

Final Program

ACNS FALL COURSES



SAN DIEGO

Sept. 30 - Oct. 2, 2022
Loews Coronado Bay
San Diego, California

TABLE OF CONTENTS

ACNS INFORMATION

About the American Clinical Neurophysiology Society	3
ACNS Officers and Council	3
Fall Course Committees	3
ACNS Executive Office	3

GENERAL MEETING INFORMATION

Important Dates	4
Lunch Workshops	4
Beach Reception	4
On-Demand Access	4
Course Handouts	4
Photography and Recording Policy	4
Privacy Policy	4
Meeting Conduct, Safety, and Responsibility Policy	5

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

About the Fall Courses	6
Target Audience	6
Accreditation Statement	6
Credit Designation	6
ASET CEUs	6
Learning Objectives	6
Conflict of Interest Disclosures	8

SCHEDULE-AT-A-GLANCE

12

COURSE AGENDAS

Friday, September 30, 2022

Basic EEG – Part I	13
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Saturday, October 1, 2022

Basic EEG – Part II	13
ICU EEG Monitoring – Part I	13
Basic NIOM – Part I	13
Lunch Workshops	14
ICU EEG Monitoring – Part II	14
Stereo EEG – Part I	14
Basic NIOM – Part II	14
Evoked Potentials	15
Neonatal EEG	15
Sleep	15

Sunday, October 2, 2022

Stereo EEG – Part II	15
ICU EEG Monitoring – Part III	16
Advanced NIOM	16

EXHIBITORS & SUPPORTERS

17

ABOUT THE AMERICAN CLINICAL NEUROPHYSIOLOGY SOCIETY



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

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

ACNS OFFICERS AND COUNCIL

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Jamie R. López, MD, FACNS
Stanford University

First Vice President

Saurabh R. Sinha, MD, PhD, FACNS
University of Pennsylvania

Second Vice President

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University of Kentucky

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Nicholas S. Abend, MD, MSCE, FACNS
Children's Hospital of Philadelphia

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Immediate Past President

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Past President

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Weill Cornell Medicine

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Rush University Medical Center

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Elizabeth Gerard, MD, FACNS
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Yafa Minazad, DO, FACNS
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Journal Editor

Stephan U. Schuele, MD, MPH, FACNS
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AMA Officer

Marc R. Nuwer, MD, PhD, FACNS
University of California, Los Angeles

FALL COURSES COMMITTEES

COURSE COMMITTEE

Co-Chairs

Meriem Bensalem-Owen, MD, FACNS
Hiba A. Haider, MD, FACNS, FAES

Co-Chairs-Elect

Ruple S. Laughlin, MD, FACNS
Lynn Liu, MD, FACNS

Members

Pegah Afra, MD, FACNS
Maureen P. Carroll, R.EEG/EPT, RPSGT,
CNIM
Naiara Garcia-Losarcos, MD
Elizabeth Gerard, MD, FACNS
Cecil D. Hahn, MD, MPH, FACNS
Giridhar Kalamangalam, MD, DPhil,
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Vasileios Kokkinos, PhD
Leslie Lee, MD, FACNS
Shavonne Massey, MD, FACNS
Jonathan A. Norton, PhD, FACNS
Devon I. Rubin, MD, FACNS
Mirela V. Simon, MD, Msc, FACNS

Ex-Officio

Nicholas S. Abend, MD, MSCE, FACNS
Jong Woo Lee, MD, PhD, FACNS
Sarah E. Schmitt, MD, FACNS
Courtney J. Wusthoff, MD, MS, FACNS

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CME COMMITTEE

Co-Chairs

Jong Woo Lee, MD, PhD, FACNS
Sarah E. Schmitt, MD, FACNS

Co-Chairs-Elect

Ann Hyslop, MD, FACNS
Monica P. Islam, MD, FACNS

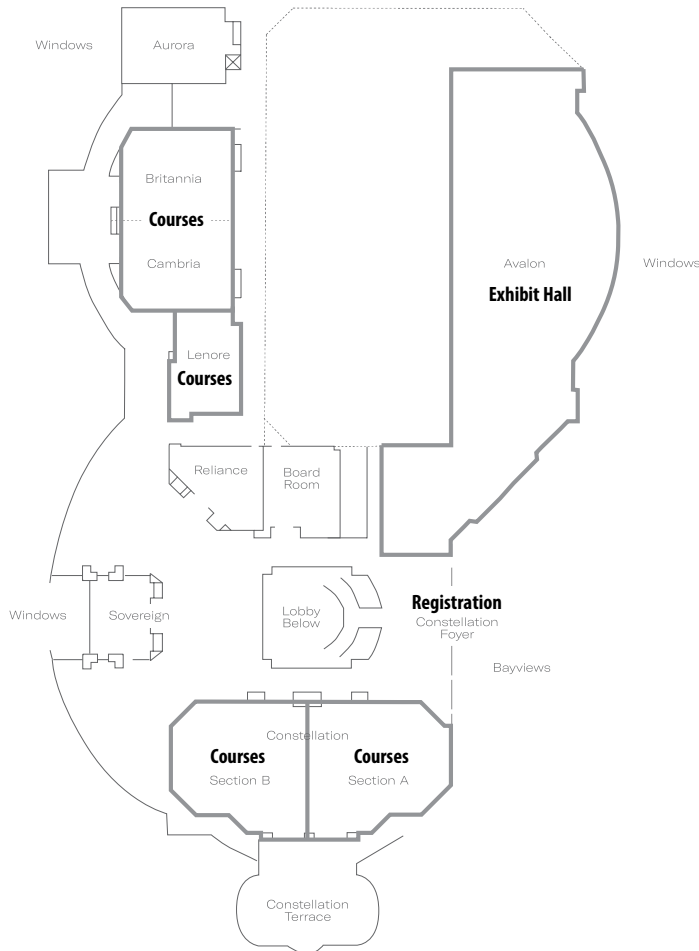
Members

Pegah Afra, MD, FACNS
Sasha Alick-Lindstrom, MD
Kapil Arya, MBBS, FAAP, FANA, FACNS
Tyson Burghardt, MD
Elizabeth Gerard, MD, FACNS
Rejean M. Guerriero, DO
James J. Gugger, Jr., MD, PharmD
Hiba Haider, MD, FACNS, FAES
Abeer J. Hani, MD, FACNS
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Mohammed Ilyas, MD, FACNS
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Eliane Kobayashi, MD, PhD
Xiangping Li, MD
Jennifer McKinney, MD, FACNS
Yara Mikhaeil-Demo, MD, FACNS
Moshe A. Mizrahi, MD
Ismail S. Mohamed, MD, FACNS
Iryna Muzyka, MD, FACNS
Juan Ochoa, MD, FACNS
Joel Oster, MD, FACNS
Kimberly Pargeon, MD, FACNS, FAES
Jun T. Park, MD, FAES, FACNS
Ognen A. Petroff, MD, FACNS, FAES
FAAN
Prasad N. Policherla, MD, FAHA, FAAN
Chrystal M. Reed, MD, PhD
Maria C. Sam, MD, FACNS
Fahd Sultan, MD, FACNS
Andrew James Zillgitt, DO, FACNS,
FAES

GENERAL INFORMATION

IMPORTANT DATES

Handout Site Open	October 6 - November 20, 2022
On-Demand Courses Available	October 6 - November 20, 2022
Claim CME Deadline	December 31, 2022



LUNCH WORKSHOPS

Continue the conversation with industry peers in interactive lunch workshops on Saturday, October 1 at 12:00pm in the following areas of interest:

ICU EEG – The ICU EEG “Ask the Experts” lunch session will give the audience a chance to ask questions and share their difficult cases with our panel of pediatric and adult experts in neurophysiology and epilepsy in the critical care setting.

NIOM – The NIOM lunch session will allow the audience to ask questions to an experts panel on current practice of intraoperative monitoring and allow an opportunity to explore current controversies in the field. If time allows, representative cases will be discussed to facilitate further discussion.

Stereo EEG – The SEEG lunch workshop provides the participants an opportunity to ask practical questions and bring up specific clinical or equipment challenges. The roundtable format allows for sharing of experiences in an informal way and learning from peers.

See page 14 for complete information.

BEACH RECEPTION

Join us at Silver Strand State Beach, just a 5 minute walk from the resort, for conversations with colleagues, appetizers and a limited bar. Shuttle service is available upon request.

ON-DEMAND ACCESS

Courses will be available on-demand from Thursday, October 6 - Sunday, November 20, 2022 at 11:59pm ET. An email will be sent to those who purchased on-demand access after the meeting from info@acns.org.

COURSE HANDOUTS

An email was sent from info@acns.org to all course attendees with website and login information.

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.

PRIVACY POLICY

The American Clinical Neurophysiology Society (ACNS) has a strong commitment to privacy. This statement outlines the policies and procedures concerning information gathering and dissemination practices related to www.acns.org, as well as member, meeting attendee, and sponsor/supporter (collectively, “users”) data. This policy is in accordance with the European General Data Protection Regulations (GDPR). Visit <https://www.acns.org/privacy-policy> for complete information.

MEETING CONDUCT, SAFETY, AND RESPONSIBILITY POLICY

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

Responsible Drinking

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

Personal Safety and Security

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

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

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

Unacceptable Behavior

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

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

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

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

ABOUT THE FALL COURSES

The 2022 Fall Courses are designed around new and rapidly evolving areas of clinical neurophysiology. Educational activities will cover both basic methodologies and innovative techniques.

TARGET AUDIENCE

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

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 Fall Courses for the maximum number of *AMA PRA Category 1 Credit(s)*[™] indicated below:

Advanced Neurophysiologic Intraoperative Monitoring (NIOM): 5.00 *AMA PRA Category 1 Credits*[™]

Basic EEG - Part I: 2.00 *AMA PRA Category 1 Credits*[™]

Basic EEG - Part II: 4.00 *AMA PRA Category 1 Credits*[™]

Basic Neurophysiologic Intraoperative Monitoring (NIOM) – Part I: 4.00 *AMA PRA Category 1 Credits*[™]

Basic Neurophysiologic Intraoperative Monitoring (NIOM) – Part II: 2.75 *AMA PRA Category 1 Credits*[™]

Evoked Potentials: 2.00 *AMA PRA Category 1 Credits*[™]

Intensive Care Unit EEG Monitoring (ICU EEG) – Part I: 4.00 *AMA PRA Category 1 Credits*[™]

Intensive Care Unit EEG Monitoring (ICU EEG) – Part II: 2.75 *AMA PRA Category 1 Credits*[™]

Intensive Care Unit EEG Monitoring (ICU EEG) – Part III: 5.00 *AMA PRA Category 1 Credits*[™]

Neonatal EEG: 2.00 *AMA PRA Category 1 Credits*[™]

Sleep: 2.00 *AMA PRA Category 1 Credits*[™]

Stereo-Electroencephalography (Stereo EEG) – Part I: 2.75 *AMA PRA Category 1 Credits*[™]

Stereo-Electroencephalography (Stereo EEG) – Part II: 5.00 *AMA PRA Category 1 Credits*[™]

The number of credits above also constitutes the estimated time to complete each 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 up to 16 ASET-CEUs total for either on-demand or in-person option.

LEARNING OBJECTIVES:

Intensive Care Unit EEG Monitoring (ICU EEG) – Parts I, II and III

At the conclusion of this course, participants should be able to:

1. Recognize common indications for CEEG in the ICU setting in neonates, children, and adults;
2. Interpret EEG patterns encountered in the ICU, including seizures, periodic patterns and other background patterns important for prognosis and management;
3. Select appropriately-dosed treatment options for seizures and status epilepticus, and recognize the nuances in approach to treatment based on EEG findings in nonconvulsive SE, or with rhythmic/periodic patterns that lie on the ictal interictal continuum;
4. Utilize quantitative EEG methods to see long-term trends, screen for seizures rapidly, and to detect signs of ischemia;
5. Describe the value and limitations of EEG monitoring to predict neurologic outcomes in hypoxic-ischemic encephalopathy and stroke;
6. Describe the value of EEG in the management and outcome prediction in ICU in patients with suspected autoimmune and inflammatory conditions.
7. Select appropriate equipment for EEG and ICU neuromonitoring, if continuous EEG is not always available and resources are limited

Basic Neurophysiologic Intraoperative Monitoring (NIOM) – Part I and II and Advanced Neurophysiologic Intraoperative Monitoring (NIOM)

At the conclusion of this course, participants should be able to:

1. Describe basic modalities used in NIOM;
2. Discuss the appropriate methods and indications for a variety of common and uncommon NIOM techniques;
3. List differences in NIOM of adult and pediatric cases;
4. Explain a variety of NIOM case presentations and interpretation of neurophysiologic data;
5. Identify Advance Neurophysiologic Intraoperative Monitoring (NIOM) some of the technical challenges and limitations of performing and interpreting NIOM studies; and
6. Discuss relevant billing and medicolegal concerns in the field of NIOM.

Stereo-Encephalography (Stereo EEG) – Parts I and II

At the conclusion of this course, participants should be able to:

1. Identify the principles of SEEG;
2. Discuss the approach to various epilepsy syndromes with SEEG; and
3. Describe the limitations of SEEG and surgical risk.

Evoked Potentials

At the conclusion of this course, participants should be able to:

1. Discuss the basic principles of Evoked Potentials (EPs);
2. Identify the fundamental tenets of signal generation and localization, technical considerations of stimulation and recording;
3. Explain interpretation and reporting guidelines of various types of EPs; and
4. Identify normal and abnormal examples presented to demonstrate the utility of EPs in clinical practice.

Neonatal EEG

At the conclusion of this course, participants should be able to:

1. Identify normal and abnormal EEG background patterns;
2. Identify normal preterm infant background patterns;
3. Identify electrographic neonatal seizures; and
4. Discuss common neonatal seizure management strategies.

Basic EEG – Parts I and II

At the conclusion of this course, participants should be able to:

1. Explain the basics in electroencephalography (EEG);
2. Identify the fundamental tenets of signal generation, technical considerations of signal acquisition, types of EEG recordings and reporting standards;
3. Recognize normal EEG examples and their variants across various age groups that are presented and contrasted with artifacts; and
4. Discuss both non-epileptiform and epileptiform abnormalities that are demonstrated and their relationship with underlying neurologic disorders.

Sleep

At the conclusion of this course, participants should be able to:

1. Recognize the sleep related epilepsies, in particular the clinical and electrographic manifestations of sleep-related hypermotor epilepsy;
2. Illustrate the concept of electro-clinical correlation in the sleep laboratory evaluation of sleep-related seizures and parasomnias;
3. Review the semiological features that differentiate seizures and REM and NREM parasomnias;
4. Review the clinical and electrographic features of NREM parasomnias incorporating illustrative videos; and
5. Discuss how the clinical semiology of propriospinal myoclonus differs from other sleep/wake transition movements and sleep-related movement disorders.

Certificates of Attendance & CME Certificates

CME certificates will be available to registered delegates at the end of each day of the meeting at <https://www.acns.org/meetings/fall-courses/2022-fall-courses/cme--ceu-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 Fall Courses 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 may 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 documentation. Please contact ACNS at info@acns.org for any questions. ACNS asks that all CME certificates be claimed no later than December 31, 2022.

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 relevant financial relationships with any commercial interest pertaining to the content of the presentation. Should it be determined that a conflict of interest exists as a result of a financial relationship of a planner of the CME activity, the planner must recuse himself or herself from the planning for that activity or relevant portion of that activity. All presentations for which the presenter disclosed a potential conflict of interest are peer reviewed by two members of the ACNS CME Committee with no relationships. If bias is found, the presenter is asked to make changes to the presentation and it is re-reviewed for bias before final approval. Refusal to disclose a conflict or the inability to resolve an identified conflict precludes participation in the CME activity.

Complete conflict of interest disclosure information is printed in the final program for the activity. A learner may request additional information regarding the nature of a planner or speaker's disclosure if "No Relevant Relationships" has been indicated below. To request additional information, contact the ACNS Executive office at info@acns.org.

CONFLICT OF INTEREST DISCLOSURES

FULL NAME	ROLE	ORGANIZATION	FINANCIAL RELATIONSHIPS
Nicholas S. Abend, MD, MSCE, FACNS	Planner	CHOP / UPenn	No Relationships
Pegah Afra, MD, FACNS	Planner; Reviewer	Weill Cornell Medicine	LivaNova (a); UCB (a)
Sasha Alick-Lindstrom, MD, FACNS	Reviewer	University of Texas Southwestern	No Relationships
Edilberto Amorim, MD, PhD	Speaker	University of California San Francisco	No Relationships
Tayyba Anwar, MD	Speaker	Children's National Hospital	No Relationships
Kapil Arya, MD, MBBS, FAAP, FANA, FACNS	Reviewer	Arkansas Children's Hospital	No Relationships
Meriem Bensalem-Owen, MD, FACNS	Planner; Speaker	University of Kentucky	Neuropace (a); UCB (a)
Adriana Bermeo-Ovalle, MD, FACNS, FAES	Planner	Rush University Medical Center	Bioserenity/Digitrace (b); Eisai Pharmaceuticals (d); Monteris Medical (b); Neurelis Pharmaceuticals (d); SK Life Science (d); Sunovion Pharmaceuticals, Inc. (d)
Tyson Burghardt, MD	Reviewer	Michigan State University	No Relationships
Maureen P. Carroll, REEG, EPT, RPSGT, CNIM	Planner	ASET-The Neurodiagnostic Society	No Relationships
Felix Chang, MD	Speaker	Stanford University	No Relationships
Robert Ryan Clancy, MD	Speaker	Perelman School of Medicine at the University of Pennsylvania	No Relationships
Ronald Emerson, MD, FACNS	Speaker	Hospital for Special Surgery, Weill Cornell Medical Center	Amgen (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)
Nancy Foldvary-Schaefer, DO, MS	Planner; Speaker	Cleveland Clinic	Jazz Pharmaceuticals (a, e); Suven (a); Takeda (a); Vanda pharm (a)
France Fung, MD	Speaker	University of Pennsylvania, Children's Hospital of Philadelphia	No Relationships
William Gallentine, DO, FACNS	Speaker; Planner	Stanford University	No Relationships
Gloria M. Galloway, MD, MBA, FACNS	Speaker; Planner	Ohio State Wexner Medical Center	No Relationships
Naiara Garcia Losarcos, MD	Planner	University Hospitals Cleveland Medical Center	No Relationships
Elizabeth E. Gerard, MD, FACNS	Speaker; Planner; Reviewer	Northwestern University	Eisai Company (a); Xenon Pharmaceuticals (a)

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

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

FULL NAME	ROLE	ORGANIZATION	FINANCIAL RELATIONSHIPS
Andres Gonzalez, MD, MMM, FAAN, FACNS	Speaker	University of Southern California	No Relationships
Madeleine M. Grigg-Damberger, MD, FACNS	Planner; Speaker	University of New Mexico	No Relationships
Rejean Guerriero, DO	Speaker; Reviewer	Washington University School of Medicine	No Relationships
James Gugger Jr., MD, PharmD	Reviewer	University of Pennsylvania	No Relationships
Cecil D. Hahn, MD, MPH, FACNS	Planner	The Hospital for Sick Children	Holberg EEG (b); Takeda (a, b); UCB Biopharma SPRL (a, b)
Hiba A. Haider, MD, FACNS, FAES	Planner; Reviewer	Emory University School of Medicine	UpToDate, Inc. (g)
Abeer J. Hani, MD, FACNS	Reviewer	Lebanese American University	No Relationships
Dana Harrar, MD, PhD	Speaker	Children's National Hospital	No Relationships
Aline Herlopian, MD	Speaker	Yale University	No Relationships
Megan M. Hille, CMP, CAE	Planner	American Clinical Neurophysiology Society	No Relationships
Lawrence J. Hirsch, MD, FACNS	Speaker; Planner	Yale University	Accure (b); Aquestive (b); Ceribell, Inc. (b); Eisai (b); Marinus (b); Medtronic (b); Natus Neuroscience (g); Neurelis (b); Neuropace (b, g); Rafa Laboratories, LTD (b); UCB (b, g)
Sara E. Hocker, MD	Speaker	Chair, Division of Neurocritical Care & Hospital Neurology, Department of Neurology, Mayo Clinic	No Relationships
Ann Hyslop, MD, FACNS	Speaker; Reviewer	Stanford University School of Medicine	Aquestive Therapeutics (d); Eisai Pharmaceuticals (e); Jazz Pharmaceuticals (d, e); Supernus (e)
Akio Ikeda, MD, PhD, FACNS	Reviewer	Department of Epilepsy, Movement Disorders and Physiology, Kyoto University Graduate School of Medicine	Eisai Pharmaceuticals (a); NIHON KOHDEN CORPORATION (a); Otsuka Pharmaceutical Co (a); UCB Japan Co (a)
Mohammed Ilyas, MD	Reviewer	University of Missouri-Kansas City	Greenwich Biosciences (e); Zogenix (e)
Monica P. Islam, MD, FACNS	Reviewer	Nationwide Children's Hospital/ The Ohio State University	Abbott Inc. (c); Abbvie Inc (c); Eli Lilly (c); Pfizer (c)
Eric Jones, CNIM, R.EEG/EP T, CLTM	Speaker	Stanford Healthcare	No Relationships
Giridhar Kalamangalam, MD, DPhil, FACNS	Planner	University of Florida Department of Neurology	No Relationships
Ioannis Karakis, MD, PhD, MSc, FACNS	Planner; Speaker	Emory University	Glaxo SmithKline (e)
Fawad Khan, MD, FACNS	Reviewer	The International Center for Epilepsy at Ochsner, Ochsner Health System	Eisai (b); Marinus (a); SK Life Science (d); UCB (a, d); Zimmer Biomet (b)
Eliane Kobayashi, MD, PhD	Reviewer	Epilepsy service and EEG Department, Montreal Neurological Hospital	Eisai Canada (f); Sunovion Pharmaceuticals, Inc. (f); UCB Canada (a, f)
Vasileios Kokkinos, PhD	Planner	Massachusetts General Hospital	No Relationships
Suzette LaRoche, MD, FACNS	Planner	Mission Health, Asheville NC	No Relationships
Ruple Laughlin, MD, FACNS	Planner	Mayo Clinic	No Relationships
Jong Woo Lee, MD, PhD, FACNS	Speaker; Planner; Reviewer	Brigham Health	Bioserenity/Digitrace (f); SK Life Science (b); Soterya (g); Teladoc (f)

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

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

FULL NAME	ROLE	ORGANIZATION	FINANCIAL RELATIONSHIPS
Leslie Lee, MD, FACNS	Planner	Stanford University	No Relationships
Alan D. Legatt, MD, PhD, FACNS	Speaker	Albert Einstein College of Medicine, Bronx, New York	Glaxo SmithKline (c); Johnson & Johnson (c); Merck Group (c); Pfizer (c); TEVA (c); Viartis (c)
Xiangping Li, MD	Reviewer	The University of Texas Medical Branch	No Relationships
Lynn Liu, MD, MS (HPE), FACNS	Planner	University of North Carolina Chapel Hill	Moderna (c); Pfizer (c)
Jaime R. Lopez, MD, FACNS	Planner; Speaker	Stanford University School of Medicine	No Relationships
Janette Mailo, MD, PhD	Planner; Speaker	University of Alberta	No Relationships
Shavonne L. Massey, MD, FACNS	Planner	CHOP / UPenn	No Relationships
Michael McGarvey, MD, FACNS	Planner; Speaker	University of Pennsylvania	APPLE (c)
Jennifer L. McKinney, MD, FACNS	Reviewer	Nationwide Children's Hospital/ The Ohio State University	Sarepta Therapeutics (a)
Yara Mikhaeil, MD, FACNS	Reviewer	University of Illinois, Chicago	No Relationships
Yafa Minazad, DO, FACNS, MMM	Planner	Vituity	No Relationships
Moshe A. Mizrahi, MD, FAAN	Reviewer	University of Cincinnati Academic Health Center	No Relationships
Ismail Mohamed, MD, FACNS	Reviewer	University of Alabama Birmingham	Marinus Pharmaceuticals (a)
Iryna Muzyka, MD, FACNS	Reviewer	Mayo Clinic AZ	No Relationships
Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS	Speaker	University of Manitoba	Eisai Canada (e); Eisai Canada (d); Paladin Canada (e); UCB Canada (e)
Jonathon Norton, PhD, FACNS	Planner	University of Saskatchewan	No Relationships
Adam Numis, MD	Speaker	UCSF Benioff Children's Hospital	No Relationships
Marc R. Nuwer, MD, PhD, FACNS	Speaker; Planner	UCLA Health	Corticare (c)
Juan Ochoa, MD, FACNS	Reviewer	University of South Alabama	Compumedics Neuroscan (b)
Joel Oster, MD, FACNS	Reviewer	Tufts University	No Relationships
Kimberly Pargeon, MD, FACNS, FAES	Reviewer	Harbor-UCLA Medical Center	No Relationships
Jun T. Park, MD, FAES, FACNS	Reviewer	UH Cleveland Medical Center/UH Rainbow Babies & Children's	No Relationships
Josef Parvizi, MD, PhD	Speaker	Stanford University	Ceribell Corporation (b, c, e)
Ognen Petroff, MD, FACNS, FAES, FAAN	Reviewer	Yale New Haven Hospital	No Relationships
Prasad Policherla, MD, FAHA, FAAN	Reviewer	Harbor-UCLA Medical Center	No Relationships
Chrystal M. Reed, MD, PhD	Reviewer	Cedars Sinai Medical Center	No Relationships
Carlos L. Rodriguez, MD	Speaker	Cleveland Clinic	No Relationships
Devon Rubin, MD, FACNS	Planner	Mayo Clinic	No Relationships
Maria C. Sam, MD, FACNS	Reviewer	Wake Forest School of Medicine	No Relationships
Sarah E. Schmitt, MD, FACNS	Planner; Reviewer	Department of Neurology, MUSC	No Relationships

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

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

FULL NAME	ROLE	ORGANIZATION	FINANCIAL RELATIONSHIPS
Stephan U. Schuele, MD, MPH, FACNS	Speaker; Planner	Northwestern University, Feinberg School of Medicine	Bioserenity/Digitrace (b, e); Eisai (b, d); Epilog (b); Jazz Pharmaceuticals (d); Monteris (b); Neurelis (d); SK Life Science (d); Sunovion Pharmaceuticals, Inc. (d)
Jerry J. Shih, MD	Speaker	UCSD School of Medicine	Neurelis Pharmaceuticals (d); SK Life Science (d)
Mirela V. Simon, MD, MSc, FACNS	Planner	Massachusetts General Hospital	No Relationships
Saurabh R. Sinha, MD, PhD, FACNS	Planner; Speaker	University of Pennsylvania, Perelman School of Medicine	Acquestive Therapeutics (e); Basilea Inc. (b); Blackthorn Therapeutics (b); Eisai Inc. (a); Monteris Medical (a, b); SK Life Science (e); UCB (b, e)
Aaron Struck, MD	Planner; Speaker	University of Wisconsin School of Medicine and Public Health	Ceribell Corporation (a)
Fahd Sultan, MD, FACNS	Reviewer	University of Oklahoma Health Sciences Center	No Relationships
Tammy Tsuchida, MD, PhD, FACNS	Speaker; Planner	Children's National Hospital	Hikma (a, b); UCB Pharmaceuticals (a); Xenon Pharmaceuticals (a, b)
Brandon Westover, MD, PhD	Speaker	Massachusetts General Hospital	No Relationships
Courtney J. Wusthoff, MD, MS, FACNS	Speaker; Planner; Reviewer	Stanford University	No Relationships
Sahar Zafar, MD	Speaker	Mass General Hospital	Corticare (f)
Andrew Zillgitt, DO, FACNS, FAES	Reviewer	Beaumont Health System	Eisai (d); Neuropeace (b); Nile (b); SK Life Science (d); UCB (d)

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SUPPORT ACKNOWLEDGEMENT

ACNS gratefully acknowledges the following supporters of the 2022 Fall Courses:

CERIBELL

Unrestricted educational grant in support of the ICU EEG Course

SK LIFE SCIENCE

Unrestricted educational grant in support of the Saturday morning coffee break.

SCHEDULE-AT-A-GLANCE

FRIDAY, SEPTEMBER 30, 2022		LOCATION
4:00 – 6:00 PM	Basic EEG – Part I Course Co-Directors: Saurabh Sinha, MD, PhD, FACNS and Lynn Liu, MD, FACNS	Britannia & Cambria
SATURDAY, OCTOBER 1, 2022		
	Basic EEG – Part II Course Co-Directors: Saurabh Sinha, MD, PhD, FACNS and Lynn Liu, MD, FACNS	Britannia & Cambria
7:30 – 11:30 AM	ICU EEG Monitoring – Part I Course Directors: Janette Mailo, MD, PhD and Aaron Struck, MD	Constellation A
	Basic NIOM – Part I Course Co-Directors: Michael McGarvey, MD, FACNS and Jaime Lopez, MD, FACNS	Constellation B
12:00 – 1:00 PM	Lunch Workshops Continue the conversation with interactive lunch workshop in ICU EEG, SEEG, and NIOM. See page 14 for complete information.	
	ICU EEG Monitoring – Part II Course Directors: Janette Mailo, MD, PhD and Aaron Struck, MD	Constellation A
1:15 – 4:00 PM	Stereo EEG – Part I Course Co-Directors: Stephan Schuele, MD, MPH, FACNS and Saurabh R. Sinha, MD, PhD, FACNS	Britannia & Cambria
	Basic NIOM – Part II Course Co-Directors: Michael McGarvey, MD, FACNS and Jaime Lopez, MD, FACNS	Constellation B
	Evoked Potentials Course Director: Ioannis Karakis, MD, PhD, MSc, FACNS	Constellation A
4:15 – 6:15 PM	Neonatal EEG Course Director: Tammy Tsuchida, MD, PhD, FACNS	Constellation B
	Sleep Course Directors: Madeleine M. Grigg-Damberger, MD, FACNS and Nancy Foldvary-Schaefer, DO, MS	Britannia & Cambria
6:00 – 8:30 PM	Beach Reception Enjoy the company of colleagues, in-person! Appetizers and limited bar available.	Silver Strand Beach
SUNDAY, OCTOBER 2, 2022		
	Stereo EEG – Part II Course Co-Directors: Stephan Schuele, MD, MPH, FACNS and Saurabh R. Sinha, MD, PhD, FACNS	Constellation A
8:00 AM – 1:00 PM	ICU EEG Monitoring – Part III Course Directors: Janette Mailo, MD, PhD and Aaron Struck, MD	Constellation B
	Advanced NIOM Course Co-Directors: Michael McGarvey, MD, FACNS and Jaime Lopez, MD, FACNS	Lenore

COURSES AVAILABLE ON-DEMAND

October 6 - November 20, 2022, 11:59pm ET.

On-demand registration is required to access recorded courses.

COURSE AGENDAS

FRIDAY, SEPTEMBER 30, 2022

4:00 – 6:00 PM

Basic EEG – Part I

Location: Britannia & Cambria

Course Co-Directors: Saurabh Sinha, MD, PhD, FACNS and Lynn Liu, MD, FACNS

- 4:00 PM Introduction/Instrumentation
Saurabh R. Sinha, MD, PhD, FACNS
- 4:30 PM Normal Adult/Cases
Meriem Bensalem-Owen, MD, FACNS
- 5:15 PM Normal Pediatric/Cases
Courtney J. Wusthoff, MD, MS, FACNS

SATURDAY, OCTOBER 1, 2022

6:30 - 8:00 AM

Breakfast

Location: Sovereign Foyer

7:30 – 11:30 AM

Basic EEG – Part II

Location: Britannia & Cambria

Course Co-Directors: Saurabh Sinha, MD, PhD, FACNS and Lynn Liu, MD, FACNS

- 7:30 AM Normal Variants/Artifacts
Ioannis Karakis, MD, PhD, MSc, FACNS
- 8:15 AM EEG in Epilepsy
Jerry J. Shih, MD
- 9:00 AM Introduction to Intracranial EEG
Elizabeth E. Gerard, MD, FACNS
- 9:45 AM Abnormal Pediatric/Cases
Dana Harrar, MD, PhD
- 10:30 AM EEG in Encephalopathy
Lawrence J. Hirsch, MD, FACNS



Coffee Break

9:00 – 9:30 AM

Location: Avalon

Refreshments supported, in part,
by a grant from SK life science.

ICU EEG Monitoring – Part I

Location: Constellation A

Course Directors: Janette Mailo, MD, PhD and Aaron Struck, MD

This course is supported, in part, by a grant from Ceribell.

- 7:30 AM ICU-EEG History and ACNS Critical Care EEG Terminology
Lawrence J. Hirsch, MD, FACNS
- 8:10 AM Ictal-Interictal Continuum
Aaron Struck, MD
- 9:30 AM Seizures and Status Epilepticus
Cecil D. Hahn, MD, MPH, FACNS
- 10:10 AM Quantitative/Automation EEG
Brandon Westover, MD, PhD
- 10:40 AM Pediatric EEG
France Fung, MD

Basic NIOM – Part I

Location: Constellation B

Course Co-Directors: Michael McGarvey, MD, FACNS and Jaime Lopez, MD, FACNS

- 7:30 AM Introduction
Jaime R. Lopez, MD, FACNS
- 7:35 AM SEP
Andres Gonzalez, MD, MMM, FAAN, FACNS
- 8:05 AM MEP
Ronald Emerson, MD, FACNS
- 8:35 AM BAEP Monitoring
Alan D. Legatt, MD, PhD, FACNS
- 9:05 AM Break
- 9:15 AM EEG Monitoring & Electrocorticography
Marc R. Nuwer, MD, PhD, FACNS
- 9:45 AM EMG & Peripheral Nerve Monitoring
Gloria M. Galloway, MD, MBA, FACNS
- 10:15 AM Anesthesia and NIOM
Ronald Emerson, MD, FACNS
- 10:45 AM Technical Troubleshooting in NIOM
Eric Jones, R. EEG/EP T, CNIM
- 11:15 AM Discussion

SATURDAY, OCTOBER 1, 2022 - CONTINUED

12:00 – 1:00 PM

Lunch Workshops

Complimentary boxed lunches will be provided in the Exhibit Hall from 11:30 am - 1:00 pm. Be sure to pick one up on your way to the lunch workshops.

ICU EEG

Location: Constellation A

The ICU EEG "Ask the Experts" lunch session will give the audience a chance to ask questions and share their difficult cases with our panel of pediatric and adult experts in neurophysiology and epilepsy in the critical care setting.

Stereo EEG

Location: Britannia & Cambria

This lunch workshop provides the participants an opportunity to ask practical questions and bring up specific clinical or equipment challenges. The roundtable format allows for sharing of experiences in an informal way and learning from peers.

NIOM

Location: Constellation B

The NIOM lunch session will allow audience to ask questions to an experts panel on current practice of intraoperative monitoring and allow an opportunity to explore current controversies in the field. If time allows, representative cases will be discussed to facilitate further discussion.

1:15 – 4:00 PM

ICU EEG Monitoring – Part II

Location: Constellation A

Course Directors: *Janette Mailo, MD, PhD and Aaron Struck, MD*

This course is supported, in part, by a grant from Ceribell.

- 1:15 PM ICU-Monitoring in Resource-Limited Settings
Janette Mailo, MD, PhD
- 1:55 PM Multimodal Monitoring
Rejean Guerriero, DO
- 2:35 PM Cardiac Arrest
Jong Woo Lee, MD, PhD, FACNS
- 3:15 PM Aneurysmal Subarachnoid Hemorrhage-Ischemia Monitoring
Sahar Zafar, MD



Coffee Break

2:30 – 3:00 PM

Location: Avalon

Stereo EEG – Part I

Location: Britannia & Cambria

Course Co-Directors: *Stephan Schuele, MD, MPH, FACNS and Saurabh R. Sinha, MD, PhD, FACNS*

- 1:15 PM Noninvasive Data
Stephan Schuele, MD, MPH, FACNS
- 1:45 PM Indications for Invasive Evaluations, SDG vs SEEG
Ann Hyslop, MD, FACNS
- 2:15 PM Case Presentations
Elizabeth E. Gerard, MD, FACNS
- 2:45 PM Break
- 3:00 PM Seizure Semiology for SEEG
Meriem Bensalem-Owen, MD, FACNS
- 3:30 PM SEEG Planning -- Approach and Pre-Implantation Logistics
Saurabh R. Sinha, MD, PhD, FACNS

Basic NIOM – Part II

Location: Constellation B

Course Co-Directors: *Michael McGarvey, MD, FACNS and Jaime Lopez, MD, FACNS*

- 1:15 PM Pediatric Considerations in NIOM
Gloria M. Galloway, MD, MBA, FACNS
- 1:45 PM Case Studies
- 2:15 PM Break
- 2:25 PM Spinal Column Surgery
Michael McGarvey, MD, FACNS
- 2:55 PM Billing Issues in NIOM
Marc R. Nuwer, MD, PhD, FACNS
- 3:25 PM Discussion

4:15 – 6:15 PM

Evoked Potentials

Location: Constellation A

Course Director: *Ioannis Karakis, MD, PhD, MSc, FACNS*

- 4:15 PM Visual Evoked Potentials (VEPs)
Marc R. Nuwer, MD, PhD, FACNS
- 4:55 PM Brainstem Auditory Evoked Potentials (BAEPs)
Alan D. Legatt, MD, PhD, FACNS
- 5:35 PM Somatosensory Evoked Potentials (SSEPs)
Ioannis Karakis, MD, PhD, MSc, FACNS

Neonatal EEG

Location: Constellation B

Course Director: *Tammy Tsuchida, MD, PhD, FACNS*

- 4:15 PM Introduction
Tammy Tsuchida, MD, PhD, FACNS
- 4:20 PM Background Interpretation
Robert Clancy, MD
- 5:00 PM Neonatal Seizure Identification and Management
Tayyba Anwar, MD
- 5:40 PM Neonatal Cases
Adam Numis, MD

Sleep

Location: Britannia & Cambria

Course Directors: *Madeleine M. Grigg-Damberger, MD, FACNS and Nancy Foldvary-Schaefer, DO, MS*

- 4:15 PM Sleep/Wake Transition and NREM Parasomnias
Carlos L. Rodriguez, MD
- 4:45 PM REM Parasomnias
Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS
- 5:15 PM Sleep-Related Seizures
Nancy Foldvary-Schaefer, DO, MS
- 5:45 PM Sleep-Related Movements and Movement Disorders
Madeleine M. Grigg-Damberger, MD, FACNS

6:30 – 8:30 PM

Beach Reception

Location: Sliver Strand Beach

Join us at Silver Strand State Beach, just a 5 minute walk from the resort, for conversations with colleagues, appetizers and a limited bar. Shuttle service is available upon request.



SUNDAY, OCTOBER 2, 2022

7:30 - 9:00 AM

Breakfast

Location: Avalon

8:00 AM – 1:00 PM

Stereo EEG – Part II

Location: Constellation A

Course Co-Directors: *Stephan Schuele, MD, MPH, FACNS and Saurabh R. Sinha, MD, PhD, FACNS*

- 8:00 AM SEEG Implantation and Post-implantation Logistics
Ioannis Karakis, MD, PhD, MSc, FACNS
- 8:30 AM Background SEEG/Normal Patterns
Ioannis Karakis, MD, PhD, MSc, FACNS
- 9:00 AM SEEG Interpretation -- Interictal and Ictal Patterns
Lawrence J. Hirsch, MD, FACNS
- 9:30 AM Case Presentations
Lawrence J. Hirsch, MD, FACNS
- 10:00 AM Break
- 10:30 AM Electrical Seizure Stimulation with SEEG
Stephan U. Schuele, MD, MPH, FACNS
- 11:00 AM Case Presentation
Stephan U. Schuele, MD, MPH, FACNS
- 11:30 AM Functional Mapping with SEEG
Josef Parvizi, MD, PhD
- 12:00 PM Pediatric SEEG -- Special Considerations
William Gallentine, DO, FACNS
- 12:30 PM Case Presentations -- Pediatric
William Gallentine, DO, FACNS

COURSE AGENDAS

SUNDAY, OCTOBER 2, 2022 - CONTINUED

ICU EEG Monitoring – Part III

Location: Constellation B

Course Directors: *Janette Mailo, MD, PhD and Aaron Struck, MD*

- 8:00 AM Neonatal
Tammy Tsuchida, MD, PhD, FACNS
- 8:30 AM Refractory Status Epilepticus
Sara E. Hocker, MD
- 9:00 AM Autoimmune Therapy for Refractory Status Epilepticus
Sara E. Hocker, MD
- 9:30 AM Ischemia Monitoring in aSAH
Aline Herlopian, MD
- 10:00 AM Prognosis in Cardiac Arrest
Edilberto Amorim, MD, PhD
- 10:30 AM IIC Cases (use of ancillary and multimodal tests)
Aline Herlopian, MD
- 11:30 AM Pediatric ICU Cases - When Continuous EEG is not Always Available
Janette Mailo, MD, PhD
- 12:00 PM Small Group Discussions Breakout - "Ask the Experts"

Advanced NIOM

Location: Lenore

Course Co-Directors: *Michael McGarvey, MD, FACNS and Jaime Lopez, MD, FACNS*

- 8:00 AM Introductions
Michael McGarvey, MD, FACNS
- 8:05 AM Cranial Nerve Monitoring
Jaime R. Lopez, MD, FACNS
- 8:35 AM Functional Brain Mapping and Monitoring of Brain Tumors
Alan D. Legatt, MD, PhD, FACNS
- 9:05 AM Spinal Cord Tumors
Andres Gonzalez, MD, MMM, FAAN, FACNS
- 9:35 AM NIOM Case Studies
- 10:05 AM Break
- 10:15 AM NIOM of Cerebrovascular Procedures
Felix Chang, MD
- 10:45 AM Thoracoabdominal Aortic Aneurysm
Michael McGarvey, MD, FACNS
- 11:15 AM NIOM in Treatment of Peripheral Nerve Disorders
Felix Chang, MD
- 11:45 AM NIOM Case Studies
- 12:15 PM Medicolegal Concerns in NIOM
Jaime R. Lopez, MD, FACNS
- 12:45 PM Discussion



Coffee Break

10:00 – 10:30 AM

Location: Avalon

COURSES AVAILABLE ON-DEMAND

October 6 - November 20, 2022, 11:59pm ET.

On-demand registration is required to access recorded courses.

EXHIBITORS & SUPPORTERS

EXHIBIT HALL HOURS

Location: Avalon Ball Room

Saturday, October 1, 2022, 9:00AM – 6:00PM

Sunday, October 2, 2022, 7:30AM – 1:00PM

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EXHIBITORS

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The American Board of Clinical Neurophysiology (ABCN) has a long history of promoting excellence in Clinical Neurophysiology and offers examinations with added competency in Epilepsy Monitoring, Neurophysiologic Intraoperative Monitoring, Critical Care EEG, or General Clinical Neurophysiology. International testing is available. Coming soon – Pediatric EEG Track. International testing and online proctoring available.

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

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Neurotech

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

Persyst Development Corporation

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Persyst is the worldwide leader in EEG software. As standard of care, 211 of 233 members of the National Association of Epilepsy Centers (NAEC) use Persyst EEG monitoring and review. Persyst is the only EEG trending and detection software integrated, sold & supported by every major EEG manufacturer.

SK life science

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SK life science is a subsidiary of SK biopharmaceuticals, focused on developing innovative, next-generation drugs. We have 28 years of experience in R&D and are dedicated to changing the status quo in CNS. We currently have 8 compounds in the clinical development pipeline.

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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.

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