2024 ACNS Annual Meeting & Courses

Orlando FLORIDA

FEBRUARY 28 - MARCH 3, 2024

RENAISSANCE ORLANDO AT SEAWORLD

Final Program

TABLE OF CONTENTS

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 gratefully acknowledges the following donors to the Strategic Fund. The Society thanks these donors for their commitment to ACNS and its mission "to serve patients and society by empowering members to advance the science, practice and profession of clinical neurophysiology.

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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, Sarah Dyczewski, at **sarah.dyczewski@specialtycare.net .**
We can't wait to meet you!

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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, March 1 from 1:15 - 2:45pm in Oceans Ballroom 3-4, 1st floor.

COURSE HANDOUTS

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

HEALTH & SAFETY

ACNS strongly encourages full vaccination of all meeting attendees, including booster doses, when appropriate and applicable. Masking is optional during the Annual Meeting & Courses sessions and social functions.

Those who test positive for COVID or exhibit symptoms are encouraged to remain at home and follow CDC guidelines for testing, isolation, and masking.

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: Renaissance_CONFERENCE

Password: ACNS2024

MOBILE APP

Make the most of your conference experience with the ACNS 2024 Annual Meeting & Course Mobile App!

1. Download the eventScribe App: Go to the App Store or Google Play and search for **eventScribe**.
2. Login to the App: If you already have an account, loin with your username (email) and password (access key) otherwise create an account. Use **Event Code ACNS2024** to enter the app

POSTER PRESENTATIONS

Poster presentations will be in the Exhibit Hall on Thursday, February 29, 11:15am - 12:45pm and Friday, March 1, 11:15am - 12:45pm. Poster abstracts and presentation dates can be found in 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*.

REGISTRATION DESK

Location: Oceans Ballroom Foyer, 1st Floor

Hours:

Wednesday, February 28	12:00 - 6:00pm
Thursday, February 29	7:00am - 6:00pm
Friday, March 1	7:00am - 6:00pm
Saturday, March 2	7:00am - 5:00pm
Sunday, March 3	7:00 - 10:00am

SPEAKER READY ROOM

Location: Labrid, 2nd 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:

Wednesday, February 28	12:00 - 6:00pm
Thursday, February 29	7:00am - 6:30pm
Friday, March 1	7:00am - 6:30pm
Saturday, March 2	7:00am - 6:30pm
Sunday, March 3	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 POLICY

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 this 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) so that we can take the appropriate action.

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

MEETING SPACE FLOORPLANS

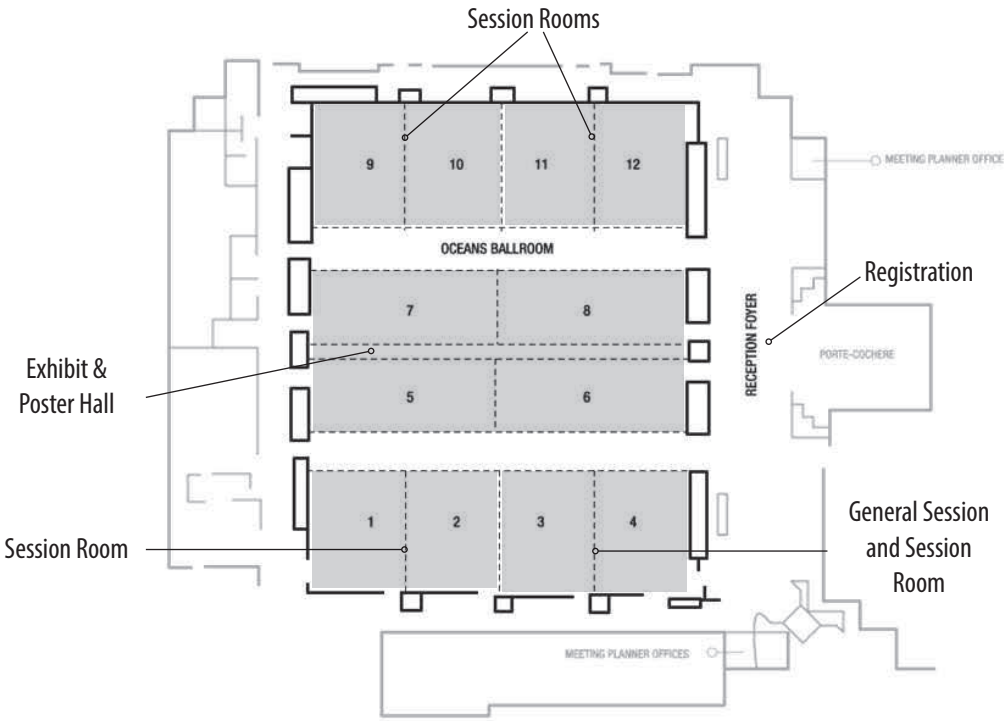
FIRST FLOOR

Oceans Ballroom

Session Rooms:
Oceans Ballroom 1-2,
Oceans Ballroom 9-10, and
Oceans Ballroom 11-12

General Session and Session Room:
Oceans Ballroom 3-4

Exhibit & Poster Hall:
Oceans Ballroom 5-8



SECOND FLOOR

Speaker Ready Room:
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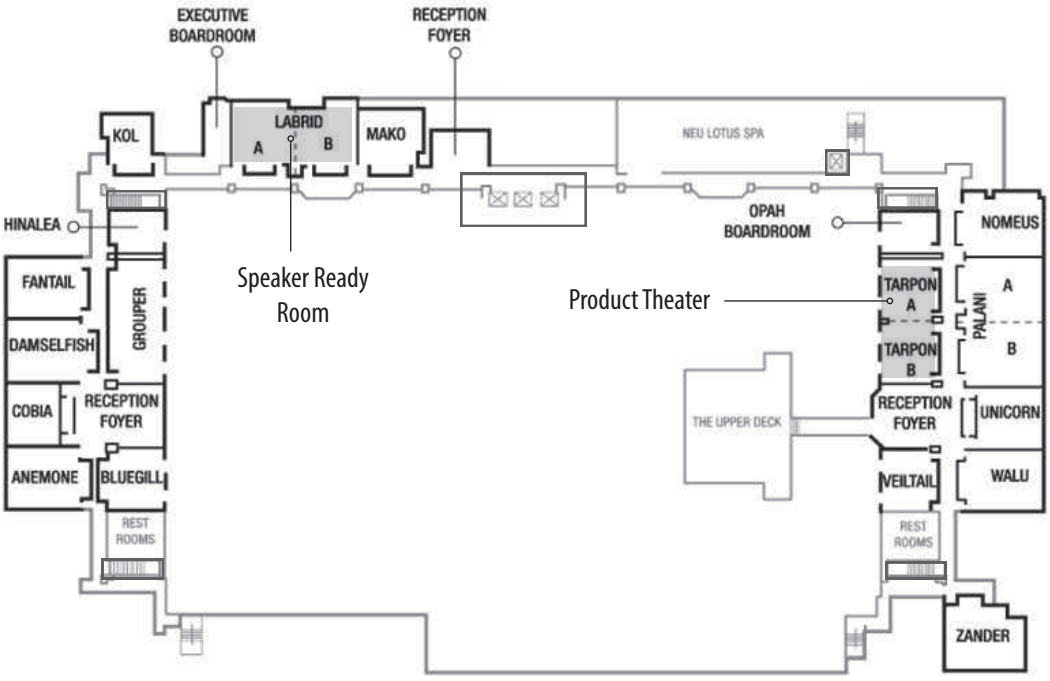

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

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, the participant will be able to:

1. Describe the indications for use of clinical neurophysiology techniques in diagnosis of disorders of the nervous system;
2. Incorporate new neurophysiology procedures and technological advances into his/her own clinical practice; and
3. Perform and interpret a broad range of clinical neurophysiology procedures, and integrate the results of these tests into comprehensive patient management plans;
4. Discuss recent advances in electroencephalography, evoked potentials, ALS, magnetoencephalography, practice technologies, nerve conduction studies and other clinical neurophysiology techniques; and
5. 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 30.5 *AMA PRA Category I Credit(s)*™. 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 32.5 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.

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

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.

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). 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.

FINANCIAL RELATIONSHIP DISCLOSURE

Name	Organization	Role	Financial Relationships*
Nicholas S. Abend, MD, MSCE, FACNS	CHOP / UPenn	Planner, Speaker	No Relationships
Jayant N. Acharya, MD, DM, FACNS, FAES, FAAN	Southern Illinois University School of Medicine	Planner	No Relationships
Pegah Afra, MD, FACNS	UMass Chan Medical School	Planner, Speaker, Reviewer	Livanova (a)
Shruti Agashe, MD, MS, BME	Duke University	Planner, Speaker	No Relationships
Halley B. Alexander, MD, FACNS	Wake Forest Baptist Health	Planner	No Relationships
Sasha Alick-Lindstrom, MD, FACNS, FAES, FAAN	University of Texas Southwestern	Planner, Speaker, Reviewer	No Relationships
Edilberto Amorim, MD	University of California, San Francisco	Planner, Speaker	No Relationships
Eric Anderson, MD, PhD, MBA	Synapticure	Speaker	No Relationships
Katherine M. Anetakis, MD	University of Pittsburgh Medical Center	Speaker	No Relationships
Ravindra Arya, MD, DM, FACNS	Cincinnati Children's Hospital Medical Center	Speaker	No Relationships
Kapil Arya, MD, MBBS, FAAP, FANA, FACNS	Arkansas Children's Hospital	Planner, Reviewer	Genentech (e); Novartis Pharmaceuticals (e)
Abbas Babajani-Feremi, PhD	University of Florida	Speaker	No Relationships
Patricia Bacus, MD	University of Kentucky College of Medicine	Speaker	No Relationships
Anto I. Bagic, MD, PhD, FAES, FACNS	University of Pittsburgh/UPMC	Speaker	No Relationships
Giulia Benedetti, MD	C.S. Mott Children's Hospital and University of Michigan	Speaker	No Relationships
Sandor Beniczky, MD, PhD, FACNS	Danish Epilepsy Centre & Aarhus University	Speaker	Eisai (d); Lunbeck (d); Natus Neuroscience (d); UCB (d); UNEEG (b)
Meriem Bensalem-Owen, MD, FACNS	University of Kentucky College of Medicine	Planner, Reviewer	NeuroPace (a)
Adriana Bermeo-Ovalle, MD, FACNS, FAES	Rush University Medical Center	Planner	No Relationships
William Bosl, PhD, FACNS, FAMIA	Boston Children's Hospital, Harvard Medical School	Planner	No Relationships
Susan Bowyer, PhD	Henry Ford Hospital	Speaker	No Relationships
Deborah Briggs, MD, FACNS	Ascension-Texas Neurology/UT-Dell Medical School	Speaker	No Relationships

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Name	Organization	Role	Financial Relationships*
Stephen W. Briggs, MD, PhD	Montefiore Medical Center	Planner	No Relationships
Jeffrey W. Britton, MD, FACNS	Mayo Clinic	Planner	SEER Medical (g)
Mark Bromberg, MD, PhD	University of Utah	Planner, Speaker	Accordant Health (b); Alexion (d); Grifols (d); Takeda (d)
María Bruzzone Giraldez, MD, MSCR, FACNS	University of Florida	Planner, Speaker	No Relationships
Katie Bullinger, MD, PhD	Emory University	Planner	Neuropace (a)
Tyon Burghardt, MD	Michigan State University	Reviewer	Xenon Pharmaceuticals Inc (a)
Lidia Cabañes-Martínez, MD, FACNS	Hospital Ramón y Cajal (Madrid)	Planner, Speaker	No Relationships
Maureen P. Carroll, REEG, EPT, RPSGT, CNIM	ASET-The Neurodiagnostic Society	Planner	No Relationships
Lauren Cazares	ACNS	Planner	No Relationships
Felix Chang, MD	Stanford University School of Medicine	Speaker	No Relationships
Patrick Y. Chauvel, MD	University of Pittsburg	Speaker	No Relationships
Regine Choe, PhD	University of Rochester	Speaker	No Relationships
Jean E. Cibula, MD, FACNS	University of Florida	Speaker	3M (c); Baxter Healthcare (c); Eli Lilly (c); General Electric (c); Merck (c); Organon (c); Pfizer (c); Proctor & Gamble (c); Viatris (c); Welltower (c)
Benjamin Cox, MD	University of Alabama, Birmingham	Speaker	No Relationships
Amy Crepeau, MD, FACNS	Mayo Clinic	Planner	No Relationships
Elizabeth M. Davenport, PhD	University of Texas Southwestern Medical Center	Speaker	MEGIN Oy (b)
Patrick Davis, MD, PhD	Boston Children's Hospital	Speaker	Neu Life (b, c)
Elliot Dimberg, MD, FAAN, FACNS	Mayo Clinic Arizona	Planner	No Relationships
Frank W. Drislane, MD, FACNS	Beth Israel Deaconess, Boston	Planner, Reviewer	Eli Lilly Co. (b)
Barbara Dworetzky, MD	Brigham and Women's Hospital	Speaker	No Relationships
Hanan M. El Shakankiry, MD, PhD	University of South Alabama	Reviewer	No Relationships
Dawn Eliashiv, MD, FACNS	David Geffen School of Medicine at UCLA	Reviewer	Eisai (d); Medtronic (a, d); Neurilis (e); Neuropace (a, d); SK Life Science (d); UCB Biopharma (d)
Ronald Emerson, MD, FACNS	Hospital for Special Surgery, Weil Cornell Medical Center	Speaker	Amgn (c); Bristol Meyers Squibb (c); Eli Lilly (c); General Electric (c); Ice Neurosystems (c); Johnson & Johnson (c); Neuropace (c); Pfizer (c); Quality Care Products (c); Thermo Fisher (c)
Victor Ferastraoaru, MD, FACNS	Montefiore Medical Center, Albert Einstein College of Medicine	Planner	No Relationships
Victoria Fernandez, MD, PhD, FACNS	Head of Clinical Neurophysiology Service, Intraoperative Unit, Hospital Regional Universitario de Málaga	Speaker	No Relationships
Robert Fleischmann, MD	University Medicine Greifswald	Speaker	No Relationships
Stephen Foldes, PhD	Barrow Neurological Institute	Speaker	No Relationships

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Name	Organization	Role	Financial Relationships*
Nancy Foldvary-Schaefer, DO, MS	Cleveland Clinic	Speaker	Harmony Biosciences (a); Jazz Pharmaceuticals (a, e); SK Life Science (a); Takeda Pharmaceuticals (a); Vanda Pharm (a)
Brandon Foreman, MD, MS, FACNS, FNCS	University of CIncinnati Medical Center	Speaker	Ceribell, Inc. (b, g); Marinus Pharmaceuticals (a, e, g); Natus Medical Inc. (g); Sage Therapeutics, Inc. (e); UCB Pharma (b, d)
Neel Fotedar, MD	University Hospitals Cleveland Medical Center	Speaker	No Relationships
Marcondes França Jr, PHD	UNICAMP	Planner, Speaker	Biogen Inc. (a); La Hoffmann Roche (d, e); Pfizer (a, d, e); PTC Therapeutics (a, d, e)
Birgit Frauscher, MD, PhD	Duke University Medical Center	Speaker, Planner	Eisai Canada (a, d, e); Paladin Canada (d, e); UCB Canada (d); UNEEG (e)
Brin Freund, MD	Mayo Clinic Florida	Speaker	No Relationships
France Fung, MD, MSc, FACNS	University of Pennsylvania/Children's Hospital of Philadelphia, Dept of Neurology and Pediatrics	Planner, Speaker	No Relationships
Gloria M. Galloway, MD, MBA, FABEM, FACNS	Ohio State Wexner Medical Center	Speaker	No Relationships
Rishi Ganesan, MBBS, MD, DM, FACNS	Western University, London	Planner, Speaker	No Relationships
Jose Antonio Garbino, PhD, MD	Lauro de Souza Lima Research Institute	Speaker	No Relationships
Paul S. Garcia, MD, PhD	Columbia University	Speaker	Columbia Tech Ventures (g)
Naiara Garcia-Losarcos, MD	University Hospitals / Case Western Reserve University	Speaker, Planner	No Relationships
Nicolas Gaspard, MD	The Brussels University Hospital	Speaker, Planner	Angelini Pharma (a); UCB Pharma (d, e)
Elizabeth Gerard, MD	Northwestern University, Comprehensive Epilepsy Center	Reviewer, Planner	Xenon Pharmaceuticals (a, e)
Emily Gilmore, MD, MS, FNCS, FACNS	Yale School of Medicine	Speaker	carpl.ai (b)
Ezequiel Gleichgerrcht, PhD, MD	Emory University	Planner	No Relationships
David Gloss, MD, FACNS	The Neuromedical Center, Baton Rouge, LA	Speaker, Planner	No Relationships
Carolina Gorodetsky, MD	The Hospital for Sick Children	Speaker	Ipsen (b); Medtronic (b, e)
Nicholas Gregg, MD	Mayo Clinic Rochester	Planner, Speaker	NeuroOne (b)
Madeleine M. Grigg-Damberger, MD, FACNS	University of New Mexico	Planner, Speaker	No Relationships
Robert E. Gross, MD, PhD	Rutgers Robert Wood Johnson Medical School	Presenter	Abbott Labs (b); AskBio (b); Bayer AG (b, e); BlueRock (b, e); Boston Scientific (a, b); Iota (b); Medtronic (a, b); NAMSA (b); Neuralink (e); Neuropace (a); Nia Therapeutics (c); Sensoria (b)
Rejean Guerriero, MD	Washington University School of Medicine	Reviewer	No Relationships

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Name	Organization	Role	Financial Relationships*
James J. Gugger Jr., MD, PharmD	University of Pennsylvania	Reviewer	No Relationships
Olivia Gutgsell, MD	Rush University Medical Center	Speaker	No Relationships
Cecil D. Hahn, MD, MPH, FACNS	The Hospital for Sick Children, University of Toronto, Canada	Planner, Speaker, Reviewer	Holberg EEG (b); Takeda Pharmaceuticals (a, b); UCB Biopharma (a, b)
Hiba A. Haider, MD, FACNS, FAES	University of Chicago	Speaker, Planner, Reviewer	No Relationships
Abeer J. Hani, MD, FACNS	Lebanese American University	Reviewer	No Relationships
Aline Herlopian, MD	Yale University	Planner, Speaker	No Relationships
Susan T. Herman, MD, FACNS	Barrow Neurological Institute	Speaker	Bioserenity (b); CRE Medical (a); Marinus Pharmaceuticals (a); Neuroelectrics (a)
Megan M. Hille, CMP, CAE	ACNS	Planner	No Relationships
Lawrence J.Hirsch, MD, FACNS	Yale University	Planner, Speaker	Accure (b); Ceribell (b); Eisai (b); Gilead (b); Marinus (b); Natus (b, d); Neurelis (b, e); Neuropace (b, d); Rafa Laboratories, LTD (b); UCB (b, d, e); Vial Health (b)
Matt Hoffman, DO, PhD, FACNS	Mayo Clinic	Planner, Speaker	No Relationships
Hanan Hosney, MD	Beni-Suef University	Speaker	No Relationships
Christine Hung, MD	Montefiore Medical Center/Albert Einstein College of Medicine	Planner	No Relationships
Aatif M. Husain, MD, FACNS	Duke University	Planner, Speaker	UCB Biopharma (e)
Ayatallah F. Hussein, MD	Cairo University	Planner, Speaker	No Relationships
Ann Hyslop, MD, FACNS	Stanford University School of Medicine	Reviewer	Jazz Pharmaceuticals (d, e); Marinus Pharmaceuticals (d, e); Supernus (e)
Joonas Iivanainen, PhD	Aalto University	Speaker	Hyperfine (c); Pfizer (c): Philips, Inc. (c)
Akio Ikeda, MD, PhD, FACNS	Department of Epilepsy, Movement Disorders and Physiology, Kyoto University Graduate School of Medicine	Reviewer	Eisai Pharmaceuticals (g); Nihon Kohden Corp (g); UCB Japan Co (g)
Mohammed Ilyas, MD, FACNS	University of Missouri-Kansas City	Reviewer	No Relationships
Monica PIslam, MD, FACNS	Nationwide Children's Hospital/ The Ohio State University	Reviewer	Abbott Inc. (c); AbbVie Pharmaceuticals (c); Eli Lilly Co. (c); Pfizer (c)
Ryan Jacobson, MD	Rush University Medical Center	Speaker	No Relationships
Giridhar Kalamangalam, MD, DPhil, FACNS	Division of Epilepsy, Department of Neurology, University of Florida	Planner	No Relationships
Gregory Kapinos, MD, MS	Icahn School of Medicine at Mount Sinai	Speaker	No Relationships
Sukriye Damla Kara Barnes, MD	University of Mississippi Medical Center Department of Neurology	Speaker	No Relationships
Ioannis Karakis, MD, PhD, MSc, FACNS	Emory University	Planner	GlaskoSmithKline (b)
Roohi Katyal, MD	Louisiana State University Health Shreveport	Speaker	No Relationships
Linda Kelly, MS,R.EEG/EPT.,CSSGB	ASET- The Neurodiagnostic Society	Planner	No Relationships
Fawad Khan, MD, FACNS	The International Center for Epilepsy at Ochsner, Ochsner Health System	Reviewer	Eisai (e) ; Marinus Pharmaceuticals (e) ; SK Life Science (d); UCB (d)
Ammar Kheder, MD, FACNS	Emory and Children's Healthcare of Atlanta	Speaker, Planner	No Relationships

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Name	Organization	Role	Financial Relationships*
Jennifer Kim, MD, PhD	Yale University	Speaker	No Relationships
Eyal Y. Kimchi, MD, PhD	Northwestern University	Speaker, Planner	No Relationships
Eliane Kobayashi, MD, PhD	Montreal Neurological Hospital	Reviewer	UCB Canada (a, g)
Erik J. Kobylarz, MD, PhD	Dartmouth College	Planner, Speaker	No Relationships
Vasileios Kokkinos, PhD, FACNS	Massachusetts General Hospital	Planner	No Relationships
Prakash Kotagal, MD, FACNS, FAAN	Cleveland Clinic Epilepsy Center	Speaker	Biocodex (e) ; Neurelis (e) ; SK Life Science (e) ; UCB Biopharma (e)
Christopher Lamb, MD	Mayo Clinic	Speaker	No Relationships
Suzette LaRoche, MD, FACNS	University of North Carolina	Planner, Speaker	No Relationships
Ruple S. Laughlin, MD, FACNS	Mayo Clinic	Planner, Speaker	No Relationships
Jong Woo Lee, MD, PhD, FACNS	Brigham Health	Planner, Reviewer	Bioserenity (g); SK Life Science (b); Soterya (g, e); Teladoc (b)
Leslie Lee, MD	Stanford University	Planner	No Relationships
Alan D.Legatt, MD, PhD, FACNS	Montefiore Medical Center and the Albert Einstein College of Medicine, Bronx, New York, USA	Planner, Speaker	GE Healthcare Technologies (c); General Electric (c); Johnson & Johnson (c); Merck (c); Pfizer (c); Proctor & Gamble (c)
Xiangping Li, MD, FACNS	The University of Texas Medical Branch	Reviewer	No Relationships
Lynn Liu, MD, MS (HPE), FACNS	University of North Carolina - Chapel Hill	Planner, Reviewer	Moderna (c); Pfizer (c)
Estela Lladó- Carbó, MD, PhD	Clinical Neurophysiologist, Neurotoc	Speaker	No Relationships
Jaime R. López, MD, FACNS	Stanford University School of Medicine	Planner, Speaker	No Relationships
Andrea Lowden, MD, FACNS	University of Texas Southwestern Medical Center	Speaker	No Relationships
Mathew Luedke, MD, FACNS	Duke Comprehensive Epilepsy Center	Speaker	Xenon Pharmaceuticals Inc (a)
Carolina Maciel, MD, MSCR	University of Florida	Speaker	No Relationships
Janette Mailo, MD, PhD, FRCP	Stollery Children's Hospital University of Alberta	Speaker	No Relationships
Rabia Malik, MD	Rush University Medical Center	Planner, Speaker	No Relationships
Daniel Mansilla, MD	Neurosurgery Institute Dr. Asenjo	Speaker	No Relationships
Eric J. Mariuma, MD	Montefiore Medical Center	Speaker	No Relationships
Christopher L.Martin, MD	Department of Neurology, University of Arizona College of Medicine- Phoenix	Speaker	No Relationships
Laurence Martineau, MD, FRCPc, CSCN (EEG)	CHU de Québec	Speaker	UCB Canada (d, e)
Guillermo Martin-Palomeque, MD, FACNS	Hospital Universitario Ramón y Cajal, Madrid	Speaker	No Relationships
Catherine Marx, PHD	Federal University of São Paulo (UNIFESP)	Planner	No Relationships
Shavonne Massey, MD, MSCE, FACNS	Children's Hospital of Philadelphia	Planner, Speaker	Sun Pharmaceuticals (b)
Riki Matsumoto, MD, PhD	Kobe University Graduate School of Medicine, Japan	Speaker	Eisai (d); Miyuki Giken (a); Sumitomo Pharma (a); Sysmex (a); UCB Japan Co (d)
Luis Carlos C. Mayor-Romero, MD, FACNS, FAES	Hospital Universitario Fundacion Santa Fe de Bogota	Planner	No Relationships

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Name	Organization	Role	Financial Relationships*
Silvia Mazzali-Verst, MD, PhD	Department at Learning and Research Institute of Sirio Libanês Hospital	Speaker	No Relationships
Michael McGarvey, MD, FACNS	University of Pennsylvania	Planner	No Relationships
Jennifer L. McKinney, MD, FACNS	Nationwide Children's Hospital/ The Ohio State University	Reviewer	No Relationships
Daniel L. Menkes, MD, FACNS	OUWB School of Medicine	Planner	No Relationships
Uma Menon, MD, MBA, FACNS	Morehouse School of Medicine Program	Planner	No Relationships
Yara Mikhaeil-Demo, MD, FACNS	University of Illinois, Chicago	Reviewer	No Relationships
Moshe Mizrahi, MD, FAAN, FAHA, FACNS	The Brookdale Hospital Medical Center	Reviewer	No Relationships
Ismail S. Mohamed, MD, FAES, FACNS	University of Alabama Birmingham	Reviewer, Planner	GW Pharmaceuticals (a)
Christopher E.G. Moore, PhD, FRCP	The Oving Clinic, Oving, West Sussex, UK	Speaker	No Relationships
Heidi M. Munger Clary, MD, MPH, FACNS	Wake Forest University	Planner	DynaMed (g); Eysz (a)
Iryna Muzyka, MD, FACNS	Mayo Clinic	Reviewer	No Relationships
Dinesh G. Nair, MD, PhD	Brigham and Women Hospital, Harvard Medical School	Planner	No Relationships
Jessie Nance, MD	Johns Hopkins	Speaker	No Relationships
Fabio A. Nascimento, MD	Washington University School of Medicine	Planner, Speaker	No Relationships
Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS	University of Manitoba	Planner	Eisai Canada (d, e); Paladin Canada (e) ; UCB Canada (d)
Jonathan A. Norton, PhD, FACNS	University of Saskatchewan	Planner, Speaker	No Relationships
Ika Noviawaty, MD	UMass Chan Medical School	Reviewer	No Relationships
Adam L. Numis, MD	UCSF Benioff Children's Hospital	Planner	No Relationships
Marc R. Nuwer, MD, PhD, FACNS	UCLA Health	Planner, Speaker	Corticare (c)
Aoife O'Carroll, MD	University of Manitoba/Winnipeg Children's Hospital	Planner	No Relationships
Juan Ochoa, MD, FACNS	University of South Alabama	Reviewer	Compumedics Neuroscan (d)
Tatsuya Oishi, MD	Mayo Clinic	Planner, Speaker	No Relationships
Gloria Ortiz Guerrero, MD	Mayo Clinic	Speaker	No Relationships
Joel M. Oster, MD, FACNS	Tufts University	Reviewer	No Relationships
Kimberly Pargeon, MD, FACNS	Harbor-UCLA Medical Center	Reviewer	No Relationships
Prachi Parikh, MD	Duke University	Planner, Speaker	No Relationships
Jun Park, MD, FACNS	Rainbow Babies & Children's Hospital	Planner, Speaker, Reviewer	No Relationships
Sihyeong Park, MD	Mayo Clinic	Speaker	No Relationships
Sandipan Pati, MD	Neurology, UTHealth	Speaker	No Relationships
Phillip L. Pearl, MD, FACNS	Boston Children's Hospital/Harvard Medical School	Planner	PTC (a, b)
Ognen Petroff, MD, FAAN, FACNS, FAES	Yale New Haven Hospital	Reviewer	No Relationships
Elana Pinchefsky, MD, FACNS	CHU Sainte-Justine	Planner	Medtronic (g)
Samantha Pineda, MD	Medica Sur Hospital and Clinical Foundation	Speaker	No Relationships
Marcus V. Pinto, MD, MS	Mayo Clinic	Speaker	No Relationships

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Name	Organization	Role	Financial Relationships*
Francesca Pizzo, PhD	CHU Marseille	Speaker	No Relationships
Prasad N. Policherla, MD, FAHA, FAAN	Mercy Defiance Clinic and Hospital	Reviewer	No Relationships
Jose Principe, PhD	University of Florida	Speaker	No Relationships
Imran Quraishi, MD, PHD	Yale Unviersity	Speaker	NeuroPace (a)
Ramya Raghupathi, MD	Hospital of University of Pennsylvania	Planner, Speaker	No Relationships
Tommi Raij, MD, PhD	MGH/MIT/HMS Athinoula A. Martinos Center for Biomedical Imaging	Speaker	No Relationships
Gustavo E.Ramos Burbano, MD, MSci.	DIME Neurocardiovascular Clinic, Universidad del Valle, Universidad Libre, Cosmitet Ltda.	Speaker	No Relationships
Chrystal M. Reed, MBBS, MD, PhD	Cedars Sinai Medical Center	Reviewer	No Relationships
Ignacio Regidor, MD, PhD	Hospital Ramón y Cajal (Madrid)	Planner	No Relationships
Loreto Rios-Pohl, MD	Clinica Integral de Epilepsia y Neurodesarrollo (CIEN)	Speaker	No Relationships
Eva K. Ritzl, MD, MBA, FACNS, FAAN	Mass General Brigham, Boston, MA	Planner, Speaker	No Relationships
Timothy P. Roberts, PhD	UPenn Children's Hospital of Philadelphia	Planner, Speaker	Fieldline Inc. (e) ; Prism Clinical Imaging (c, e); Proteus Neurodynamics (g)
Devon Rubin, MD, FACNS	Mayo Clinic	Planner, Speaker	No Relationships
Clio Rubinos, MD, MSCR	University of North Carolina	Speaker	Azurity (e) ; Marinus Pharmaceuticals (d)
Maria C. Sam, MD, FACNS	Wake Forest School of Medicine	Reviewer, Planner	No Relationships
Daniel San Juan Orta, MD, FACNS, FAES	National Institute of Neurology and Neurosurgery	Planner, Speaker	No Relationships
Sarah E. Schmitt, MD, FACNS	Medical University of South Carolina	Speaker, Planner, Reviewer	No Relationships
Stephan Schuele, MD, MPH, FACNS, FAAN	Northwestern University	Planner, Speaker	Bioserenity/Digitrace (b); Jazz Pharmaceuticals (d); Monteris (b); Neurelis (d); SK Life Science (d); Sunovion (d)
Reiner Henson B. See, MD	Massachusetts General Hospital	Speaker	NuVasive Clinical Services (b)
Olga Selioutski, DO, FACNS, FAES, FACN	University of MIssissippi	Planner	No Relationships
Anna Serafini, MD	University of Illinois at Chicago	Speaker	No Relationships
Vishal Shah, MBBS	University of Kansas Medical Center (KUMC)	Planner	No Relationships
Asim Shahid, MD	University Hospitals Cleveland Medical Center, Rainbow Babies & Children's Hospital	Planner	No Relationships
Raj D. Sheth, MD, FAAN, FACNS	Mayo Clinic	Planner	No Relationships
Jay L. Shils, PhD, DABNM, FASNM, FACNS	Rush University Medical Center	Speaker	Inomed Co, Germany (b, e); Nervio, Inc (b, e)
Rajdeep Singh, MD, MS, FACNS, FAES	Atrium Health Neurology	Speaker	No Relationships
Saurabh R. Sinha, MD, PhD, FACNS	University of Pennsylvania Perelman School of Medicine	Planner, Speaker	Basilea Inc. (b); NAMSA (b); Natus Neuroscience (d); Neumoratx (b)
Stan A. Skinner, MD, FACNS	Abbott Northwestern Hospital	Planner, Speaker	Medtronic (g)
Yinchen Song, PhD	Dartmouth-Hitchcock Medical Center	Planner	No Relationships

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Name	Organization	Role	Financial Relationships*
Meaghan E. Spedden, PhD	Welcome Centre for Human Neuroimaging, University College of London	Speaker	No Relationships
Michael R. Sperling, MD, FACNS	Thomas Jefferson University	Speaker	Byteflies(a); Cerevel (a); Epiwatch (a); Equilibre (a); Janssen (a); Johnson & Johnson (b); Medtronic (b, a); Neurelis (b, a); SK Life Science (a); Takeda Pharmaceuticals (a); UCB (a); Xenon Pharmaceuticals (a)
David A. Steven, MD, MPH, FRCSC, FACS	Western University	Speaker	UCB Canada (d)
Aaron Struck, MD, FACNS	University Wisconsin Health University Hospital	Speaker	Ceribell Corporation (a)
Krystal Sully, MD	Texas Children's Hospital/Baylor College of Medicine	Reviewer	No Relationships
Fahd Sultan, MD, FACNS	University of Oklahoma Health Sciences Center	Reviewer, Planner	No Relationships
Charles Szabo, MD	UT Health Science Center San Antonio	Speaker	Livanova (b)
Andrea Szelenyi, MD, PhD	Department of Neurosurgery, University Hospital, LMU Munich, Germany.	Speaker	Arkana Co. Germany (d); Inomed Co Germany (e) ; Integra, France (d)
James Tao, MD, PhD, FACNS	University of Chicago Medical Center	Planner	No Relationships
Olga Taraschenko, MD, PhD, FACNS	University of Nebraska Medical Center	Planner	No Relationships
William O. Tatum, IV, DO, FACNS	Mayo Clinic Florida	Planner	Bioserenity/Digitrace (b, f); Cerevel (a); Esai (a); Neurelis Pharmaceuticals (b); UCB Pharma (a); Xenon Pharmaceuticals Inc. (a)
Maria J. Tellez, MD	Mount Sinai West Hospital	Speaker	No Relationships
Jeffrey Tenney, MD, PhD, FACNS	Cincinnati Children's Hospital Medical Center	Speaker, Planner	CTF MEG Neuro Innovations, Inc. (b)
Kamylla Thiago de Almeida, MD	Central State Hospital	Planner, Speaker	No Relationships
Parthasarathy D. Thirumala, MD, FACNS	University of Pittsburgh	Speaker	No Relationships
Hemani Ticku, MD	University Hospitals Cleveland Medical Center/Case Western Reserve University	Speaker	No Relationships
Melissa Tsuboyama, MD	Boston Children's Hospital	Speaker	No Relationships
Tammy Tsuchida, MD, PhD, FACNS	Children's National Hospital	Speaker	Hikma Pharmaceuticals USA (b); UCB Pharmaceuticals (a); Xenon Pharmaceuticals Inc. (a, b)
Michel van Putten, MD, PhD	University of Twente	Speaker	Clinical Science Systems (b, c)
Magdalena Warzecha, R. EEG/EP, CLTM, NA-CLTM	Neurotech LLC	Planner	No Relationships
Dan Weber, DO, FAES, FACNS	Saint Louis University	Planner, Speaker	SK Life Science (d)
M. Brandon Westover, MD, PhD	BIDMC	Planner, Speaker	No Relationships
Shawniqua Williams Roberson, M.Eng., MD, MSCI	Vanderbilt University Medical Center	Speaker	No Relationships
Steven Parrish Winesett, MD, MBA	University of Florida	Speaker	Sanofi (e)
Shasha Wu, MD, PhD	University of Chicago	Speaker	No Relationships

a. Grant/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

Name	Organization	Role	Financial Relationships*
Courtney J. Wusthoff, MD, MS, FACNS	Stanford University	Planner, Speaker, Reviewer	No Relationships
Jimmy Yang, MD	The Ohio State Wexner Medical Center	Speaker	No Relationships
JoJo Yang, MD	UNC Chapel Hill	Planner	No Relationships
Gordon B. Young, MD	Western University, London, Ontario, Canada	Speaker	No Relationships
Sahar F. Zafar, MD, MSc	Mass General Hospital	Speaker	Marinus Pharmaceuticals (d)
Alejandro Zavala, MD, FACNS	Medica Sur Hospital and Clinical Foundation	Planner, Speaker	No Relationships
Andrew Zillgitt, DO, FAES, FACNS	Beaumont Health System	Reviewer	Eisai (d); Jazz (d); Neuropace (b); SK Life Science (d); UCB (d)
Deepti Zutshi, MD, FAAN, FAES	Wayne State University School of Medicine	Planner, Speaker	No Relationships
*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.			

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

CERTIFICATES OF ATTENDANCE & CME CERTIFICATES

CME certificates will be available to preregistered delegates at the end of each day of the meeting at https://www.acns.org/meetings/annual-meeting-and-courses/2024-annual-meeting--courses/cme-information.

Delegates are REQUIRED to complete session evaluations to obtain a CME Certificate or Certificate of Attendance. Delegates should log on to the website listed above and enter their last name and the ID # listed at the top of their confirmation receipt. The system will then ask delegates to indicate which sessions they attended, to complete evaluation forms for each of those sessions, and then will generate a PDF certificate which may be printed or saved to the delegate's computer. Session attendance and evaluation information are saved in the database, and certificates my be accessed again, in the event the certificate is lost or another copy is required. Please note that certificates will not be mailed or emailed after the meeting. The online certificate program is the only source for this document. Please contact ACNS at info@acns.org for any questions. ACNS asks that all CME certificates be claimed no later than June 30, 2024.

SUPPORT ACKNOWLEDGMENT

ACNS gratefully acknowledges the following companies for their support of the 2024 Annual Meeting & Courses:

Abbvie, Inc.
(in-kind support of the "Botulinum Toxin Treatment under EMG Guidance: Hands-on" workshop)

Cadwell Industries
(in-kind support of the "Cranial Nerve Conduction" and "Botulinum Toxin Treatment under EMG Guidance: Hands-on" workshops)

SPES MEDICA
(in-kind support of the "Intraorbital Needle Electrode Placement for Intraoperative Monitoring of Cranial Nerves 3, 4, and 6" workshop)

US Neuro
(unrestricted educational grant in support of the "Ambulatory EEG: Clinical Indications and Challenges" scientific symposium)

SOCIAL & NETWORKING EVENTS

WELCOME RECEPTION

Thursday, February 29, 2024, 6:15 – 7:15pm
Location: Exhibit & Poster Hall, Oceans Ballroom 5-8

ACNS invites all meeting delegates to attend the Welcome Reception, the official kick-off of the meeting, in the Exhibit Hall on Thursday, February 29. All meeting delegates will receive one complementary drink ticket.

SPEED NETWORKING

Friday, March 1, 2024, 11:30am - 12:00pm
Location: Oceans Ballroom Foyer

Annual Meeting & Course delegates aim to meet and greet as many colleagues as possible in this fast-paced networking event, held on Friday, March 1, 11:30am - 12:00pm. Delegates are paired for 2-minute connections before rotating to the next colleague This networking opportunity is available to all delegates. Take advantage of an opportunity to chat with potential employers, collaborator, and peers.

SPECIAL INTEREST GROUP (SIG) SOCIALS

Saturday, March 2, 2024, 6:30 – 7:30pm
Locations: Stereo EEG - Oceans Ballroom 1-2
NIOM - Oceans Ballroom 9-10
ICU EEG - Oceans Ballroom 3-4
Business of Clinical Neurophysiology - Oceans Ballroom 11-12

Come learn about the ACNS SIGs in Stereo EEG, NIOM, ICU EEG and Business of Clinical Neurophysiology. Hear what they have planned in the coming months as they offer key educational content throughout the year. Visit the SIG page on the ACNS website to learn more about this member benefit and to view the upcoming schedule.

INTERNATIONAL ATTENDEE BREAKFAST

Sunday, March 3, 2024, 7:00 - 8:00am
Location: Oceans Ballroom Foyer

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

PROFESSIONAL DEVELOPMENT MENTORSHIP PROGRAM

Participants in the ACNS Professional Development Mentor Program are welcome to make use of a designated meeting area in the common areas during breaks and lunches. More information about the Professional Development Mentorship Program can be found on the ACNS website.

Help us transform pediatric epilepsy care.

Join our mission at Nemours Children's Health to pioneer a comprehensive pediatric neurosciences program in Orlando or Jacksonville, Florida. As a Pediatric Epileptologist, you'll make a significant impact, delivering unparalleled care to children with epilepsy. With Jacksonville and Orlando ranking among the top 10 fastest-growing population centers in the U.S., the need for your expertise has never been greater.

Why choose us?

- Exceptional care for every child
- Fulfilling work environment
- Vision for a healthier future

Your Impact

- Be a part of a growing pediatric neuroscience program
- Provide exceptional epilepsy care
- Contribute to a healthier future

We Offer

- Base compensation in the top quartile in the market
- Annual incentive compensation that values clinical activity, academic accomplishments, & quality improvement
- Comprehensive benefits: health, life, dental, vision
- Mortgage assistance, relocation packages and 403B with employer match
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ACNS Special Interest Group

Connect, network, and participate in topical, interactive education throughout the year.

ACNS Special Interest Groups (SIGs) are organized around several areas of CNP practice

Visit **https://www.acns.org/membership/acns–special–interest–groups–sigs** for more information

Join us in Orlando!

Special Interest Group (SIGs) Socials
Saturday, March 2, 2024
6:30 – 7:30pm

SIG Virtual Meet-Ups:

ICU EEG: March 7, 2024
Stereo EEG: April 11, 2024
NIOM: May 9, 2024
Business: May 23, 2024

ICU EEG

Directors: Shavonne Massey, MD, MSCE, FACNS and Brandon Foreman, MD, MS, FACNS
Next Meeting: March 7, 2024

The ACNS ICU EEG SIG aims to encourage members to discuss existing knowledge and updates in this field via three virtual webinars and through the ACNS Connect platform. Relevant guideline updates, novel research, and case-based discussions will be highlighted throughout the year to develop a community of ACNS members interested in ongoing engagement around critical care EEG monitoring topics.

NIOM

Directors: Michael McGarvey, MD, FACNS and Stanley Skinner, MD, FACNS
Next Meeting: May 9, 2024

This is an open discussion forum for topics related to NIOM. Feel free to ask questions and have a dialogue with other members of our community.

BUSINESS OF CLINICAL NEUROPHYSIOLOGY

Directors: Pegah Afra, MD, FACNS and Matthew W. Luedke, MD, FACNS
Next Meeting: May 23, 2024

Business of Clinical Neurophysiology: This SIG aims to open up the dialogue, to discuss and share the business management aspects of the practice of clinical neurophysiology. We seek to empower and equip each other with the necessary knowledge to be successful clinician leaders for the betterment of patient care in our field.

STEREO EEG

Directors: Prachi Parikh, MD and Ramya Raghupathi, MD
Next Meeting: April 11, 2024

The field of SEEG is relatively new to most centers in the USA. The rapid and widespread adoption of SEEG has left trainees and mentors searching for foundational material to illustrate real-life practice principles. Contrast SEEG with scalp EEG's gradual diffusion into clinical practice: the systematic and informed approach – protocols, guidelines, expert opinions, and structured fellowship programs – of today.

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With a collaborative approach, we deliver comprehensive in-patient neurological care to our communities.

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AWARD RECIPIENTS & LECTURES

PIERRE GLOOR AWARD PRESENTATION & LECTURE

"A Review of Periodicity in Electroencephalography"
Saturday, March 2, 2024

Gordon Bryan Young, MD

The Gloor Award is presented annually for outstanding current contributions to clinical neurophysiology research. Dr. Young's lecture will provide an update on EEG patterns that includes a classification matched to clinical entities, their significance, underlying pathophysiological mechanisms as well as practical suggestions for EEGers in producing reports.

ROBERT S. SCHWAB AWARD PRESENTATION & LECTURE

"Motor Unit Potential: Measurements & Correlates"
Friday, March 1, 2024

Sanjeev D. Nandedkar, PhD

The Schwab Award is presented annually to an individual who has made significant contributions in the area of clinical neurophysiology. Dr. Nandedkar's lecture will explore how the motor unit potential (MUP) measurements (amplitude, duration, phases, etc.) provide complimentary information about the MU architecture changes in pathology. The anatomic correlates of measurements derived from computer simulations will be presented to interpret common and unusual patterns of MUP shape.

HERBERT H. JASPER AWARD PRESENTATION

"Rethinking Seizures: How Current Concepts Fail to Meet Clinical Needs"
Saturday, March 2, 2024

Michael R. Sperling, MD, FACNS

The Jasper Award is presented annually to an individual who has made a lifetime of outstanding contributions to the field of clinical neurophysiology. Dr. Sperling's lecture will explore how the current definition and conception of what constitutes a seizure is lacking in precision and accuracy. He will expand on how the definition fails to account for some neurophysiological events that are clearly seizures, includes electrophysiological phenomena that are considered interictal, and may vary depending upon behavioral testing protocols. This lecture will also propose a new definition of seizures that includes specific electrophysiological, that of a sustained rhythmic, evolving ictal discharge, and behavioral features.

PRESIDENT'S ADDRESS

"Clinical Neurophysiology Training: Historical Perspective, Current State and Future Directions"
Thursday, February 29, 1:15pm

Saurabh R. Sinha, MD, FACNS

Dr. Sinha's address will focus on how the field of Clinical Neurophysiology has grown and evolved over the last century, accentuating the importance of the changing processes and curriculum for education and training.

INNOVATION LECTURE

"MEP: How to Deal with Crossover & Brain Mapping: New Frontiers"
Thursday, February 29, 1:15pm

Silvia Mazzali-Verst, MD, PhD

The Innovation Lecture highlights innovators in evolving fields. Dr. Silvia Mazzali-Verst, MD, PhD will deliver her lecture on Thursday, February 29, 2024.

MARC R. NUWER SERVICE AWARD PRESENTATION

Friday, March 1, 2024

Alan D. Legatt, MD, PhD, FACNS

The Marc R. Nuwer Service Award is presented to an individual in recognition of outstanding service to ACNS and its members, including non-scientific contributions. Dr. Legatt will be recognized during the Annual Business Meeting on Friday, March 1, 2024.

ACNS DISTINCTION IN TEACHING AWARD

Friday, March 1, 2024

Rebecca Matthews, MD

The Distinction in Teaching Award recognizes a mid-career ACNS member for outstanding accomplishments in teaching clinical neurophysiology to fellows, residents, medical students or EEG technologists. Dr. Matthews will be recognized during the Annual Business Meeting on Friday, March 1, 2024.

ACNS DISTINCTION IN SERVICE AWARD

Friday, March 1, 2024

Adriana Bermeo-Ovalle, MD, FACNS, FAES

The Distinction in Service Award recognizes a mid-career ACNS member who has demonstrated outstanding service to the field of clinical neurophysiology at the institutional or national level. Dr. Bermeo-Ovalle will be recognized during the Annual Business Meeting on Friday, March 1, 2024.

SCHEDULE AT A GLANCE

WEDNESDAY, FEBRUARY 28, 2024		LOCATION
2:30 - 4:00pm	**Course: Advanced EEG** Course Director: *Dan Weber, DO, FAES, FACNS*	Oceans Ballroom 1
2:30 - 5:45pm	**Course: NIOM Part I** Course Directors: *Christine Hung, MD and Dinesh Nair, MD, PhD*	Oceans Ballroom 2
4:00 - 4:15pm	**Break**	Oceans Ballroom Foyer
4:15 - 5:45pm	**Course: Ictal Semiology Workshop** Course Director: *Naiara Garcia-Losarcos, MD*	Oceans Ballroom 1

THURSDAY, FEBRUARY 29, 2024		LOCATION
7:00 - 8:30am	**Breakfast**	Oceans Ballroom Foyer
8:00 - 9:30am	**Course: Introduction to MEG** Course Director: *Jeffrey Tenney, MD, PhD, FACNS*	Oceans Ballroom 11-12
8:00 - 11:15am	**Course: ICU EEG Monitoring Part I** Course Directors: *Nicolas Gaspard, MD, PhD and France Fung, MD, MSc, FACNS*	Oceans Ballroom 1-2
	Course: NIOM Part II Course Directors: *Christine Hung, MD and Dinesh Nair, MD, PhD*	Oceans Ballroom 3-4
	Course: Stereo EEG Part I Course Directors: *Birgit Frauscher, MD, PhD and Ammar Kheder, MD, FACNS*	Oceans Ballroom 9-10
9:30 - 9:45am	**Break**	Oceans Ballroom Foyer
9:45 - 11:15am	**Course: Advanced MEG Processing** Course Director: *Sasha Alick-Lindstrom, MD, FACNS, FAES, FAAN*	Oceans Ballroom 11-12
11:15am - 12:45pm	**Lunch | Poster Presentations**	Exhibit & Poster Hall, Oceans Ballroom 5-8
11:30am - 1:00pm	**CNP Program Directors Symposium: Recruitment for CNP Fellowship Programs: Lessons Learned and Facing Future Challenges** Session Directors: *Ioannis Karakis, MD, PhD, MSc, FACNS and Lynn Liu, MD, MS (HPE), FACNS*	Oceans Ballroom 11-12
1:15 - 2:45pm	**General Session: 2023 Cosimo-Ajmone Marsan Award Presentation | Innovation Lecture | Presidential Address**	Oceans Ballroom 3-4
3:00 - 4:30pm	**Course: Quantitative EEG Workshop** Session Director: *Fabio Nascimento, MD*	Oceans Ballroom 1-2
	Advances and Controversies in Cortical, Brainstem, and Spine Neuromonitoring Session Director: *Stan Skinner, MD, FACNS*	Oceans Ballroom 3-4
	Ictal-Interictal Continuum (IIC) Patterns Across the Age Spectrum Session Directors: *Nicolas Gaspard, MD, PhD and France Fung, MD, MSc, FACNS*	Oceans Ballroom 9-10
	Growing a Successful Clinical Neurophysiology Service: From OR to ICU to Clinic Session Directors: *Pegah Afra, MD, FACNS and Suzette LaRoche, MD, FACNS*	Oceans Ballroom 11-12
4:30 - 4:45pm	**Break**	Exhibit & Poster Hall, Oceans Ballroom 5-8
4:45 - 6:15pm	**Intraorbital Needle Electrode Placement for Intraoperative Monitoring of Cranial Nerves 3, 4, and 6** Session Directors: *Matthew Hoffman, DO, PhD, FACNS and Tatsuya Oishi, MD*	Oceans Ballroom 1-2
	Electrodiagnostic Evaluation of Neuromuscular Junction Disorders Session Director: *Rabia Malik, MD*	Oceans Ballroom 3-4
	Next Generation of Neurophysiology-Informed Clinical Trials in Hypoxic-Ischemic Brain Injury Session Directors: *Jong Woo Lee, MD, PhD, FACNS and Edilberto Amorim, MD*	Oceans Ballroom 9-10

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	Intraoperative Neurophysiologic Monitoring in the Surgical Treatment of Neurovascular Compression Syndromes Session Directors: *Ignacio Regidor, MD, PhD and Aatif M. Husain, MD, FACNS*	Oceans Ballroom 11-12
6:15 - 7:15pm	**Welcome Reception**	Exhibit & Poster Hall, Oceans Ballroom 5-8

FRIDAY, MARCH 1, 2024		LOCATION
7:00 - 8:30am	**Breakfast**	Exhibit & Poster Hall, Oceans Ballroom 5-8
8:00 - 9:30am	**Course: Sleep Medicine Year in Review 2024: What Clinical Neurophysiologists Need To Know** Course Director: *Madeleine Grigg-Damberger, MD, FACNS*	Oceans Ballroom 11-12
8:00 - 11:15am	**Course: ICU EEG Monitoring Part II** Course Directors: *France Fung, MD, MSc, FACNS and Nicolas Gaspard, MD, PhD*	Oceans Ballroom 1-2
	Course: Business of Clinical Neurophysiology Course Directors: *Eva Ritzl, MD, MBA, FACNS, FAAN and Uma Menon, MD, MBA, FACNS*	Oceans Ballroom 3-4
	Course: Stereo EEG Part II Course Directors: *Birgit Frauscher, MD, PhD and Ammar Kheder, MD, FACNS*	Oceans Ballroom 9-10
9:30 - 9:45am	**Break**	Exhibit & Poster Hall, Oceans Ballroom 5-8
9:45 - 11:15am	**Course: Challenging Evoked Potentials Cases** Course Director: *Erik Kobylarz, MD, PhD*	Oceans Ballroom 11-12
11:15am - 12:45pm	**Lunch**	Exhibit & Poster Hall, Oceans Ballroom 5-8
11:30am - 12:00pm	**Speed Networking**	Oceans Ballroom Foyer
12:00 - 1:00pm	**Product Theater** NON CME	Tarpon, 2nd Floor
1:15 - 2:45pm	**General Session: Schwab Award Presentation & Lecture | Business Meeting** NON CME	Oceans Ballroom 3-4
3:00 - 4:30pm	**Delving Deep into the Deep Learning for Neurophysiology** Session Director: *Giridhar Kalamangalam, MD, Dphil, FACNS*	Oceans Ballroom 1-2
	Ambulatory EEG: Clinical Indications and Challenges Session Director: *Magdalena Warzecha, R. EEG/EP, CLTM, NA-CLTM*	Oceans Ballroom 9-10
	OPM-Based Magnetoencephalography: A New Perspective on Magnetic Neurophysiology Session Directors: *Pegah Afra, MD, FACNS and Timothy Roberts, PhD*	Oceans Ballroom 11-12
4:30 - 4:45pm	**Break**	Exhibit & Poster Hall, Oceans Ballroom 5-8
4:45 - 6:15pm	**Cranial Nerve Conduction Studies Hands-On Workshop** Session Director: *Ruple Laughlin, MD, FACNS*	Oceans Ballroom 1-2
	Intraoperative Neurophysiological Monitoring of Human Cognitive Functions: Challenges and Limitations (Joint ACNS/CLA-IFCN Symposium) Session Directors: *Daniel San Juan Orta, MD, FACNS, FAES and Kamylla Thiago de Almeida, MD*	Oceans Ballroom 3-4
	Ambulatory EEG Session Directors: *Aline Herlopian, MD and William Tatum, IV, DO, FACNS*	Oceans Ballroom 9-10
	The Role of the Thalamus During Stereoelectroencephalography (sEEG) Session Directors: *Shruti Agashe, MD, MS, BME and Nicholas Gregg, MD*	Oceans Ballroom 11-12

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SCHEDULE AT A GLANCE

SATURDAY, MARCH 2, 2024		LOCATION
7:00 - 8:30am	**Breakfast**	Exhibit & Poster Hall, Oceans Ballroom 5-8
7:00 - 8:00am	**A Diverse & Inclusive ACNS: Past Efforts, the Path Forward** Session Director: *Suzette LaRoche, MD, FACNS*	Oceans Ballroom 11-12
8:00 - 9:30am	**Course: SEEG Illustrative Case Discussions** Course Director: *Jun T. Park, MD, FACNS*	Oceans Ballroom 1-2
	Course: Neonatal Neuromonitoring Course Director: *Adam L. Numis, MD*	Oceans Ballroom 3-4
	Course: Controversies in IOM Course Director: *Jamie R. López, MD, FACNS*	Oceans Ballroom 9-10
	Neurophysiology of Delirium Session Director: *Rishi Ganesan, MBBS, MD, DM, FACNS*	Oceans Ballroom 11-12
9:30 - 9:45am	**Break**	Oceans Ballroom 5-8
9:45 - 11:15am	**Course: Neuromodulation Workshop: Epilepsy and Beyond** Course Director: *Lawrence J. Hirsch, MD, FACNS*	Oceans Ballroom 1-2
	Complex Electrodiagnostic Waveforms – An Interactive Case-Based Approach to Interpreting Uncommon Waveforms Session Director: *Devon I. Rubin, MD, FACNS*	Oceans Ballroom 3-4
	The EEG as a Window to the Sedated Brain Session Directors: *Maria J. Bruzzone Giraldez, MD, MSCR, FACNS and Eyal Kimchi, MD, PhD*	Oceans Ballroom 9-10
11:15am - 12:45pm	**Lunch**	Exhibit & Poster Hall, Oceans Ballroom 5-8
11:30am - 1:00pm	**Career Development Panel: Career Pathways in Clinical Neurophysiology** Session Directors: *Ioannis Karakis, MD, PhD, MSc, FACNS and Lynn Liu, MD, MS (HPE), FACNS*	Oceans Ballroom 11-12
1:15 - 2:45pm	**General Session: Young Investigator Travel Award Presentation | Jasper Award Presentation & Lecture | Gloor Award Presentation & Lecture**	Oceans Ballroom 3-4
3:00 - 4:30pm	**Botulinum Toxin Treatment Under EMG Guidance: Hands-On Workshop** Session Director: *Jaime R. López, MD, FACNS*	Oceans Ballroom 1-2
	Advances in Ischemia Neuromonitoring: From the Angio Suite to the ICU and Operating Theater Session Director: *Edilberto Amorim, MD and M. Brandon Westover, MD, PhD*	Oceans Ballroom 3-4
	Starts, Ends, Surroundings, and Bends - Effects of Anatomy on Recording and Stimulation of Action Potentials in Axons Session Director: *Alan D. Legatt, MD, PhD, FACNS*	Oceans Ballroom 9-10
	Amyotrophic Lateral Sclerosis: Neurophysiological Natural History, Estimation and Quantification of Motor Units and Clinical-Electrophysiological Differential Diagnosis (Joint ACNS/IFCN Latinamerican Chapter Symposium) Session Director: *Devon I. Rubin, MD, FACNS and Mark Bromberg, MD, PhD*	Oceans Ballroom 11-12
4:30 - 4:45pm	**Break**	Oceans Ballroom Foyer

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SCHEDULE AT A GLANCE

4:45 - 6:15pm	**New Trends in Electrical Source Imaging for Presurgical Epilepsy Evaluation: From Current Standard of Care to New Approaches** Session Directors: *Prachi T. Parikh, MD and Birgit Frauscher, MD, PhD*	Oceans Ballroom 1-2
	Multimodal Monitoring in Comatose Patients: EEG and Vascular Correlations and Outcome Prediction Session Director: *Olga Selioutski, DO, FACNS, FAES, FACN*	Oceans Ballroom 3-4
	Brain Mapping During Surgery (Joint ACNS/ Spanish Society for Clinical Neurophysiology Symposium) Session Directors: *Jaime López, MD, FACNS and Lidia Cabañes-Martínez, MD, FACNS*	Oceans Ballroom 9-10
	E/MEG Source Localization is Useful in Temporal Lobe Epilepsy: Myth or Fact Session Directors: *Ismail S. Mohamed, MD, FAES, FACNS and Jeffrey Tenney, MD, PhD, FACNS*	Oceans Ballroom 11-12
6:30 - 7:30pm	**ACNS Special Interest Group (SIG) Socials** NON CME	
	Stereo EEG	Oceans Ballroom 1-2
	NIOM	Oceans Ballroom 9-10
	ICU EEG	Oceans Ballroom 3-4
	Business of Clinical Neurophysiology	Oceans Ballroom 11-12

SUNDAY, MARCH 3, 2024		LOCATION
7:00 - 8:30am	**Breakfast**	Oceans Ballroom Foyer
8:00 - 9:30am	**Thalamic Stereo EEG** Session Directors: *Ramya Raghupathi, MD and Prachi Parikh, MD*	Oceans Ballroom 1-2
	Education and Training of Clinical Neurophysiology in Different International Health Care Systems. Are we Failing a Worldwide Need? (Joint ACNS/Mexican Society of Clinical Neurophysiology Symposium) Session Directors: *Jaime R. López, MD, FACNS and Alejandro Zavala, MD, FACSN*	Oceans Ballroom 3-4
	A Deeper Understanding of Some Aspects of Neurophysiology Session Director: *David Gloss, MD, FACNS*	Oceans Ballroom 9-10
	Peripheral Neuropathies - Beyond Standard Neurophysiological Evaluation (Joint ACNS/Sociedade Brasileira de Neurofisiologia Clínica Symposium) Session Directors: *Marcondes C. França, Jr., MD, PhD and Catherine Marx, PhD*	Oceans Ballroom 11-12
9:30 - 9:45am	**Break**	Oceans Ballroom Foyer
9:45 - 11:15am	**Psychiatry and Neurosurgery - Value of Auditory Evoked Potentials in High Risk Children and Adults (Joint ACNS/Egyptian Society of Neurology Symposium)** Session Directors: *Ayat Allah Hussein, MD and Aatif M. Husain, MD, FACNS*	Oceans Ballroom 1-2
	Exploring Continuous EEG Monitoring in the Critically Ill: Rapid Availability, Long-Term Monitoring Candidates, and Limited Montages. ES Session Directors: *Lidia Cabañes-Martínez, MD, FACNS and Adriana Bermeo-Ovalle, MD, FACNS, FAES*	Oceans Ballroom 3-4
	Research Highlights Session Director: *Olga Taraschenko, MD, PhD, FACNS*	Oceans Ballroom 9-10
	Clinical Neurophysiology Resident and Fellow Symposium Session Directors: *Pegah Afra, MD, FACNS and Jeffrey Britton, MD, FACNS*	Oceans Ballroom 11-12

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WEDNESDAY, FEBRUARY 28, 2024

2:30 – 4:00pm

Course: Advanced EEG

Location: Oceans Ballroom 1

Course Director: Dan Weber, DO, FAES, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Interpret the value of an electrical source derived from EEG;
2. Describe the role of functional connectivity analysis in epilepsy; and
3. Specify the role of AI in EEG interpretation.

2:30pm Introduction to Advanced EEG, Beyond Visual Review
Dan Weber, DO, FAES, FACNS

2:35pm Electrical Source Imaging
Susan T. Herman, MD, FACNS

3:00pm EEG Functional Connectivity Analysis
Patrick Davis, MD, PhD

3:25pm The Future of AI in EEG Interpretation
Sandor Beniczky, MD, PhD, FACNS

2:30 – 5:45pm

Course: Neuorphysiological Intraoperative Monitoring - Part I

Location: Oceans Ballroom 2

Course Co-Directors: Christine Hung, MD and Dinesh G. Nair, MD, PhD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Explain the concepts and anatomy underpinning different NIOM modalities; and
2. Use NIOM modalities in basic and advanced applications.

2:30pm Somatosensory Evoked Potentials & Central Sulcus Mapping
Aatif M. Husain, MD, FACNS

2:55pm Motor Evoked Potentials & Cortical & Subcortical Motor Mapping
Matthew Hoffman, DO, PhD, FACNS

3:20pm Electrocorticography & Functional Awake Mapping
Reiner Henson See, MD

3:45pm Discussion

4:00pm Break

4:15pm Monitoring of Motor & Somatosensory Cranial Nerves
Jaime R. López, MD, FACNS

4:40pm Brainstem Auditory Evoked Potential Monitoring
Alan D. Legatt, MD, PhD, FACNS

5:05pm Endonasal Surgery Monitoring
Katherine M. Anetakis, MD

5:30pm Discussion

4:00 - 4:15pm

Coffee Break

Oceans Ballroom Foyer

4:15 – 5:45pm

Course: Ictal Semiology Workshop

Location: Oceans Ballroom 1

Course Director: Naiara Garcia-Losarcos, MD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Recognize seizure components in the ictal sequence and localize their symptomatogenic zones;
2. Understand the localizing and lateralizing significance of isolated clinical signs; and
3. Discuss how seizure semiology can be used to localize the epileptogenic zone.

4:15pm Introductory Case: The Value of Seizure Semiology
Naiara Garcia-Losarcos, MD

4:25pm Case 1: Back to Basics
Prakash Kotagal, MD, FACNS, FAAN

4:50pm Case 2: A Complex Motor Seizure
Stephan Schuele, MD, MPH, FACNS, FAAN

5:15pm Case 3: What Made You Turn Your Head and Laugh?
Charles Szabo, MD

5:40pm Discussion

THURSDAY, FEBRUARY 29, 2024

7:00 – 8:30am

Breakfast
Oceans Ballroom Foyer

8:00 – 9:30am

Course: Introduction to MEG
Location: Oceans Ballroom 11-12

Course Director: Jeffrey 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.

8:00am How is it Different from EEG? – MEG Physics and Physiology
Susan Bowyer, PhD

8:25am When to Order MEG? - 10 Common, Evidence Supported Indications for MEG in Epilepsy Surgery
Anto I. Bagic, MD, PhD, FAES, FACNS

8:50am What Should I Expect? – MEG Source Localization and Reporting
Andrea Lowden, MD, FACNS

9:15am Discussion

8:00 – 11:15am CONCURRENT SESSIONS

Course: ICU EEG Monitoring Part I
Location: Oceans Ballroom 1-2

Course Co-Directors: France Fung, MD, MSc, FACNS and Nicolas Gaspard, MD, FACNS, PhD

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 and classification of rhythmic and periodic patterns and status epilepticus;
3. Identify ictal-interictal continuum patterns and status epilepticus and understand their potential impacts on outcomes; and
4. Review the use of EEG monitoring (including aEEG) and seizure detection in the pediatric and neonatal ICUs.

8:00am Introduction
France Fung, MD, MSc, FACNS and Nicolas Gaspard, MD, PhD, FACNS

8:05am Consensus & Guidelines on Continuous EEG in Critically Ill
Susan T. Herman, MD, FACNS

8:30am ACNS Terminology Part I
Lawrence J. Hirsch, MD, FACNS

8:55am ICU EEG Monitoring for Status Epilepticus
Nicolas Gaspard, MD, PhD

9:20 am Break

9:35am Ictal-Interictal Continuum (IIC)
Aaron Struck, MD, FACNS

10:00am Advanced Pediatric ICU EEG
Nicholas S. Abend, MD, MSCE, FACNS

10:30am Advanced Neonatal EEG
Courtney J. Wusthoff, MD, MS, FACNS

11:00am Discussion

Course: Neuorphysiological Intraoperative Monitoring - Part II
Location: Oceans Ballroom 3-4

Course Co-Directors: Christine Hung, MD and Dinesh G. Nair, MD, PhD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Explain the concepts and anatomy underpinning different NIOM modalities; and
2. Use NIOM modalities in basic and advanced applications.

8:00am Cervical Spine Monitoring
Felix Chang, MD

8:25am Thoracic & Lumber Spine Monitoring
Ronald Emerson, MD, FACNS

8:50am Sacral Spine Monitoring
Stanley A. Skinner, MD, FACNS

9:15am Discussion

9:45am Intraoperative Electromyography
Eric J. Mariuma, MD

10:10am Peripheral Nervous System Monitoring
Jessica Nance, MD

10:35am Deep Brain Stimulator Monitoring
Jay L. Shils, PhD, DABNM, FRCSC, FACNS

11:00am Discussion

THURSDAY, FEBRUARY 29, 2024

Course: Stereo EEG Part I

Location: Oceans Ballroom 9-10

Course Co-Directors: Birgit Frauscher, MD, PhD and Ammar Kheder, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Understand the fundamental principles of SEEG and how to formulate anatomo-electro-clinical hypothesis;
2. Describe the clinical indications and patient selection criteria for SEEG, including the unique aspects of pediatric patients; and
3. Discuss planning, and interpretation of SEEG to aid in the diagnosis and management of patients with drug-resistant epilepsy.

8:00am Challenges and Controversies in Indication and Patient Selection for SEEG
Shasha Wu, MD, PhD

8:30am Advanced Surgical Anatomy, Preoperative Planning and Imaging
David Steven, MD, MPH, FRCSC, FACS

9:00am SEEG Interpretation: Part 1 – Intermediate
Steven Parrish Winesett, MD, MBA

9:30am Break

9:45am SEEG interpretation: Part 2 – Advanced
Birgit Frauscher, MD, PhD

10:15am Anatomo-Electrico-Clinical Correlation: Temporal vs. Extratemporal
Laurence Martineau, MD, FRCPc, CSCN (EEG)

11:05am Discussion

9:30 – 9:45am

Coffee Break
Oceans Ballroom Foyer

9:45 – 11:15am

Course: Advanced MEG Processing

Location: Oceans Ballroom 11-12

Course Director: Sasha Alick-Lindstrom, MD, FACNS, FAES, FAAN

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Identify which intractable epilepsy cases would benefit from magnetic source imaging (MEG/MSI) and describe approved and advanced emerging methods for processing and multimodal imaging integration;
2. Understand evoked fields which may be acquired by MEG and useful for surgical planning purposes. This session will focus on language processing methodologies, their clinical utility and research advancements; and
3. Describe emerging methods and applications for advanced MEG processing. Emphasis will be on Alzheimer's dementia and various translational research applications.

9:45am From Acquisition to Final Product: Demystifying the Elusive Dipole and Understanding Basic MEG Processing
Sasha Alick-Lindstrom, MD, FACNS, FAES, FAAN

10:10am MEG Evoked Fields: Available Modalities, Language Acquisition, and Comparison of Language Processing Methods
Susan Bowyer, PhD

10:35am Emerging MEG and Imaging Analysis Translational Research Methods
Elizabeth M. Davenport, PhD

11:00am Discussion

11:15am – 12:45pm

Lunch & Poster Presentations
Exhibit & Poster Hall
Oceans Ballroom 5-8

11:30am – 1:00pm

CNP Program Directors Symposium: Recruitment for CNP Fellowship Programs: Lessons Learned and Facing Future Challenges

Location: Oceans Ballroom 11-12

Session Directors: Ioannis Karakis, MD, PhD, MSc, FACNS and Lynn Liu, MD, MS (HPE), FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Review the experience of CNP fellowship program directors with recently launched, unifying recruitment processes;
2. Review the experience of CNP fellowship program directors with the traditional recruitment pathways; and
3. Discuss the lessons learned from the changing fellowship recruitment landscape, the challenges lying ahead and how to tackle them.

11:30am Introduction

11:35am Recruitment for the CNP/EEG Fellowship Programs through the AES Match
Sarah E. Schmitt, MD, FACNS

11:55am Recruitment for the CNP/EMG Fellowship Programs through the AANEM Portal
Ruple S. Laughlin, MD, FACNS

12:15pm Recruitment for the EEG/EMG and Other CNP Fellowship Programs Without a Standardized Process
Deepti Zutshi, MD, FAAN, FAES

12:35pm A Unifying Recruitment Process for CNP Fellowship Programs: Lessons Learned and Challenges Lying Ahead
Saurabh R. Sinha, MD, PhD, FACNS

12:55pm Discussion

THURSDAY, FEBRUARY 29, 2024

1:15 – 2:45pm GENERAL SESSION

Location: Oceans Ballroom 3-4

1:15pm Welcome
Frank W. Drislane, MD, FACNS and Lynn Liu, MD, MS (HPE), FACNS

1:20pm Presentation of the 2023 Cosimo-Ajmone Marsan Award
Stephan U. Schuele, MD, MPH, FACNS

1:25pm Introduction of the Innovation Lecture
Frank W. Drislane, MD, FACNS

1:30pm Innovation Lecture: "MEP:How to Deal with Crossover & Brain Mapping: New Frontiers"
Silvia Mazzali-Verst, MD, PhD

2:05pm Introduction of ACNS President
Frank W. Drislane, MD, FACNS

2:10pm Presidential Address: "Clinical Neurophysiology Training: Historical Perspective, Current State and Future Directions"
Saurabh R. Sinha, MD, PhD, FACNS

3:00 – 4:30pm CONCURRENT SESSIONS

Course: Quantitative EEG Workshop

Location: Oceans Ballroom 1-2

Course Director: Fabio A. Nascimento, MD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Understand the basics of quantitative EEG;
2. Apply quantitative EEG in the context of seizure detection and identification of patterns in the ictal-interictal continuum; and
3. Apply quantitative EEG in the context of detection of brain ischemia, high intra-cranial pressure, and cortical spreading depolarization.

3:00pm Introduction
Fabio A. Nascimento, MD

3:05pm qEEG Basics + Detection of Seizures / IIC
M. Brandon Westover, MD, PhD

3:30pm qEEG for Detection of Ischemia, High ICP, Depolarization
Lawrence J. Hirsch, MD, FACNS

3:55pm qEEG Case-Based Game

4:20pm Discussion

Advances and Controversies in Cortical, Brainstem, and Spine Neuromonitoring

Location: Oceans Ballroom 3-4

Session Director: Stan Skinner, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Describe and critique means to monitor the corticospinal tract during supratentorial lesion resection;
2. Describe and select brainstem reflexes during various posterior fossa surgeries; and
3. Discuss and defend current neuromonitoring evidence with surgeons before and during extradural spine procedures.

3:00pm When Surgeons Ask: What is the Evidence to Support Neuromonitoring in Extradural Spine Surgery?
Stan Skinner, MD, FACNS

3:25pm Supratentorial Lesion Motor Monitoring: How do we Choose Transcranial v Direct Cortical Stimulation? Does NIOM per se Improve Outcomes?
Andrea Szelenyi, MD, PhD

3:50pm Brainstem Reflexes: Which do we use in various Posterior Fossa Scenarios?
Maria J. Tellez, MD

4:15pm Discussion

Ictal-Interictal Continuum (IIC) Patterns Across the Age Spectrum

Location: Oceans Ballroom 9-10

Session Directors: Nicolas Gaspard, MD, PhD and France Fung, MD, MSc, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Define periodic and rhythmic and ictal-interictal continuum patterns across the age spectrum (adult, pediatric, neonatal);
2. Outline the associated risks of these patterns with seizures and outcomes (adult, pediatric, neonatal); and
3. Explore potential strategies for management and targeted treatment of ictal-interictal continuum patterns across the age spectrum.

3:00pm Introduction

3:15pm IIC EEG Patterns in Adults and Elderly
Aaron Struck, MD, FACNS

3:40pm Periodic and Rhythmic Patterns and IIC in Critically Ill Children
France Fung, MD, MSc, FACNS

4:05pm Brief Rhythmic Discharges (BRDs) in Critically Ill Neonates
Janette Mailo, MD, PhD, FRCP

THURSDAY, FEBRUARY 29, 2024

Growing a Successful Clinical Neurophysiology Service: From OR to ICU to Clinic

Location: Oceans Ballroom 11-12

Session Directors: Pegah Afra, MD, FACNS and Suzette LaRoche, MD, FACNS

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

1. Understand underlying process starting an IONM program and making decisions whether to utilize contract services, provide in-house monitoring or a hybrid of both;
2. Recognize key factors relevant to developing continuous EEG monitoring services and opportunities for expanding access to EEG services for hospitals of all sizes; and
3. Appreciate the challenges and considerations in incorporating NCS/EMG, including advanced techniques such as single fiber EMG, in a hospital EMG practice.

3:00pm Starting or Transitioning an IONM In-House Service
Pegah Afra, MD, FACNS

3:30pm Building and Expanding EEG Monitoring Services: Models for Success
Suzette LaRoche, MD, FACNS

4:00pm Incorporating NCS/EMG, Including Advanced Techniques, in the Hospital and Outpatient Setting
Devon Rubin, MD, FACNS

4:30 – 4:45pm

Coffee Break
Exhibit & Poster Hall
Oceans Ballroom 5-8

4:45 – 6:15pm CONCURRENT SESSIONS

Intraorbital Needle Electrode Placement for Intraoperative Monitoring of Cranial Nerves 3, 4, and 6

Location: Oceans Ballroom 1-2

Session Directors: Matthew Hoffman, DO, PhD, FACNS and Tatsuya Oishi, MD

This workshop is supported by an in-kind donation of equipment by Spes Medica.

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

1. Describe the orbital anatomy relevant to placement of needle electrodes in extraocular muscles;
2. Evaluate techniques for recording EMG activity from cranial nerves 3, 4, and 6; and
3. Employ sensitive, selective, and safe techniques for recording and interpreting intraoperative free-running and triggered EMG responses from cranial nerves 3, 4, and 6.

4:45pm Orbital Anatomy and Techniques for Recording EMG from Extraocular Muscles
Matthew Hoffman, DO, PhD, FACNS

5:20pm Deep Intraorbital Electrode EMG Recordings from Extraocular Muscles
Tatsuya Oishi, MD

Electrodiagnostic Evaluation of Neuromuscular Junction Disorders

Location: Oceans Ballroom 3-4

Session Director: Rabia Malik, MD

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

1. Describe the technique, physiology and common technical pitfalls of repetitive nerve stimulation studies;
2. Explain the technique, physiology and common technical pitfalls of single fiber EMG studies; and
3. List and recognize common and uncommon neuromuscular junction diseases.

4:45pm Pearls and Pitfalls in Repetitive Nerve Stimulation (RNS) Studies
Rabia Malik, MD

5:15pm Introduction to Single Fiber EMG (SFEMG)
Ryan Jacobson, MD

5:45pm Common and Uncommon Disorders of the Neuromuscular Junction
Olivia Gutgsell, MD

THURSDAY, FEBRUARY 29, 2024

Next Generation of Neurophysiology-Informed Clinical Trials in Hypoxic-Ischemic Brain Injury

Location: Oceans Ballroom 9-10

Session Directors: Jong Woo Lee, MD, PhD, FACNS and Edilberto Amorim, MD

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

1. Discuss the unresolved questions raised by the TELSTAR trial regarding indication for treatment of seizures and patterns in the ictal interictal continuum in HIBI, rationale for TELSTAR2 and GRECO trials;
2. Describe the mechanism of postanoxic status epilepticus treatment targeted by the VIGAB-STAT study; and
3. Describe the mechanism of postanoxic status epilepticus treatment targeted by the VIGAB-STAT study.

4:45pm Introduction

5:00pm RESTORE: buRst-supprESsion TO stop REfractory Status Epilepticus Post-Cardiac Arrest
Edilberto Amorim, MD

5:25pm VIGAB-STAT: A Mechanism-Based Clinical Trial of Postanoxic Status Epilepticus
Carolina Maciel, MD, MSCR

5:50pm TELSTAR2 and GRECO: Is There Sign of Intelligent Life after TELSTAR?
Michel van Putten, MD, PhD

Intraoperative Neurophysiologic Monitoring in the Surgical Treatment of Neurovascular Compression Syndromes

Location: Oceans Ballroom 11-12

Session Directors: Ignacio Regidor, MD, PhD and Aatif M. Husain, MD, FACNS

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

1. Know the basics of pre-surgical electrodiagnostic studies of cranial nerves in patients with neurovascular compression syndromes;
2. Perform technical troubleshooting and optimizing the available intraoperative neurophysiologic techniques for mapping and monitoring useful in these surgeries; and
3. Identify the neurophysiological changes in the operating room and apply alarm criteria.

4:45pm Introduction

4:50pm Preoperative Electrodiagnostic Studies of the Facial Nerve and Other Cranial Nerves
Lidia Cabañes-Martínez, MD, FACNS

5:15pm Intraoperative Neurophysiology during Microvascular Decompression Surgery for Hemifacial Spasm
Guillermo Martín Palomeque, MD, FACNS

5:40pm Intraoperative Neurophysiology During Microvascular Decompression Surgery for Trigeminal and Other Cranial Nerve Neuralgias
Jaime R. López, MD, FACNS

6:05pm Discussion

6:15 – 7:15pm

Welcome Reception
Exhibit & Poster Hall
Oceans Ballroom 5-8

FRIDAY, MARCH 1, 2024

7:00 – 8:30am

Breakfast
Exhibit & Poster Hall
Oceans Ballroom 5-8

8:00 – 9:30am

Course: Sleep Medicine Year in Review 2024: What Clinical Neurophysiologists Need To Know

Location: Oceans Ballroom 11-12

Course Co-Director: Madeleine M. Grigg Damberger, MD

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

1. Learn how sleep in being evaluated using stereo-EEG and used to assess seizure localization, cognitive function, and parasomnias;
2. Appreciate the latest developments in the impact of sleep and sleep disordered breathing in epilepsy, stroke, dementia, neuromuscular disorders, and neurodegeneration;
3. Understand how sleep contributes to brain health ; and
4. Recognize the newest clinical and neurophysiological features differentiating CNS disorders of hypersomnolence and the evolving role of machine learning.

8:00am Latest Developments in Sleep and Epilepsy
Birgit Frauscher, MD, PhD

8:25am Advances in Diagnosing and Understanding Central Hypersomnia Disorders
Nancy Foldvary-Schaefer, DO, MS

8:50am Best Studies on Impact of Sleep in Neurological Disorders
Madeleine M. Grigg-Damberger, MD, FACNS

9:15am Discussion

8:00 – 11:15am CONCURRENT SESSIONS

Course: ICU EEG Monitoring Part II

Location: Oceans Ballroom 1-2

Course Co-Directors: France Fung, MD, MSc, FACNS and Nicolas Gaspard, MD, PhD

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. Outline ACNS terminology and classification of background patterns in the ICU;
3. Understand how EEG monitoring is used for classification of encephalopathy;
4. Review use of CEEG and multimodal monitoring for other conditions (including anoxic brain injury, traumatic brain injury, brain death); and
5. Explore advanced examples of ICU EEG monitoring through illustrative and interactive cases.

8:00am Introduction

8:05am Advanced Concepts in QEEG for Seizure Detection in the ICU
Cecil D. Hahn, MD, MPH, FACNS

8:35am ACNS Terminology Part II
Hiba A. Haider, MD, FACNS, FAES

9:00am ICU EEG Monitoring for Acute Encephalopathy
Sarah E. Schmitt, MD, FACNS

9:25am Break

9:40am ICU EEG Monitoring in Acute Brain Injury
Sahar F. Zafar, MD, MSc

10:10am Advanced Multimodal Monitoring
Brandon Foreman, MD, MSc, FACNS, FNCS

10:35am Advanced Cases in ICU EEG Monitoring
Suzette LaRoche, MD, FACNS

11:00am Discussion

Course: Business of Clinical Neurophysiology

Location: Oceans Ballroom 3-4

Course Directors: Eva Ritzl, MD, MBA, FACNS, FAAN and Uma Menon, MD, MBA, FACNS

8:00am Bridging the Gap - How to Talk to the "Suits"
Jean E. Cibula, MD, FACNS

8:25am Health Systems and Payment
Gregory Kapinos, MD, MS

8:50am cEEG/IOM Billing
Marc R. Nuwer, MD, PhD, FACNS

9:15am Discussion

9:30am Break

9:45am Innovative Approaches to Resources
Deborah Briggs, MD, FACNS

10:10am Health Policy Update
Eva K. Ritzl, MD, MBA, FACNS

10:35am Conflictual Issues in CNP - What Happens if you are the "Suit"!
Matthew W. Luedke, MD, FACNS, FAAN

11:00am Discussion

FRIDAY, MARCH 1, 2024

Course: Stereo EEG Part II

Location: Oceans Ballroom 9-10

Course Co-Directors: Birgit Frauscher, MD, PhD and Ammar Kheder, MD

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

1. Understand the fundamental principles of SEEG and how to formulate anatomo-electro-clinical hypothesis;
2. Describe the clinical indications and patient selection criteria for SEEG, including the unique aspects of pediatric patients; and
3. Discuss planning, and interpretation of SEEG to aid in the diagnosis and management of patients with drug-resistant epilepsy.

8:00am Special Considerations in Pediatric Patients
Ammar Kheder, MD

8:30am Controversies in SEEG (Unilateral or Bilateral, Reimplant, Stimulation, Thalamic)
Patrick Chauvel, MD and Birgit Frauscher, MD, PhD and Ammar Kheder, MD

9:30am Break

9:45am Challenges in Functional Mapping with SEEG
Ravindra Arya, MD, DM

10:15am Lessons from SEEG Failures - Neurological and Neurosurgical Perspective
Stephan Schuele, MD, MPH, FACNS, FAAN and Robert Gross, MD, PhD

11:05am Discussion

9:30 – 9:45am

Coffee Break
Exhibit & Poster Hall
Oceans Ballroom 5-8

This break is supported, in part, by a grant from Nemours Children's Health

9:45 – 11:15am

Course: Challenging Evoked Potentials Cases

Location: Course 11-12

Course Director: Erik J. Kobylarz, MD, PhD

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

1. Explain the basics of evoked potential testing including the technical aspects of stimulation, recording, and signal generation;
2. Identify the components of brainstem auditory, visual, and somatosensory evoked potentials; and
3. Classify EP findings as normal or abnormal and provide an accurate interpretation of the findings when the study is abnormal.

9:45am Somatosensory Evoked Potentials (SEPs)
Matthew Hoffman, DO, PhD, FACNS

10:15am Brainstem Auditory Evoked Potentials (BAEPs)
Alan D. Legatt, MD, PhD, FACNS

10:45am Visual Evoked Potentials (VEPs)
Erik Kobylarz, MD, PhD

11:15am – 12:45pm

Lunch & Poster Presentations
Exhibit & Poster Hall
Oceans Ballroom 5-8

11:30am - 12:00pm

Speed Networking

Location: Oceans Ballroom Foyer

Meet and greet as many colleagues as possible in this face-paced networking event. Delegates are paired for 2-minute connections before rotating to the next colleague.

Don't forget to bring business cards!

12:00 - 1:00pm

Product Theater NON CME
Presented by: Ceribell
Location: Tarpon, 2nd Floor
See page 55 for complete information.

1:15 – 2:45pm General Session NON CME

Location: Oceans Ballroom 3-4

CME will not be offered at this session

1:15pm Presentation of the 2023 Robert S. Schwab Award
Paul Barkhaus, MD, FACNS

1:20pm Robert S. Schwab Award Lecture: "Motor Unit Potential: Measurements & Correlates"
Sanjeev D. Nandedkar, PhD

1:55pm ACNS Member Business Meeting

FRIDAY, MARCH 1, 2024

3:00 – 4:30pm CONCURRENT SESSIONS

Delving Deep into the Deep Learning for Neurophysiology

Location: Oceans Ballroom 1-2

Session Director: Giridhar Kalamangalam, MD, DPhil, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Discuss concepts of deep learning in artificial intelligence and its relationship with clinical neurophysiology and basic neuroscience;
2. Describe the application of deep learning to neurophysiological data for speech decoding and synthesis; and
3. Explain the evolution of learning computing structures and their application to the specific use case of visual systems.

3:00pm Introduction
Giridhar Kalamangalam, MD, DPhil, FACNS

3:15pm Deep Learning for the Neurophysiologist: An Introduction
Ravindra Arya, MD, DM, FACNS

3:40pm From Brainwaves to Speech: Illuminating the Path with Deep Learning and Electrophysiology
Abbas Babajani-Feremi, PhD

4:05pm Real Brains and Artificial Intelligence: A Closing Gap
Jose Principe

Ambulatory EEG: Clinical Indications and Challenges

Location: Oceans Ballroom 9-10

This session is supported, in part, by an unrestricted educational grant from US Neuro.

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

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Define the patient groups for which AEEG is a valuable solution;
2. Understand the capabilities and limitations of AEEG; and
3. Learn about best practices for ambulatory EEG.

3:00pm Ambulatory EEG: Best Practices and Limitations
Stephan Schuele, MD, MPH, FACNS, FAAN

3:25pm Ambulatory EEG: Clinical Indications and Filling the Gap of Healthcare Disparities in Epilepsy
Anna Serafini, MD

3:50pm Making Decisions: Which Pediatric Patients are Served Best by an Ambulatory EEG?
Loreto Rios-Pohl, MD

4:15pm Discussion

OPM-Based Magnetoencephalography: A New Perspective on Magnetic Neurophysiology

Location: Oceans Ballroom 11-12

Session Directors: Pegah Afra, MD, FACNS and Timothy P. Roberts, PhD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Recognize the multiple ways that OPM technology may impact magnetoencephalography, not just from increased sensitivity, but also by transformative opportunities to study participants who move;
2. Assess the relevance of OPM-based MEG to their research and clinical practice; and
3. Explain utility of OPM-based imaging, and how it helps us understand interactions between different regions of the nervous system during natural movement.

3:00pm Beyond Sensitivity: Other Enabling Opportunities of OPMs
Timothy P. Roberts, PhD

3:30pm MEG Based on Optically-Pumped Magnetometers: Current State and Clinical Potential
Joonas Iivanainen, MD

4:00pm OPM-Based Millisecond-Scale Functional Connectivity Between the Brain, Spinal Cord, and Muscle
Meaghan E. Spedden, PhD

4:30 – 4:45pm

Coffee Break
Exhibit & Poster Hall
Oceans Ballroom 5-8

FRIDAY, MARCH 1, 2024

4:45 – 6:15pm CONCURRENT SESSIONS

Cranial Nerve Conduction Studies Hands-On Workshop

Location: Oceans Ballroom 1-2

Session Director: Ruple S. Laughlin, MD, FACNS

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

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Perform cranial nerve conduction studies (facial, blinks, spinal accessory, masseter inhibitory reflex and Jaw jerk);
2. Identify technical factors that can alter the NCS findings; and
3. Understand when these tests would be of clinical utility, and interpret the findings in the context of disease.

4:45pm Cranial NCS: Facial Motor NCS, Spinal Accessory NCS and Blink Reflexes
Ruple S. Laughlin, MD, FACNS

5:30pm Cranial NCS: Masseter Inhibitory Reflex, Jaw Jerk, Lateral Spread Studies
Devon I. Rubin, MD, FACNS

Intraoperative Neurophysiological Monitoring of Human Cognitive Functions: Challenges and Limitations (Joint ACNS/CLA-IFCN Symposium)

Location: Oceans Ballroom 3-4

Session Directors: Daniel San Juan Orta, MD, FACNS, FAES and Kamylla Thiago de Almeida, MD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Review the cortical and subcortical IOM mapping of language and other cognitive functions. The Brazilian experience;
2. Describe practical adaptations of the premotor and visual IOM mapping in Mexico; and
3. Discuss advances, limitations and challenges to the implementation of intraoperative cortical-cortical evoked potentials in multiple centers, and potentials solutions.

4:45pm Practical Applications of Cortical and Subcortical IOM Mapping in Supplementary Motor Areas and Visual Cortices
Daniel San Juan Orta, MD, FACNS, FAES

5:15pm Implementation of Cortical and Subcortical IOM Mapping of Language and Other Cognitive Functions: The Brazilian Experience
Kamylla Thiago de Almeida, MD

5:45pm Use of Cortical-Cortical Evoked Potential in IOM of Cognitive Functions in Humans
Riki Matsumoto, MD, PhD

Ambulatory EEG

Location: Oceans Ballroom 9-10

Session 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. Recognize indications for AEEG and technical requirements for performing study;
2. Distinguish artifacts, epileptiform activity, and normal variants captured on AEEG recordings; and
3. Determine nature of spells captured on AEEG study.

4:45pm Introduction

4:50pm Epileptiform Activity and Benign Variants
Sandor Beniczky, MD, PhD, FACNS

5:15pm Diagnosis of "Spells"
Barbara Dworetzky, MD

5:40pm Pitfalls and Technical Limitations
Stephan Schuele, MD, MPH, FACNS, FAAN

6:05pm Discussion

The Role of the Thalamus During Stereoelectroencephalography (sEEG)

Location: Oceans Ballroom 11-12

Session 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 electrophysiological biomarkers from thalamic sEEG recordings;
2. Assess the evidence guiding implantation of thalamic nucleii during sEEG in anticipation of permanent DBS/RNS implantation; and
3. Evaluate the role of thalamic stimulation trials during sEEG.

4:45pm Potential Electrophysiological Biomarkers from Thalamic sEEG Recordings
Shruti Agashe, MD, MS, BME

5:10pm Evaluate the Role of Thalamic Stimulation Trials During sEEG
Nicholas Gregg, MD

5:35pm Assess the Evidence Guiding Implantation of Thalamic Nucleii During sEEG in Anticipation of Permanent DBS/RNS Implantation
Sandipan Pati, MD

SATURDAY, MARCH 2, 2024

7:00 – 8:30am

Breakfast
Exhibit & Poster Hall
Oceans Ballroom 5-8

7:00 – 8:00am

A Diverse & Inclusive ACNS: Past Efforts, the Path Forward

Location: Oceans Ballroom 11-12

Session Director: Suzette LaRoche, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Recognize past efforts to promote equity and inclusion within the Clinical Neurophysiology community;
2. Become familiar with issues that ACNS members recognize as obstacles and areas for improvement in the promotion of DEI; and
3. Identify opportunities for improving diversity, equity, and inclusion in the future.

7:00am Review of Past Symposia
Gloria M. Galloway, MD, MBA, FABEM, FACNS

7:10am Review of DEI Survey Results
Sasha Alick-Lindstrom, MD, FACNS, FAES, FAAN

7:20am Small Group Discussion
Gloria Galloway, MD, MBA, FABEM, FACNS, Jaime R. López, MD, FACNS, Sarah Schmitt, MD, FACNS and Suzette LaRoche, MD, FACNS

7:50am Report Out/Wrap Up

8:00 – 9:30am CONCURRENT SESSIONS

Course: SEEG Illustrative Case Discussions

Location: Oceans Ballroom 1-2

Course Director: Jun T. Park, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Understand how a hypothesis of epileptogenic zone is formulated;
2. Identify how a hypothesis of epileptogenic zone is used to strategize intracerebral electrode placements; and
3. Understand the concepts of SEEG.

8:00am Introduction
Jun T. Park, MD, FACNS

8:15 Illustrative Case Discussion I
Laurence Martineau, MD, FRCPc, CSCN (EEG)

8:40 Illustrative Case Discussion II
Roohi Katyal, MD

9:05 Illustrative Case Discussion III
Neel Fotedar, MD

Course: Neonatal Neuromonitoring

Location: Oceans Ballroom 3-4

Course Director: Adam L. Numis, MD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Compare and contrast the utility of continuous EEG (cEEG) versus clinical judgment or amplitude-integrated EEG (aEEG) for the diagnosis of seizures in the critically-ill neonate;
2. Assess the yield of cEEG for detection of neonatal seizures in high-risk conditions including hypoxia-ischemia, stroke, and congenital heart disease; and
3. Resolve the clinically relevant information that can be gained from cEEG in the evaluation of the term and preterm infant with neonatal encephalopathy.

8:00am Systematic Review of Continuous EEG (cEEG) in the Neonatal ICU: Comparing cEEG to Amplitude-Integrated EEG (aEEG) and Clinical Acumen for Seizure Identification
Courtney J. Wusthoff, MD, MS, FACNS

8:35am Resource Allocation of cEEG: Which High-Risk Neonates Should be Monitored for Evaluation of Seizures?
Shavonne Massey, MD, MSCE, FACNS

9:00am Beyond Seizures: Can cEEG Help Understand Brain Function and Prognosis in the Encephalopathic Term and Preterm Infant?
Tammy Tsuchida, MD, PhD, FACNS

9:25am Discussion

Course: Controversies in IOM

Location: Oceans Ballroom 9-10

Course Directors: Jamie R. López, MD, FACNS and Alejandro Zavala, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Identify important controversial topics in IOM, such as calculating the real cost/benefit of the NIOM;
2. Define the concept of "Scope of Practice Creep" in IOM;
3. Discuss the myths and realities about the "positive/improved" IOM changes that the surgeon wants to hear and how to avoid them; and
4. Discuss the ethics of providing surgeons with information they want to hear to retain them as clients.

8:00am Introduction
Jaime R. López, MD, FACNS and Alejandro Zavala, MD, FACNS

8:05am Brief Expert Panel Discussion of Controversial Topics in IOM followed by Audience Participation
Lidia Cabañes-Martínez, MD, FACNS, Ronald Emerson, MD, FACNS, Gloria Galloway, MD, MBA, FABEM, FACNS and Marc Nuwer, MD, PhD, FACNS

SATURDAY, MARCH 2, 2024

Neurophysiology of Delirium

Location: Oceans Ballroom 11-12

Session Director: Rishi Ganesan, MBBS, MD, DM, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Describe EEG findings in patients with delirium and its subtypes across the age spectrum;
2. Describe neurophysiological basis of delirium, and
3. Describe neurophysiological basis of delirium.

8:00am Raw & Quantitative EEG Changes in Delirium
Robert Fleischmann, MD

8:30am Network Dysconnectivity in Delirium
Rishi Ganesan, MBBS, MD, DM, FACNS

9:00am Newer Approaches to Studying Brain Networks in Delirium
Eyal Y. Kimchi, MD, PhD

9:30 – 9:45am

Coffee Break
Exhibit & Poster Hall
Oceans Ballroom 5-8

9:45 – 11:15am CONCURRENT SESSIONS

Course: Neuromodulation Workshop: Epilepsy and Beyond

Location: Oceans Ballroom 1-2

Course Director: Lawrence J. Hirsch, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Compare and contrast the indications and effectiveness of the 3 approved forms of neuromodulation for refractory epilepsy (VNS, RNS and DBS);
2. Describe the current and near-future utility of neuromodulation in a variety of pediatric neuropsychiatric conditions; and
3. Appreciate emerging non-invasive methods of neuromodulation and determine which patients with a variety of conditions (including epilepsy) might benefit.

9:45am Introduction

9:50am Neuromodulation for Epilepsy in Adults
Imran Quraishi, MD, PHD

10:15am Neuromodulation in Pediatric Neurology and Psychiatry
Carolina Gorodetsky, MD

10:40am Applications of Non-Invasive Neuromodulation
Melissa Tsuboyama, MD

11:05am Discussion

Complex Electrodiagnostic Waveforms – An Interactive Case-Based Approach to Interpreting Uncommon Waveforms

Location: Oceans Ballroom 3-4

Session Director: Devon I. Rubin, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Recognize the features and causes of unusual and complex nerve conduction study waveforms (motor, sensory, and repetitive nerve stimulation);
2. Identify atypical or complex EMG waveforms and distinguish among different types of EMG waveforms; and
3. Understand the significance of complex NCS and needle EMG waveforms in the context of peripheral nerve and neuromuscular disorders.

9:45am Complex Needle Electromyography Waveforms
Devon I. Rubin, MD, FACNS

10:25am Complex Nerve Conduction Study Waveforms
Christopher Lamb, MD

The EEG as a Window to the Sedated Brain

Location: Oceans Ballroom 9-10

Session Directors: Maria Bruzzone Giraldez, MD, MSCR, FACNS and Eyal Y. Kimchi, MD, PhD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Identify the key quantitative EEG findings of the developing brain under anesthesia;
2. Identify the key quantitative EEG findings of the developing brain under anesthesia; and
3. Distinguish the prevalent quantitative EEG patterns associated with altered states of consciousness in critically ill patients.

9:45am The EEG as a Window to the Sedated Brain in the Pediatric Population
Giulia Benedetti, MD

10:10am The EEG as a Window to the Sedated Brain in the Perioperative Setting
Paul S. Garcia, MD, PhD

10:35am The EEG as a Window to the Sedated Brain in the Critically Ill
Shawniqua Williams Roberson, M.Eng., MD, MSCI

11:00am Discussion

11:15am – 12:45pm

Lunch
Exhibit & Poster Hall
Oceans Ballroom 5-8

SATURDAY, MARCH 2, 2024

11:30am – 1:00pm

Career Development Panel: Career Pathways in Clinical Neurophysiology

Location: Oceans Ballroom 11-12

Session Directors: Ioannis Karakis, MD, PhD, MSc, FACNS and Lynn Liu, MD, MS (HPE), FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Provide examples of various career pathways in clinical neurophysiology;
2. Provide interactive advice on the pros and cons of each of these pathways; and
3. Assess how each of these pathways impact lifestyle and quality of life.

11:30am Introduction

11:40am The Practice of Clinical Neurophysiology in a Major Academic Center
Emily Gilmore, MD, MS, FNCS, FACNS

12:00pm The Practice of Clinical Neurophysiology in the Community
Rajdeep Singh, MD, MS, FACNS, FAES

12:20pm The Practice of Clinical Neurophysiology through Telemedicine
Eric Anderson, MD, PhD, MBA

12:40pm The Practice of Clinical Neurophysiology through Collaboration with Industry
M. Brandon Westover, MD, PhD

1:15 – 2:45pm GENERAL SESSION

Location: Oceans Ballroom 3-4

1:15pm Presentation of the 2024 Young Investigator Travel Awards
Lynn Liu, MD, MS (HPE), FACNS

1:25pm Presentation of the 2024 Herbert H. Jasper Award
Frank W. Drislane, MD, FACNS

1:30pm Herbert H. Jasper Award Lecture: "Rethinking Seizures: How Current Concepts Fail to Meet Clinical Needs"
Michael R. Sperling, MD, FACNS

2:05pm Presentation of the 2024 Pierre Gloor Award
Cecil D. Hahn, MD, MPH, FACNS

2:10pm Pierre Gloor Award Lecture: "A Review of Periodicity in Electroencephalography"
Gordon Bryan Young, MD, FRCPC, FAAN, FANA

3:00 – 4:30pm CONCURRENT SESSIONS

Botulinum Toxin Treatment Under EMG Guidance: Hands-On Workshop

Location: Oceans Ballroom 1-2

Session Director: Jaime R. López, MD, FACNS

This workshop is support by an in-kind donation of equipment from Abbvie, Inc. and Cadwell Industries.

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Understand the different botulinum;
2. Describe the benefit of using EMG; and
3. Accurately localize the commonly injected muscles in dystonia, spasticity, and migraine.

3:00pm Use of EMG Guidance and Hands-On Demonstration on How to Perform Botulinum Toxin Treatment Using Simulated Devices
Jaime R. López, MD, FACNS

3:25pm Botulinum Toxin Treatment in Neurologic Disorders-A Review
Felix Chang, MD

3:50pm Hands-On Demonstration on How to Perform Botulinum Toxin Treatment Using Simulated Devices
Alejandro Zavala, MD, FACNS

Advances in Ischemia Neuromonitoring: From the Angio Suite to the ICU and Operating Theater

Location: Oceans Ballroom 3-4

Session Directors: Edilberto Amorim, MD and M. Brandon Westover, MD, PhD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Describe applications and recent advances of machine learning for stroke prevention using intraoperative neurophysiology monitoring;
2. Understand the concepts and pitfalls of delayed ischemia prediction in subarachnoid hemorrhage; and
3. Identify barriers and opportunities to use rapid EEG for large vessel occlusion detection in adult and children in pre-hospital and emergency settings.

3:00pm Delayed Cerebral Ischemia Monitoring for Subarachnoid Hemorrhage in Critical Care: Qualitative and Quantitative Strategies
Jennifer Kim, MD, PhD

3:25pm Intraoperative Monitoring During Cardiovascular Interventions: Pushing the Envelope on Performance Through Machine Learning
Partha Thirumala, MD, FACNS

3:50pm Pre-Hospital and Emergency Room Rapid EEG Monitoring for Large Vessel Occlusion and Intracerebral Hemorrhage
Edilberto Amorim, MD

4:15pm Discussion

SATURDAY, MARCH 2, 2024

Starts, Ends, Surroundings, and Bends -- Effects of Anatomy on Recording and Stimulation of Action Potentials in Axons

Location: Oceans Ballroom 9-10

Session Director: Alan D. Legatt, MD, PhD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Describe how far-field potentials are generated by action potentials in axons only when they are located at certain anatomically-determined points in the axons;
2. Describe how electrical fields within tissue stimulate axons, and how nerves are most easily stimulated where they bend and/or traverse a bony foramen; and
3. Describe the current flows elicited by TCMS and TCES, and how the anatomy of the brain and the axonal trajectories affect which structures are stimulated.

3:00pm Effects of Anatomy on Generation of Far-Field Potentials from Propagating Action Potentials in Axons
Alan D. Legatt, MD, PhD, FACNS

3:30pm Biophysics of Stimulation of Axons and Action Potential Initiation Sites During Nerve Stimulation
Jonathan Norton, PhD, FACNS

4:00pm Axonal Anatomy, Stimulating Current Flow, and Action Potential Initiation Sites During Magnetic and Electrical Brain Stimulation
Tommi Raij, MD, PhD

Amyotrophic Lateral Sclerosis: Neurophysiological Natural History, Estimation and Quantification of Motor Units and Clinical-Electrophysiological Differential Diagnosis (Joint ACNS/ Latin American Chapter Symposium)

Location: Oceans Ballroom 11-12

Session Directors: Devon Rubin, MD, FACNS and Mark Bromberg, MD, PhD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Describe the anatomical and electrophysiological changes in motor nerves and muscle attributable to motor neuron degeneration/ALS;
2. Understand, interpret and use the information derived from the techniques used for the estimation/ quantification of motor units in motor neurone disease; and
3. Perform an appropriate approach to the clinical and electrophysiological diagnosis of motor neuron disease, in particular ALS.

3:00pm Clinical and Electrophysiological Differential Diagnosis with Diseases that Mimic ALS
Devon Rubin, MD, FACNS

3:30pm Methods of Estimation and Quantification of Motor Units including MUNE, MUNIX, CMAP Scan. etc.
Mark Bromberg, MD, PhD

4:00pm Natural History of Electrophysiological Changes in Motor Nerve Conductions and the Denervation Process in NMD/ALS
Gustavo E. Ramos Burbano, MD, MSci

4:30 – 4:45pm

Coffee Break
Oceans Ballroom Foyer

4:45 – 6:15pm CONCURRENT SESSIONS

New Trends in Electrical Source Imaging for Presurgical Epilepsy Evaluation: From Current Standard of Care to New Approaches

Location: Oceans Ballroom 1-2

Session Directors: Prachi Parikh, MD and Birgit Frauscher, MD, PhD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Discuss ESI and its use in presurgical evaluation by case demonstrations;
2. Review the different tools to faciliate ESI in clinical practice; and
3. Describe the role of ESI across different epileptic (interictal vs. Ictal) and vigilance (wake vs. NREM vs REM) states on ESI.

4:45pm ESI is Useful in our Presurgical Armamentarium: Case Series
Prachi Parikh, MD

5:10pm ESI: From Low-Resolution to Fully Automatic Approaches
Daniel Mansilla, MD

5:35pm Ictal ESI: Advantages and Pitfalls
Sandor Beniczky, MD, PhD, FACNS

6:00pm Discussion

SATURDAY, MARCH 2, 2024

Multimodal Monitoring in Comatose Patients: EEG and Vascular Correlations and Outcome Prediction

Location: Oceans Ballroom 3-4

Session Director: Olga Selioutski, DO, FACNS, FAES, FACN

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Define multimodal monitoring practices utilized in the ICUs;
2. List multimodal monitoring modalities applicable in comatose patients; and
3. Define principals of combined vascular and EEG monitoring modalities applicable in comatose patients with various etiologies of coma.

4:45pm Introduction

4:50pm Multimodal Monitoring Practices in the ICUs
Emily Gilmore, MD, MS, FNCS, FACNS

5:15pm Applicability of Near-Infrared Spectroscopy (NIRS) in ICU
Jennifer Kim, MD, PhD

5:40pm Applicability of Diffuse Correlation Spectroscopy (DCS) in Monitoring of Critically Ill Patients
Regine Choe, PhD

Brain Mapping During Surgery (Joint ACNS/ Spanish Society for Clinical Neurophysiology (SENFC) Symposium)

Location: Oceans Ballroom 9-10

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

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Define the various tools used in iONM for a safe and effective cortical mapping;
2. Plan a safe individual cortical mapping either in asleep or awake patients; and
3. Discuss common cortical mapping results and events.

4:45pm Introduction

4:55pm Mapping of Sensory and Motor Cortical Areas
Alan D. Legatt, MD, PhD, FACNS

5:20pm Peculiarities of Neurophysiological Mapping in Awake Patients
Victoria Fernandez, MD, PhD, FACNS

5:45pm Mapping of Language in Bilingual Patients
Estela Lladó- Carbó, MD, PhD

E/MEG Source Localization is Useful in Temporal Lobe Epilepsy: Myth or Fact

Location: Oceans Ballroom 11-12

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

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Understand the role of ESI and MSI in the presurgical evaluation of temporal lobe epilepsy and its mimics;
2. Interpret different patterns of EMSI source localization and their relationship to invasive recordings; and
3. Understand how advances in MEG signal analysis can improve the detection of deep mesial temporal generators and better characterize language networks.

4:45pm Introduction

4:50pm EEG Source Imaging in the Surgical Evaluation of Temporal Lobe Epilepsy
Benjamin Cox, MD

5:15pm Improving Detection of Hippocampal Epileptiform Activity Using Magnetoencephalography
Jeffrey Tenney, MD, PhD, FACNS

5:45pm Unraveling the Language Network: A Multi-Modal Approach with MEG and other Techniques
Abbas Babajani-Feremi, PhD

6:30 – 7:30pm

Special Interest Group (SIG) Socials NON CME

Stereo EEG - Oceans Ballroom 1-2
NIOM - Oceans Ballroom 9-10
ICU EEG - Oceans Ballroom 3-4
Business of Clinical Neurophysiology - Oceans Ballroom 11-12

SUNDAY, MARCH 3, 2024

7:00 – 8:30am

Breakfast
Oceans Ballroom Foyer

8:00 – 9:30am CONCURRENT SESSIONS

Thalamic Stereo EEG

Location: Oceans Ballroom 1-2

Session Directors: Ramya Raghupathi, MD and Prachi Parikh, MD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Highlight the significance of understanding thalamic function and its clinical applications;
2. Understand Thalamic sEEG: Gain insights into the principles, procedure, and importance of thalamic sEEG;
3. PExplore the criteria and considerations for selecting patients and indications for thalamic sEEG;
4. Discuss potential biomarkers and their implications derived from thalamic sEEG signals; and
5. Review implantation techniques, limitations, and potential complications from a neurosurgical standpoint on thalamic implantation.

8:00am Introduction

8:15am Case Discussion
Prachi Parikh, MD

8:40am Patient Selection and Indications
Francesca Pizzo, PhD

9:05am Implantation Strategies and Neurosurgery Perspective
Jimmy Yang, MD

Peripheral Neuropathies - Beyond Standard Neurophysiological Evaluation (Joint ACNS/Sociedade Brasileira de Neurofisiologia Clínica Symposium)

Location: Oceans Ballroom 11-12

Session Directors: Catherine Marx, PhD and Marcondes França Jr, MD, PhD

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Describe how to perform/interpret late onset responses and discuss how they can be used in the diagnosis/classification of peripheral neuropathies;
2. Describe the main causes of nodo/paranodopathies and key neurophysiological features in this group of neuropathies; and
3. Review the key features of sensory neuronopathies and review neurophysiological techniques to distinguish them from sensory.

8:00am Late Responses – A and F Waves - In the Assessment of Peripheral Neuropathies
Jose Antonio Garbino, MD, PhD

8:25am How to Recognize Nodo/Paranodopathies
Marcus Vinicius Pinto, MD, MS

8:50am Neurophysiological Techniques in the Differential Diagnosis Between Sensory Polyneuropathies and Sensory Ganglionopathies
Marcondes França Jr, MD, PhD

9:15am Discussion

Education and Training of Clinical Neurophysiology in Different International Health Care Systems. Are we Failing a Worldwide Need?

Location: Oceans Ballroom 3-4

Session Directors: Alejandro Zavala, MD, FACNS and Jaime R. López, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Identify the challenges in the training of clinical neurophysiologists in Spain, Mexico and the United States;
2. Describe the strengths in the training of physician clinical neurophysiologists in Spain, Mexico and the United States and propose applications of these strengths among the different health systems; and
3. Analyze the maldistribution of clinical neurophysiologists in Spain, Mexico and the United States, and propose possible incentives to alleviate the situation.

8:00am Introduction

8:10am Education and Training of Clinical Neurophysiology in Different International Health Care Systems. Are we Failing a Worldwide Need?
Jaime R. López, MD, FACNS

8:35am Education and Training of Clinical Neurophysiology in Different International Health Care Systems, the Situation in Mexico
Samantha Pineda, MD

9:00am Education and Training of Clinical Neurophysiology in Different International Health Care Systems. The Situation in Spain
Lidia Cabañes-Martínez, MD, FACNS

SUNDAY, MARCH 3, 2024

A Deeper Understanding of Some Aspects of Neurophysiology

Location: Oceans Ballroom 9-10

Session Director: David Gloss, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Describe why we use the stimulus settings for SSEPs;
2. Describe the underlying physiological changes of EEG changes seen during carotid surgery; and
3. Describe the meaning of positive results for direct brainstem MEPs.

8:00am Evoked Potential Settings
Eva K. Ritzl, MD, MBA, FACNS, FAAN

8:25am Whys of Motor Mapping
Alan D. Legatt, MD, PhD, FACNS

8:50am EEG Changes During Carotid Surgery
David Gloss, MD, FACNS

9:30 – 9:45am

Coffee Break
Oceans Ballroom Foyer

9:45 – 11:15am CONCURRENT SESSIONS

Psychiatry and Neurosurgery - Value of Auditory Evoked Potentials in High Risk Children and Adults (Joint ACNS/Egyptian Society of Neurology Symposium)

Location: Oceans Ballroom 1-2

Session Directors: Ayat Allah F. Hussein, MD and Aatif M. Husain, MD, FACNS

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Understand the basics of auditory evoked potentials, technical considerations in adults, normative values and clinical applications;
2. Understand auditory evoked potentials in infants and the normal development process and their role in assessment of Neurodevelopment delay in high risk Infants; and
3. Learn the value of auditory evoked potentials in predicting coma outcomes.

9:45am Auditory Evoked Potentials Basics, Technical Considerations and Clinical Applications in Adults
Hanan Hosney, MD

10:15am Utility of Auditory Evoked Potentials in Assessment of Neurodevelopment Delay in High Risk Infants
Ayat Allah F. Hussein, MD

10:45am Value in Predicting Coma Outcomes with Auditory Evoked Potentials
Aatif M. Husain, MD, FACNS

Exploring Continuous EEG Monitoring in the Critically Ill: Rapid Availability, Long-Term Monitoring Candidates, and Limited Montages

Location: Oceans Ballroom 3-4

Session Directors: Lidia Cabañes-Martínez, MD, FACNS and Adriana Bermeo-Ovalle, MD, FACNS, FAES

Learning Objectives:
At the conclusion of this activity, the learner will be able to:
1. Identify patterns that are highly associated with seizures and understand how can assist in identifying patients at heightened risk of experiencing seizures;
2. Acquire the knowledge to implement an early mobilization of EEG resources for the diagnosis of status epilepticus and gain insight into an EEG workflow that incorporates a risk-stratifying score; and
3. Identify rapid EEG and limited montages that are accessible and applicable within the local setting, thus expanding their utilization.

9:45am Introduction

9:50am Time is Brain: Accelerating Code Status Epilepticus to EEG Time
Guillermo Martín Palomeque, MD, FACNS

10:15am Embracing the 2HELPS2B Seizure Risk Score: A Valuable Approach for Seizure Detection in the Hospital Settings
Clio Rubinos, MD, MS, CR

10:40am Exploring Alternatives to Continuous EEG Monitoring: Beyond the Norm
Maria Bruzzone Giraldez, MD, MSCR, FACNS

11:05am Discussion

SUNDAY, MARCH 3, 2024

Research Highlights

Location: Oceans Ballroom 9-10

Session Director: Olga Taraschenko, MD, PhD

9:45am Implementation of a EEG Neuroanalyst Program Decreases Time to Seizure Detection & Seizure Burden
Hiba Haider, MD, FACNS, FAES

10:00am Enhanced Sensitivity of Electrocorticography During Awake Craniotomy Using a Novel Circular Grid Electrode
Brin Freund, MD

10:15am Varied Ion Channel Expression Explains Differences in Excitability Between and Within Human Peripheral Nerves in Vivo
Christopher Moore, PhD, FRCP

10:30am Non-invasive Somatosensory Mapping to Plan Intracortical Electrode Implants for Brain-computer Interfaces
Stephen Foldes, PhD

10:45am Centromedian Thalamic Deep Brain Stimulation for Idiopathic Generalized Epilepsy
Sihyeong Park, MD

Clinical Neurophysiology Resident and Fellow Symposium

Location: Oceans Ballroom 11-12

Session Directors: Pegah Afra, MD, FACNS and Jeffrey Britton, MD,FACNS

9:45am Seizure Detection and Lateralization by a Thalamic Deep Brain Stimulation System
Gloria Ortiz Guerrero, MD

10am Utility of RNS Therapy for Patients with Super-refractory Status Epilepticus
Christopher Martin, MD

10:15am Refractory Carpal Tunnel Syndrome Secondary to Gout-associated Synovial Hypertrophy: Role of Neuromuscular Ultrasound
Hemani Ticku, MD

10:30am Heart Ceasing and Breath Holding Spells
Patricia Bacus, MD

10:45am Using CT-Perfusion in Ictal-Interictal Continuum
Sukriye Damla Kara Barnes, MD

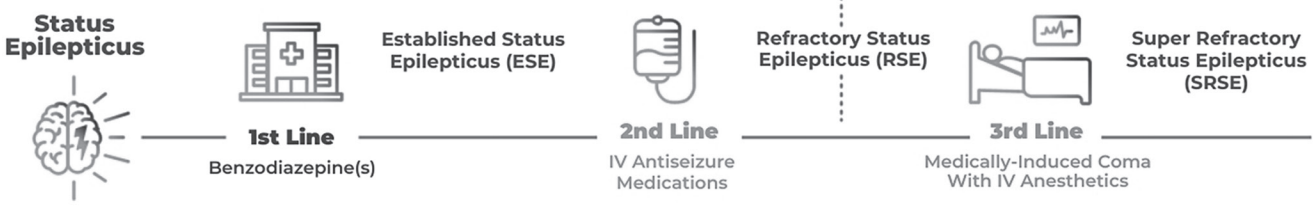
MARINUS

Through commitment, innovation, and community,

Marinus is dedicated to the development of treatments for status epilepticus and rare epilepsies

The RAISE Trial: **A clinical study evaluating the efficacy and safety of investigational IV ganaxolone in refractory status epilepticus**

raise



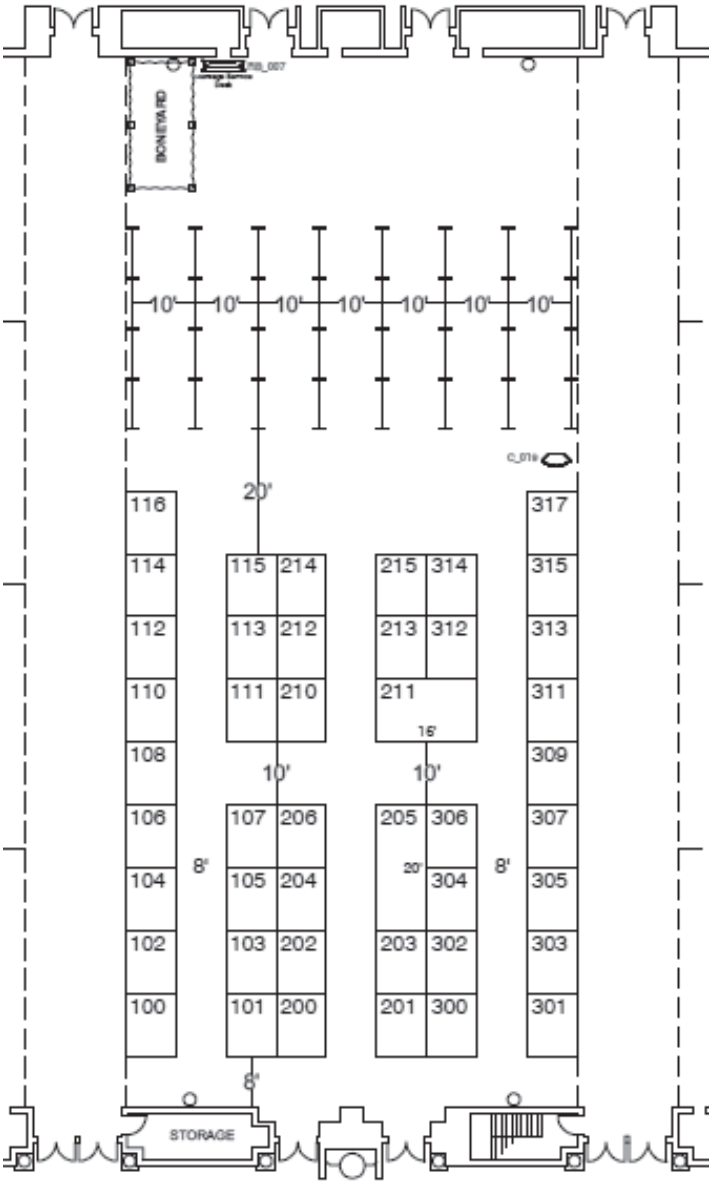
Intravenous ganaxolone is an investigational product not yet approved by the United States Food and Drug Administration (FDA).

To learn more, please visit us in the Exhibit Hall at Booth #116 or scan the QR code.

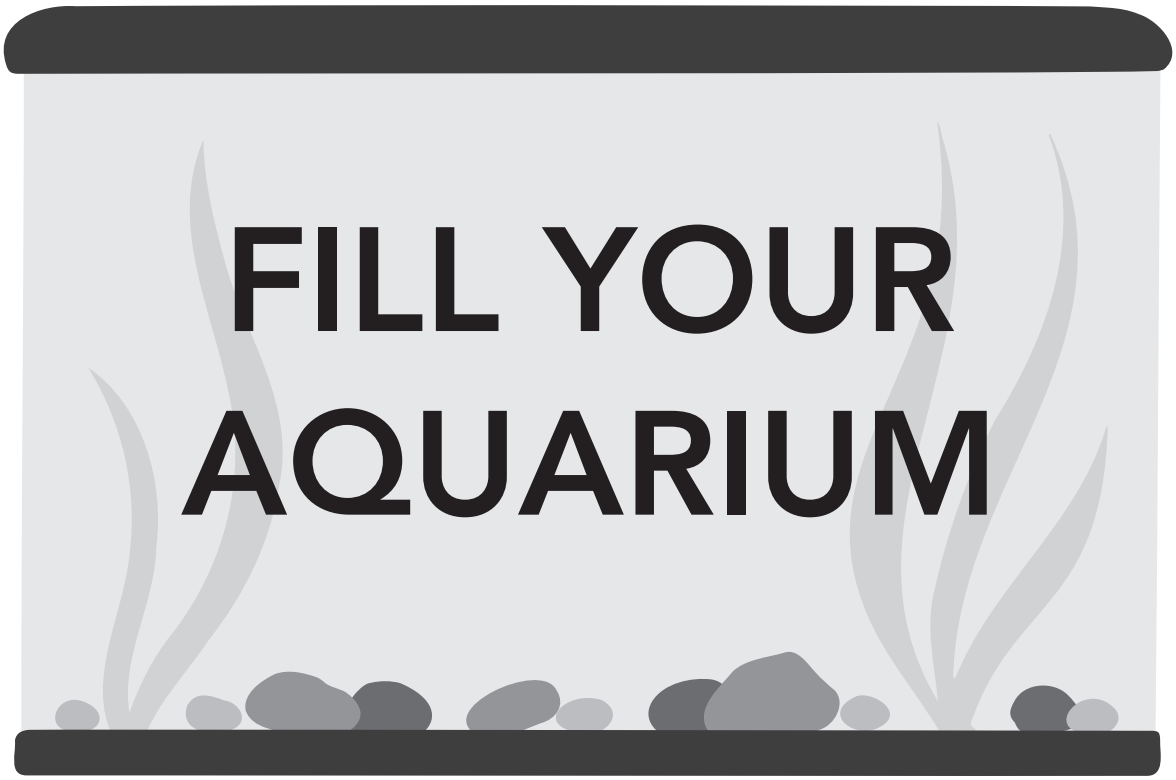
Contact us: medinfo@marinuspharma.com

EXHIBITS & PRODUCT THEATER

Oceans Ballroom



Booth #	Company Name
100	Compumedics
101	Neurotech, LLC
102	ASET - The Neurodiagnostic Society
103	g.tec medical engineering GmbH
104	ABRET Neurodiagnostic Credentialing and Accreditation
105	Lifesync
106	American Board of Clinical Neurophysiology
107	NATUS MEDICAL INC
108	Neurovative Diagnostics
110	RosmanSearch
111	Soterix Medical
113	inomed, Inc.
115	LVIS Corporation
116	Marinus Pharma
200	NeuroPace, Inc.
201	Persyst Development Corporation
202	DIXI Medical USA Corp.
203	Stratus
204	Agupunt USA Corp.
205	Ceribell
206	Vituity
207	Ceribell
210	Weaver and Company
211	Cadwell Laboratories, Inc.
212	Spes Medica USA
213	Neurelis Inc
214	Ochsner Health System
215	Nihon Kohden America
300	Next Gen Neuro
301	Neuromonitoring Technologies
302	Rhythmlink
303	www.neurosupply.com
304	CortiCare, Inc.
305	SpecialtyCare
306	SK Lifescience
307	Zeto, Inc
309	Zeto, Inc
310	Cadwell Laboratories, Inc.
311	One8 Foundation
314	US Neuro
317	Nemours Children's Health



Fill your ACNS Exhibit Hall Aquarium!

Collect fish stickers by visiting Exhibitors in the ACNS Exhibit Hall and fill your aquarium for a chance to win! Collect at least 6 stickers and return your aquarium card to the registration desk before 4:30pm on March 2nd to be entered in the raffle.

PRIZES INCLUDE:

Complimentary 2024-25 ACNS membership

Complimentary registration for the
2025 ACNS Annual Meeting & Courses in Baltimore, MD!

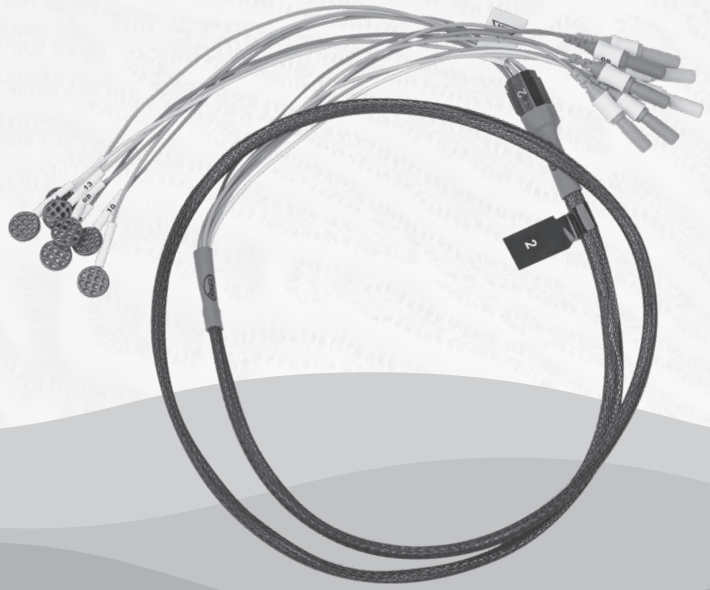
Three winners will be selected and announced via social media after the meeting.

Welcome to ACNS 2024 in Orlando, Florida!

Are you looking for ways to improve patient care or make your workflow more efficient?

If so then you should stop by **BOOTH 302** to see how Rhythmlink can help.

With a full line of FDA Cleared Disposable EEG Electrodes and custom options, there's a solution to meet your needs!



COME VISIT US AT
BOOTH 302

Rhythmlink®

866.633.3754
www.rhythmlink.com
sales@rhythmlink.com

104

ABRET Neurodiagnostic Credentialing and Accreditation
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.

204

Agupunt USA Corp.

106

American Board of Clinical Neurophysiology
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.

312

American Clinical MEG Society
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.

102

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.

211 & 310

Cadwell Laboratories, Inc.
909 N Kellogg Street
Kennewick, WA 99336
http://www.cadwell.com

Cadwell designs sophisticated neurological solutions for leading healthcare institutions across the globe. We are the third largest neurotechnology company in the world and our focused product 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.

205 – 207

Ceribell
2483 Old Middlefield Way
Suite 120
Mountain View, CA 94043
http://ceribell.com/index.html

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.

100

Compumedics
5015 West WT Harris Blvd
Suite E
Charlotte, NC 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.

EXHIBITOR INFORMATION

304

CortiCare, Inc.
5950 La Place Court
Suite #160
Carlsbad, CA 92008
https://corticare.com/

CortiCare provides continuous remote EEG Services for the ICU, NICU, or EMU using a robust infrastructure of registered EEG technologists and reading neurophysiologists. Our clinical team provides immediate notification of patient events so physicians can interpret neurocritical care data in real time. We are ready to provide support when and as needed. The CortiCap single-use, premeasured electrode set can be used by any healthcare staff to set up a 10-20 EEG and initiate CEEG monitoring quickly. For more information see us at Booth 304 or visit www.corticare.com.

202

DIXI Medical USA Corp.
11910 Fox Ridge Drive
Plymouth, MI 48170
http://www.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 202 and learn more about DIXI Medical USA's SEEG advantages or email info@diximedus.com

103

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.

113

inomed, Inc.
https://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.

112

JAZZ Pharmaceutical

105

Lifesync
https://www.lifesync.com/

LifeSync Neuro is a trusted partner in neurodiagnostic and neuromonitoring technology, with a wide array of products and services. All LifeSync products are known for excellent signal quality and patient comfort. Our competitively priced, in-stock products can be shipped quickly, so you have what you need, when you need it.

115

LVIS Corporation
https://lviscorp.com

We are excited to introduce LVIS's exclusive NeuroMatch® technology to attendees at the ACNS meeting. Visit us at booth 115 to experience firsthand our innovative techniques for reviewing EEG data.

116

Marinus Pharmaceuticals, Inc.
https://marinuspharma.com/

Marinus Pharmaceuticals, Inc. is developing treatments for seizure disorders. ZTALMY® (ganaxolone) oral suspension, CV is approved for seizures associated with cyclin-dependent kinase-like 5 (CDKL5) deficiency disorder in patients 2 years of age and older. Ganaxolone is being studied in other seizure disorders, including an investigational IV formulation for refractory status epilepticus.

107

Natus Medical, Inc.
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, IOM, LTM, Sleep, research and application products. We manufacture products, supplies and software solutions that provide detection, trending and monitoring for a range of conditions, including seizures, epilepsy and other disorders that affect the brain. Natus Neuro is comprised of the most widely used and trusted names in the industry, including Xltek®, Grass® and Nicolet®.

317

Nemours Children's Health
https://nemours.org

Nemours Children's Health is one of the nation's largest multistate pediatric health systems, which includes two free-standing children's hospitals and a network of more than 70 primary and specialty care practices. Nemours Children's seeks to transform the health of children by adopting a holistic health model that utilizes innovative, safe, and high-quality care, while also caring for the health of the whole child beyond medicine.Nemours places a strong emphasis on innovation and actively engage in cutting-edge research, clinical trials and medical breakthroughs to improve outcomes with the goal of enhancing the quality of life for families.

213

Neurelis, Inc.
https://neurelis.com

Neurelis, Inc. is an innovation-driven neuroscience company that provides a highly differentiated approach to target unmet medical needs. Neurelis is focused on the development and commercialization of product candidates and innovative delivery technologies for the broader central nervous system (CNS), including epilepsy and psychiatry. We are built on a foundation of people with a passion for progress and a passion for serving the needs of people with neurological disorders and those who care for them. In 2020, Neurelis reached a milestone in patient care with its first FDA-approved treatment. For more information, please visit http://www.neurelis.com.

301

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

NeuroPace, Inc.
455 N. Bernardo Avenue
Mountain View, CA 94043
http://www.neuropace.com

About the NeuroPace RNS® System: The RNS System is the world's first and only closed-loop brain-responsive neurostimulation system designed to prevent epileptic seizures at their source. The RNS System treats seizures by continuously monitoring brain waves, detecting unusual activity, and automatically responding with imperceptible electrical pulses before seizures occur. Physicians can program the detection and stimulation parameters of the implanted RNS neurostimulator to personalize therapy for each individual. The RNS® System is an adjunctive therapy for adults with refractory, partial onset seizures with no more than two epileptogenic foci. See important safety information at http://www.neuropace.com/safety/

101

Neurotech, LLC
626 W. Moreland Blvd
Waukesha, WI 53188
http://www.neurotecheeg.com

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

108

Neurovative Diagnostics
https://neurovativediagnostics.com/

Neurovative Diagnostics is a Joint Commissioned Accredited company, who was founded by individuals with direct clinical EEG expertise and business professionals, with over 50 combined years of experienced in the neurodiagnostic field. While there are other similar service providers which would provide you similar services, we are a company of our word and integrity. The services we offer, and the way we provide them, is what separates us from everyone else. We instill compassion, convenience, and comfort throughout the patient journey and our customer service is one of the highest in the industry.

300

Next Gen Neuro
3042 S County Road
475 East
Plainfield, IN 46168
http://www.teamngn.com

Next Gen Neuro (NGN) is a women and veteran-owned high quality, affordable EEG/cEEG service provider determined to make a difference in our field. 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.

215

Nihon Kohden America
15353 Barranca Parkway
Irvine, CA 92618
http://us.nihonkohden.com/

Nihon Kohden's Neurology product portfolio includes instrumentation for Epilepsy Monitoring, Electroencephalography, EEG & PSG Ambulatory Recording, Polysomnography, Wireless EEG & PSG, Home Sleep Testing/ PSG, Electromyography, Evoked Potentials, Intra-operative and cEEG ICU monitoring. Nihon Kohden's instrumentation offers the flexibility and expandability needed to meet the changing demands of today's neurodiagnostic field. In the U.S., the company is a trusted source for patient monitoring, sleep assessment, neurology and cardiology instrumentation solutions, and has been recognized for the highest customer satisfaction among U.S. hospitals and health systems for more than 10 consecutive years (MD Buyline). For more information, visit http://us.nihonkohden.com/.

214

Ochsner Health System
1514 Jefferson Highway
New Orleans, LA 70121
http://www.ochsner.org

Ochsner Health is recruiting Neurologists to join our growing team in Louisiana & Mississippi.

- Practice Neurology with Physician-led health system.
- Practice locations in the community or at our new state of the at neurosciences center.
- Limited on-call requirements.
- Competitive salary above most areas of the country.
- Electronic consults for immediate assistance without patient travel.
- Support of advanced rehab offerings in our innovative neurosciences center.
- Integrated Digital medicine (remote patient monitoring) to support a high touch care model.
- Telemedicine outpatient virtual visits.

Please view our website for more information and to apply: Ochsner.org/neurorecruitment

311

The Epilepsy & Pregnancy Medical Consortium (EPMC)
https://epilepsypregnancy.com/

The Epilepsy & Pregnancy Medical Consortium (EPMC) is dedicated to empowering people with epilepsy of childbearing age to advocate for their own care and helping clinicians to successfully meet the needs of their patients with epilepsy. In a single, reliable resource (epilepsypregnancy.com), we are standardizing and clarifying the information available around pregnancy and epilepsy. This includes giving doctors the knowledge and guidance to make informed decisions about pregnancy care. The information provided addresses all aspects of pregnancy care, from contraception to prenatal planning, to breastfeeding and postpartum care, and considers the needs of both people with epilepsy and their children.

201

Persyst Development Corporation
420 Stevens Avenue
Suite 210
Solana Beach, CA 92075
http://www.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.

302

Rhythmlink
http://www.rhythmlink.com

Rhythmlink® International, LLC designs, manufactures and distributes medical devices and provides custom packaging, private labeling, custom products and contract manufacturing to its customers. Rhythmlink is recognized as a leader within its field at providing the important physical connection between patients and the diagnostic equipment to record or elicit neurophysiologic biopotentials.

Originally founded by neurodiagnostic technicians and engineers in 2002, Rhythmlink strives to provide continuous innovation and superior quality in all of its products. Based in Columbia, SC, Rhythmlink's advancements and improvements in technology, business development and corporate branding have brought national and international recognition.

110

RosmanSearch
30799 Pinetree Road
Suite 250
Pepper Pike, OH 44124
http://www.rosmansearch.com

RosmanSearch is a Neurosurgery, Neurology and APP recruitment firm. We place quality providers with quality practices nationwide. We are the only search firm with dedicated teams specializing in neuroscience. Our mission is to be the best, the most expert, and the one that is known for quality—every time!

306

SK Lifescience
http://www.sklifescienceinc.com

At SK Life Science, we believe there is more to life when you connect health with happiness. We are a pharmaceutical company dedicated to finding new treatments that will address the needs of those living with central nervous system disorders. Together with our parent company, SK Biopharmaceuticals, we have a pipeline of eight compounds in development in CNS and oncology. For more information, please visit us at www.SKLifeScienceInc.com. As long as there are unmet needs, we keep working.

111

Soterix Medical
https://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 is launching its first intraoperative monitoring solution this year 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.

305

SpecialtyCare
3 Maryland Farms
Suite 200
Brentwood, TN 37027
http://www.specialtycareus.com

With over 1,500 clinicians supporting over 400,000 procedures annually, SpecialtyCare provides the highest quality people, services, and technology to the operating room. More than 1,000 hospitals and 13,500 physicians trust SpecialtyCare to achieve exceptional outcomes, regulatory compliance, and financial results. By maintaining the SpecialtyCare Operative Procedural Registry (SCOPE™), the largest procedural database of its kind, we identify standards, determine benchmarks, disseminate best practices, and foster innovations and efficiencies that improve patient outcomes. Accredited and certified by The Joint Commission, SpecialtyCare develops expertise beyond industry requirements. Customers trust our highly trained clinicians delivering excellence in neuro, cardiac, and surgical services.

212

Spes Medica USA
25 Storey Avenue
#118
Newburport, MA 1950
http://www.spesmedica.com

Spes Medica has over 20 years of experience in the development and production of neurodiagnostic products. Since the company was founded in 1999, today, we have valuable experience and know-how that enable us to provide high-quality and innovative solutions. The latest production technology, together with our highly qualified staff, meets high-quality standard products appreciated by our customers throughout the world.

EXHIBITOR INFORMATION

203

Stratus
4545 Fuller Drive
Suite 100
Irving, TX 75038
http://www.stratusneuro.com

Stratus is the nation's leading supplier of EEG solutions to hospitals and private practice. We strive to make EEG testing more efficient and effective for providers. Stratus offers an array of services, technology, and proprietary web-based EEG software to meet your needs. Our large pool of registered EEG techs provide EMU and ICU EEG monitoring 24/7/365, ambulatory and routine EEG, EEG pruning and annotation, and other solutions. We also support centralized and decentralized clinical trials.

314

US Neuro
http://usneuro.net

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

206

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.

210

Weaver and Company
http://weaverandcompany.com

Weaver and Company, manufacturer of Nuprep® Skin Prep Gel and Ten20®Conductive Paste was founded in Colorado, and now our products can be found in over 75 countries around the world. Nuprep lowers impedance to improve tracings. Ten20 allows electrodes to remain in place while allowing transmittance of electrical signals.

303

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.

307 – 309

Zeto, Inc
https://zeto-inc.com/

Zeto, Inc. is an award-winning, privately held medical technology company located in Santa Clara, California, that is focused on transforming the way electroencephalography (EEG) is performed at hospitals and clinics. Zeto's revolutionary FDA-cleared EEG headset and cloud platform bring the traditional EEG procedure to the 21st century.

PRODUCT THEATERS NON CME

This session is supported and programmed by Ceribell and will feature presentations on topics and technologies selected by Ceribell. CME credits are NOT available for this Product Theater.

FRIDAY, MARCH 1

12:00 - 1:00pm
Location: Tarpon, 2nd Floor

The Promise of AI in EEG Neurodiagnostics

Presented by: Ceribell
Speaker: Josef Parvizi, MD, PhD

Participants will learn about the opportunities and limitations of AI in healthcare in general and EEG interpretation in particular. The session will showcase real world stories to demonstrate how AI-powered point-of-care EEG can supplement conventional EEG practice and the impact it can have on critical care decision making at the bedside. The session will also address the problem of inter-rater variability in EEG interpretation, how AI training is affected by it, and how optimal AI designs may solve pervasive inconsistencies in the interpretation of ictal-interictal continuum cases.

NOTES

SAVE THE DATE

2025 ACNS ANNUAL MEETING AND COURSES

BALTIMORE

BALTIMORE MARRIOTT WATERFRONT

FEBRUARY 26-MARCH 2