



# FINAL PROGRAM

2025 ACNS ANNUAL MEETING AND COURSES

# BALTIMORE



BALTIMORE MARRIOTT WATERFRONT

FEBRUARY 27-MARCH 2

# ABOUT THE AMERICAN CLINICAL NEUROPHYSIOLOGY SOCIETY (ACNS)

ACNS' mission is to serve patients and society by empowering members to advance the science, practice and profession of clinical neurophysiology. This mission serves to fulfill the vision to optimize neurologic health through understanding of nervous system function

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.

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## ACNS EXECUTIVE OFFICE

555 E Wells St, Suite 1100  
Milwaukee, WI 53202  
Phone: (414) 918-9803 Fax: (414) 276-3349  
[info@acns.org](mailto:info@acns.org) [www.acns.org](http://www.acns.org)

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For more information about the  
ACNS Strategic Fund, visit [https://  
www.acns.org/donate/support-acns](https://www.acns.org/donate/support-acns)

# HIRING REMOTE NEUROMONITORING PHYSICIANS



## WHO WE ARE

SpecialtyCare is the largest provider of Neuro Services in the nation, providing care to over 130,000 patients every year. At SpecialtyCare, the health of the patient always comes first. As a partner in Neuro Services, our physicians subspecialize in neurodiagnostic tests including EEG and IONM. We are dedicated to providing the highest quality care during the most complex procedures in spine surgery, brain surgery, cardiac surgery, vascular surgery, and orthopedic surgery. Our expertise in Neuro Services is relied upon to help reduce risk and improve patient safety.

Our physicians, while working from home, provide supervisory services to SpecialtyCare surgical neurophysiologists (SNs) performing intraoperative neuromonitoring. These services are provided real-time, via a secure remote internet connection. This allows for real-time data observation and communication with the on-site surgical neurophysiologist, operating surgeon, anesthesiologist, and other operating room personnel as needed from a dedicated work space.

We are the largest provider of neuromonitoring services in the US. We've built our success on the foundation of clinical excellence and innovation. Our telemedicine capabilities allow our neuromonitoring physicians to enjoy the challenges and rewards of monitoring a variety of cases. Utilizing telehealth technology, our physician team partners with highly trained surgical neurophysiologists. The team is always passionate about delivering excellent patient care.

We are a people company. We are highly talented, and we take excellence seriously. Exceptional care and positive patient outcomes require that our team members be intensely dedicated to collaborating and driving excellence at every turn. Our Neurology practice supports our doctors so that our physicians can support what is important to them: providing IONM care while maintaining a *work/life balance*.

We collaborate with you to achieve your career goals. We offer generous learning and development opportunities and continuing education assistance to ensure we are continued leaders in the field.

Please send your CV to our Physician Recruiter, Heather Thomas at [heather.thomas@specialtycare.net](mailto:heather.thomas@specialtycare.net).

We can't wait to meet you!

SpecialtyCare is an Equal Opportunity and Affirmative Action Employer. Employment at SpecialtyCare is At-Will.

## WHAT WE OFFER

- Generous sign on bonus
- Ability to create flexible schedules
- Comprehensive health, dental, vision, life, and insurance plans
- Flexible spending account plan (FSA) and health savings account (HSA)
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- Student Loan Repayment assistance available
- Generous paid time off (PTO) plan
- Professional membership and dues allowance
- Clinical and leadership training opportunities
- Internal Credentialing Team to assist with obtaining and maintaining licensure and privileges
- State licensing, hospital, and credentialing fees are covered by SpecialtyCare

*We want to talk to you - your unique perspective is important to us!*

You must have an M.D. or D.O. degree and be board certified in Neurology. You'll need to be eligible for unrestricted medical licensure in the states where we provide services and where you reside. We love to see IONM, EEG, EMG/NCS, and evoked potential interpretation experience. Board certification in clinical neurophysiology or a clinical fellowship in neurophysiology is preferred.



# GENERAL MEETING INFORMATION

## ABOUT THE ANNUAL MEETING & COURSES

The ACNS Annual Meeting & Courses are the flagship educational programs designed to provide a solid review of the fundamentals and the latest scientific advances in both “central” and “peripheral” clinical neurophysiology.

Presentations at the Annual Meeting & Courses are given by leading experts in the field and have value for healthcare professionals who utilize clinical neurophysiology. Sessions include symposia, workshops, and courses, featuring didactic lectures, expert panels, debates, and interactive formats. Poster presentations at the Annual Meeting highlight the latest work conducted at clinical neurophysiology centers around the country.

The meeting also features a number of opportunities for networking, including a Professional Development Mentorship Program in which residents and fellow applicants are paired with senior ACNS members and provided an opportunity to connect.

## BUSINESS MEETING

The ACNS Annual Business Meeting will be held during the General Session on Friday, February 28 from 11:30am - 1:00pm in Grand Ballroom VI, 3rd Floor.

## COURSE HANDOUTS

Course handouts will be available to download on the mobile app. Some handouts have not been provided by the presenter and are, therefore, not available.

## EXHIBIT & POSTER HALL

Location: Harborside Ballroom, 4th Floor

### Hours:

|  |                 |
|--|-----------------|
| Thursday, February 27, (Welcome Reception) | 6:30 - 8:00pm   |
| Friday, February 28                        | 9:30am - 4:15pm |
| Saturday, March 1                          | 9:30am - 3:15pm |

See page 48 for a full list of Exhibitors and descriptions.

## INTERNET

Wireless Internet access is available to Annual Meeting & Courses delegates throughout the meeting space. To access the Internet, use the following network credentials:

Network: MarriottBonvoy\_Conference  
 Password: ACNS25

## MOBILE APP

Make the most of your conference experience with the ACNS 2025 Annual Meeting & Courses Mobile App!

1. Download the eventScribe App: Go to the App Store or Google Play and search eventScribe.
2. Login to the App: If you already have an account, login with your username (email) and password (access key) otherwise create an account. Use Event Code ACNS 2025 to enter the app.

See page 6 for complete details.

## POSTER PRESENTATIONS

All posters will be on display in the Exhibit Hall, Harborside Ballroom, 4th floor, from Thursday, February 27, at 6:30pm through Saturday, March 1, at 3:00pm.

Guided poster tours will take place on Friday, February 28, 1:30 - 2:30pm and Saturday, March 1, 2:00 - 3:00pm. Abstracts and tour information can be found on the mobile app or in the Poster Abstract Supplement, available upon request at the registration desk.

Poster abstracts will be published in an online only publication of the *Journal of Clinical Neurophysiology*.

| FRIDAY TOURS   | SATURDAY TOURS  |
|--|---|
| <b>Group A</b> <ul style="list-style-type: none"> <li>• Video-EEG Monitoring for Epilepsy</li> <li>• Epilepsy: Clinical</li> <li>• Epilepsy: Pathophysiology</li> <li>• EEG</li> </ul> | <b>Group B</b> <ul style="list-style-type: none"> <li>• Stereo EEG</li> <li>• Deep Brain and Cortical Stimulation</li> <li>• Digital/Quantitative EEG and Topography</li> <li>• Sleep</li> <li>• Critical Care</li> </ul> |
| <b>Group C</b> <ul style="list-style-type: none"> <li>• EMG/NCV Testing</li> <li>• Peripheral Nerve and Muscle Physiology</li> <li>• Peripheral Neuropathy</li> </ul>                  | <b>Group D</b> <ul style="list-style-type: none"> <li>• Intraoperative Monitoring</li> <li>• Evoked Potentials</li> <li>• Other</li> </ul>  |

## REGISTRATION DESK

Location: Grand Foyer, 3rd Floor

### Hours:

|                       |                  |
|-----------------------|------------------|
| Thursday, February 27 | 6:30am - 5:00pm  |
| Friday, February 28   | 7:00am - 5:00pm  |
| Saturday, March 1     | 7:00am - 5:00pm  |
| Sunday, March 2       | 7:00am - 10:00pm |

## SPEAKER READY ROOM

Location: Grand Ballroom VII - VIII, 3rd Floor

Speakers must upload or revise/edit their PowerPoint presentations in the Speaker Ready Room. Final slides must be uploaded at least two (2) hours prior to the presentation. Presentations may not be uploaded or revised/edited in individual session rooms. Speakers are not permitted to use personal laptops during presentations.

### Hours:

|                       |                 |
|-----------------------|-----------------|
| Thursday, February 27 | 7:00am - 6:30pm |
| Friday, February 28   | 7:00am - 6:00pm |
| Saturday, March 1     | 7:00am - 6:30pm |
| Sunday, March 2       | 7:00 - 10:00am  |

# GENERAL MEETING INFORMATION

## POLICIES

### Photography and Recording Policy

Photography, video or audio recording (including screen capture) of these courses, materials, speaker likenesses or ACNS graphics without written permission from ACNS is strictly prohibited. Please note that photographs and video taken by or on behalf of ACNS shall be property of ACNS.

### Smoking Policy

Smoking is not permitted during any Annual Meeting & Courses activity or event.

### Cell Phone Protocol

Please ensure that cell phone ringers, pagers and electronic devices are silenced or turned off during all sessions.

## MEETING CONDUCT, SAFETY, AND 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 abide by the ACNS Meeting Safety & Responsibility Policy. This Policy applies to all ACNS meeting-related events, online and in-person, 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](mailto:mhille@acns.org)) so that appropriate action may be taken.

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.

# Make the Most of Your Conference Experience with the **ACNS 2025 Annual Meeting & Courses Mobile App!**

Take Notes | Create & Share Schedules | Personal Summary | Social Features

## 1. Download the eventScribe App



Scan the QR Code or go to the Apple App Store or Google Play and search for eventScribe.



App Icon



Event Icon

Install and open the app. Find your event icon in the Upcoming Events (bottom row) or search for **ACNS**.

Tap the event icon to launch your event's app.

## 2. Login to the App

If you already have an account, login with your Username (email) and password (access key) otherwise create an account.

Use **Event Code ACNS2025** to enter the app.



## 3. App Tips

**Download** the app before you go! Wi-Fi connection on-site can affect the functionality of the app.

**Browse** the event information and create a personal schedule by tapping on the star next to presentation titles.



# BALTIMORE MARRIOTT WATERFRONT FLOOR PLANS

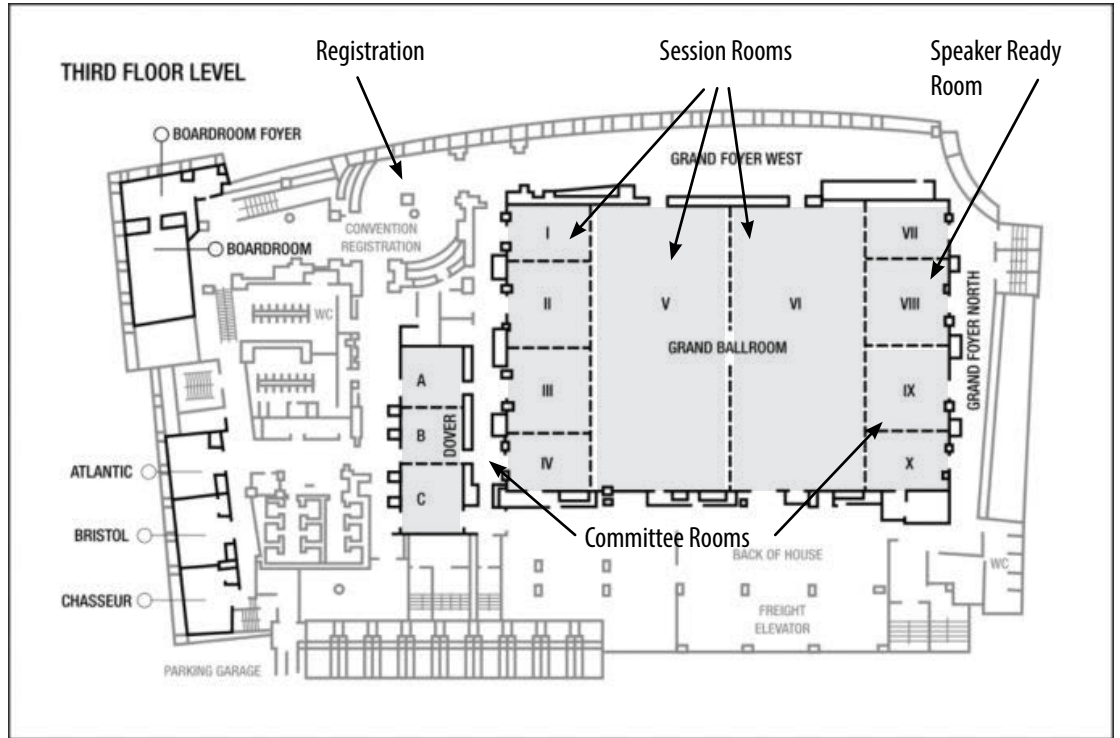
## THIRD FLOOR

General Session & Session Room:  
Grand Ballroom VI

Session Rooms:  
Grand Ballroom I - IV, V, VI

Speaker Ready Room:  
Grand Ballroom VIII

Committee Room:  
Grand Ballroom IX-X, Dover

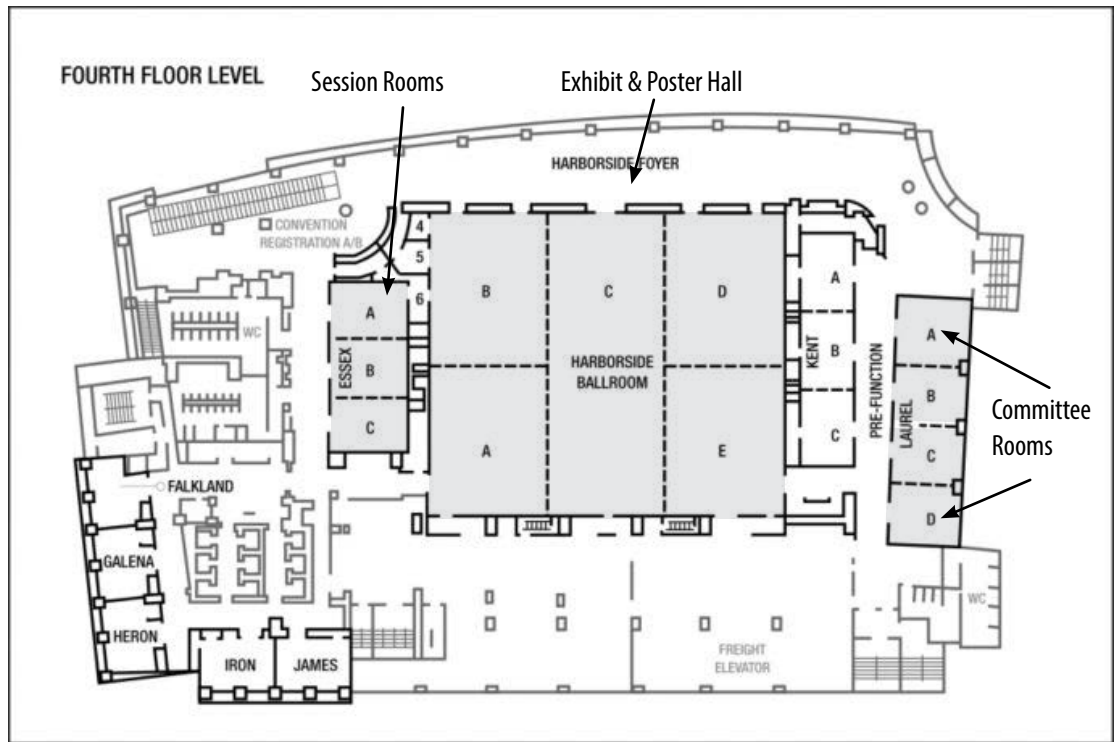


## FOURTH FLOOR

Exhibit & Poster Hall:  
Harborside Ballroom

Session Room:  
Essex A-C

Committee Rooms:  
Laurel AB and Laurel CD



# CONTINUING MEDICAL EDUCATION (CME) INFORMATION

## MEETING DESCRIPTION

The ACNS Annual Meeting & Courses are designed to provide a solid review of the fundamentals and the latest scientific advances in both “central” and “peripheral” clinical neurophysiology. Presentations at the Annual Meeting & Courses are given by leading experts in the field and have value for health care professionals who utilize clinical neurophysiology. Sessions include symposia, workshops and courses featuring didactic lectures, expert panels, debates and interactive formats. Poster presentations at the Annual Meeting highlight the latest work conducted at clinical neurophysiology centers around the country.

## 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 neurophysiological techniques and knowledge in the diagnosis and management of patients with disorders of the nervous system.

## LEARNING OBJECTIVES

At the end of the Annual Meeting & Courses, participants will be able to:

- Describe the indications for use of clinical neurophysiology techniques in diagnosis of disorders of the nervous system;
- Incorporate new neurophysiology procedures and technological advances into his/her own clinical practice; and
- Perform and interpret a broad range of clinical neurophysiology procedures, and integrate the results of these tests into comprehensive patient management plans;
- Discuss recent advances in electroencephalography, evoked potentials, ALS, magnetoencephalography, practice technologies, nerve conduction studies and other clinical neurophysiology techniques; and
- Apply advances in clinical neurophysiology techniques to improve the diagnosis of neurologic disorders.

## ACCREDITATION STATEMENT

ACNS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## CREDIT DESIGNATION

ACNS designates the Annual Meeting & Courses for a maximum 28 *AMA PRA Category I Credit(s)*<sup>™</sup>. Physicians should claim only credit commensurate with the extent of their participation in the activity.

## ASET CEUS

ASET - The Neurodiagnostic Society has granted ASET Continuing Education Units [ASET CEUs] for this program. Such crediting, however, should not be construed by program participants as an endorsement of any type of instruments or supplies mentioned or involved in these presentations.

The courses have been approved for 28 ASET-CEUs total.

To claim ASET-CEUs, please be sure to sign in at the registration desk with your ASET ID number each day.

## EDUCATION MISSION STATEMENT

### Purpose

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.

### Content

ACNS is committed to providing continuing medical education to its members and others interested in clinical neurophysiology. Educational objectives include 1) Reviewing current knowledge of clinical neurophysiology including: electroencephalography, evoked potentials, electromyography, nerve conduction studies, intraoperative monitoring, polysomnography and other sleep technology, quantitative neurophysiological methods, magnetoencephalography, sleep disorders, epilepsy, neuromuscular disorders, brain stimulation, brain-computer interfacing, and related areas; and 2) Informing course and meeting attendees of recent technological developments and their implications for clinical practice.

### 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 neurophysiological techniques and knowledge in the diagnosis and management of patients with disorders of the nervous system.

### Expected Result

Attendees will improve competence in clinical neurophysiology procedures and incorporate new technological advancements into their practice.

### Gaps and Needs

In compliance with the Updated Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME), the Continuing Medical Education Committee of the ACNS has identified “professional practice gaps.”

Definition: A “professional practice gap” is the difference between what a health professional is doing or accomplishing compared to what is achievable on the basis of current professional knowledge.

The following professional practice gaps and educational needs were identified by a combined effort of the Program, Course and CME Committees.

### Gap 1. Emerging Areas of Practice

Several emerging areas of clinical neurophysiology have significant practice gaps in which the opportunities for training and mentoring fall short of the need for experienced and trained neurologists. Intraoperative monitoring, intensive care unit EEG monitoring, Video and Quantitative EEG and invasive evaluation for epilepsy surgery with Stereo EEG are growing areas of clinical neurophysiology with few practicing neurologists having adequate training in these techniques. Adult and pediatric physicians as well as neurodiagnostic technologists with competence in these areas are in great demand. Without additional specialized training, neurologists will not be competent to conduct these types of monitoring.

# CONTINUING MEDICAL EDUCATION (CME) INFORMATION

## Gap 2. General Practice of Clinical Neurophysiology

Clinical neurophysiology procedures are performed by a large proportion of practicing US neurologists, many of whom have little or no formal training in clinical neurophysiology. Many clinical neurophysiology procedures (e.g. evoked potentials, invasive EEG, advanced EMG procedures) are performed at low volume at many centers and a forum for review and hands-on interpretation are essential to improve and maintain competence in these areas. Several specific topics with significant gaps between current practice and ideal practice have been identified via review of the literature, review of clinical neurophysiology fellowship curricula, and surveys of ACNS members and Annual Meeting attendees.

These include:

- Peripheral neurophysiology, Pediatric EMG, critical illness related neurophysiology, and muscle ultrasound
- Basic EEG: Identification of normal variants, identification of artifacts, clinical correlation
- Pediatric EEG, especially neonatal EEG
- Digital EEG processing, e.g. quantitative EEG and trends for use in the intensive care unit, source localization, coregistration with neuroimaging, etc.
- Full band EEG, Ultrafast and ultraslow EEG
- NIOM: Motor evoked potentials, guidelines and standards of care for NIOM (e.g. indications, cost effectiveness)
- Evoked potentials: Current role of short- and long-latency EPs
- Video-EEG monitoring, especially invasive EEG
- Sleep, Use of new scoring system, implications for patient care

## CHANGES IN BEHAVIOR/PRACTICE

It is intended that, as a result of attending the meeting and/ or courses, physician attendees will be able to identify changes in competence or performance that are desirable. Definitions: "Competence" is knowing how to do something. "Performance" is what the physician would do in practice, if given the opportunity.

## EVALUATION

The updated ACCME accreditation criteria are designed to integrate with the new requirements for maintenance of certification (for more information see [www.ABPN.org](http://www.ABPN.org)). Physicians are expected to perform self-assessments of their practice, but the ACNS, as an organization accredited by the ACCME, is expected to measure how its educational activities assist physicians in this activity. Thus, there are new questions in the evaluation form. These questions address your intended changes in competence or performance. In a few months, we will contact all physician meeting attendees to ask you if you actually HAVE experienced changes in competence or performance. Your responses, now and in the future, will assist us and ultimately you in determining educational activities that are most useful to you.

## CONTINUING MEDICAL EDUCATION (CME) INFORMATION

### 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 financial relationships with any ineligible company. Should it be determined that a relevant financial relationship exists, planners 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 relevant financial relationship 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 relationships or the inability to mitigate an identified relevant financial relationship 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. To request additional information, contact the ACNS Executive office at [info@acns.org](mailto:info@acns.org).

| Full Name                                    | Role                       | Financial Disclosures  |
|--|----------------------------|--|
| Nicholas S. Abend, MD, MSCE, FACNS           | Planner                    | UCB Pharma (a)   |
| Jayant N. Acharya, MD, DM, FACNS, FAES, FAAN | Planner                    | No Relationships   |
| Pegah Afra, MD, FACNS                        | Planner, Speaker, Reviewer | Stratstim (a); Xenon pharmaceuticals (a)   |
| Shruti Agashe, MD, MS-BME                    | Planner, Speaker           | Blackrock Neurotech (b)  |
| Halley B. Alexander, MD, MS, FACNS           | Planner                    | No Relationships   |
| Mohamed Ali, MD                              | Speaker                    | No Relationships   |
| Sasha Alick-Lindstrom, MD, FACNS, FAES, FAAN | Planner                    | No Relationships   |
| Kapil Arya, MBBS, FAAP, FANA, FACNS          | Reviewer, Planner          | Genentech (e); Novartis Pharmaceuticals (e)  |
| Ravindra Arya, MD, DM, FACNS                 | Speaker                    | No Relationships   |
| Melissa Asmar, MD                            | Reviewer                   | No Relationships   |
| Thandar Aung, MD, MS                         | Speaker                    | No Relationships   |
| Anto I. Bagic, MD, PhD, FAES, FACNS          | Speaker                    | No Relationships   |
| Selim R. Benbadis, MD, FAAN, FACNS, FAES     | Speaker                    | Catalyst (a, b, d, e); Jazz (a, b, d, e); LivaNova (a, b, d, e); Neurelis (a, b, e); SK Life Science (a, b, e); UCB (a, b, d, e); Stratus (Alliance) (b, d, e); Synergy Medical Solutions (b, d) |
| Meriem Bensalem-Owen, MD, FACNS              | Speaker, Planner           | NeuroPace (a); UCB (a); Xenon Pharmaceuticals (a)  |
| Adriana Bermeo-Ovalle, MD, FACNS, FAES       | Planner, Speaker, Reviewer | No Relationships   |
| Oscar Bernal-Pacheco, MD                     | Speaker, Planner           | Medtronic Inc (b)  |
| Thomas P. Bleck, MD, FACNS, MCCM             | Speaker                    | Acasti Pharma (e); Ceribell Corporation (b, c); iECURE (e); Marinus Pharmaceuticals (g)  |
| William J. Bosl, PhD, FACNS, FAMIA           | Planner                    | No Relationships   |
| Susan Bowyer, PhD                            | Speaker                    | No Relationships   |
| Ionut-Flavius Bratu, MD                      | Speaker                    | No Relationships   |
| Stephen W. Briggs, MD, PhD                   | Planner                    | No Relationships   |
| Benjamin H. Brinkmann, PhD, FACNS            | Speaker                    | No Relationships   |
| María J. Bruzzone Giraldez, MD, MSCR, FACNS  | Speaker, Planner           | No Relationships   |
| Katie L. Bullinger, MD, PhD, FACNS           | Planner, Speaker           | Neuropace (a)  |
| Tyon Burghardt, MD                           | Reviewer                   | No Relationships   |
| David B. Burkholder, MD                      | Planner                    | Longboard Pharmaceuticals (a)  |
| Lidia Cabañes-Martínez, MD, FACNS            | Speaker, Planner           | No Relationships   |

a. Grants/Research Support; b. Consultant; c. Stock Shareholder (self-managed); d. Speaker's Bureau; e. Advisory Board; g. Other Financial or Material Support

## CONTINUING MEDICAL EDUCATION (CME) INFORMATION

| Full Name  | Role                       | Financial Disclosures   |
|--|----------------------------|---|
| Clifford Calley, MD                                  | Speaker                    | No Relationships  |
| Maureen P. Carroll, REEG, EPT, RPSGT, CNIM, FASET    | Planner                    | No Relationships  |
| Lauren Cazares                                       | Planner                    | No Relationships  |
| Patrick Y. Chauvel, MD                               | Speaker                    | No Relationships  |
| Michelle Y. Chiu, MD, FRCPC                          | Planner                    | Ceribell, Inc. (b); Medtronic (c); Neuropace (c)  |
| Robert R. Clancy, MD                                 | Planner, Speaker           | No Relationships  |
| Erin Conrad, MD                                      | Speaker                    | DEXCOM INC (c); Epiminder (b); Eli Lilly, Co (c); Merck, Inc. (c); Nevro Corp (c); Roche HLDG (c); Sanofi © |
| Benjamin Cox, MD                                     | Speaker                    | No Relationships  |
| Amy Z. Crepeau, MD, FACNS                            | Planner                    | No Relationships  |
| Arthur Cukiert, MD, PhD                              | Speaker                    | No Relationships  |
| George W. Culler, IV, MD                             | Speaker                    | No Relationships  |
| Elliot Dimberg, MD, FAAN, FACNS                      | Planner                    | No Relationships  |
| Daniel L. Drane, PhD                                 | Speaker                    | No Relationships  |
| Frank W. Drislane, MD, FACNS                         | Speaker, Planner           | No Relationships  |
| Shawn Egan, PhD                                      | Speaker                    | No Relationships  |
| Hanan M. El Shakankiry, MD, PhD                      | Reviewer                   | No Relationships  |
| Dominic Fee, MD                                      | Reviewer                   | No Relationships  |
| Victor Ferastraoaru, MD, FACNS                       | Planner                    | No Relationships  |
| Victoria Fernández, MD, PhD, FACNS                   | Planner, Speaker           | No Relationships  |
| Derek Fisk, MD, BSc, BSc (Med)                       | Speaker                    | No Relationships  |
| Stephen Foldes, PhD                                  | Planner, Speaker           | No Relationships  |
| Nancy Foldvary-Schaefer, DO, MS                      | Speaker                    | Harmony Biosciences (a); Jazz Pharmaceuticals (a, e); Suven (a); Takeda Pharmaceuticals (a)                 |
| Neel Fotedar, MD                                     | Planner, Speaker           | No Relationships  |
| Birgit Frauscher, MD, PhD, FACNS                     | Planner, Speaker           | Eisai Canada (a, d, e); Natus Neuroscience (d); Paladin Canada (d, e); UNEEG (e)                            |
| Brin Freund, MD                                      | Planner, Speaker, Reviewer | No Relationships  |
| France W. Fung, MD, MSc, FACNS                       | Speaker, Planner           | No Relationships  |
| Aristea Galanopoulou, MD, PhD                        | Planner                    | No Relationships  |
| Gloria M. Galloway, MD, MBA, FABEM, FACNS            | Planner                    | No Relationships  |
| Naiara Garcia-Losarcos, MD                           | Planner                    | No Relationships  |
| Nicolas Gaspard, MD, PhD, FACNS                      | Speaker                    | Bioserenity (e); UCB (d, e)   |
| Jay R. Gavvala, MD, MSCI, FACNS, FAES                | Speaker                    | No Relationships  |
| Elizabeth E. Gerard, MD, FACNS                       | Planner, Speaker, Reviewer | Eisai Inc. (a); Xenon Pharmaceuticals (a, e)  |
| Georges A. Ghacibeh, MD, MSc, FAAN                   | Speaker                    | No Relationships  |
| Emily J. Gilmore, MD, MS, FACNS, FNCS                | Speaker                    | No Relationships  |
| Ezequiel Gleichgerrcht, MD, PhD                      | Planner, Speaker           | No Relationships  |
| Alica M. Goldman, MD, PhD                            | Speaker                    | Rapport Therapeutics, Inc (a)   |
| Nicholas Gregg, MD                                   | Speaker, Planner           | Medtronic Inc (a); NeuroOne (b)   |
| Madeleine M. Grigg-Damberger, MD, FACNS, FAES, FAASM | Speaker, Director          | Proctor and Gamble (b)  |
| Rejean M. Guerriero, DO, FACNS                       | Reviewer                   | No Relationships  |
| Cecil D. Hahn, MD, MPH, FACNS                        | Planner                    | Holberg EEG (b); Takeda (a, b, e); UCB Biopharma SPRL (a, b)  |

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## CONTINUING MEDICAL EDUCATION (CME) INFORMATION

| Full Name                            | Role                       | Financial Disclosures  |
|--------------------------------------|----------------------------|--|
| Hiba A. Haider, MD, FACNS, FAES      | Planner, Speaker           | No Relationships   |
| Michael R. Halstead, MD              | Planner, Speaker           | No Relationships   |
| Abeer J. Hani, MD                    | Reviewer                   | No Relationships   |
| Aline Herlopian, MD                  | Planner, Speaker           | Medtronic (b); Natus Medical Inc. (d); UCB Pharma (b)  |
| Susan T. Herman, MD, FACNS           | Planner, Speaker           | Bioserenity (b); CREMedical (a); Epilepsy Foundation (a, b, e); Marinus Pharmaceuticals (a.); Neuroelectrics (a); NORSE Institute (a); Zeto EEG (a)  |
| Megan M. Hille, CMP, CAE             | Planner                    | No Relationships   |
| Lawrence J. Hirsch, MD, FACNS        | Speaker, Planner           | Accure (b); Ceribell (b); Gilead (b); Marinus (b); Natus (b, d); Neurelis (b); Neuropace (b, d); Rapport (b); UCB Pharma (b, d)  |
| E. Matthew Hoffman, DO, PhD, FACNS   | Speaker, Planner           | No Relationships   |
| Inna Hughes, MD, PhD                 | Speaker, Planner           | Marinus (a); Neurelis (a); Neurocrine (a)  |
| Christine Hung, MD                   | Speaker                    | No Relationships   |
| Aatif M. Husain, MD, FACNS           | Speaker                    | Eisai Pharmaceuticals (b); Jazz Pharmaceuticals (b, e); Marinus Pharmaceuticals (a, b, e); Merck (b); PranaQ (b); UCB Pharmaceuticals (b); uniQure (e)   |
| Khalil S. Husari, MD                 | Speaker                    | No Relationships   |
| AyatAllah F. Hussein, MD             | Speaker, Planner           | No Relationships   |
| Ann Hyslop, MD, FACNS                | Reviewer, Planner          | Neurelis (e, d)  |
| Akio Ikeda, MD, PhD, FACNS           | Reviewer                   | Daiichi Sankyo Healthcare Co, LTD (d); Eisai Pharmaceuticals (d, g); Eli Lilly (a); Nihon Kohden Corp (a); Ricoh Company Ltd. (a); Sumitomo Pharma (g); UCB Japan Co. (a)  |
| Mohammed Ilyas, MD, FACNS            | Reviewer                   | No Relationships   |
| Nuri Ince, PhD                       | Speaker                    | No Relationships   |
| Monica P. Islam, MD, FACNS           | Reviewer, Planner          | No Relationships   |
| Randa Jarrar, MD                     | Speaker                    | Neuralis (e)   |
| Aditya Joshi, MD                     | Speaker                    | No Relationships   |
| Charuta Joshi, MD, MSCS, MBBS        | Speaker                    | No Relationships   |
| Emma H. Kaplan, MD                   | Speaker                    | No Relationships   |
| Ioannis Karakis, MD, PhD, MSc, FACNS | Speaker, Planner           | Accure (b); Ceribell (b); Eisai (b); Gilead (b); Marinus (b); Neurelis (b); Neuropace (b); Rafa (b); UCB (b); Vial Health (b); Embrace (b); Smartwatch (b); Epitel (b); Neuro-Electrics (b); Sam-E Device Loans (b); GSK (b) |
| Roohi Katyal, MD                     | Speaker                    | No Relationships   |
| Fawad A. Khan, MD, FACNS             | Reviewer                   | Eisai (b); Livanova (b); Marinus Pharmaceuticals (b, a); Natus Medical Inc. (d); SK Life Science (d); Stratus (d); UCB (b)   |
| Ammar Kheder, MD, FACNS              | Planner, Speaker           | No Relationships   |
| Irene Kim, MD                        | Speaker                    | No Relationships   |
| Eliane Kobayashi, MD, PhD            | Reviewer                   | Jazz Pharmaceuticals (e); Paladin Laboratories (a, e); UCB Canada (a)  |
| Erik J. Kobylarz, MD, PhD            | Speaker                    | No Relationships   |
| Vasileios Kokkinos, PhD, FACNS       | Speaker                    | No Relationships   |
| Allison Kostandy, MD                 | Speaker                    | No Relationships   |
| Catherine V. Kulick-Soper, MD        | Reviewer                   | Epitel (b)   |
| Jaime R. López, MD, FACNS            | Planner, Speaker           | Intuitive Surgical (b)   |
| Christopher Lamb, MD                 | Speaker                    | Immunovant, Inc. (a)   |
| Suzette M. LaRoche, MD, FACNS        | Speaker                    | No Relationships   |
| Ruple S. Laughlin, MD, FACNS         | Planner, Speaker, Reviewer | No Relationships   |
| Jong Woo Lee, MD, PhD, FACNS         | Speaker, Reviewer          | SK Life Science (a); Soterya, Inc (e, g)   |
| Leslie H. Lee, MD, FACNS             | Planner                    | No Relationships   |

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## CONTINUING MEDICAL EDUCATION (CME) INFORMATION

| Full Name   | Role                       | Financial Disclosures  |
|---|----------------------------|--|
| Ilana Lefkowitz, MD                               | Speaker                    | No Relationships   |
| Alan D. Legatt, MD, PhD, FACNS                    | Speaker                    | Johnson & Johnson (c); Merck (c); Pfizer (c); Proctor & Gamble (c)   |
| Xiangping Li, MD                                  | Reviewer                   | No Relationships   |
| Anli Liu, MD, MA                                  | Speaker                    | No Relationships   |
| Lynn Liu, MD, MS (HPE), FACNS                     | Reviewer, Planner          | No Relationships   |
| Ran Liu, MD, FRCPC, DABPN, DABSM, CSCN (EEG), MSc | Planner, Speaker           | Eisai (b, d, e); Jazz Pharmaceuticals (d, e); Paladin Laboratories (a, d, e); Sunovion Pharmaceuticals, Inc. (d); Takeda Pharmaceuticals (g) |
| Luisa V. Londono Hurtado, MD                      | Speaker                    | No Relationships   |
| Matthew W. Luedke, MD, FACNS                      | Planner                    | Bright Health (e); Neurona (a); Xenon (a)  |
| Fiona Lynn, NP                                    | Speaker                    | Medtronic (b); SK Life Science (b)   |
| Janette A. Mailo, MD, PhD                         | Speaker                    | No Relationships   |
| Ahmad Marashly, MD                                | Speaker                    | No Relationships   |
| Guillermo Martín-Palomeque, MD, FACNS             | Speaker                    | No Relationships   |
| Laurence Martineau, MD                            | Speaker                    | No Relationships   |
| Carmen Martinez Aparicio, MD, PhD                 | Speaker                    | No Relationships   |
| Janice M. Massey, MD                              | Speaker                    | Alexion Medical Affairs (e); Amgen Pharma (e); Genentech (e); Janssen (e); Kyverna Therapeutics (e); Momenta (e); UCB (e)                    |
| Shavonne Massey, MD, MSCE, FACNS                  | Planner, Speaker           | Sun Pharmaceuticals (b)  |
| Luis Carlos C. Mayor-Romero, MD, FACNS, FAES      | Planner                    | No Relationships   |
| Silvia Mazzali-Verst, MD, PhD                     | Speaker                    | No Relationships   |
| Michael McGarvey, MD, FACNS                       | Speaker, Planner           | Medtronic (b, e)   |
| Jennifer L. McKinney, MD, FACNS                   | Reviewer                   | No Relationships   |
| Daniel L. Menkes, MD, MHSA, FACNS                 | Planner                    | No Relationships   |
| Yara Mikhaeil Demo, MD, FACNS                     | Reviewer                   | No Relationships   |
| Yafa Minazad, DO, FACNS, MMM                      | Speaker                    | No Relationships   |
| Moshe A. Mizrahi, MD, FAAN, FAHA, FACNS           | Reviewer                   | No Relationships   |
| Ismail S. Mohamed, MD, FAES, FACNS                | Planner, Reviewer, Speaker | Jazz Pharmaceuticals (a); Marinus Pharmaceuticals (a)  |
| Vizmary J. Montes Pena, MD, MS, CNIM, PhD         | Speaker                    | No Relationships   |
| Heidi M Munger Clary, MD, MPH, FACNS              | Planner, Speaker           | Eysz (a)   |
| Iryna Muzyka, MD, FACNS                           | Reviewer                   | No Relationships   |
| Jessica Nance, MD                                 | Speaker                    | No Relationships   |
| Cody L. Nathan, MD                                | Planner                    | No Relationships   |
| Dipali Nemade, MD, MPH                            | Speaker                    | UCB Pharmaceuticals (d)  |
| Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS        | Planner, Reviewer, Speaker | Eisai Canada (a, d); Paladin Canada (e); UCB Canada (d)  |
| Jonathan A. Norton, PhD, FACNS                    | Planner                    | Abbott (b, d)  |
| Ika Noviawaty, MD                                 | Reviewer                   | No Relationships   |
| Cormac A. O' Donovan, MD, FRCPI, FACNS            | Planner                    | Bioserenity (b)  |
| Aoife O'Carroll, MD                               | Planner                    | No Relationships   |
| Joel M. Oster, MD, FACNS                          | Reviewer                   | No Relationships   |
| Christos Papadelis, PhD                           | Speaker                    | No Relationships   |
| Alexandra Parashos, MD                            | Speaker                    | No Relationships   |

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## CONTINUING MEDICAL EDUCATION (CME) INFORMATION

| Full Name                                 | Role                       | Financial Disclosures  |
|---|----------------------------|--|
| Kimberly Pargeon, MD, FACNS, FAES         | Reviewer                   | No Relationships   |
| Prachi Parikh, MD                         | Speaker, Planner           | No Relationships   |
| Jun T. Park, MD, FACNS                    | Planner, Reviewer, Speaker | Catalyst (e); Neurelis (d)   |
| Archana A. Patel, MD, MPH, MSc            | Speaker                    | No Relationships   |
| Neepa Patel, MD                           | Speaker                    | AbbVie Pharmaceuticals (b); Amneal Pharmaceutical (b, e)   |
| Milena Pavlova, MD                        | Planner, Speaker           | No Relationships   |
| Phillip L. Pearl, MD, FACNS               | Planner                    | Boston Health Care/PTC Therapeutics (d)  |
| Nigel P. Pedersen, MBBS, MD               | Speaker                    | No Relationships   |
| Elana Pinchefsky, MD, FACNS               | Planner                    | Medtronic (a)  |
| Samantha Pineda, MD, FACNS                | Speaker                    | No Relationships   |
| Vineet Punia, MD, MS                      | Speaker                    | Catalyst Pharmaceuticals (e); Ovid Therapeutics (e)  |
| Mark S. Quigg, MD, MS, FAES, FANA         | Speaker                    | Natus Medical (b, d)   |
| Ramya Raghupathi, MD                      | Planner                    | No Relationships   |
| Vikram R. Rao, MD, PhD                    | Planner, Speaker           | Neuropace (e)  |
| Chrystal M. Reed, MBBS, MD, PhD, FACNS    | Reviewer                   | No Relationships   |
| Mary Rensel, MD, FAAN, ABIHM              | Speaker                    | Biogen Inc (a, d, e); EMD Serono (b, d); Genentech (d); Novartis Pharmaceuticals (d); Sanofi-Genzyme (d); TG (d) |
| Melissa Rotter, REEGT, CLTM, CAPM         | Planner                    | Weaver and Company (b)   |
| Elayna Rubens, MD, FACNS                  | Planner                    | No Relationships   |
| Devon I. Rubin, MD, FACNS                 | Speaker, Planner           | No Relationships   |
| Clio A. Rubinos, MD, MS, FACNS            | Planner                    | Marinus Pharmaceuticals (b, d)   |
| Maria C. Sam, MD, FACNS                   | Reviewer, Planner          | No Relationships   |
| Sara Schaefer, MD, MHS                    | Speaker                    | No Relationships   |
| Sarah E. Schmitt, MD, FACNS               | Speaker, Reviewer, Planner | No Relationships   |
| Stephan U. Schuele, MD, MPH, FACNS, FAAN  | Speaker, Planner           | Bioserenity (b); Jazz Pharmaceuticals (d, e); Neurelis Pharmaceuticals (d); SK Life Science (d); UCB Pharma (e)  |
| Reiner Henson See, MD                     | Planner, Speaker           | No Relationships   |
| Olga Selioutski, DO, FACNS, FAES, FACN    | Planner                    | No Relationships   |
| Anna Serafini, MD                         | Speaker                    | No Relationships   |
| Vishal Shah, MBBS                         | Planner                    | No Relationships   |
| Asim Shahid, MD                           | Speaker, Planner           | No Relationships   |
| Hussam Shaker, MD                         | Speaker                    | No Relationships   |
| Zubeda B. Sheikh, MD, MSCTS, FACNS        | Speaker, Planner           | No Relationships   |
| Raj D. Sheth, MD, FAAN, FACNS             | Planner                    | No Relationships   |
| Jay L. Shils, PhD, DABNM, FASNM, FACNS    | Speaker                    | Inomed Co, Germany (b, e); Nervio, Inc. (b, e)   |
| Justin W. Silverstein, DHSc, FASNM, FASET | Planner, Speaker           | No Relationships   |
| Mirela V. Simon, MD, MSc, FACNS           | Speaker, Planner           | No Relationships   |
| Jaysingh Singh, MD                        | Speaker, Planner           | No Relationships   |
| Rajdeep Singh, MD, MS, FACNS, FAES        | Planner                    | Catalyst (e); Xenon Pharmaceuticals (e)  |
| Saurabh R. Sinha, MD, PhD, FACNS          | Speaker, Planner           | NAMSA (e)  |
| Stanley A. Skinner, MD, FACNS             | Speaker                    | Medtronic Inc: (g)   |
| Hanan Soliman, MD                         | Speaker                    | No Relationships   |
| Yinchen Song, PhD, FAES                   | Planner                    | No Relationships   |
| Travis Stoub, PhD                         | Speaker                    | No Relationships   |

a. Grants/Research Support; b. Consultant; c. Stock Shareholder (self-managed); d. Speaker's Bureau; e. Advisory Board; g. Other Financial or Material Support



## CONTINUING MEDICAL EDUCATION (CME) INFORMATION

| Full Name  | Role                       | Financial Disclosures   |
|--|----------------------------|---|
| Aaron F. Struck, MD, FACNS                             | Speaker                    | Ceribell Corporation (a)  |
| Iffat Ara A. Suchita, MD                               | Planner, Speaker           | No Relationships  |
| Krystal E. Sully, MD, FACNS                            | Planner                    | No Relationships  |
| Fahd Sultan, MD, FACNS                                 | Reviewer, Planner          | No Relationships  |
| William O. Tatum, IV, DO, FACNS                        | Planner, Speaker           | Bioserenity (b); Neurelis (b)   |
| Jeffrey R. Tenney, MD, PhD, FACNS                      | Planner, Speaker           | No Relationships  |
| Ankita Tippur, MD                                      | Speaker                    | No Relationships  |
| Harmanpreet Tiwana, MD                                 | Speaker                    | No Relationships  |
| Trenton Tollefson, MD, FACNS                           | Planner, Speaker           | Cerevel Therapeutics (a); Marinus Pharmaceuticals (a); Neuroelectrics (a)             |
| Stuart R. Tomko, MD                                    | Speaker                    | No Relationships  |
| Sedat Ulkatan, MD                                      | Speaker                    | No Relationships  |
| Magdalena Warzecha, BS, R.EEG/EP, CLTM, NA-CLTM, FASET | Planner                    | No Relationships  |
| Matthew H. Wong, MD                                    | Speaker                    | IntraNerve Neuroscience (g)   |
| Lily C. Wong-Kisiel,, MD, FACNS                        | Speaker                    | No Relationships  |
| Sarah E. Woodson Smith, MD                             | Speaker                    | No Relationships  |
| Gregory Worrell, MD, PhD                               | Speaker                    | NeuroOne Inc (a, c, e, g)   |
| Courtney J. Wusthoff, MD, MS, FACNS                    | Speaker, Planner, Reviewer | Medicure (a)  |
| JoJo Yang, MD  | Planner                    | No Relationships  |
| Angela Young, MD                                       | Speaker                    | No Relationships  |
| Julie L. Youssefi, MD                                  | Planner                    | No Relationships  |
| Sahar F. Zafar, MD                                     | Speaker                    |   |
| Alejandro Zavala, MD, FACNS                            | Planner, Speaker           | No Relationships  |
| Andrew J. Zillgitt, DO, FACNS, FAES                    | Reviewer                   | Catalyst (d, e); Eisai (d); Jazz Pharmaceuticals (d); SK Life Science (d); UCB (d, e) |
| David M. Zimmerman, BS, CNIM                           | Speaker                    | No Relationships  |
| Deepti Zutshi, MD, FAAN, FAES                          | Planner                    | UCB (a); Xenon Pharmaceuticals (b)  |

a. Grants/Research Support; b. Consultant; c. Stock Shareholder (self-managed); d. Speaker's Bureau; e. Advisory Board; g. Other Financial or Material Support  
All financial relationships have been reviewed for relevance to the topic of the educational content. All relevant financial relationships have been mitigated according to ACNS policy including peer-review of slides and limitation of planner or speaker influence on content where applicable.

### CME & CERTIFICATE OF ATTENDANCE INSTRUCTIONS



**Pre-Registered Delegates** may access and complete evaluations at the end of each meeting day and may claim certificates **upon the close of the meeting on March 2, 2025**. Scan the QR code above to access the website, enter your last name and the ACNS ID# listed at the top of your Annual Meeting Registration confirmation form and in the bottom left corner of your event badge. The system will then ask you to indicate which sessions you attended, to complete evaluation forms for each session, and will generate a PDF certificate which may be printed or saved to your computer. Session attendance and evaluation information is retained, and certificates may be accessed again, in the event the certificate is lost or another copy is required.

**Delegates registering onsite in Baltimore** may access evaluations and certificates **after March 12, 2025**. Delegates registering onsite will receive an email with instructions when certificates become available.

All delegates are required to complete overall meeting & session evaluations to obtain a CME Certificate or Certificate of Attendance.

# ABPN SELF-ASSESSMENT CME

The American Board of Psychiatry and Neurology has reviewed the ACNS Annual Meeting & Courses and has approved the activity as part of a comprehensive self-assessment (SA) CME activity, which is mandated by the ABMS as a necessary component of continuing certification.

This activity awards up to 25.2 AMA PRA Category I Credit(s)<sup>™</sup>, of which 21 are approved as Self-Assessment CME credits.

To qualify for SA-CME credits, Annual Meeting & Course participants must:

- Be registered for the SA-CME track. There is no additional charge for ACNS members, but a nominal fee applies for non-members. Visit the ACNS Registration Desk if you wish to register for SA-CME credit;
- Attend designated sessions. Sessions for which SA-CME are offered are denoted in the Final Program, Mobile App and room signage with an SA symbol;
- Complete self-assessment questions presented at the end of designated sessions. Each SA-designated session will include five (5) SA questions, and a participant must answer a minimum of 25 questions to qualify for SA-CME credits.

Credits are calculated by clock hour, so a 90-minute session is worth 1.5 credits. The minimum number of SA sessions one must attend to qualify is five (5), totaling 7.5 credits. The program would allow a participant to choose up to 13 SA-designated sessions for a total of up to 21 SA-CME credits.

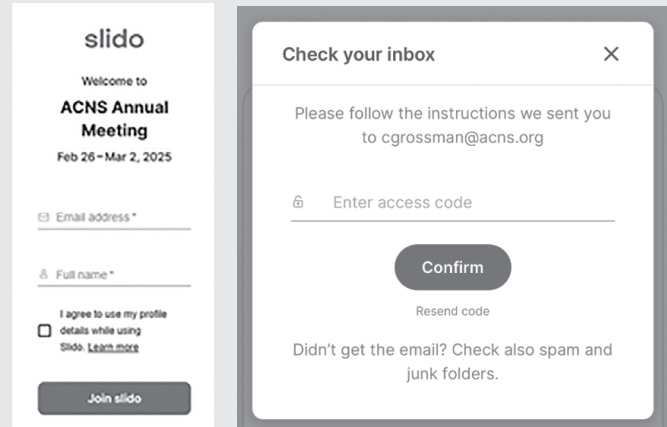
Participants are responsible for tracking the number of designated sessions they attend, the number of questions they answer, and ensuring that they qualify to receive credit.

## ONSITE PARTICIPATION – DOWNLOAD SLIDO



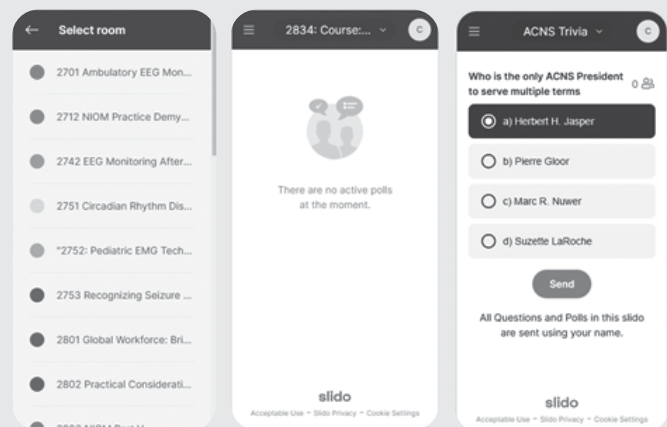
- SA-CME designated sessions will utilize Slido audience response software to facilitate the SA-CME questions at the end of the session. Participants in the SA-CME track should:
- Download the Slido app from a mobile devices app store by scanning the QR code below; or open a web browser on their laptops to <https://app.sli.do/> and entering the access code # 4149189803
- Create a Slido account using their full names and the same email address used to register for the ACNS Annual Meeting. A pop-up message may direct users to their email inboxes or ask for an additional code

Participants using an existing Slido account tied to a different email address should notify ACNS at [info@acns.org](mailto:info@acns.org) to ensure their question activity is tracked appropriately.



## ANSWERING QUESTIONS

- Self-assessment questions will be presented during the discussion portion at the end of designated sessions and may not be accessed or answered prior to or after the session.
- To locate questions for the session, participants should select the correct session in the Slido app, using the four-digit session number and color assigned to the session. The session number can be found in the Final Program, on signage outside the session and both the number and color will be displayed by the session director before the first question is displayed;



- Questions may be answered only when they are displayed on the session room screen by the session director/moderator. Be sure to click the “Send” button at the bottom of the screen to officially lock in your answer.

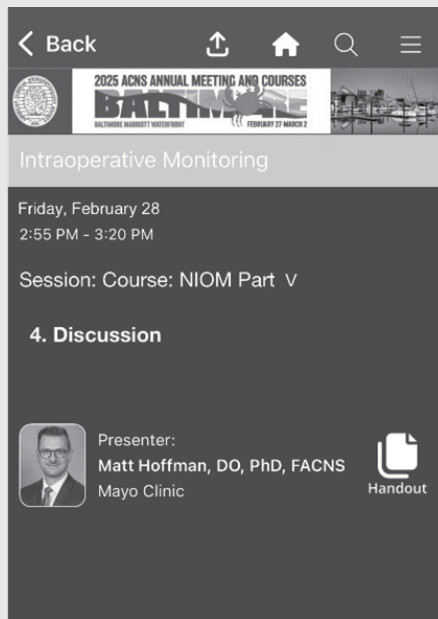
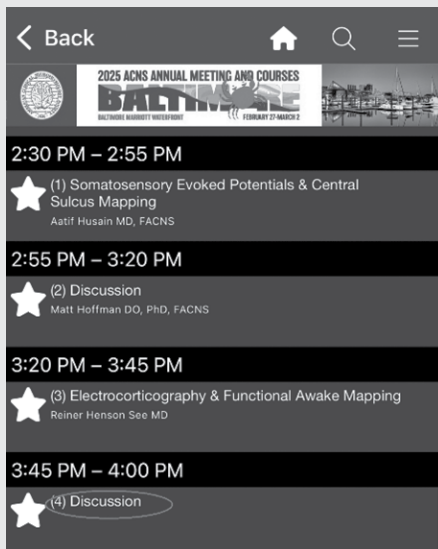
# ABPN SELF-ASSESSMENT CME

## REFERENCES

ABPN requires that SA-CME participants be provided with the correct answers to SA questions, comparative peer performance, and recommended literature resources.

Session Directors will display correct answers and comparative peer performance information in real-time, while recommended literature resources will be added to the app following the completion of the session. The references will be provided in handouts to participants through Annual Meeting & Courses mobile app at the end of each day.

Participants may download references from the “Discussion” section of the session entry in the mobile app (denoted by the handout symbol).



## CREDIT REPORTING TO ABPN

Following the meeting, ACNS will provide a report to ABPN, including the names of all participants who qualify for SA-CME credit and the number of credit hours earned. In order to be included in the report to ABPN, participants must:

1. Be registered for the SA-CME track;
2. Answer at least 25 questions throughout the Annual Meeting & Courses.

Meeting attendees who wish to participate in the ARS portion of the session, but who do not need SA-CME credit are welcome to answer questions but do not need to be registered.

ACNS will not refund SA-CME fees if a participant fails to answer enough questions to qualify for credit.

## SUPPORT ACKNOWLEDGEMENT

ACNS gratefully acknowledges the following companies for their support of the 2025 Annual Meeting & Courses:

### **Cadwell Industries**

In-kind support of the "Approach to Brachial Plexopathy in the EMG Laboratory: A Hands-On Nerve Conduction Study Workshop"

### **Livanova**

In-kind support of the "Neuromodulation in Epilepsy – Hands-On Course"

### **Medtronic**

In-kind support of the "Neuromodulation in Epilepsy – Hands-On Course"

### **Natus Neurology**

Unrestricted educational grant in support of the "Course: ICU EEG Monitoring Part V"

### **Neuropace**

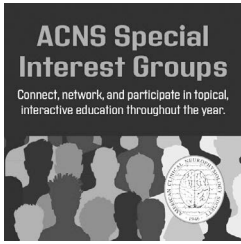
In-kind support of the "Neuromodulation in Epilepsy – Hands-On Course"

### **Neurotech, LLC**

Unrestricted educational grant

## SOCIAL & NETWORKING EVENTS

### SPECIAL INTEREST GROUP (SIG) MEET-UPS



**Thursday, February 27, 2025**

**2:15 - 3:15pm**

ICU EEG - Grand Ballroom V, 3rd floor

Business of CNP - Grand Ballroom I - IV, 3rd floor

**Friday, February 28, 2025**

**7:00 - 8:00am**

NIOM - Grand Ballroom VI, 3rd floor

Stereo EEG - Grand Ballroom V, 3rd floor

### WELCOME RECEPTION

**Thursday, February 27, 2025**

**6:30 – 8:00pm**

**Location: Exhibit & Poster Hall, Harborside Ballroom, 4th Floor**

ACNS invites all delegates for live music, drinks and hors d'oeuvres at the Welcome Reception in the Exhibit Hall on Thursday, February 27.

### THE CLINICAL NEUROPHYSIOLOGY OF NEUROGASTRONOMY: BON APPÉTIT!

**Friday, February 28, 2025**

**6:00 – 7:30pm**

**Location: Dover, 3rd Floor**

Join ACNS President Dr. Meriem Bensalem-Owen and a panel of experts who will guide participants through a fascinating discussion on the link between the brain, sensory perception, and the art of cuisine. Panelists include:

**Dr. Siddharth Kapoor, MD**, Regional Chief for Epilepsy at Hackensack Meridian Neuroscience Institute at JFK University Medical Center and founding member of the International Society of Neurogastronomy

**Chef Mila Chavez**, Executive Chef at the Baltimore Marriott Waterfront

**Chef Trevor Morones**, Culinary-trained expert butcher and President & Chief Quality Officer Control Point

While learning about this captivating topic, participants will savor a curated tapas menu crafted by Chef Mila Chavez from locally sourced, sustainable ingredients, perfectly capturing the vibrant flavors of Baltimore! Don't miss this fun opportunity to mingle with colleagues and fellow foodies!

A limited number of tickets are available for purchase at the registration desk. Tickets include 6 tapas and 2 drink tickets.

\$50 per physician

\$25 per trainee

### INTERNATIONAL ATTENDEE BREAKFAST

**Sunday, March 2, 2025**

**7:00 - 8:00am**

**Location: Grand Ballroom Foyer, 3rd Floor**

All International meeting attendees are invited to join the ACNS leadership for breakfast and networking in the Grand Ballroom Foyer.

### AFFILIATE GROUP FUNCTIONS

#### ABCN BOARD MEETING

**Thursday, February 27, 2025**

**7:00 - 8:00am**

**Location: Laurel CD**

#### NEUROPHYSIOLOGIC INTRAOPERATIVE MONITORING RESEARCH CONSORTIUM (NIOMRC) MEETING

**Saturday, March 1, 2025**

**1:45 - 3:00pm**

**Location: Grand Ballroom IX - X**

#### CCEMRC MEETING

**Saturday, March 1, 2025**

**7:30 - 9:00pm**

**Location: Grand Ballroom IX - X**



**2025 ACNS ANNUAL MEETING AND COURSES**  
**BALTIMORE**  
BALTIMORE MARRIOTT WATERFRONT FEBRUARY 27-MARCH 2

**RACE TO BALTIMORE!**

Support your favorite "crabby" participant by donating to the ACNS Strategic Fund in their name! Every dollar you donate counts as a vote for a race participant.



The individual who receives the highest total votes (dollars donated) will win the race and will appear at the Welcome Reception in a full crab costume!

## AWARD RECIPIENTS AND LECTURES

### HERBERT H. JASPER AWARD



**Patrick Y. Chauvel, MD**  
“Gamma Frequency Resonance at Seizure Initiation:  
Pathophysiology and Functional Impact”  
Thursday, February 27, 2025

The Herbert H. Jasper Award is presented annually to an individual who has made a lifetime of outstanding contributions to the field of clinical neurophysiology. Dr.

Chauvel’s lecture will explore current understandings of the mechanism of seizure onset and how neural mass modeling has proven to be as an essential bridge between the macro/mesoscopic scale of SEEG and the microscopic scale of cellular neurophysiology.

### ROBERT S. SCHWAB AWARD



**Janice Massey, MD**  
“Electrophysiologic Patterns of Denervation”  
Thursday, February 27, 2025

Janice Massey, MD, recipient of the 2025 Schwab Award for her outstanding contributions to peripheral clinical neurophysiology research and for pioneering EMG-guided chemodenervation, including phenol injections for chemodenervation.

### PIERRE GLOOR AWARD PRESENTATION & LECTURE



**Lawrence J. Hirsch, MD, FACNS**  
“Reminiscences and Lessons Learned from 30 Years  
of the Modern EEG Renaissance”  
Saturday, March 1, 2025

The Pierre Gloor Award is presented annually for outstanding current contributions to clinical neurophysiology research. Dr. Hirsch’s lecture will focus

on the rising importance of EEG in clinical care in the past couple decades. This includes the recognition of a high prevalence of nonconvulsive seizures and related EEG patterns, as well as the detection of non-seizure events such as ischemia, elevated intracranial pressure, covert consciousness and more. Combined with new devices and new AI-based algorithms, EEG is being used more often, earlier, and more effectively to prevent brain injury and improve brain health

### MARC R. NUWER SERVICE AWARD PRESENTATION



**William O. Tatum IV, DO, FACNS**  
Friday, February 28, 2025

The Marc R. Nuwer Service Award is presented annually to an individual in recognition of outstanding service to ACNS and its members, including non-scientific contributions. Dr. Tatum will be recognized during the Annual Business Meeting.

### ACNS DISTINCTION IN TEACHING AWARD



**Daniel J. Weber, DO, FAES, FACNS**  
Friday, February 28, 2025

The Distinction in Teaching Award was created to recognize a mid-career ACNS member for outstanding accomplishments in teaching clinical neurophysiology to fellows, residents, medical students, or EEG technologists. Dr. Weber will be recognized during the Annual Business Meeting.

### ACNS DISTINCTION IN SERVICE AWARD



**Marcus C. Ng, MD, FRCPC, CSCN, FACNS**  
Friday, February 28, 2025

The Distinction in Service Award was created to recognize a mid-career ACNS member who has demonstrated outstanding service to the field of clinical neurophysiology at the institutional or national level. Dr. Ng will be recognized during the Annual Business Meeting.

### PRESIDENTIAL ADDRESS



**Meriem Bensalem-Owen, MD, FACNS**  
“The EEG’s Ripple Effect on Society and Culture”  
Friday, February 28, 2025

As we celebrate the 100th anniversary of the EEG, we are presented with a unique opportunity to reflect on how this pioneering tool in clinical neurophysiology has significantly advanced our understanding of the brain and spurred technological innovations. Originally viewed primarily as a diagnostic tool, the EEG has had a profound impact on society beyond its medical applications. As neurotechnology continues to evolve, a range of ethical and societal questions has emerged, which will also be explored in this presentation.



### NEUROPHYS BOWL

Saturday, March 1, 2025  
12:10 – 1:25pm

It’s back! Challenge your knowledge of clinical neurophysiology in a game-show style competition.

# SCHEDULE AT A GLANCE

| THURSDAY, FEBRUARY 27, 2025 |  | LOCATION  |
|-----------------------------|--|---|
| 7:00 - 8:30am               | <b>Breakfast</b>   | Grand Foyer, 3rd Floor  |
| 8:00 - 9:30am               | <b>2701: Course: Ambulatory EEG Monitoring</b><br>Course Directors: <i>Aline Herlopian, MD and William O. Tatum IV, DO, FACNS, DO</i>  | Grand Ballroom I - IV, 3rd Floor                                |
|                             | <b>2702: Burnout in Clinical Neurophysiology: Current State and the Way Forward</b><br>Session Directors: <i>Cormac A. O'Donovan, MD, FRCPI, FACNS and Hiba A. Haider, MD, FACNS, FAES</i>                                   | Essex A - C, 4th Floor  |
| 8:00 - 11:15am              | <b>2703: Course: ICU EEG Monitoring - Part V</b><br>Course Directors: <i>Frank W. Drislane, MD, FACNS and Zubeda Sheikh, MD, MSCTS, FACNS</i>  | Grand Ballroom V, 3rd Floor                                     |
| 9:30 - 9:45am               | <b>Coffee Break</b>  | Grand Foyer, 3rd Floor  |
| 9:45 - 11:15am              | <b>2711: Defining the Epileptogenic Zone using Quantification of the Stereo-<br/>Electroencephalography Signal</b><br>Session Directors: <i>Jaysingh Singh, MD and Birgit Frauscher, MD, PhD, FACNS</i>                      | Grand Ballroom I - IV, 3rd Floor                                |
|                             | <b>2712: NIOM Practice Demystified: Contracts, Salaries, Billing, and Practice Models</b><br>Session Directors: <i>Reiner Henson See, MD and Pegah Afra, MD, FACNS</i>   | Essex A - C, 4th Floor  |
| 11:20am - 12:45pm           | <b>2721: General Session: Jasper Award Presentation &amp; Lecture   Schwab Award Presentation &amp; Lecture</b>  | Grand Ballroom VI, 3rd Floor                                    |
| 12:45 - 2:15pm              | <b>Lunch</b>   | Grand Foyer, 3rd Floor  |
| 1:00 - 2:00pm               | <b>2731: Diversity, Equity, and Inclusion (DEI) Roundtable</b><br>Session Directors: <i>Gloria M. Galloway, MD, MBA, FACNS and Jaime R. López, MD, FACNS</i>   | Essex A - C, 4th Floor  |
| 2:15 - 3:15pm               | <b>Special Interest Group (SIG) Meet-Ups</b><br>ICU EEG<br>Business of CNP   | Grand Ballroom V, 3rd Floor<br>Grand Ballroom I - IV, 3rd Floor |
|                             |  | <b>NON CME</b>  |
| 3:15 - 4:45pm               | <b>2741: The Spectrum of Career Options in Clinical Neurophysiology: From Traditional &amp; Academic to Remote</b><br>Session Directors: <i>Heidi Munger Clary, MD, MPH, FACNS and Pegah Afra, MD, FACNS</i>                 | Essex A - C, 4th Floor  |
|                             | <b>2742: EEG Monitoring After Newborn Heart Surgery</b><br>Session Director: <i>Robert Clancy, MD</i>  | Grand Ballroom I - IV, 3rd Floor                                |
|                             | <b>2743: Course: Extraoperative Neurostimulation and Mapping</b><br>Course Director: <i>Iffat Ara Suchita, MD</i>  | Grand Ballroom VI, 3rd Floor                                    |
| 3:15 - 6:30pm               | <b>2744: Course: ICU EEG Monitoring - Part VI</b><br>Course Directors: <i>Frank W. Drislane, MD, FACNS and Zubeda Sheikh, MD, MSCTS, FACNS</i>   | Grand Ballroom V, 3rd Floor                                     |
| 4:45 - 5:00pm               | <b>Coffee Break</b>  | Grand Foyer, 3rd Floor  |
| 5:00 - 6:30pm               | <b>2751: Circadian Rhythm Disorders, Orthosomnia, and Wearables for Sleep</b><br>Session Directors: <i>Ran Liu, MD, FRCPC, DABPN, DABSM, CSCN (EEG), MSc and Milena Pavlova, MD</i>  | Grand Ballroom I - IV, 3rd Floor                                |
|                             | <b>2752: Pediatric EMG Technical Considerations and Clinical Applications (ACNS/Egyptian Society of Neurology, Psychiatry and Neurosurgery (ESNPN Joint Symposium))</b><br>Session Director: <i>AyatAllah F. Hussein, MD</i> | Essex A - C, 4th Floor  |
|                             | <b>2753: Course: Recognizing Seizure Semiology from Ictal Scalp EEG Analysis: A Sherlock Holmes' Approach</b><br>Course Director: <i>Neel Fotedar, MD</i>  | Grand Ballroom VI, 3rd Floor                                    |
| 6:30 - 8:00pm               | <b>Welcome Reception</b>   | Exhibit & Poster Hall,<br>Harborside Ballroom, 4th Floor        |

## SCHEDULE AT A GLANCE

| FRIDAY, FEBRUARY 28, 2025 |  | LOCATION  |
|---------------------------|--|---|
| 7:00 - 8:30am             | <b>Breakfast</b>   | Grand Foyer, 3rd Floor                                      |
| 7:00 - 8:00am             | <b>Special Interest Group (SIG) Meet-Ups</b><br>NIOM<br>Stereo EEG   | Grand Ballroom VI, 3rd Floor<br>Grand Ballroom V, 3rd Floor |
| 8:00 - 9:30am             | <b>2801: Global Workforce: Bridging the Gap in Epilepsy</b><br>Session Directors: <i>Aline Herlopian, MD and Clio Rubinos, MD, MS, FACNS</i>   | Grand Ballroom I - IV, 3rd Floor                            |
|                           | <b>2802: Practical Considerations in MEG Recording and Analysis in Infants and Children</b><br>Session Directors: <i>Ismail S. Mohamed, MD, FAES, FACNS and Jeffrey R. Tenney, MD, PhD, FACNS</i>  | Essex A - C, 4th Floor                                      |
| 8:00 - 11:15am            | <b>2803: Course: NIOM - Part V</b><br>Course Directors: <i>E. Matthew Hoffman, DO, PhD, FACNS and Elayna Rubens, MD, FACNS</i>   | Grand Ballroom VI, 3rd Floor                                |
|                           | <b>2804: Course: Stereo EEG - Part V</b><br>Course Directors: <i>David Burkholder, MD and Ramya Raghupathi, MD</i>   | Grand Ballroom V, 3rd Floor                                 |
| 9:30 - 9:45am             | <b>Coffee Break</b>  | Exhibit & Poster Hall,<br>Harborside Ballroom, 4th Floor    |
| 9:45 - 11:15am            | <b>2811: Evolution of Health Care Economy and How it Affects Clinical Neurophysiology: Past, Present and Future</b><br>Session Directors: <i>Pegah Afra, MD and Matthew W. Luedke, MD, FACNS</i>   | Essex A - C, 4th Floor                                      |
|                           | <b>2812: The Status of Clusters: Untangling Status Epilepticus from Clustered Seizures in DEE Across the Lifespan</b><br>Session Directors: <i>Inna Hughes, MD, PhD and Michael R. Halstead, MD</i>  | Grand Ballroom I - IV, 3rd Floor                            |
| 11:30am - 1:00pm          | <b>2821: General Session: Young Investigator Travel Award Presentation   2024 Cosimo-Ajmone Marsan Award Presentation   Presidential Address   Business Meeting</b>  | Grand Ballroom VI, 3rd Floor                                |
| 1:00 - 2:30pm             | <b>Lunch</b>   | Exhibit & Poster Hall,<br>Harborside Ballroom, 4th Floor    |
| 1:15 - 2:15pm             | <b>Product Theaters</b>  | Grand Ballroom IX - X, 3rd Floor<br>Dover, 3rd Floor        |
| 2:30 - 4:00pm             | <b>2831: Clinical Diagnosis of Amyotrophic Lateral Sclerosis: From the Published Consensus Criteria to The EMG Lab (ACNS/Sociedad Española de Neurología Clínica Joint Symposium)</b><br>Session Director: <i>Victoria Fernández, MD, PhD, FACNS</i> | Essex A - C, 4th Floor                                      |
| 2:30 - 5:45pm             | <b>2832: Course: NIOM - Part VI</b><br>Course Directors: <i>E. Matthew Hoffman, DO, PhD, FACNS and Elayna Rubens, MD, FACNS</i>  | Grand Ballroom VI, 3rd Floor                                |
|                           | <b>2833: Course: Stereo EEG - Part VI</b><br>Course Directors: <i>Ramya Raghupathi, MD and David Burkholder, MD</i>  | Grand Ballroom V, 3rd Floor                                 |
|                           | <b>2834: Course: Practical Aspects of Electrical Source Imaging</b><br>Course Directors: <i>Susan T. Herman, MD, FACNS and Stephen Foldes, PhD</i>   | Grand Ballroom I - IV, 3rd Floor                            |
| 4:00 - 4:15pm             | <b>Coffee Break</b>  | Exhibit & Poster Hall,<br>Harborside Foyer, 4th Floor       |
| 4:15 - 5:45pm             | <b>2841: Clinical Neurophysiology Resident and Fellow Symposium</b><br>Session Directors: <i>Katie Bullinger, MD, PhD, FACNS and Trenton Tollefson, MD, FACNS</i>  | Essex A - C, 4th Floor                                      |
| 6:00 - 7:30pm             | <b>The Clinical Neurophysiology of Neurogastronomy: Bon Appétit!</b>   | Dover, 3rd Floor  |



# SCHEDULE AT A GLANCE

| SATURDAY, MARCH 1, 2025 |   | LOCATION  |
|-------------------------|---|---|
| 7:00 - 8:30am           | <b>Breakfast</b>  | Grand Foyer, 3rd Floor                                |
| 8:00 - 9:30am           | <b>3101: Course: Neuromodulation in Epilepsy: Hands-On Course</b><br>Course Directors: <i>Shruti Agashe, MD, MS-BME and Vikram R. Rao, MD, PhD</i>  | Grand Ballroom V, 3rd Floor                           |
|                         | <b>3103: Novel MEG Computational Modelling: From Theory to Clinical Applications</b><br>Session Directors: <i>Ismail S. Mohamed, MD, FAES, FACNS and Jeffrey R. Tenney, MD, PhD, FACNS</i>  | Essex A - C, 4th Floor                                |
| 8:00 - 11:15am          | <b>3104: Course: Neurophysiology of Clinical Spells in the ICU: a Case-Based Workshop</b><br>Course Directors: <i>Zubeda Sheikh, MD, MSCTS, FACNS and Lawrence J. Hirsch, MD, FACNS</i>   | Grand Ballroom I - IV, 3rd Floor                      |
| 9:30- 9:45am            | <b>Coffee Break</b>   | Exhibit & Poster Hall, Harborside Ballroom, 4th Floor |
| 9:45 - 11:15am          | <b>3111: Criteria and Standards for Reporting Significant Changes in NIOM</b><br>Session Director: <i>Michael McGarvey, MD, FACNS</i>   | Grand Ballroom V, 3rd Floor                           |
|                         | <b>3112: Neurophysiology of Basal Ganglia, Thalamus and other Targets for Treatment of Movement Disorders, Epilepsy and Psychiatric Conditions</b><br>Session Director: <i>Oscar Bernal-Pacheco, MD</i>   | Grand Ballroom VI, 3rd Floor                          |
|                         | <b>3113: Course: Sleep Medicine Year In Review 2025: What Clinical Neurophysiologists Want To Know</b><br>Course Directors: <i>Madeleine M. Grigg-Damberger, MD, FACNS</i>  | Essex A - C, 4th Floor                                |
| 11:15 - 11:30am         | <b>Snack Break</b>  | Grand Foyer, 3rd Floor                                |
| 11:30am - 1:25pm        | <b>3121: General Session: Gloor Award Presentation &amp; Lecture  Neurophys Bowl</b>  | Grand Ballroom VI, 3rd Floor                          |
| 1:25 - 3:00pm           | <b>Lunch</b>  | Exhibit & Poster Hall, Harborside Ballroom, 4th Floor |
| 1:30 - 3:00pm           | <b>3131: Program Director Symposium: Curriculum Design &amp; Modality-Specific CNP Tests: How Much is Too Little and How Much is Too Much?</b><br>Session Directors: <i>Heidi M. Munger Clary, MD, MPH, FACNS and Pegah Afra, MD, FACNS</i>             | Essex A - C, 4th Floor                                |
| 3:15 - 4:45pm           | <b>3141: Course: Approach to Brachial Plexopathy in the EMG Laboratory: A Hands-On Nerve Conduction Study Workshop</b><br>Course Director: <i>Ruple S. Laughlin, MD, FACNS</i>  | Grand Ballroom V, 3rd Floor                           |
|                         | <b>3142: New and Novel Clinical Applications of Electroencephalography (ECoG)</b><br>Session Directors: <i>Brin Freund, MD and William O. Tatum IV, DO, FACNS</i>   | Grand Ballroom VI, 3rd Floor                          |
|                         | <b>3143: Multimodal Sacral Nerve Root Monitoring: Maintaining Quality of Life for Our Patients by Preserving Bladder, Bowel, and Sexual Function</b><br>Session Directors: <i>Justin Silverstein, DHSc and Mirela Simon, MD, MSC, FACNS</i>             | Grand Ballroom I - IV, 3rd Floor                      |
|                         | <b>3144: The Use of Clinical Neurophysiology in Underrepresented and Underserved Populations in the USA and Mexico (ACNS/Sociedad Mexicana de Neurofisiología Clínica A.C. Joint Symposium)</b><br>Session Director: <i>Alejandro Zavala, MD, FACNS</i> | Essex A - C, 4th Floor                                |
| 4:45- 5:00pm            | <b>Coffee Break</b>   | Grand Foyer, 3rd Floor                                |
| 5:00 - 6:30pm           | <b>3151: Exploring Cognitive Mapping: Insights from Stereoelectroencephalography (SEEG)</b><br>Session Director: <i>Ammar Kheder, MD, FACNS</i>   | Grand Ballroom VI, 3rd Floor                          |
|                         | <b>3152: Course: Introduction to Clinical Magnetoencephalography (MEG)</b><br>Course Director: <i>Jeffrey R. Tenney, MD, PhD, FACNS</i>   | Grand Ballroom I - IV, 3rd Floor                      |
|                         | <b>3153: Course: Making Sense of Atypical Nerve Conduction Study and Needle EMG Waveforms</b><br>Course Director: <i>Devon I. Rubin, MD, FACNS</i>  | Essex A - C, 4th Floor                                |
|                         | <b>3154: Personalization of Intracranial Neuromodulation Treatments in Epilepsy</b><br>Session Directors: <i>Shruti Agashe, MD, MS-BME and Nicholas Gregg, MD</i>   | Grand Ballroom V, 3rd Floor                           |

**SA** = This session offers Self-Assessment CME Credits  
**NON CME** = Non-CME Session

## SCHEDULE AT A GLANCE

| SUNDAY, MARCH 2, 2025 |  | LOCATION                         |
|-----------------------|--|----------------------------------|
| 7:00 - 8:30am         | <b>Breakfast</b>   | Grand Foyer, 3rd Floor           |
| 8:00 - 9:30am         | <b>3201: Genetic and EEG Biomarkers of The Epileptogenic Zone</b><br>Session Directors: <i>Cody L. Nathan, MD and Elizabeth E. Gerard, MD, FACNS</i> <span style="float: right;">SA</span>   | Grand Ballroom VI, 3rd Floor     |
|                       | <b>3202: Leveraging Neurophysiology Data from Neuromodulation Devices for Enhanced Clinical Decision-Making</b><br>Session Director: <i>Ezequiel Gleichgerrcht, MD, PhD</i>  | Grand Ballroom V, 3rd Floor      |
|                       | <b>3203: Signal Optimization in Techniques for Intraoperative Neurophysiologic Monitoring</b><br>Session Directors: <i>Jaime R. López, MD, FACNS and Lidia Cabañes Martínez, MD, FACNS</i>   | Grand Ballroom I - IV, 3rd Floor |
|                       | <b>3204: Status Epilepticus Identification and Management in Special Pediatric Populations</b><br>Session Directors: <i>Nicholas S. Abend, MD, MSCE, FACNS and France Fung, MD, MSc, FACNS</i> <span style="float: right;">SA</span>   | Essex A - C, 4th Floor           |
| 9:30 - 9:45am         | <b>Coffee Break</b>  | Grand Foyer, 3rd Floor           |
| 9:45 - 11:15am        | <b>3211: Best Practices and Workflow Models for Continuous EEG Monitoring in Critical Care, and their Effect on Patient Outcomes</b><br>Session Director: <i>Magdalena Warzecha, BS, R.EEG/EP, CLTM, NA-CLTM, FASET</i>  | Essex A - C, 4th Floor           |
|                       | <b>3212: Controversies in the Surgical Management of Eloquent Cortex Epilepsies: Resection vs Neuromodulation</b><br>Session Director: <i>Asim Shahid, MD</i>  | Grand Ballroom I - IV, 3rd Floor |
|                       | <b>3213: Modification of Conventional Techniques for Intraoperative Monitoring of Nerve Roots and Peripheral Nerves: Posterior Root Muscle Response and Other Uses of High Voltage Electrical Stimulation</b><br>Session Directors: <i>Lidia Cabañes Martínez, MD, FACNS and Alejandro Zavala, MD, FACNS</i> | Grand Ballroom V, 3rd Floor      |
|                       | <b>3214: SEEG Implantation Strategy in Epileptic Patients: Illustrative Case Discussions</b><br>Session Director: <i>Jun T. Park, MD, FACNS</i> <span style="float: right;">SA</span>  | Grand Ballroom VI, 3rd Floor     |

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**THURSDAY, FEBRUARY 27, 2025**

**7:00 – 8:30am**

Breakfast

*Location: Grand Ballroom Foyer, 3rd Floor*

**8:00 – 9:30am CONCURRENT SESSIONS**

**2701: Course: Ambulatory EEG Monitoring SA**

*Location: Grand Ballroom I -IV, 3rd Floor*

Directors: Aline Herlopian, MD and William O. Tatum IV, DO, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Identify the minimal requirements to perform AEEGs;
2. Recognize the differences in utilizing inpatient versus outpatient video-EEG monitoring; and
3. Discuss the current available technology for chronic outpatient ambulatory EEG monitoring.

8:00am Introduction  
*William O. Tatum IV, DO, FACNS*

8:05am Minimum Standards for Recording AEEG  
*Saurabh R. Sinha, MD, PhD, FACNS*

8:30am Bridging EMU and AEEG  
*Sarah E. Schmitt, MD, FACNS*

8:55am Chronic Ambulatory EEG Devices  
*Gregory Worrell, MD, PhD*

9:20am Discussion

**2702: Burnout in Clinical Neurophysiology: Current State and the Way Forward**

*Location: Essex A - C, 4th Floor*

Directors: Hiba A. Haider, MD, FACNS, FAES and Cormac O'Donovan, MD, FRCPI, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe contributors to burnout in the context of current-day clinical neurophysiology and epilepsy practice;
2. Apply a neuroscience-based team management framework to assist in developing highly effective teams to enhance capacity to solve health-care challenges; and
3. Identify effective strategies utilized by peers and thought leaders to improve well-being in the workplace.

8:00am The Current State of Burnout in Clinical Neurophysiology & Epilepsy Practice: What Puts Us At Risk?  
*Hiba A. Haider, MD, FACNS, FAES*

8:25am Applying a Neuroscience-Based Framework to Develop Highly Effective Teams  
*Mary Rensel, MD, FAAN, ABIHM*

8:50am Leadership 2.0: Aligning Institutional Missions with Clinician Well-Being  
*Meriem Bensalem-Owen, MD, FACNS*

9:15am Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**THURSDAY, FEBRUARY 27, 2025**

**8:00 – 11:15am**

## **2703: Course: ICU EEG Monitoring - Part V**

*Location: Grand Ballroom V, 3rd Floor*

*This session is supported, in part, by an unrestricted educational grant from Natus Neurology.*

Directors: Frank W. Drislane, MD, FACNS and Zubeda Sheikh, MD, MSCTS, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Review guidelines and consensus statements on CEEG monitoring in adult and pediatric ICUs;
2. Outline ACNS terminology for rhythmic and periodic patterns, status epilepticus, and background patterns in the ICU;
3. Identify ictal-interictal continuum patterns and status epilepticus and understand their potential impacts on outcomes; and
4. Review the use of EEG monitoring, terminology, and seizure detection in the pediatric and neonatal ICUs.

8:00am ICU EEG Monitoring: History and Development  
*Frank W. Drislane, MD, FACNS*

8:25am ACNS ICU EEG Terminology: RPPs/ESE/IIC/BIRDs  
*Lawrence J. Hirsch, MD, FACNS*

8:50am EEG Background: Terminology and Grading of Dysfunction  
*Zubeda Sheikh, MD, MSCTS, FACNS*

9:15am Discussion

9:30am Break

9:45am ICU EEG Monitoring and ACNS Terminology in Neonates  
*Shavonne Massey, MD, MSCE, FACNS*

10:10am CEEG in Guiding the Management of Status Epilepticus and IIC  
*Suzette LaRoche, MD, FACNS*

10:35am Pediatric Status Epilepticus: Predictors and Outcomes  
*France Fung, MD, MSc, FACNS*

11:00am Discussion

**9:30 – 9:45am**

## **Coffee Break**

*Location: Grand Foyer, 3rd Floor*

**9:45 – 11:15am CONCURRENT SESSIONS**

## **2711: Defining the Epileptogenic Zone Using Quantification of the Stereo-Electroencephalography Signal**

*Location: Grand Ballroom I - IV, 3rd Floor*

Directors: Jaysingh Singh, MD and Birgit Frauscher, MD, PhD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Acquire knowledge of novel quantitative approaches for defining the epileptogenic zone network using inter-ictal and ictal SEEG data;
2. Integrate the findings from quantitative analysis of SEEG in surgery decision-making; and
3. Discuss how other epilepsy centers can adopt these methods during surgical evaluation.

9:45am Challenges to the Visual Analysis of SEEG Interpretation  
*Jaysingh Singh, MD*

10:00am Quantification of Ictal SEEG Signal; From Signal to Modeling  
*Ionut-Flavius Bratu, MD*

10:25am Value of Analyzing the Interictal Epileptic Spikes on SEEG  
*Benjamin Brinkmann, PhD*

10:50am Clinical Applications of the Quantified Stereo-EEG Analysis Methodology  
*Birgit Frauscher, MD, PhD, FACNS*

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**THURSDAY, FEBRUARY 27, 2025**

## **2712: NIOM Practice Demystified: Contracts, Salaries, Billing, and Practice Models**

*Location: Essex A - C, 4th Floor*

Directors: Reiner Henson See, MD and Pegah Afra, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Discuss the challenges and dynamic landscape of NIOM including an examination of the diverse practice models available;
2. Perform administrative functions pivotal to enhance practice profitability, gain insights into effective contract negotiations when embarking on employment contracts. Learn strategic recruitment techniques, innovative strategies for retaining staff; and
3. Explain diverse compensation plans in NIOM practice, encompassing salary structures, RVU and various models predicated on patient volume or case complexity vis-à-vis time-based arrangements.

9:45am Compensation Unlocked: Decoding RVU Coding, Billing, and Salary Structures in NIOM Practice Models  
*Reiner Henson See, MD*

10:10am Maximizing NIOM Practice for Success: Navigating Contracts, Hiring, and Revenue Strategies  
*David M. Zimmerman, BS, CNIM*

10:35am Driving Growth: Mastering Challenges and Expansion Strategies in NIOM Practice  
*Yafa Minazad, DO, FACNS, MMM*

11:00am Discussion

## **11:20am – 12:45pm**

### **2721: General Session: Jasper Award Presentation & Lecture | Schwab Award Presentation & Lecture**

*Location: Grand Ballroom VI, 3rd Floor*

11:20am Welcome  
*Meriem Bensalem-Owen, MD, FACNS*

11:25am Herbert H. Jasper Award Introduction  
*Stephen U. Schuele, MD, MPH, FACNS*

11:30am Herbert H. Jasper Award Lecture: "Gamma Frequency Resonance at Seizure Initiation: Pathophysiology and Functional Impact"  
*Patrick Y. Chauvel, MD*

12:05pm Robert S. Schwab Award Introduction  
*Aatif M. Husain, MD, FACNS*

12:10pm Robert S. Schwab Award Lecture: "Electrophysiologic Patterns of Denervation"  
*Janice Massey, MD*

## **12:45 – 2:15pm**

### **Lunch**

*Location: Grand Foyer, 3rd Floor*

## **1:00 – 2:00pm**

### **2731: Diversity, Equity, and Inclusion (DEI) Roundtable**

*Location: Essex A - C, 4th Floor*

Directors: Gloria M. Galloway, MD, MBA, FACNS and Jaime R. López, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Discuss and provide recommendations for challenges and changes in DEI initiatives at ACNS;
2. Discuss challenges to DEI changes at our own institutions; and
3. Discuss potential recommendations that can be incorporated at our individual institutions to initiate or progress DEI changes.

1:05pm Introduction  
*Gloria M. Galloway, MD, MBA, FACNS*

1:10pm DEI Focus Groups  
*The committee will provide a set of framing questions and topics to each table. Participants can self-select their discussion topics from the list of add others. Following discussion, each table will be asked to summarize their main points of concern and suggestions for next steps and moving forward both within ACNS and at their home institutions.*

1:50pm Report/Summary  
*Jaime R. López, MD, FACNS*

## **2:15 – 3:15pm**

### **Special Interest Group (SIG) Meet-Ups**

In collaboration with the ACNS Clinical Research Committee, the ICU EEG SIG has invited two poster authors to present at the SIG Meet-Up.

#### **ICU EEG**

*Location: Grand Ballroom V, 3rd Floor*

Directors: Brandon Foreman, MD, MS, FACNS and Rejean M. Guerriero, DO, FACNS

"Gender & Racial Disparities in the Outcomes of Status Epilepticus Hospitalizations in the United States"  
*Presenting Author: Khansa Osman, MD*

"Theta-Alpha Variability on EEG Is Associated with Acute Brain Injury in Children and Young Adults with Liver Failure"  
*Presenting Author: Alexander Andrews, MD*

#### **Business of CNP**

*Location: Grand Ballroom I - IV, 3rd Floor*

Directors: Pegah Afra, MD, FACNS, and Gregory Kapinos, MD, MS

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**THURSDAY, FEBRUARY 27, 2025**

## 3:15 – 4:45pm CONCURRENT SESSIONS

### 2741: The Spectrum of Career Options in Clinical Neurophysiology: From Traditional & Academic to Remote

Location: Essex A - C, 4th Floor

Directors: Heidi M. Munger Clary, MD, MPH, FACNS and Pegah Afra, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Provide examples of various career options in clinical neurophysiology;
2. Provide interactive advice on the pros and cons of each of these pathways, the day-to-day components of these roles and impact on lifestyle; and
3. Analyze their own goals and preferences and consider next steps in career growth within distinct career options in clinical neurophysiology.

3:15pm Introduction

3:20pm Clinical Neurophysiology in a Traditional Private Practice Model  
*Georges A. Ghacibeh, MD, MSc, FAAN*

3:30pm Academic Practice in EMG: Focus on Education  
*Ruple S. Laughlin, MD, FACNS*

3:40pm Academic Practice in EEG (Pediatric): Focus on Research and Administration  
*Courtney J. Wusthoff, MD, MS, FACNS*

3:50pm Remote Intraoperative Monitoring and EEG  
*Matthew Wong, MD*

4:00pm Discussion

### 2742: EEG Monitoring After Newborn Heart Surgery **SA**

Location: Grand Ballroom I-IV, 3rd Floor

Director: Robert Clancy, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the biological stresses placed upon the neonatal brain from a congenital heart defect, cardiopulmonary bypass, and hypothermic circulatory arrest;
2. Describe the frequency of EEG seizures and status epilepticus after newborn heart surgery and their association with subsequent adverse neurodevelopmental outcomes; and
3. Identify the neonatal EEG background patterns associated with diffuse white matter injuries and localized stroke.

3:15pm The Neurobiology of Congenital Heart Disease  
*Robert Clancy, MD*

3:40pm EEG Seizures Following Newborn Heart Surgery  
*Shavonne Massey, MD, MSCE, FACNS*

4:05pm Neonatal EEG Background Changes Indicative of Structural Brain Abnormalities After Newborn Heart Surgery  
*Janette Mailo, MD, PhD*

4:30pm Discussion

### 2743: Course: Extraoperative Neurostimulation and Mapping

Location: Grand Ballroom VI, 3rd Floor

Director: Iffat Ara A. Suchita, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Demonstrate knowledge on neurostimulation with SDG, depth and sEEG;
2. Conduct extraoperative neurostimulation on adult and pediatric cases; and
3. List the parameter difference among SDG, sEEG and age-based stim.

3:15pm Cortical Stimulation Mapping with SDG  
*Iffat Ara A. Suchita, MD*

3:45pm Electrostimulation with sEEG/Depth  
*Gregory Worrell, MD, PhD*

4:15pm Seizure Provocation and Pediatric Neurostimulation at EMU  
*Lily Wong-Kisiel, MD, FACNS*

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**THURSDAY, FEBRUARY 27, 2025**

**3:15 – 6:30pm**

## **2744: Course: ICU EEG Monitoring Part VI**

*Location: Grand Ballroom V, 3rd Floor*

Directors: Frank W. Drislane, MD, FACNS and Zubeda Sheikh, MD, MSCTS, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the use of quantitative EEG for seizure detection in the ICU;
2. Review the risk factors for seizures (including those without clear clinical manifestations) that help optimize the duration of CEEG in ICU;
3. Review use of CEEG and multimodal monitoring for anoxic brain injury and other forms of acute brain injury;
4. Analyze the EEG and clinical factors that portend epilepsy risk following acute brain injury; and
5. Review definitions, pathogenesis, management and outcomes of NORSE/FIRES.

3:15pm QEEG in the ICU  
*Hiba A. Haider, MD, FACNS, FAES*

3:40pm Duration of CEEG in ICU: Do We Standardize or Customize?  
*Aaron Struck, MD, FACNS*

4:05pm Hypoxic Ischemic Brain Injury  
*Jong Woo Lee, MD, PhD, FACNS*

4:30pm Discussion

4:45pm Break

5:00pm Advanced Multimodal Monitoring  
*Sahar F. Zafar, MD*

5:25pm Biomarkers of Epilepsy After Acute Brain Injury  
*Vineet Punia, MD*

5:50pm NORSE/FIRES  
*Nicolas Gaspard, MD, PhD, FACNS*

6:15pm Discussion

**4:45 – 5:00pm**

## **Coffee Break**

*Location: Grand Foyer, 3rd Floor*

**5:00 – 6:30pm CONCURRENT SESSIONS**

## **2751: Circadian Rhythm Disorders, Orthosomnia, and Wearables for Sleep SA**

*Location: Grand Ballroom I - IV, 3rd Floor*

Directors: Ran Liu, MD, FRCPC, DABPN, DABSM, CSCN (EEG), MSc and Milena Pavlova, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Identify the science of sleep wearable technology, as well as an overview practical approach to their utility in clinical practice;
2. Explain the need for newer ways to measure sleep aside from the current gold standard of polysomnography; and
3. Utilize a few sample wearables in either research or clinical neurophysiology.

5:00pm Basic Neurophysiology of Circadian Rhythms  
*Mark S. Quigg, MD, MS, FAES, FANA*

5:20pm Clinical Presentation of Circadian Rhythm Disorders  
*Milena Pavlova, MD*

5:40pm Clinical Neurophysiology Limitations and A Case for Wearable Polysomnogram Alternatives  
*Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS*

5:55pm Orthosomnia Dispelled: A Practical Approach to Wearable Sleep Technology  
*Ran Liu, MD, FRCPC, DABPN, DABSM, CSCN (EEG), MSc*

## **2752: Pediatric EMG Technical Considerations and Clinical Applications (ACNS/Egyptian Society of Neurology, Psychiatry and Neurosurgery (ESNPN) Joint Symposium) SA**

*Location: Essex A - C, 4th Floor*

Director: AyatAllah F. Hussein, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Identify the difference between adult and pediatric EMG, technique and approach;
2. Explain how to reach the correct diagnosis for a floppy infant; and
3. Explain technical problems in pediatric ICU and know how overcome and reach a proper diagnosis.

5:00pm EMG and NCV Approach in Floppy Infant  
*AyatAllah F. Hussein, MD*

5:25pm Technical Basics and Considerations in Pediatric EMG  
*Randa Jarrar, MD*

5:50pm Role of EMG and NCV in Pediatric ICU  
*Hanan Soliman, MD*

6:15pm Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**THURSDAY, FEBRUARY 27, 2025**

## **2753: Course: Recognizing Seizure Semiology from Ictal Scalp EEG Analysis: A Sherlock Holmes' Approach** **SA**

*Location: Grand Ballroom: VI, 3rd Floor*

Director: Neel Fotedar, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe important non-EEG elements such as myogenic artifact, eye movements, etc. in an EEG recording;
2. Deduce seizure semiology via meticulous analysis of non-EEG elements without requiring additional video information; and
3. Define the putative epileptogenic zone using EEG-based seizure semiology and seizure localization.

5:00pm Reverse Engineering Scalp EEG to Recognize Seizure Semiology  
*Neel Fotedar, MD*

5:15pm Illustrative Case Discussion 1  
*Roohi Katyal, MD*

5:35pm Illustrative Case Discussion 2  
*Luisa V. Londoño Hurtado, MD*

5:55pm Illustrative Case Discussion 3  
*Asim Shahid, MD*

6:15pm Discussion

**6:30 – 8:00pm**

### **Welcome Reception**

*Location: Exhibit & Poster Hall, Harborside Ballroom, 4th Floor*



# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**FRIDAY, FEBRUARY 28, 2025**

**7:00 – 8:30am**

## Breakfast

Location: Grand Foyer, 3rd Floor

**7:00 – 8:00am**

## Special Interest Group (SIG) Meet-Ups NON CME

In collaboration with the ACNS Clinical Research Committee, the NIOM and Stereo EEG SIGs have invited two poster authors to present at the SIG Meet-Ups.

### NIOM

Location: Grand Ballroom VI, 3rd Floor

Directors: Inna Keselman, MD, PhD, FACNS and Tatsuya Oishi, MD

“A Comparison Between an AI-Based Alert System and Experts in Classifying Neurophysiological Monitoring (NIOM) Data”

Presenting Author: Rich Vogel, PhD, DABNM

“Disparities in the Utilization of Intraoperative Neuromonitoring: A Nationwide 13-year Analysis”

Presenting Author: Ali Al-Salahat, MBChB

### Stereo EEG

Location: Grand Ballroom V, 3rd Floor

Directors: Prachi Tushar Parikh, MD and Hussam Shaker, MD

“Electrical Stimulation for Seizure Induction is Safe, Well-Tolerated and Efficacious in Children with Drug-Resistant Epilepsy”

Presenting Author: Lucy Tarcha, BS

“The Sawtooth Delta of the Thalamus is a Normal Variant and the Intracranial Correlate of Sawtooth Waves in Rapid-Eye Movement Sleep”

Presenting Author: Vasileios Kokkinos, PhD

**8:00 – 9:30am CONCURRENT SESSIONS**

## 2801: Global Workforce: Bridging the Gap in Epilepsy SA

Location: Ballroom I - IV, 3rd Floor

Directors: Clio Rubinos, MD, MS, FACNS and Aline Herlopian, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Determine areas of practice gaps and establish collaborations;
2. Develop tools for overcoming challenges that hinder collaborative efforts; and
3. Develop programs aimed at narrowing the gap in clinical practice.

8:00am Epilepsy Care in Armenia  
Aline Herlopian, MD

8:20am Building Consensus on EEG Terminology Across Spanish-Speaking Countries  
María Bruzzone Giraldez, MD, MSCR

8:40am Epilepsy Care in Zambia and Rwanda  
Archana A. Patel, MD, MPH, MSc

9:00am Dissemination of EEG Guidelines in Arabic through ACNS  
AyatAllah F. Hussein, MD

9:15am Discussion

## 2802: Practical Considerations in MEG Recording and Analysis in Infants and Children SA

Location: Essex A - C, 4th Floor

Directors: Ismail S. Mohamed, MD, FAES, FACNS and Jeffrey R. Tenney, MD, PhD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Understand the challenges encountered during resting MEG recordings and analysis in pediatrics;
2. Use Pediatric MEG results in surgical planning; and
3. Understand age-related considerations during MEG functional mapping and strategies for optimal recordings.

8:00am MEG in Pediatrics: Introduction & Challenges  
Ismail S. Mohamed, MD, FAES, FACNS

8:05am MEG Recordings in Children  
Jeffrey R. Tenney, MD, PhD, FACNS

8:30am MEG Functional Mapping in Children  
Susan Bowyer, PhD

8:55am Incorporating Pediatric MEG in Epilepsy Surgery: Case Presentations  
Clifford Calley, MD

9:20am Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**FRIDAY, FEBRUARY 28, 2025**

## 8:00 – 11:15am CONCURRENT SESSIONS

### 2803: Course: NIOM - Part V **SA**

*Location: Grand Ballroom VI, 3rd Floor*

Directors: E. Matthew Hoffman, DO, PhD, FACNS and Elayna Rubens, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Plan, implement, and accurately interpret NIOM modalities across a diverse range of procedures where the nervous system is at risk; and
2. Explain the rationale for and know the limitations of using advanced and emerging NIOM modalities for neuroprotection.

8:00am Spinal Cord Monitoring

*E. Matthew Hoffman, DO, PhD, FACNS*

8:25am Spinal Cord Mapping

*Ankita Tippur, MD*

8:50am Intramedullary Spinal Cord Case Discussion

*Khalil S. Husari, MD*

9:15am Discussion

9:30am Break

9:45am Intraoperative Monitoring of Cardiac Surgery

*Michael McGarvey, MD*

10:10am Intraoperative Monitoring of Aortic Surgery

*Mirela Simon, MD, MSs, FACNS*

10:35am Peripheral Nerve Monitoring

*Jessie Nance, MD*

11:00am Discussion

### 2804: Course: Stereo EEG - Part V **SA**

*Location: Grand Ballroom V, 3rd Floor*

*This session is supported, in part, by an unrestricted educational grant from Nihon Kohden America.*

Directors: Ramya Raghupathi, MD and David Burkholder, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Enhance understanding of SEEG methodology, interpretation and its role in epilepsy surgery;
2. Describe clinical indications and patient selection criteria for SEEG, including pediatric considerations; and
3. Explore advancements in cortical stimulation and practical applications.

8:00am Basic Principles of Stimulation in SEEG

*Patrick Chauvel, MD*

8:25am Performing Stimulation Mapping for Function

*Ravindra Arya, MD, DM, FACNS*

8:50am Performing Stimulation Mapping for Seizures

*Jaysingh Singh, MD*

9:15am Discussion

9:30am Break

9:45am Cases - Basic Principle Highlights

*Hussam Shaker, MD*

10:10am Cases - Functional Mapping

*Ravindra Arya, MD, DM, FACNS*

10:35am Cases - Seizure Mapping

*Dipali Nemade, MD*

11:00pm Discussion

## 9:30– 9:45am

### Coffee Break

*Location: Exhibit & Poster Hall, Harborside Ballroom, 4th Floor*

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**FRIDAY, FEBRUARY 28, 2025**

## 9:45 – 11:15am CONCURRENT SESSIONS

### 2811: Evolution of Health Care Economy and How it Affects Clinical Neurophysiology: Past, Present and Future **SA**

*Location: Essex A - C, 4th Floor*

Directors: Pegah Afra, MD, FACNS and Matthew W. Luedke, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the evolution of healthcare models(HC) in the past couple of decades, including different forms of consolidation and its HC economical effect;
2. Describe the challenges that different clinical neurophysiology services (EEG, IOM, sleep, etc) are facing in the current economical climate of outsourcing; and
3. Describe the short and long term financial impact of the CNP-outsourcing on departments of neurology.

9:45am Evolution of HC Models Over the Past Decades: What Have Physicians Lost and How the Revenue was Transferred  
*Pegah Afra, MD, FACNS*

10:10am The Widespread Practice of Outsourcing CNP: A Loss in Practice and Revenue: Is There an Explanation?  
*Aatif M. Husain, MD, FACNS*

10:35am The Future Impact of Consolidation and Outsourcing CNP Services to Neurology Departments: 1 -Year, 5- Year and 10- Year Trajectory  
*George W. Culler, IV, MD*

11:00am Discussion

### 2812: The Status of Clusters: Untangling Status Epilepticus from Clustered Seizures in DEE Across the Lifespan **SA**

*Location: Grand Ballroom I - IV, 3rd Floor*

Directors: Inna Hughes, MD, PhD and Michael R. Halstead, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the current nomenclature in status epilepticus, acute repetitive seizure, and seizure clustering and how patients with epilepsy syndromes across the lifespan may present within or outside these definitions;
2. Recognize common features of continuous EEG and QEEG seen in patients with developmental epileptic encephalopathies with acute epilepsy exacerbations; and
3. Identify opportunities to more clearly apply nomenclature in EEG reporting which may better facilitate care for patients with complex epilepsy presenting in status epilepticus or acute repetitive seizures.

9:45am Acute Repetitive Seizures Versus Clusters Versus Tonic Status: A Case Where Descriptions Really Matter  
*Inna Hughes, MD, PhD*

10:05am The Language of EEG Matters: Parent Experience in the ICU in Clustered Seizures in DEE  
*Shawn Egan, PhD*

10:30am A Case of Clustered Seizures: Managing Expectations in Adults with LGS/DEEs  
*Michael R. Halstead, MD*

10:55am Discussion  
*Courtney Wusthoff, MD, MS, FACNS*

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

## FRIDAY, FEBRUARY 28, 2025

### 11:30am – 1:00pm

#### 2821: General Session: Young Investigator Travel Award Presentation | 2024 Cosimo-Ajmone Marsan Award Presentation | Presidential Address | Business Meeting

Location: Grand Ballroom VI, 3rd Floor

- 11:30am Presentation of the Young Investigator Travel Awards  
*Marcus C. Ng, MD, FRCPC, CSCN, FACNS*
- 11:40am Presentation of the 2024 Cosimo-Ajmone Marsan Award  
*Stephan U. Schuele, MD, MPH, FACNS*
- 11:45am Introduction of the ACNS President  
*Adriana Bermeo-Ovalle, MD, FACNS, FAES*
- 11:50am Presidential Address: "The EEG's Ripple Effect on Society and Culture"  
*Meriem Bensalem-Owen, MD, FACNS*
- 12:25pm ACNS Annual Business Meeting

### 1:00 – 2:30pm

#### Lunch and Poster Tours

Location: Exhibit & Poster Hall, Harborside Ballroom

1:30 – 2:30pm

Meet in the Harborside Ballroom Foyer to join the guided poster tours. A complete list abstracts can be found in the Mobile App.

#### Poster Tour Group A

Video-EEG Monitoring for Epilepsy  
Epilepsy: Clinical  
Epilepsy: Pathophysiology  
EEG

#### Poster Tour Group C

EMG/NCV Testing  
Peripheral Nerve and Muscle Physiology  
Peripheral Neuropathy

### 1:15 - 2:15pm

#### Product Theaters NON CME

See page 53 for complete information.

### 2:30 – 4:00pm

#### 2831: Clinical Diagnosis of Amyotrophic Lateral Sclerosis: From the Published Consensus Criteria to The EMG Lab (ACNS/Sociedad Española de Neurología Clínica Joint Symposium) SA

Location: Essex A - C, 4th Floor

Director: Victoria Fernández, MD, PhD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Define ALS new diagnostic criteria;
2. Implement new techniques that are useful in ALS diagnosis, and
3. Recognize and diagnose ALS mimickers.

2:30pm Introduction

*Victoria Fernández, MD, PhD, FACNS*

2:35pm Amyotrophic Lateral Sclerosis (ALS) Diagnostic Criteria: Are They Appropriate for the Diagnosis?

*Lidia Cabañes Martínez, MD, FACNS*

3:00pm Role of the Electrodiagnostic Testing for the Diagnosis of ALS:

Beyond "Classic" Electromyography

*Carmen Martínez Aparicio, MD, PhD*

3:25pm Role of EDX in Identifying ALS Mimickers

*Devon I. Rubin, MD, FACNS*

3:50pm Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**FRIDAY, FEBRUARY 28, 2025**

## 2:30 – 5:45pm CONCURRENT SESSIONS

### 2832: Course: NIOM - Part VI

*Location: Grand Ballroom VI, 3rd Floor*

Directors: E. Matthew Hoffman, DO, PhD, FACNS and Elayna Rubens, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Plan, implement, and accurately interpret NIOM modalities across a diverse range of procedures where the nervous system is at risk; and
2. Explain the rationale for and know the limitations of using advanced and emerging NIOM modalities for neuroprotection.

2:30pm Monitoring of the Visual System  
*Aatif M. Husain, MD, FACNS*

2:55pm Cranial Nerve Monitoring: CN Reflexes  
*Sedat Ulkatan, MD*

3:20pm NIOM in Functional Neurosurgery for Pain  
*Christine Hung, MD*

3:45pm Discussion

4:00pm Break

4:15pm Mapping and Monitoring of Cortical Motor Pathways  
*Alan D. Legatt, MD, PhD, FACNS*

4:40pm Language Mapping  
*Silvia Mazzali-Verst, MD, PhD*

5:05pm DBS  
*Jay L. Shils, PhD, DABNM, FASNM, FACNS*

5:30pm Discussion

### 2833: Course: Stereo EEG - Part VI

*Location: Grand Ballroom V, 3rd Floor*

*This session is supported, in part, by an unrestricted educational grant from Nihon Kohden America.*

Directors: Ramya Raghupathi, MD and David Burkholder, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Enhance understanding of SEEG methodology, interpretation and its role in epilepsy surgery;
2. Describe clinical indications and patient selection criteria for SEEG, including pediatric considerations; and
3. Explore advancements in cortical stimulation and practical applications.

2:30pm Surgical Implications of Functional Mapping  
*Stephan Schuele, MD, MPH, FACNS, FAAN*

2:55pm Surgical Implications of Seizure Mapping  
*Erin Conrad, MD*

3:20pm Utilization and Implications of Cortico-Cortical Evoked Potentials in SEEG  
*Nicolas Gregg*

3:45pm Discussion

4:00pm Break

4:15pm Case Outcomes with Functional Mapping  
*Vasileios Kokkinos, CNIM, CMEG, NA-CLTM, PhD, PhD, PhD, FACNS*

4:40pm Case Outcomes with Seizure Mapping  
*Sarah E. Woodson-Smith, MD*

5:05pm CCEP Cases  
*Nicolas Gregg*

5:30pm Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**FRIDAY, FEBRUARY 28, 2025**

## **2834: Course: Practical Aspects of Electrical Source Imaging** SA

*Location: Grand Ballroom I - IV, 3rd Floor*

Directors: Susan T. Herman, MD, FACNS and Stephen Foldes, PhD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe appropriate indications for electrical source imaging in epilepsy, including low density and high density EEG;
2. Optimize ESI acquisition and analysis using clinically available toolboxes; and
3. Integrate the results of ESI studies into the presurgical epilepsy evaluation.

2:30pm Indications, Subject Selection and Acquisition Workflow

*Adriana Bermeo-Ovalle, MD, FACNS, FAES*

2:55pm MRI Processing and Head Models

*Travis Stoub, PhD*

3:20pm Practical Source Localization Steps and the Role of the PhD

*Stephen Foldes, PhD*

3:45pm Discussion

4:00pm Break

4:15pm Utility in Epilepsy Surgery Evaluations

*Benjamin Cox, MD*

4:40pm Effects of Space, State, and Model Selection: Electrode Density, Vigilance, and Dipole vs Distributed Models

*Prachi Parikh, MD*

5:05pm Operational Aspects of an ESI Program

*Susan T. Herman, MD, FACNS*

5:30pm Discussion

## **4:00 - 4:15pm**

### **Coffee Break**

*Exhibit & Poster Hall, Harborside Ballroom, 4th Floor*

## **4:15 - 5:45pm**

### **2841: Clinical Neurophysiology Resident and Fellow Symposium**

*Location: Essex A - C, 4th Floor*

Directors: Katie Bullinger, MD, PhD, FACNS and Trenton Tollefson, MD, FACNS

4:15pm The Role of Surface EMG in EEG Negative Focal Clonic Seizure  
*Mohamed Ali, MD*

4:30pm Asynchronous Burst Suppression Predicts Outcome in Carotid Endarterectomy  
*Harmanpreet Kaur Tiwana, MD*

4:45pm Rethinking Responsive Neurostimulation: Lack of Efficacy or Gaps in Knowledge?  
*Ilana Lefkowitz, MD*

5:00pm Multimodality Work-Up to Enhance Diagnosis of Treatable Multifocal Motor Neuropathy  
*Emma H. Kaplan, MD*

5:15pm Obstructive Sleep Apnea Recurrence After Vagal Nerve Stimulator Implantation Despite Weight Loss and Uvulopalatopharyngoplasty Sleep  
*Derek Fisk, MD*

5:30pm POLG in Refractory Status Epilepticus: A Case Series  
*Angela Young, MD*

## **6:00 - 7:30pm**

### **Clinical Neurophysiology of Neurogastronomy - Bon Appetit!**

NON  
CME

*Location: Dover, 3rd Floor*

See page 19 for complete information.

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SATURDAY, MARCH 1, 2025**

**7:00am – 8:30am**

## Breakfast

*Location: Grand Foyer, 3rd Floor*

**8:00 – 9:30am CONCURRENT SESSIONS**

## **3101: Course: Neuromodulation in Epilepsy: Hands-On Course** SA

*Location: Grand Ballroom V, 3rd Floor*

This workshop is supported by in-kind donations of equipment from Livanova, Medtronic and Neuropace

Directors: Shruti Agashe, MD, MS-BME and Vikram R. Rao, MD, PhD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Perform basic and advanced programming of VNS devices;
2. Perform basic and advanced programming of DBS devices; and
3. Perform basic and advanced programming of RNS devices.

8:00am Programming of DBS Devices for Epilepsy  
*Shruti Agashe, MD, MS-BME*

8:30am Reviewing Data and Programming RNS Devices for Epilepsy  
*Vikram R. Rao, MD, PhD*

9:00am Programming of VNS Devices for Epilepsy  
*Fiona Lynn, NP*

## **3103: Novel MEG Computational Modelling: From Theory to Clinical Applications** SA

*Location: Essex A - C, 4th Floor*

Directors: Ismail S. Mohamed, MD, FAES, FACNS and Jeffrey R. Tenney, MD, PhD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Explain the basis of different computational models for MEG analysis;
2. List potential future applications of new computational algorithms in localization of the epileptogenic zone and predicting outcome; and
3. Discuss case scenarios where new computational methods could outperform the ECD model.

8:00am Computational Modelling of MEG Epileptiform Discharges  
*Ismail S. Mohamed, MD, FAES, FACNS*

8:05am Equivalent Current Dipole Model: What is the Evidence Behind its Use?  
*Jay Gavvala, MD, MSCI, FACNS, FAES*

8:30am An Overview of Other Computational Analysis Methods  
*Jeffrey R. Tenney, MD, PhD, FACNS*

8:55am Novel Biomarkers for Localization of the Epileptogenic Zone  
*Christos Papdelis, PhD*

9:20am Discussion

**8:00 – 11:15am**

## **3104: Course: Neurophysiology of Clinical Spells in the ICU: A Case-Based Workshop**

*Location: Grand Ballroom I - IV, 3rd Floor*

Directors: Zubeda Sheikh, MD, MSCTS, FACNS and Lawrence J. Hirsch, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Use clinical, semiologic, and neurophysiological data (EEG/EMG polygraphy) to evaluate motor activity in the ICU to determine epileptic vs non-epileptic nature;
2. Use video-EEG data to diagnose spells in the ICU resulting from changes in cerebral blood flow, pressure, and related physiological processes;
3. Identify ocular/orbital manifestations of seizures to distinguish from non-epileptic nystagmus and other eye movements in an ICU setting; and
4. Identify features of movement disorders distinct from seizures.

8:00am Limb Jerks in the ICU and EEG Correlates  
*Zubeda Sheikh, MD, MSCTS, FACNS*

8:25am Eye Movements in the ICU  
*Sarah E. Schmitt, MD, FACNS*

8:50am Movement Disorders in the ICU  
*Sara Schaefer, MD, MH*

9:15am Discussion

9:30am Break

9:45am Mystery Cases with Audience Interaction and Panel discussion  
*Lawrence J. Hirsch, MD, FACNS*  
*Zubeda Sheikh, MD, MSCTS, FACNS*  
*Selim Benbadis, MD, FACNS*  
*Emily Gilmore, MD, MS, FACNS, FNCS and*  
*Thomas P. Bleck, MD, FACNS*

**9:30 - 9:45am**

## Coffee Break

*Exhibit & Poster Hall, Harborside Ballroom, 4th Floor*

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SATURDAY, MARCH 1, 2025**

## 9:45 – 11:15am CONCURRENT SESSIONS

### 3111: Criteria and Standards for Reporting Significant Changes in NIOM **SA**

Location: Grand Ballroom V, 3rd Floor

Director: Michael McGarvey, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Identify the pathophysiology and neurophysiology for NIOM changes;
2. Identify the current established criteria for a significant change NIOM modalities during surgical procedures; and
3. Explain minimal standards for reporting significant NIOM changes to the surgical team.

9:45am Criteria for Significant NIOM Changes  
*Michael McGarvey, MD, FACNS*

10:10 am Neurophysiology and Pathophysiology Related to Significant Changes NIOM of Significant Changes in Intraoperative Monitoring  
*Aditya Joshi, MD*

10:35am Communication of Significant NIOM Changes to the Surgical Team  
*Stanley Skinner, MD, FACNS*

11:00am Discussion

### 3112: Neurophysiology of Basal Ganglia, Thalamus and Other Targets for Treatment of Movement Disorders, Epilepsy and Psychiatric Conditions

Location: Grand Ballroom VI, 3rd Floor

Director: Oscar Bernal-Pacheco, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Register the neurons, "drawing" electrophysiologically borders of the nucleus or area where to implant the electrode in the thalamus;
2. Estimate the electrophysiological response to macrostimulation in order to obtain the clinical response according to the nucleus that is looking for;
3. Establish by MER the final target where to put the lead and make and approximation about the future response in psychiatric diseases.

8:00am Thalamic and Hippocampal DBS for Refractory Epilepsy  
*Arthur Cukiert, MD, PhD*

8:25am Microelectrode Recordings and the Physiology of STN, GPi, and ViM Firing, with Neurosurgical Considerations for Each Target, Neuroanatomy, and Intraoperative Stimulation Testing: Exploring Options for Epilepsy  
*Neepa Patel, MD*

8:50am Deep Brain Stimulation in the Posterolateral Hypothalamus: Effects on Behavior, Cognition and Epilepsy?  
*Oscar Bernal-Pacheco, MD*

9:15am Discussion

### 3113: Course: Sleep Medicine Year in Review 2025: What Clinical Neurophysiologists Want to Know **SA**

Location: Essex A - C, 4th Floor

Director: Madeleine M. Grigg-Damberger, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Discuss latest neurophysiology research shedding light into the complex bidirectional interactions between sleep and epilepsy;
2. Explain the latest developments in the impact of sleep and sleep disordered breathing in neurological disorders; and
3. Discuss advances in diagnosis, evaluation and treatment of central hypersomnias.

9:45am Latest Developments in Sleep and Epilepsy  
*Birgit Frauscher, MD, PhD, FACNS*

10:10am Advances Diagnosing and Understanding Central Hypersomnia Disorders  
*Nancy Foldvary-Schaefer, DO, MS*

10:35am Best Studies on Impact of Sleep in Neurological Disorders  
*Madeleine M. Grigg-Damberger, MD, FACNS*

11:00am Discussion

## 11:15 - 11:30am

### Snack Break

Location: Grand Foyer, 3rd Floor

## 11:30am – 1:25pm

### 3121: General Session: Gloor Award Presentation & Lecture | Neurophys Bowl

Location: Grand Ballroom VI, 3rd Floor

11:30am Presentation of the 2025 Pierre Gloor Award  
*Elizabeth Gerard, MD, FACNS*

11:35am Pierre Gloor Award Lecture: "Reminiscences and Lessons Learned from 30 Years of the Modern EEG Renaissance"  
*Lawrence J. Hirsch, MD, FACNS*

12:10pm Neurophys Bowl  
*Moderated by: Sarah E. Schmitt, MD, FACNS*



# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SATURDAY, MARCH 1, 2025**

**1:25 – 3:00pm**

## Lunch

*Location: Exhibit & Poster Hall, Harborside Ballroom, 4th Floor*

**2:00 - 3:00pm**

Meet in the Harborside Ballroom Foyer to join the guided poster tours. A complete list abstracts can be found in the Mobile App.

## Poster Tour Group B

Stereo EEG

Deep Brain and Cortical Stimulation

Digital/Quantitative EEG and Topography

Sleep

Critical Care

## Poster Tour Group D

Intraoperative Monitoring

Evoked Potentials

Other

**1:30 – 3:00pm**

## 3131: Program Directors' Symposium: Curriculum Design & Modality-specific CNP Tests: How Much is Too Little and How Much is Too Much?

*Location: Essex A - C, 4th Floor*

Directors: Pegah Afra, MD, FACNS and Heidi M. Munger Clary, MD, MPH, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the curriculum design and modality-specific volume requirements for stand-alone CNP-EEG, EMG and IOM fellowship programs;
2. Describe the curriculum design and modality-specific volume requirements for CNP-EEG, EMG and IOM fellowship programs as a prelude/follow up to another fellowship year; and
3. Describe the curriculum design and modality-specific volume requirements for CNP-Combined (EEG/EMG, EEG/IOM or other combination) fellowship programs.

1:30pm Introduction

1:35pm Curriculum Design & Modality-Specific CNP Tests for EEG-Track Fellowships

*Saurabh R. Sinha, MD, PhD, FACNS*

1:55pm Curriculum Design & Modality-Specific CNP Tests for IOM-Track Fellowships

*Mirela Simon, MD, MSc, FACNSC*

2:15pm Curriculum Design & Modality-Specific CNP Tests for EMG-Track Fellowships

*Ioannis Karakis, MD, PhD, MSc, FACNS*

2:35pm Curriculum Design & Modality-Specific CNP Tests for Combined Fellowships

*Erik J. Kobylarz, MD, PhD*

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SATURDAY, MARCH 1, 2025**

## 3:15 – 4:45PM CONCURRENT SESSIONS

### 3141: Course: Approach to Brachial Plexopathy in the EMG Laboratory: A Hands-On Nerve Conduction Study Workshop

Location: Grand Ballroom V, 3rd Floor

This workshop is supported by an in-kind donation of equipment from Cadwell Industries

Director: Ruple S. Laughlin, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe nerve conduction studies that may be useful in a patient with brachial plexopathy;
2. Conduct nerve conduction studies that may be of high value in distinguishing a brachial plexopathy from other mimickers such as an upper limb mononeuropathy or cervical radiculopathy; and
3. Learn how to troubleshoot technical issues that may arise in the performance of these advanced nerve conduction studies.

3:15pm Approach to Brachial Plexopathy: The Sensory Studies  
*Ruple S. Laughlin, MD, FACNS*

4:00pm Approach to Brachial Plexopathies: Motor Nerve Conduction Studies  
*Devon I. Rubin, MD, FACNS*

### 3142: New and Novel Clinical Applications of Electrocorticography (ECoG) SA

Location: Grand Ballroom VI, 3rd Floor

Directors: William O. Tatum, IV, DO, FACNS and Brin Freund, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the indications for RNS and how to approach reviewing and utilizing data from chronic ECoG;
2. Discuss the controversies in using intraoperative ECoG during functional brain mapping and the importance of recording technique; and
3. Describe limitations of scalp EEG in diagnosing nonconvulsive seizures and status epilepticus in the ICU and indications for ECoG in this setting.

3:15pm Innovative Diagnostic and Therapeutic Uses of Chronic ECoG in the Ambulatory Setting  
*Vikram R. Rao, MD, PhD*

3:40pm Controversies and Novel Approaches to Enhancing Intraoperative ECoG  
*Brin Freund, MD*

4:05pm Revealing the Rest of the Iceberg: ECoG in the ICU  
*Khalil S. Husari, MD*

4:30pm Discussion

### 3143: Multimodal Sacral Nerve Root Monitoring: Maintaining Quality of Life for Our Patients by Preserving Bladder, Bowel, and Sexual Function SA

Location: Grand Ballroom I - IV, 3rd Floor

Directors: Justin Silverstein, DHSc and Mirela Simon, MD, MSs, FACNSC

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the spinal and supraspinal pathways involved in the control of bladder, bowel and sexual function;
2. Identify reflexes that can investigate these functions that can be performed under anesthesia and in the awake patient; and
3. Conduct intraoperative and perioperative assessment of sacral nerve functions.

3:15pm The Anatomy and Physiology of the Sacral Roots  
*Stanley Skinner, MD, FACNS*

3:40pm Intraoperative Neurophysiology in Sacral Chordoma Surgery  
*Mirela Simon, MD, MSs, FACNSC*

4:05pm The Diagnostic Accuracy of Neuromonitoring for Detecting Postoperative Bowel and Bladder Dysfunction in Spinal Oncology Surgery: A Comparative Analysis of Sacral Reflexes, EAS/EUS Motor Evoked Potentials and EAS/EUS s-EMG  
*Justin Silverstein, DHSc*

4:30pm Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SATURDAY, MARCH 1, 2025**

## **3144: The Use of Clinical Neurophysiology in Underrepresented and Underserved Populations in the USA and Mexico (JIS ACNS/ Sociedad Mexicana de Neurofisiología Clínica A.C. Joint Symposium)**

*Location: Essex A - C, 4th Floor*

Director: Alejandro Zavala, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Identify underrepresented and underserved groups in Mexico and the United States;
2. Describe what are the difficulties and challenges that these populations face in accessing clinical neurophysiologic care; and
3. To propose, using an interactive group format, possible strategies to bring neurophysiologic care to these underserved populations.

3:15pm Introduction and Definitions of Underrepresented and Underserved Populations

*Alejandro Zavala, MD, FACNS*

3:25pm Analyze the Possible Causes of Inadequate Access to Clinical Neurophysiology Care in USA

*Jaime R. López, MD, FACNS*

4:05pm Analyze the Possible Causes of Inadequate Access to Clinical Neurophysiology Care in Mexico

*Samantha Pineda, MD, FACNS*

**4:45– 5:00pm**

### **Coffee Break**

*Location: Grand Foyer, 3rd Floor*

**5:00 – 6:30pm CONCURRENT SESSIONS**

## **3151: Exploring Cognitive Mapping: Insights from Stereoelectroencephalography (SEEG)**

*Location: Grand Ballroom VI, 3rd Floor*

Director: Ammar Kheder, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the principles and applications of cognitive mapping with stereoelectroencephalography (SEEG) in the pre-surgical evaluation of patients with intractable epilepsy;
2. Describe advanced mapping approaches aimed at comprehensively assessing a broader range of cognitive functions, including language, memory, spatial skills, executive function, and socio-emotional processing, to optimize surgical planning and outcomes; and
3. Explore the intersection of emerging technologies with cognitive mapping and how new tools can be integrated into cognitive mapping. Special emphasis will be placed on the potential of virtual reality.

5:00pm Navigating the Brain: Principles and Applications of Cognitive Mapping with SEEG

*Ammar Kheder, MD, FACNS*

5:15pm Practical Approaches to Cognitive Mapping with SEEG

*Daniel Drane, PhD*

5:35pm Connecting Emerging Technologies to Cognitive Mapping

*Nigel P. Pedersen, MD*

5:55pm Integrating Mapping and Imaging Techniques for Enhanced Outcomes

*Thandar Aung, MD, MS*

6:15pm Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SATURDAY, MARCH 1, 2025**

## **3152: Course: Introduction to Clinical Magnetoencephalography (MEG) SA**

*Location: Grand Ballroom I - IV, 3rd Floor*

Director: Jeffrey R. Tenney, MD, PhD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Understand differences between MEG and EEG recordings;
2. Identify the common, evidence-based indications for MEG in epilepsy surgery; and
3. Describe the fundamentals of source localization and interpret a MEG report.

5:00pm Introduction  
*Jeffrey R. Tenney, MD, PhD, FACNS*

5:05pm How is it Different from EEG? – MEG Physics and Physiology  
*Susan Bowyer, PhD*

5:30pm When to Order MEG? - 10 Common, Evidence- Supported Indications for MEG in Epilepsy Surgery  
*Anto I. Bagic, MD, PhD, FACNS*

5:55pm What Should I Expect? – MEG Source Localization and Reporting  
*Allison Kostandy, MD*

6:20pm Discussion

## **3153: Course: Making Sense of Atypical Nerve Conduction Study and Needle EMG Waveforms**

*Location: Essex A - C, 4th Floor*

Director: Devon I. Rubin, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Explain the significance of atypical waveforms during nerve conduction studies;
2. Recognize atypical EMG waveforms based on patterns of firing of the waveforms; and
3. Describe technical factors that can produce atypical nerve conduction study and needle eMG waveforms.

5:00pm Interpreting Atypical Needle Electromyography Waveforms  
*Devon I. Rubin, MD, FACNS*

5:45pm Interpreting Atypical Nerve Conduction Study Waveforms  
*Christopher Lamb, MD*

## **3154: Personalization of Intracranial Neuromodulation Treatments in Epilepsy SA**

*Location: Grand Ballroom V, 3rd Floor*

Directors: Shruti Agashe, MD, MS-BME and Nicholas Gregg, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe potential patient- specific biomarkers and targeting in thalamic neuromodulation;
2. Evaluate customization in programming of RNS/DBS devices; and
3. Discuss special considerations for utilization of neuromodulation in pediatrics.

5:00pm Customization in Programming of RNS/DBS Devices  
*Shruti Agashe, MD, MS-BME*

5:25pm Personalization of DBS- Targeting and Biomarkers  
*Nicholas Gregg, MD*

5:50pm Neuromodulation in the Pediatric Population  
*Charuta Joshi, MD, MSCS*

6:15pm Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SUNDAY, MARCH 2, 2025**

**7:00am – 8:30am**

## Breakfast

Location: Grand Foyer, 3rd Floor

**8:00 – 9:30am CONCURRENT SESSIONS**

### **3201: Genetic and EEG Biomarkers of The Epileptogenic Zone** SA

Location: Grand Ballroom VI, 3rd Floor

Directors: Cody L. Nathan, MD and Elizabeth E. Gerard, MD, FACNS

#### Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the role of somatic mosaicism in focal epilepsy and the opportunities and challenges of accessing brain-limited somatic variants;
2. Explain how artificial intelligence can optimize the utility of high-frequency oscillations as a biomarker of the seizure onset zone; and
3. Discuss the potential value of aligning genetic and EEG biomarkers in defining the extent of the epileptogenic zone.

8:00am Introduction

*Cody L. Nathan, MD*

8:05am Somatic Mosaicism and Focal Epilepsy: An Overview

*Elizabeth E. Gerard, MD, FACNS*

8:30am Automated Detection of Intracranial EEG Biomarkers of the Seizure Onset Zone

*Nuri Ince, PhD*

8:55am The Promise of Aligning Genetic and EEG Biomarkers for Surgical Optimization

*Alica Goldman, MD, PhD*

9:20am Discussion

### **3202: Leveraging Neurophysiology Data from Neuromodulation Devices for Enhanced Clinical Decision-Making**

Location: Grand Ballroom V, 3rd Floor

Director: Ezequiel Gleichgerrcht, MD, PhD

#### Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Interpret local field potentials from DBS to improve patient outcomes;
2. Evaluate real-time and chronic use of ECoG data from RNS systems to enhance therapeutic strategies; and
3. Discuss the integration of neuromodulation device data into daily clinical practice and decision-making.

8:00am Optimizing DBS Therapeutics through Local Field Potential Data  
*Ezequiel Gleichgerrcht, MD, PhD*

8:25am Utilizing Live ECoG for Enhanced Responsiveness in Neurostimulation  
*Anli Liu, MD, MA*

8:50am Chronic ECoG Analysis for Informed Surgical and Therapeutic Decisions  
*Dr. Alexandra Parashos, MD*

9:15am Discussion

### **3203: Signal Optimization in Techniques for Intraoperative Neurophysiologic Monitoring**

Location: Grand Ballroom I - IV, 3rd Floor

Directors: Jaime R. López, MD, FACNS and Lidia Cabañes Martínez, MD, FACNS

#### Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Explain the best settings and methodology to obtain the most robust and reproducible transcranial motor evoked potentials;
2. Describe the best settings and methodology to obtain the most robust and reproducible somatosensory evoked potentials; and
3. Explain the best settings and methodology to obtain the most robust and reproducible reflexes.

8:00am Introduction

8:05am Transcranial Motor Evoked Potentials  
*Vizmary J. Montes Pena, MD, MS, CNIM, PhD*

8:30am Reflexes  
*Guillermo Martín-Palomeque, MD, FACNS*

8:55am Somatosensory Evoked Potentials  
*Aatif M. Husain, MD, FACNS*

9:20am Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SUNDAY, MARCH 2, 2025**

## **3204: Status Epilepticus Identification and Management in Special Pediatric Populations** SA

*Location: Essex A - C, 4th Floor*

Directors: France Fung, MD, MSc, FACNS and Nicholas S. Abend, MD, MSCE, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Review the clinical and EEG presentations of status epilepticus in neonates and children with genetic versus acute symptomatic etiologies;
2. Discuss risk factors for status epilepticus in neonates and children with genetic versus acute symptomatic etiologies; and
3. Explore treatment strategies for status epilepticus in neonates and children with genetic versus acute symptomatic etiologies.

8:00am Status Epilepticus in Children with Developmental and Epileptic Encephalopathies (DEE)

*France Fung, MD, MSc, FACNS*

8:25am Status Epilepticus in Critically Ill Neonates

*Janette Mailo, MD*

8:50am Status Epilepticus in Critically Ill Children with Febrile Infection-Related Epilepsy Syndrome (FIRES)

*Stuart Tomko, MD*

9:15am Discussion

**9:30 – 9:45am**

### **Coffee Break**

*Location: Grand Foyer, 3rd Floor*

**9:45 – 11:15am CONCURRENT SESSIONS**

## **3211: Best Practices and Workflow Models for Continuous EEG Monitoring in Critical Care, and their Effect on Patient Outcomes**

*Location: Essex A - C, 4th Floor*

Director: Magdalena Warzecha, BS, R.EEG/EP, CLTM, NA-CLTM, FASET

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe available tools and staffing models essential for effective continuous EEG monitoring;
2. Discuss specific factors crucial for selecting the optimal continuous EEG model for a facility, including personnel requirements, training needs, cost, technology prerequisites, and available vendor services; and
3. Demonstrate understanding of capabilities and limitations of each workflow model.

9:45am Introduction

9:50am The Value of Quantitative EEG in Critical Care Continuous EEG Monitoring

*Susan T. Herman, MD, FACNS*

10:15am The Role of Neuro-Analyst in Critical Care EEG Monitoring and Review of continuous EEG

*Hiba A. Haider, MD, FACNS, FAES*

10:40am Continuous EEG Monitoring- 24/7 Real-Time Technologist and On-Call Physician Coverage

*Anna Serafini, MD*

11:05am Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SUNDAY, MARCH 2, 2025**

## **3212: Controversies in the Surgical Management of Eloquent Cortex Epilepsies: Resection vs Neuromodulation**

*Location: Grand Ballroom I - IV, 3rd Floor*

Director: Asim Shahid, MD

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Describe the different practices pertaining to epilepsy surgery in the eloquent cortex;
2. Discuss the pros and cons of each of these practices and procedures; and
3. Select patients who are appropriate for one or the other management strategy.

9:45am Introduction

9:50am Case Presentation: Resection  
*Ahmad Marashly, MD*

10:15am Case Discussion: Neuromodulation  
*Charuta Joshi, MD, MSCS*

10:40am Resective Surgery vs Neuromodulation: A Neurosurgeon's Perspective  
*Irene Kim, MD*

11:05am Discussion

## **3213: Modification of Conventional Techniques for Intraoperative Monitoring of Nerve Roots and Peripheral Nerves: Posterior Root Muscle Response and Other Uses of High Voltage Electrical Stimulation**

*Location: Grand Ballroom V, 3rd Floor*

Directors: Lidia Cabañes Martínez, MD, FACNS and Alejandro Zavala, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Discuss the limitations of the standard IOM techniques for intraoperative monitoring of nerve roots and peripheral nerve structures in lumbosacral surgeries;
2. Explain the anatomical, physiological and methodological basis of Posterior/Anterior Motor Root responses and other similar IOM techniques; and
3. Recognize the differences between the different techniques through clinical cases.

9:45am Introduction

9:50am Intraoperative Neurophysiological Monitoring in Lumbosacral Spine and Its Limitations to Detect Peripheral Nerve Injuries  
*Samantha Pineda, MD, FACNS*

10:15am Anterior/Posterior Root Muscle Responses  
*Guillermo Martín-Palomeque, MD, FACNS*

10:40am Clinical Cases  
*Jaime R. López, MD, FACNS*

11:05am Discussion

# ANNUAL COURSES & ANNUAL MEETING SCIENTIFIC PROGRAM

**SUNDAY, MARCH 2, 2025**

## **3214: SEEG Implantation Strategy in Epileptic Patients: Illustrative Case Discussions** SA

*Location: Grand Ballroom VI, 3rd Floor*

Director: Jun T. Park, MD, FACNS

Learning Objectives:

At the conclusion of this activity, the learner will be able to:

1. Explain how a hypothesis of epileptogenic zone is formulated using the concepts of the five5 other zones;
2. Discuss how a hypothesis of epileptogenic zone is used to strategize intracerebral electrode placements; and
3. Discuss the concepts of SEEG.

9:45am Illustrative Case Discussion 1  
*Laurence Martineau, MD*

10:05am Illustrative Case Discussion 2  
*Roohi Katyal, MD*

10:25am Illustrative Case Discussion 3  
*Neel Fotedar, MD*

10:50am Introduction & Guiding Principles in the Use of SEEG: Discussion of Epileptogenic Zone & Five5 Other Zones and Their Application to Formulate Hypothesis of Epileptogenic Zone  
*Jun T. Park, MD, FACNS*

11:15am Discussion



**2025 ACNS ANNUAL MEETING AND COURSES**  
**BALTIMORE**



## Fill Your ACNS Exhibit Hall Crab Bucket

Collect crab stickers by visiting Exhibitors in the ACNS Exhibit Hall and fill your bucket for a chance to win!

Collect at least **6 stickers** and return this card to the Registration Desk before **Saturday, March 1 at 3:00pm** to be entered in the raffle.

Winners can choose from one of the following prizes:

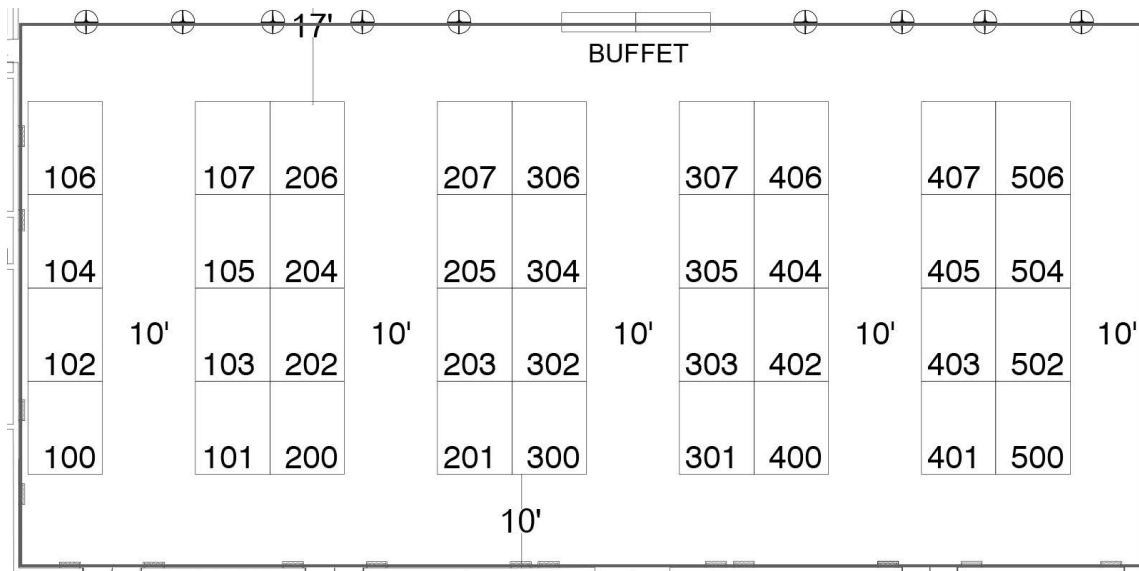
- Complimentary 2025-26 ACNS Membership
- Complimentary Registration for the 2026 Annual Meeting & Courses



Three winners will be selected and announced via social media after the meeting.



## EXHIBIT HALL & PRODUCT THEATERS



Location: Harborside Ballroom, 4th Floor

### Hours:

Thursday, February 27  
(Welcome Reception)  
6:30 - 8:00pm

Friday, February 28  
9:30am - 4:15pm

Saturday, March 1  
9:30am - 3:15pm

| Booth Number | Exhibitor   |
|--------------|---|
| 101          | Compumedics   |
| 102          | Jazz Pharmaceuticals                                  |
| 103          | ASET - The Neurodiagnostic Society                    |
| 104          | American Clinical MEG Society                         |
| 105          | American Board of Clinical Neurophysiology            |
| 106          | EB NEURO SPA  |
| 107          | ABRET Neurodiagnostic Credentialing and Accreditation |
| 200          | Neurotech, LLC  |
| 201          | Zeto, Inc.  |
| 202          | US Neuro  |
| 203          | Zeto, Inc.  |
| 204          | SpecialtyCare   |
| 205          | g.tec medical engineering GmbH                        |
| 206          | Next Gen Neuro  |
| 207          | Lifesync  |
| 300          | Nihon Kohden America                                  |
| 301          | Cadwell Laboratories, Inc.                            |
| 302          | Persyst Development                                   |
| 303          | DIXI Medical  |
| 304          | Consolidated Neuro Supply, Inc.                       |
| 305          | Stratus   |
| 306          | Natus   |
| 307          | Vituity   |
| 400          | Cadwell Laboratories, Inc.                            |
| 401          | Soterix Medical                                       |
| 402          | Neuroelectrics USA Corporation                        |
| 403          | Neuromonitoring Technologies                          |
| 404          | Aucta Pharmaceuticals                                 |
| 405          | inomed, Inc.  |
| 406          | Ceribell  |
| 407          | SK Life Science, Inc.                                 |
| 500          | American Board of Psychiatry and Neurology, Inc.      |

### 107

#### ABRET Neurodiagnostic Credentialing and Accreditation (ABRET)

<http://www.abret.org>

ABRET is the credentialing board for Electroencephalographic (EEG) Technologists, Evoked Potential (EP) Technologists, Neurophysiologic Intraoperative Monitoring (CNIM) Technologists, Long Term Monitoring (CLTM) Technologists, Autonomic Testing Professionals (CAP), Magnetoencephalography Technologists (CMEG), and NeuroAnalysts (NA-CLTM). Introducing a new microcredential in Complex Spine for CNIM technologists. Highlight your organization through lab accreditation, LAB-EEG, LAB-LTM, and LAB-IOM.

### 105

#### American Board of Clinical Neurophysiology (ABCN)

<http://www.abcn.org>

The American Board of Clinical Neurophysiology (ABCN) has a long history of promoting excellence in Clinical Neurophysiology. Examinations are available in General Clinical Neurophysiology, Epilepsy Monitoring, Neurophysiologic Intraoperative Monitoring, Critical Care EEG, and Pediatric EEG for physicians who have completed a qualifying Fellowship. International candidates are welcome. Online proctoring is available.

## EXHIBIT HALL & PRODUCT THEATERS

500

### American Board of Psychiatry and Neurology, Inc. (ABPN)

<http://www.abpn.org>

The American Board of Psychiatry and Neurology (ABPN) serves the public interest and the professions of psychiatry and neurology by promoting and assessing the competence of psychiatrists and neurologists and by establishing standards for initial and continuing certification programs.

104

### American Clinical MEG Society (ACMEGS)

555 E. Wells Street  
Suite 1100  
Milwaukee, Wisconsin 53202  
<http://www.acmegs.org>

ACMEGS supports MEG centers in delivering quality comprehensive care to people with neurological disorders, by setting standards of care, advocating for access to high quality MEG center services, and providing education, knowledge, and other resources to its member centers.

103

### ASET - The Neurodiagnostic Society

<http://www.aset.org>

ASET is the essential organization for Neurodiagnostic professionals. ASET provides its 7,700 members world-class education and training in both in-person and online environments, including the premier neurodiagnostic technology journal, "The Neurodiagnostic Journal". Members also develop their careers through a unique community where professional advancement is fostered through a host of opportunities to connect and learn from colleagues. Discover the benefits of membership and how your Neurodiagnostic team can contribute to the advancement of neurodiagnostics. Join us in our mission to make a lasting impact on the field and elevate the standard of care for patients worldwide.

404

### Aucta Pharmaceuticals

<http://AuctaPharma.com>

Aucta Pharmaceuticals is a formulation-focused pharmaceutical company with a strong emphasis in precision dosage forms with a focus in CNS disorders. Aucta is excited to exhibit our first branded product, Motpoly XR which is a once-a-day formulation of lacosamide.

301/400

### Cadwell Laboratories, Inc.

909 N Kellogg Street  
Kennewick, Washington 99336  
<http://www.cadwell.com>  
[info@cadwell.com](mailto:info@cadwell.com)

Cadwell designs sophisticated neurological solutions for leading healthcare institutions across the globe. We are focused on neurophysiology products and related electrodes, supplies and accessories. Our portfolio is ever-evolving to meet the needs of our customers. Our EEG, EMG/NCS/EP/US and SLEEP systems are streamlined for workflow efficiency and ease of use. Our industry-leading IONM systems help accelerate learning and teaching. We provide quality equipment, streamlined workflows, and industry-leading support to help you help others. Visit us at [www.cadwell.com](http://www.cadwell.com).

406

### Ceribell

2483 Old Middlefield Way  
Suite 120  
Mountain View, California 94043  
<http://ceribell.com/index.html>  
[EEG@ceribell.com](mailto:EEG@ceribell.com)

Ceribell Point-of-Care EEG empowers neurologists to efficiently expand EEG coverage across the hospital without over-extending their team. Continuous 24/7 seizure burden monitoring, real-time alerts, and remote access for EEG reads, anytime on any device, reduce the burden of STAT and afterhours EEG coverage on neurology and neurodiagnostic departments. Improve and streamline patient care in your hospital with Ceribell.

101

### Compumedics

5015 West WT Harris Blvd  
Suite E  
Charlotte, North Carolina 28269  
<http://compumedics.com>

Compumedics offers innovative solutions for neuro-diagnostics ranging from Routine EEG studies to Long-Term-Monitoring. The "Curry" neuroimaging software suite, paired with Compumedics' high density recording systems, helps optimize patient outcomes in Level 3/4 Epilepsy centers. The neXus 360 data management system provides web-based and remote physician access from any device with internet access. By defining life's signals, our technology turns vast amounts of data into valuable information that leads to a more accurate diagnosis and consequently more effective therapy for some of the most serious health conditions.

## EXHIBIT HALL & PRODUCT THEATERS

304

### **Consolidated Neuro Supply, Inc.**

<http://www.neurosupply.com>

Located in the heart of the technology district in Milford, OH, Consolidated Neuro Supply Inc. is a leading provider of health care products used to diagnose neurological disorders and monitor critical neurological structures during high-risk surgical procedures. With 20+ years of experience we continue to provide our customers with quality health care products while maintaining our focus on service and value. Product offerings include EMG needle electrodes, EEG electrodes, subdermal needle electrodes, pedicle screw and direct nerve stimulators.

303

### **DIXI Medical**

11910 Fox Ridge Drive  
Plymouth, Michigan 48170  
<http://www.diximedus.com>  
[sales@diximedus.com](mailto:sales@diximedus.com)

DIXI Medical - a world-leader in SEEG since 1975 is a designer and manufacturer of medical devices for functional and stereotactic neurosurgery for the treatment of epilepsy. MICRODEEP® - the original SEEG depth electrode is available with 5 - 18 platinum contacts and is used in leading epilepsy programs world-wide. Stop by booth 303 and learn more about DIXI Medical's SEEG advantages or email [info@diximedus.com](mailto:info@diximedus.com)

106

### **EB NEURO SPA**

<http://ebneuro>

Founded in 1998, EBNeuro stands as a distinguished Italian company at the forefront of medical systems, specializing in cutting-edge neurodiagnostic solutions. EBNeuro boasts a comprehensive range of neurodiagnostic products, including state-of-the-art systems for EEG, EMG, TMS, nTMS and rTMS navigated. These systems are designed to monitor and diagnose brain and muscle electrical activity, providing valuable insights for medical professionals. Established since 1998, it has garnered international recognition for delivering advanced and reliable solutions to the medical and scientific communities. Our commitment to quality and innovation has allowed us to establish a strong global presence, serving healthcare professionals worldwide.

205

### **g.tec medical engineering GmbH**

<http://www.gtec.at>

g.tec is a leading innovator in neurotechnology, specializing in advanced solutions for neuroscience and neurorehabilitation. The latest FDA-cleared cortiQ system offers real-time high-gamma neural activities, empowering researchers with unprecedented insights into functional brain mapping. Complementing this, g.tec's neuromodulation systems, including FDA-cleared stimulators and switching units, provide precise and customized control over electrical stimulation, and sEEG&ECOG recordings for clinical and research applications. These cutting-edge technologies enable researchers and clinicians to explore the complexities of the brain, paving the way for new treatments and interventions.

405

### **inomed, Inc.**

<http://us.inomed.com/>

Since 1991, inomed has developed and manufactured state-of-the-art products and treatments for customers working in the fields of intraoperative neuromonitoring (IONM), functional neurosurgery, pain therapy and neurological diagnostics. We help our customers provide safe and successful surgeries for their patients. In order to ensure the highest quality of service, we offer our customers a comprehensive package consisting of development and manufacturing to German quality standards, worldwide distribution, on-site services and educational classes. inomed Inc. is a subsidiary based out of Chicago IL, providing inomed's unparalleled services to the United States.

102

### **Jazz Pharmaceuticals**

<https://www.jazzpharma.com/>

At Jazz Pharmaceuticals, our purpose is to innovate to transform the lives of patients and their families. We are focused on developing life-changing medicines for people with serious diseases — often with limited or no options — so they can live their lives more fully. By transforming biopharmaceutical discoveries into novel medicines, we are working to give people around the world the opportunity to redefine what's possible — to make the "small wins" big again.

## EXHIBIT HALL & PRODUCT THEATERS

207

### Lifesync

<http://www.lifesync.com/>

LifeSync, featuring its trusted Rochester brand, offers a comprehensive portfolio of high-quality neurodiagnostic products designed to improve patient testing and care across multiple neurophysiology procedures. For over 50 years, healthcare providers have trusted Rochester's innovative solutions, including EEG Disposable Gold Cup electrodes and EMG needles, to deliver exceptional patient comfort, superior signal quality, and highly accurate test results. Our products are competitively priced, readily available in stock, and ship quickly to meet your needs.

306

### Natus

<http://www.natus.com>

Natus delivers advanced technology and market-leading solutions across the full spectrum of neuro care. Since 1935 we have been committed to advancing the quality of patient care in the fields of EEG, EMG, EP, ICU, Neurocritical Care, IOM, LTM, Sleep, research and application products. Natus is recognized by healthcare providers as the solution source to screen, diagnose, and treat disorders affecting the brain and neural pathways. For more information, please visit [natus.com](http://natus.com).

402

### Neuroelectrics

210 Broadway

Suite 201

Cambridge, Massachusetts 02139

<http://www.neuroelectrics.com>

[info@neuroelectrics.com](mailto:info@neuroelectrics.com)

Neuroelectrics unlock the power of computational neuroscience to treat brain disorders. Pioneering non-invasive tech for personalized neuromodulation, aiming to restore brain health & improve lives. Starstim® is our comprehensive, wireless system offering simultaneous brain stimulation and monitoring, ideal for precise multi-focal tES-EEG research with 8, 20, and 32 channels. Its intuitive interface simplifies protocol design and real-time visualization, making it perfect for double-blinded studies. Enobio® is a versatile, wireless EEG system designed for both basic and advanced research. Featuring 8, 20, and 32 channels, it ensures precise data recording, is CE-certified in Europe, and FDA-approved in the USA.

403

### Neuromonitoring Technologies

<http://www.neuromonitoringtechnology.com>

24/7/365 Continuous EEG Services Immediate Care of ICU/EMU patients for improved outcomes Neuromonitoring Technologies provides continuous "eyes-on" video EEG using telemedicine technology with the required 4/1 patient to ABRET® R.EEG T. & CLTM technologist ratio. Critical conditions (seizures, ischemia) require rapid recognition for immediate treatment that directly affects the course of an illness and the length of a hospital stay. NMT's highly experienced, technologists, have proven success in correlating EEG, cardiovascular and hemodynamic parameters with clinical findings for immediate intervention by the in-house neurologist.

200

### Neurotech, LLC

626 W. Moreland Blvd

Waukesha, Wisconsin 53188

<http://www.neurotecheeg.com>

[vwolfe@neurotecheeg.com](mailto:vwolfe@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.

206

### Next Gen Neuro

3042 S County Road

475 East

Plainfield, Indiana 46168

<http://www.teamngn.com>

[info@teamngn.com](mailto:info@teamngn.com)

Next Gen Neuro (NGN) is a women and certified veteran-owned organization. We provide high quality, affordable EEG/cEEG services. Our passion is to seek opportunities to help all patient populations, with a special commitment to the most vulnerable patients and the most challenged areas of neurodiagnostic service coverage. We offer Real-Time Continuous Monitoring, Retrospective Review, Intermittent Clinical and Technical Review, Reading Physicians, and NeuroAnalyst services. Specializing in EMU & ICU, Neonatal, Pediatric, Adult and Intracranial Monitoring. We are the Next Generation of Partnership in Neurodiagnostic Care. Let us provide a tailored solution for your needs today.

## EXHIBIT HALL & PRODUCT THEATERS

300

### **Nihon Kohden America**

15353 Barranca Parkway  
Irvine, California 92618  
<http://us.nihonkohden.com/>  
[info@nihonkohden.com](mailto:info@nihonkohden.com)

Nihon Kohden is a leading medical technology company dedicated to advancing patient care through innovative solutions. With a rich history of over 70 years, Nihon Kohden has become a global leader in precision medical devices, specializing in interconnected heart-lung-and-brain care. Nihon Kohden is known for its pioneering work, including the development of the world's first AC-powered electroencephalogram (EEG) and contributions to the invention of pulse oximetry. They partner closely with healthcare professionals to transform care delivery and improve patient outcomes with reliable and intuitive technologies.

302

### **Persyst Development**

420 Stevens Avenue  
Suite 210  
Solana Beach, California 92075  
<http://www.persyst.com/>  
[tradeshows@persyst.com](mailto:tradeshows@persyst.com)

Persyst is the worldwide leader in EEG software. As standard of care, 211 of 233 members of the National Association of Epilepsy Centers use Persyst EEG monitoring and review. Similarly, 97 of 100 top U.S. Neurology hospitals use Persyst for EEG monitoring and review. Persyst is the only EEG trending and detection software integrated, sold & supported by every major EEG manufacturer.

407

### **SK Life Science, Inc.**

<https://www.sklifescienceinc.com>

SK Life Science is a pharmaceutical company based in New Jersey. It is a subsidiary of SK Biopharmaceuticals, a South Korean company with more than 30 years of experience in research and development. Together, we are dedicated to changing the status quo in the treatment of central nervous system (CNS) disorders by developing innovative treatments designed to meet the needs of people living with seizure disorders. For more information, please visit [SKLifeScienceInc.com](http://SKLifeScienceInc.com).

401

### **Soterix Medical**

<http://soterixmedical.com>

Soterix Medical is a global leader in Noninvasive Neuromodulation and Neuromonitoring technologies. Founded in 2008, Soterix Medical is committed to bringing the most advanced medical technology into the hands of people who need it. Soterix Medical launched its first 510(K) cleared intraoperative monitoring solution called MEGA-IOM leveraging its expertise in developing highly reliable, usable, and flexible systems. MEGA-IOM provides unmatched higher amplitude, longer stimulus duration, and incorporates the best-in-class amplifier specifications. It is a one-stop comprehensive solution for the operating room.

204

### **SpecialtyCare**

3 Maryland Farms  
Suite 200  
Brentwood, Tennessee 37027  
<http://www.specialtycareus.com>  
[brittini.dugnaski@specialtycare.net](mailto:brittini.dugnaski@specialtycare.net)

SpecialtyCare is the nation's leader in operating room services because we consistently help generate better outcomes for the hospitals we partner with. Whether it's cardiac surgery, surgeries requiring neurological monitoring or through our suite of surgical specialties, we offer an ecosystem of support that maximizes OR output and helps minimize risk. When hospitals partner with us, they are not getting a vendor or a tool – they are getting a deep well of human expertise backed by some of the best training and resources available anywhere.

305

### **Stratus**

4545 Fuller Drive  
Suite 100  
Irving, Texas 75038  
<http://www.stratusneuro.com>  
[contact@stratusneuro.com](mailto:contact@stratusneuro.com)

Stratus is the leading provider of EEG solutions in the United States and offers global EEG technology via our Stratus EEG software. We strive to create EEG services that help healthcare systems and clinicians improve care efficiency, diagnostic information, and the patient experience. Stratus offers an array of EEG solutions, from ICU and EMU monitoring to our world-class EEG review software, ambulatory VEEGs with pruned data, and other custom EEG solutions to fit your needs. We also provide EEG solutions for centralized and decentralized clinical trials, biomarker detection, and over 4 million hours of anonymized EEG data.

## EXHIBIT HALL & PRODUCT THEATERS

506

### UCB

[www.ucb-usa.com/](http://www.ucb-usa.com/)

At UCB, we come together everyday laser-focused on a simple question: How will this create value for people living with severe diseases? We are a global biopharmaceutical company committed to innovation to improve the lives of people with neurological and immunological diseases, finding solutions to meet their unique needs.

202

### US Neuro

<http://usneuro.net>

US Neuro provides Neurodiagnostic services throughout the country currently servicing 16 states. Services include IONM, and EEG.

307

### Vituity

<http://www.vituity.com/careers/>

For 50 years, Vituity has driven positive change in the business and practice of healthcare. All of our 5,000+ clinicians across 450 practices are essential in our mission to transform care delivery and improve lives. Learn more about rewarding neurology careers at [vituity.com/careers](http://vituity.com/careers).

201/203

### Zeto, Inc.

2336 Park Avenue

Santa Clara, California 95050

<https://zeto-inc.com/>

[Johnlynch@zetoinc.com](mailto:Johnlynch@zetoinc.com)

Zeto, Inc., an award-winning medical technology company, is at the forefront of advancing EEG brain monitoring and diagnostics in healthcare. Through its innovative wearable devices, Zeto makes brain monitoring accessible in diverse clinical settings, including the ICU, ED, hospitals, offices, and at home. Backed by a powerful cloud-based platform, Zeto delivers nationwide monitoring and interpretation services by neurologists, along with AI-driven notifications for conditions such as seizures and epilepsy. Zeto's EEG systems, WR19 and ONE, FDA-cleared in 2018 and 2024 respectively, are now available in over 200 healthcare facilities across the United States.

## PRODUCT THEATERS NON CME

Friday, February 28, 2025

1:15 - 2:15pm

Lunch will be provided by ACNS and is not reportable according to the Sunshine Act.

### Zeto ONE: The Newest Full-Montage, Rapid EEG Headset with Video and AI-Powered Seizure Detection

**Presented by: Zeto, Inc.**

*Location: Grand Ballroom IX - X, 3rd Floor*

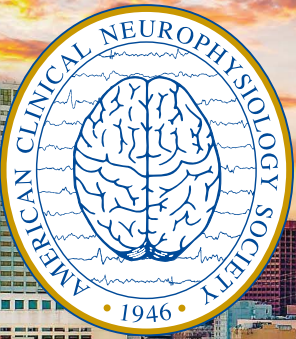
Zeto, Inc. will showcase and provide a live demonstration of their new product, Zeto ONE, which is FDA-cleared for use in ICU, ED, ambulances, air transport, and even home settings. It's a great opportunity to see how Zeto ONE can elevate patient care in in acute care environments.

### Consensus Panel Recommendations for the Optimization of EPIDIOLEX<sup>®</sup> (cannabidiol) Treatment

**Presented by: Jazz Pharmaceuticals**

*Location: Dover, 3rd Floor*

Join Jazz Pharmaceuticals for an educational program to discuss the new consensus recommendations on the optimization of EPIDIOLEX treatment, including best practices, ways to approach treatment resistant patients, and dosing strategies for EPIDIOLEX initiation and maintenance.



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**New Orleans**

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