calculus</td>
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<tr>
<td></td>
<td>Aatif M. Husain, MD, FACNS</td>
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<tr>
<td>1:00pm</td>
<td>Lunch — provided in Exhibit Hall (Salon V-VI)</td>
</tr>
<tr>
<td>2:00pm</td>
<td>Seizures: Management in Neonates and Children</td>
</tr>
<tr>
<td></td>
<td>Shavonne Massey, MD, MSCE</td>
</tr>
<tr>
<td>2:30pm</td>
<td>Seizures: Unusual Types of Status Epileptic</td>
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<tr>
<td></td>
<td>Frank W. Drislane, MD, FACNS</td>
</tr>
<tr>
<td>3:00pm</td>
<td>Multimodal and Invasive Monitoring</td>
</tr>
<tr>
<td></td>
<td>Brandon Foreman, MD, FACNS</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Coffee Break and Visit Exhibits</td>
</tr>
<tr>
<td>3:45pm</td>
<td>EEG in Toxic/Metabolic Encephalopathy (Delirium): Adults</td>
</tr>
<tr>
<td></td>
<td>Peter W. Kaplan, MD, FRCP, FACNS</td>
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<tr>
<td>4:15pm</td>
<td>Adult Case Presentations</td>
</tr>
<tr>
<td></td>
<td>Monica B. Dhokar, MD, MS</td>
</tr>
<tr>
<td>4:30pm</td>
<td>Pediatric Case Presentations</td>
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<tr>
<td></td>
<td>Shavonne Massey, MD, MSCE</td>
</tr>
<tr>
<td>4:45pm</td>
<td>Conclusion</td>
</tr>
<tr>
<td>5:00pm</td>
<td>Welcome &amp; Networking Reception</td>
</tr>
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</table>

### Part II - Sunday, September 22, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>Breakfast</td>
</tr>
<tr>
<td>9:20am</td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td>9:30am</td>
<td>QEEG: Overview of Available Tools and Uses</td>
</tr>
<tr>
<td></td>
<td>Hiba A. Haider, MD, FACNS</td>
</tr>
<tr>
<td>10:05am</td>
<td>QEEG at the Bedside: Seizure Detection and Beyond</td>
</tr>
<tr>
<td></td>
<td>Christa Swisher, MD, FACNS</td>
</tr>
<tr>
<td>10:45am</td>
<td>Coffee Break and Visit Exhibits</td>
</tr>
<tr>
<td>11:00am</td>
<td>QEEG: Seizure Recognition Tutorial</td>
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<tr>
<td></td>
<td>Edilberto Amorim, MD</td>
</tr>
<tr>
<td>11:30am</td>
<td>QEEG: Ischemia Detection</td>
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<tr>
<td></td>
<td>M. Brandon Westover, MD, PhD, FACNS</td>
</tr>
<tr>
<td>12:00pm</td>
<td>QEEG: Adult Case Presentations</td>
</tr>
<tr>
<td></td>
<td>Christa Swisher, MD, FACNS</td>
</tr>
<tr>
<td>12:15pm</td>
<td>QEEG: Pediatric Case Presentations</td>
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<tr>
<td></td>
<td>Tammy Tsuchida, MD, PhD, FACNS</td>
</tr>
<tr>
<td>12:30pm</td>
<td>EEG in ICU Sedation Monitoring</td>
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<td></td>
<td>M. Brandon Westover, MD, PhD, FACNS</td>
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<tr>
<td>1:00pm</td>
<td>Lunch — provided in Exhibit Hall (Salon V-VI)</td>
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<tr>
<td>2:00pm</td>
<td>HIE: EEG in Anoxic Brain Injury /Targeted Temperature Management</td>
</tr>
<tr>
<td></td>
<td>Jong Woo Lee, MD, PhD, FACNS</td>
</tr>
<tr>
<td>2:30pm</td>
<td>HIE: Prognosis in Adults</td>
</tr>
<tr>
<td></td>
<td>Edilberto Amorim, MD</td>
</tr>
<tr>
<td>3:00pm</td>
<td>HIE: Prognosis in Children and Neonates</td>
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<tr>
<td></td>
<td>Tammy Tsuchida, MD, PhD, FACNS</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>3:45pm</td>
<td>Artifacts in the ICU: Navigating a (Electrically) Hostile Environment</td>
</tr>
<tr>
<td></td>
<td>Sarah E. Schmitt, MD, FACNS</td>
</tr>
<tr>
<td>4:15pm</td>
<td>Setting Up Your ICU EEG Service: Staffing, Personnel, Workflow and Logistics</td>
</tr>
<tr>
<td></td>
<td>Andres Rodriguez Ruiz, MD</td>
</tr>
<tr>
<td>4:45pm</td>
<td>Conclusion</td>
</tr>
</tbody>
</table>

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**2019 ACNS Annual Meeting & Courses September 21-22, 2019 ATLANTA, GEORGIA**
## COURSE AGENDAS

### NEUROPHYSIOLOGIC INTRAOPERATIVE MONITORING (NIOM)

Location: Salon II & IV  
Course Co-Directors: Leslie H. Lee, MD, FACNS and Jaime R. Lopez, MD, FACNS

<table>
<thead>
<tr>
<th><strong>Part I - Saturday, September 21, 2019</strong></th>
<th><strong>Part II - Sunday, September 22, 2019</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am Breakfast</td>
<td>9:00am Breakfast</td>
</tr>
<tr>
<td>9:20am Welcome &amp; Introduction</td>
<td>9:20am Welcome and Introductions</td>
</tr>
<tr>
<td>Leslie H. Lee, MD, FACNS</td>
<td>Jaime R. López, MD, FACNS</td>
</tr>
<tr>
<td>9:25am SEP</td>
<td>9:25am Spinal Column Surgery</td>
</tr>
<tr>
<td>Aatif M. Husain, MD, FACNS</td>
<td>Eva K. Ritzl, MD, FACNS</td>
</tr>
<tr>
<td>10:05am MEP</td>
<td>10:05am NIOM of Spinal Cord Tumors</td>
</tr>
<tr>
<td>Ronald Emerson, MD, FACNS</td>
<td>Eva K. Ritzl, MD, FACNS</td>
</tr>
<tr>
<td>10:45am Coffee Break and Visit Exhibits</td>
<td>10:45am Coffee Break and Visit Exhibits</td>
</tr>
<tr>
<td>11:00am BAEP Monitoring</td>
<td>11:00am Pediatric Considerations in NIOM</td>
</tr>
<tr>
<td>Alan D. Legatt, MD, PhD, FACNS</td>
<td>Gloria M. Galloway, MD, MBA, FACNS</td>
</tr>
<tr>
<td>11:40am EEG Monitoring</td>
<td>11:40am NIOM of Cerebrovascular Cases</td>
</tr>
<tr>
<td>Mirela V. Simon, MD, FACNS</td>
<td>Leslie H. Lee, MD, FACNS</td>
</tr>
<tr>
<td>12:20pm EMG and Peripheral Nerve Monito</td>
<td>12:20pm Special Studies in IOM (Reflex</td>
</tr>
<tr>
<td>ring</td>
<td>Studies, Use of IOM in Orthopedic Joint</td>
</tr>
<tr>
<td>Gloria M. Galloway, MD, MBA, FACNS</td>
<td>Surgeries, VEPs, etc.) vs. Case Discussion</td>
</tr>
<tr>
<td>1:00pm Lunch — provided in Exhibit Hall</td>
<td>Ronald Emerson, MD, FACNS vs. Panel</td>
</tr>
<tr>
<td>(Salon V-VI)</td>
<td>1:00pm Lunch — provided in Exhibit Hall</td>
</tr>
<tr>
<td></td>
<td>(Salon V-VI)</td>
</tr>
<tr>
<td>2:00pm Cranial Nerve Monitoring</td>
<td>2:00pm Monitoring of Posterior Fossa Sur</td>
</tr>
<tr>
<td>Jaime R. López, MD, FACNS</td>
<td>geries</td>
</tr>
<tr>
<td>2:40pm Anesthesia During NIOM</td>
<td>2:40pm Functional Mapping of the Brain</td>
</tr>
<tr>
<td>Paul Garcia, MD, PhD</td>
<td>Mirela V. Simon, MD, FACNS</td>
</tr>
<tr>
<td>3:20pm Discussion</td>
<td>3:20pm Discussion</td>
</tr>
<tr>
<td>3:30pm Coffee Break and Visit Exhibits</td>
<td>3:30pm Coffee Break</td>
</tr>
<tr>
<td>3:45pm Troubleshooting Issues in NIOM</td>
<td>3:45pm Practical Considerations in IOM</td>
</tr>
<tr>
<td>Ioannis Karakis, MD, PhD, MSc, FACNS</td>
<td>Leslie H. Lee, MD, FACNS</td>
</tr>
<tr>
<td>4:25pm Billing Issues in NIOM</td>
<td>4:25pm Medicolegal Concerns in IOM</td>
</tr>
<tr>
<td>Marc R. Nowee, MD, PhD, FACNS</td>
<td>Jaime R. López, MD, FACNS</td>
</tr>
<tr>
<td>5:00pm Welcome &amp; Networking Reception</td>
<td></td>
</tr>
</tbody>
</table>

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

EXHIBIT HALL HOURS
Location: Phoenix Ballroom, Salon V - VI

Saturday, September 21, 2019
8:00am - 8:00pm (including Welcome & Networking Reception 5:00 - 8:00pm)

Sunday, September 22, 2019
8:00am – 2:00pm

ACNS provides exhibit space at scientific meetings for commercial exhibits related to the fields of basic and clinical neurophysiology. The Society makes no attempt to evaluate any aspect of the material exhibited. Noncompliance with guidelines published by the ACNS has not been considered by the Society in allotting commercial space. Hence, acceptance of these commercial exhibits should not be construed as indicated sponsorship or approval of their products by ACNS.

EXHIBITORS

The American Board of Clinical Neurophysiology (ABCN)
ABRET Neurodiagnostic Credentialing & Accreditation
2908 Greenbriar Drive
Springfield, IL 62704
(217) 726-7980
janice@abcn.org
www.abcn.org
www.abret.org

The American Board of Clinical Neurophysiology (ABCN) has a 65-year history of promoting excellence in Clinical Neurophysiology and offers examinations with added competency in Epilepsy Monitoring, Neurophysiologic Intraoperative Monitoring, Critical Care EEG, or General Clinical Neurophysiology. International testing is available. Stop by to see the new on-line CNP Self-Assessment program! Coming soon — Pediatric EEG Track.

ABRET Neurodiagnostic Credentialing & Accreditation offers five credentials for technologists and practitioners (R. EEG T.®, R. EP T.®, CNIM®, CLTM®, CAP®) and a Certificate Program, CMEG®. For labs wanting to demonstrate a commitment to standards and quality, laboratory accreditation programs are available, LAB-EEG, LAB-NIOM, and LAB-LTM.

Cadwell Industries, Inc.
909 N. Kellogg Street
Kennewick, WA 99336
(509) 735-6481
info@cadwell.com
www.cadwell.com

Cadwell celebrates 40 years of delivering neurophysiology solutions. In 1979, John Cadwell, BSEE, MD partnered with his brother Carl Cadwell, DDS, to form Cadwell Laboratories in Washington State. Cadwell combines customer input, employee expertise and USA-made components to develop Arc EEG for at-home ambulatory and clinical use, EMU, and LTM; the innovative Sierra Summit EMG/EP/NCS with optional integrated ultrasound; Cascade Surgical Studio IONM and CadX simulator for training; Easy III in-lab PSG and integrated ApneaTrak HSAT; CadLink Data Management; and neuro consumables. Our sales managers, support teams, and distributors serve physicians and medical centers worldwide. Cadwell: Helping you help others.

Ceribell
2483 Old Middlefield Way
Suite 120
Mountain View, CA 94043
(800) 436-0826
eeg@ceribell.com
www.ceribell.com

Ceribell is focused on making EEG widely accessible, more efficient, and more cost-effective to improve the diagnosis and treatment of patients at risk for seizures. The System can be set up by any healthcare provider within minutes and offers a Brain Stethoscope function that dramatically simplifies interpretation of EEG results.

DIXI Medical USA Corp
11910 Fox Ridge Drive
Plymouth, MI 48170
(888) 664-3494
sales@diximedus.com
www.diximedus.com

Designer and manufacturer of medical devices for functional and stereotactic neurosurgery for the treatment of epilepsy. Since 1975 DIXI Medical has been developing & producing intracranial electrodes. DIXI possesses the skills and resources necessary to design and manufacture invasive and non-invasive medical instruments for neurosurgery.

Ideal Health Careers, Inc.
3455 Peachtree Rd #500
Atlanta, GA 30326
404-816-9988
dcruz@idealhealthcareers.com
www.idealhealthcareers.com

Ideal Health Careers is a professional search firm focusing solely on the clinical neurophysiology market, enabling us to become a key strategic asset for our clients. We have been recruiting in this space since 2005 and have successfully placed dozens of interpreting physicians and 200+ IOM/EEG clinical, sales, and marketing professionals across the country. We understand the neurodiagnostic market! We have several full-time opportunities for experienced clinical neurophysiologists (IOM) as well as those completing fellowships in 2019/2020.
EXHIBIT HALL INFORMATION

Lifelines Neurodiagnostic Systems
411 Edwardsville Road
Suite A
Troy, IL 62294
(618) 667-6445
sales@lifelinesneuro.com

Inspired by our users, Lifelines Neuro creates EEG products and solutions that help our customers perform at their best every day, to provide the highest quality patient care. Our platform anticipates users’ needs and emerging industry trends to create intuitive products that enable our customers to imagine EEG anywhere. Our Rendr Platform cloud software connects patients to physicians in real-time, all the time, on any device. Lifelines Neuro Trackit EEG amplifiers and systems are known globally for their exceptional engineering and durability. Our headquarters is in Louisville, KY, with corporate offices in Troy, IL, Stockbridge, UK and Dublin, IRL.

Neurotech
626 W. Moreland Blvd.
Waukesha, WI 53188
(262) 754-0898
info@neurotecheeg.com
www.neurotecheeg.com

Neurotech, LLC specializes in EEG services including in-home, long-term, and continuous hospital EEG monitoring. Accredited by the Joint Commission and partnered with many academic facilities, our in-home, long-term EEG monitoring services improves our patients’ comfort and provides a cost-effective alternative to a hospital stay. Neurotech cEEG Partners, LLC provides hospitals with continuous EEG monitoring in the ICU and EMU to improve patient safety and outcomes.

Persyst Development Corporation
420 Stevens Avenue
Suite 210
Solana Beach, CA 92705
(928) 708-0705
sales@persyst.com
www.persyst.com

Persyst is the worldwide leader in EEG software. Our software is used daily by thousands of neurologists at hundreds of hospitals around the world. We have pioneered the use of digital signal processing and neural networks in order to remove artifacts and interpret EEG data.

PMT Corporation
1500 Park Road
Chanhassen, MN 55317
(952) 470-0866
info@pmtcorp.com
www.pmtcorp.com

PMT® Corporation is the premier supplier of an extensive line of neurosurgical products. Offering high-end neck braces, including halo systems and orthotic vests for cervical, thoracic and lumbar spinal immobilization. PMT® also offers Cortac® Cortical Surface Electrodes, sEEG and Depthalon® Depth Electrodes for epilepsy monitoring; microsurgical and irrigation instruments. PMT® Corporation has nationwide direct sales force available 24 hours a day and 365 days a year, along with distributors worldwide.

UCB
1950 Lake Park Drive
Smyrna, GA 30080

UCB is a global biopharma company that manufactures VIMPAT (lacosamide), BRIVIACT (brivaracetam), and Nayzilam (midazolam) nasal spray. Information for these products can be found at https://www.vimpat.com/, https://www.briviact.com/, and https://www.nayzilam.com/ respectively.
PRODUCT THEATER

This session is supported and programmed by a single supporting company and will feature presentations on topics and technologies selected by the company. Boxed lunches will be provided by ACNS, and are not reportable according to the Sunshine Act.

CME credits are NOT available for the Product Theaters.

RAPID RESPONSE EEG: WHY DO WE NEED IT?

Presented by Ceribell
Saturday, September 21
1:15 – 2:00pm
Atlanta Room

Instructor:
Josef Parvizi, MD, PhD
Professor of Neurology
Stanford Comprehensive Epilepsy Center
Stanford University Medical Center

In this hour, we will present the history of the Ceribell Rapid Response EEG from its inception, explain why it was invented, and review the latest results from studies validating performance and diagnostic utility. Conventional practice of EEG over the last 60 years has relied on the standardized International 10-20 system, in which over half of the electrodes are placed over the midline and parasagittal regions of the brain. This practice has been dependent on specialized technicians and, traditionally, on large recording rigs. We have followed this same convention both in the emergency stat EEGs to detect non-convulsive seizures and status and also when we are looking for subtle signs of epileptic abnormality to confirm the diagnosis of epilepsy. While the coverage afforded by the 10-20 EEG system is valuable in standardizing EEG recordings across sites, the added value of this approach in neuro emergency settings is highly questionable. Letting go of old traditions may be necessary if we are to make a significant advancement in the practice of EEG.
Registration & Housing Open October 1
Poster Abstract Submission Open October 1-November 15
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