



ACNS/CANM

VIRTUAL FALL COURSES & SYMPOSIUM

September 24-26, 2021

Preliminary
Program



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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.



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ABOUT THE CANADIAN ASSOCIATION OF NEUROPHYSIOLOGICAL MONITORING



CANM is a national association of intraoperative neurophysiological monitoring (IONM) professionals. In 2007, a group of IONM professionals in the Toronto area began planning a gathering of Canadians interested in IONM. At this inaugural scientific symposium in 2008, the concept of a national association was overwhelmingly approved and CANM was officially launched.

FALL COURSES COMMITTEES

ACNS Course Committee

Co-Chairs

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Pegah Afra, MD, FACNS
Elizabeth Gerard, MD, FACNS
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CANM Liaisons

Aleksandra King, PhD, CNIM
Jamie Johnston, PhD

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Jong Woo Lee, MD, PhD, FACNS

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Meriem Bensalem-Owen, MD, FACNS
Dawn Eliashiv, MD, FACNS
Hiba A. Haider, MD, FACNS, FAES
Susan T. Herman, MD, FACNS
Cormac O'Donovan, MD, FACNS

GENERAL INFORMATION

ACNS and CANM are pleased to present the ACNS 2021 Fall Courses and the 2021 CANM Symposium virtually, allowing both speakers and delegates from around the world to attend the courses online, without concern for health, welfare or travel.

All sessions will be held in a mock-live format, according to the schedule starting on page 10, but will also be available on-demand for two weeks following the completion of the courses. Presenters will be available for live discussion during the original course presentation times.

Important Dates

Registration Opens	July 15, 2021
Registration Deadline	September 26, 2021
Registration Cancellation Deadline	September 10, 2021
Fall Courses Virtual Lobby Opens	September 21, 2021
CME Certificate Program Opens	September 26, 2021
CME Claim Deadline	December 31, 2021

Registration Process

Registration Rates (in US Dollars)

	Full-Day Courses (including CANM Symposium)	Short Courses	All-Access Pass
ACNS/CANM Members	\$150	\$75	\$525
Non-Members	\$225	\$125	\$825
Junior, Tech, RRC* Members	\$75	\$35	\$255
Non-Member Trainees, Techs, RRC*	\$150	\$55	\$395

All-Access Pass

New for this year's virtual Fall Courses, take advantage of the All-Access Pass registration, including access to ALL of the available course offerings, both live and on-demand!

Save up to 65% on ala carte course fees while earning up to 49 AMA PRA Category 1 credits™!

Full Day Course: 10:00am - 2:00pm ET, 4 credits, \$25

To register, please visit: <https://www.acns.org/meetings/fall-courses/2021-fall-courses/registration>

Registration Cancellation Policy

Refund requests must be submitted in writing to ACNS prior to September 10, 2021. A \$20 processing fee will be charged for all refunds. Refunds will not be granted for requests postmarked or received after September 10, 2021.

Technical Specifications & Requirements

The ACNS and CANM Virtual Fall Courses & Symposium virtual platform is compatible with Chrome, Firefox, and Microsoft Edge web browsers. Be sure to open any links to the site in Chrome or Firefox. Other browsers, like Safari or Internet Explorer, may not allow you to log in or join sessions.

Fall Course sessions will be presented using Zoom Webinars. Zoom is a cloud platform for video, voice, content sharing, and chat runs across mobile devices, desktops, telephones, and room systems. Attendees may choose to run Zoom via an Internet browser or to download an app to their desktop, tablet or mobile phone.

Zoom system requirements are as follows on Windows, macOS, and Linux.

- An internet connection – broadband wired or wireless (3G or 4G/LTE)
- Speakers and a microphone – built-in or USB plug-in or wireless Bluetooth
- A webcam or HD webcam - built-in or USB plug-in
- Or, a HD cam or HD camcorder with video capture card

A list of supported devices can also be found at <https://support.zoom.us/hc/en-us/articles/360026690212>

GENERAL 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).

Collection of User Information

ACNS collects information from individuals who access its website or otherwise interact with the Society.

ACNS uses forms, both web-based and hardcopy, by which members/customers (users) may request information, products, and services. Order forms are used to collect users information closely related to the requested information, product or service, including, but not limited to:

- Contact information (e.g., name, address, phone number, e-mail address, etc);
- Demographic information;
- Practice information; and
- Financial information (e.g., account or credit card numbers).

Information collected via these forms relates closely and directly to the information, product, or service requested by the user.

ACNS may also use cookies (a small data file that can be placed on your hard drive when you visit certain websites) to collect, store, and sometimes track information related to use of the ACNS website.

Use and Disclosure of Personal Information

Information collected via the methods outlined above is used to provide a customized experience as you use the ACNS website or participate in ACNS products and services. User information collected via forms and cookies is used for statistical purposes, to deliver or improve the products and services we provide, or to save your settings and to provide customizable and personalized services.

Financial information is used to bill the user for products and services and then is deleted from our records in compliance with the Payment Card Industry Data Security Standard (PCI-DSS). Contact information from the order form is used to send orders, contact the user regarding any problems with the order, and to provide the user with information about our association, including promotional materials.

It is the policy of ACNS not to share this information with third parties. Exceptions to this policy include disclosure of personal information collected if we have a legitimate business interest in doing so, have received your permission in advance, or in very special circumstances, such as when we believe that such disclosure is required by law, or in other special cases described below.

ACNS may disclose personal information about users, or information regarding your use of our site, for any reason if, in our sole discretion, we believe that it is reasonable to do so, including: to satisfy laws, such as the Electronic Communications Privacy Act, regulations, or governmental or legal requests for such information; to disclose information that is necessary to identify, contact or bring legal action against someone who may be violating our user policies; to operate the site properly; or to protect ACNS and our users.

Use of ACNS website cookies do not enable third parties to access any of your personal information. Third parties and other non-ACNS websites may also use their own cookies. We do not control use of these cookies and expressly disclaim responsibility for information collected through them. Cookies are used to support Google Analytics functionality for website activity tracking. Google Analytics stores information at Google. View details regarding Google Analytics privacy and security.

Membership Directory

Current ACNS members' contact information is made available through the Member Directory. This information is only available to other current ACNS members. Members may opt out of being listed in the Member Directory; see the Updating User Profile section below.

Updating User Profile

Individuals who have created an account with ACNS have the ability to update or change all personal information provided. To do so, users may visit the My Profile section of the ACNS website, or email the ACNS Executive Office (info@acns.org) with updated information.

Opt In/Out of Communications

It is the policy of ACNS not to use or share the personal information about users in ways unrelated to the ones described above without also providing you an opportunity to opt out or otherwise prohibit such unrelated uses.

ACNS provides individuals the opportunity to opt out of receiving communications from us when we request information about the user. To update these preferences, users may visit the ACNS website or email the ACNS Executive Office (info@acns.org).

ACNS also allows our members to opt out of displaying personal information in the Membership Directory. To update these preferences, members may visit the ACNS website or email the ACNS Executive Office (info@acns.org).

GENERAL INFORMATION

Security

Our site has security measures in place to protect the loss, misuse and alteration of the information under our control, but we cannot guarantee that our security measures will prevent third-party “hackers” from illegally obtaining this information.

Links to Other Sites

This site contains links to other sites. ACNS is not responsible for the privacy practices or content of other websites. We

encourage you to read the privacy statements of each website that collects your personally identifiable information.

Changes to This Policy

ACNS reserves the right to revise, amend, or modify this Privacy Policy and our other policies and agreements at any time and in any manner. Notice of any revision, amendment, or modification will be posted.

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.

CME INFORMATION

About the Fall Courses & Symposium

The 2021 Virtual Fall Courses & Symposium are designed around new and rapidly-evolving areas of clinical neurophysiology. Educational activities will cover both basic methodologies, and innovative techniques.

Target Audience

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

Accreditation Statement

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

Credit Designation

ACNS designates the Fall Courses for the maximum number of 49 *AMA PRA Category 1 Credit(s)*™ indicated below:

Advanced Neurologic Intraoperative Monitoring (NIOM): 6.25 *AMA PRA Category 1 Credits*™

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

Basic EEG - Part II: 2.00 *AMA PRA Category 1 Credits*™

Basic Neurologic Intraoperative Monitoring (NIOM): 6.25 *AMA PRA Category 1 Credits*™

CANM Symposium 6.5 *AMA PRA Category 1 Credits*™

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

Intensive Care Unit EEG Monitoring (ICU EEG): 6.50 *AMA PRA Category 1 Credits*™

Neonatal EEG: 2 *AMA PRA Category 1 Credits*™

Sleep - Part I: 2.00 *AMA PRA Category 1 Credits*™

Sleep - Part II: 2.00 *AMA PRA Category 1 Credits*™

Stereo-Electroencephalography (Stereo EEG): 6.00 *AMA PRA Category 1 Credits*™

The number of credits above also constitutes the estimated time to complete each activity.

ASET CEUs

ACNS is in the process of applying to ASET to allow attendees to claim ASET-CEUs for attendance at the ACNS Virtual Fall Courses. More information will be made available online at <https://www.acns.org/meetings/fall-courses/2021-fall-courses/cme--ceu-information>

Learning Objectives:

Intensive Care Unit EEG Monitoring (ICU EEG)

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

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

Basic Neurophysiologic Intraoperative Monitoring (NIOM)

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

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

Advanced Neurophysiologic Intraoperative Monitoring (NIOM)

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

1. Describe basic modalities used in NIOM;
2. Recognize the appropriate methods and indications for a variety of common and uncommon NIOM techniques;
3. Recognize differences in NIOM of adult and pediatric cases;
4. Explain a variety of NIOM case presentations and interpretation of neurophysiologic data;

CME INFORMATION

5. Recognize some of the technical challenges and limitations of performing and interpreting NIOM studies; and
6. Discuss relevant billing and medicolegal concerns in the field of NIOM.

Stereo-Encephalography (Stereo EEG)

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. Learn 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 – Parts I and II

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

1. Explain how to record video-polysomnography and score sleep/wake states in children and adults using the AASM Scoring Manual rules;
2. Discuss how and why respiratory events are scored differently in children and adults in the AASM Scoring Manual; and
3. Recognize the video-polysomnographic features of NREM arousal parasomnias, REM sleep behavior disorder, and sleep-related hypermotor epilepsies.

COURSES OVERVIEW

Friday, September 24, 2021			
Course is Live: 10:00am – 5:30pm ET		On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET On-Demand Access Closes: Wednesday, October 13, 2021	
10:00 AM	05:30 PM	CANM Symposium	Course Director: Jamie Johnston, MD
Courses are Live: 10:00am – 12:00 pm ET		On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET On-Demand Access Closes: Wednesday, October 13, 2021	
10:00 AM	12:00 PM	Basic EEG Part I	Course Co-Directors: Saurabh Sinha, MD, PhD, FACNS; Lynn Liu, MD, FACNS
10:00 AM	12:00 PM	Sleep Part I	Course Co-Directors: Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS; Madeleine M. Grigg-Damberger, MD
Courses are Live: 12:30 pm – 2:30pm ET		On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET On-Demand Access Closes: Wednesday, October 13, 2021	
12:30 PM	2:30 PM	Basic EEG Part II	Course Co-Directors: Saurabh Sinha, MD, PhD, FACNS; Lynn Liu, MD, FACNS
12:30 PM	2:30 PM	Sleep Part II	Course Co-Directors: Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS; Madeleine M. Grigg-Damberger, MD
Courses are Live: 3:00pm – 5:00pm ET		On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET On-Demand Access Closes: Wednesday, October 13, 2021	
3:00 PM	5:00 PM	Neonatal EEG	Course Director: Tammy Tsuchida, MD, PhD, FACNS
3:00 PM	5:00 PM	Evoked Potentials	Course Director: Ioannis Karakis, MD, PhD, MSc, FACNS
Saturday, September 25, 2021			
Courses are Live: 10:00am – 5:30pm ET		On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET On-Demand Access Closes: Wednesday, October 13, 2021	
10:00 AM	5:30 PM	ICU EEG Monitoring	Course Co-Directors: Hiba A. Haider, MD FACNS; Sarah E. Schmitt, MD, FACNS; Janette Mailo, MD, PhD
10:00 AM	5:30 PM	Basic NIOM	Course Co-Directors: Jaime Lopez, MD, FACNS; Lidia Cabañes-Martinez, MD, FACNS; Aleksandra King, PhD
Sunday, September 26, 2021			
Course are Live: 10:00am – 5:30pm ET		On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET On-Demand Access Closes: Wednesday, October 13, 2021	
10:00 AM	5:30 PM	Advanced NIOM	Course Co-Directors: Jaime Lopez, MD, FACNS; Lidia Cabañes-Martinez, MD; Aleksandra King, PhD
10:00 AM	5:30 PM	Stereo EEG	Course Co-Directors: Stephan U. Schuele, MD, MPH, FACNS, FAAN; Giridhar Kalamangalam, MD, Dphil, FACNS; Birgit Frauscher, MD, PhD

PROGRAM OVERVIEW

Friday, September 24, 2021

CANM Symposium

Course Director: *Jamie Johnston, MD*

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET

On-Demand Access Closes: Wednesday, October 13, 2021

10:00am	Opening Remarks <i>Jamie Johnston, MD</i>
10:05am	Spine IONM <i>TBD</i>
10:30am	Vascular Surgery / TAAA <i>TBD</i>
11:00am	EMG and Nerve Root Monitoring / Peripheral Nerve Surgery <i>Srini Bulusu</i>
11:30am	Break
11:45am	Keynote Address: Scoliosis Research <i>Jean Ouellette</i>
12:45 PM	Case Studies <i>Peter Heyboer</i> <i>Samer Hassan</i> <i>Tara Palmater</i> <i>Michael Vanderberk</i> <i>Jamie Johnston</i> <i>John-Paul Sumaquero</i>
1:45pm	Lunch
2:15pm	Posterior Fossa and CN Monitoring <i>Jamie Johnston</i>
2:45pm	DBS and Movement Disorders <i>Chad Boulay</i>
3:15pm	EEG <i>Paola Diadori</i>
3:45pm	Break
4:00pm	Spondylolisthesis <i>Michael Vanderbeck</i>
4:30pm	Pedicle Screw Stimulation <i>Jonathan Norton</i>
5:00pm	Carotid Endarterectomy <i>Gilaad Levy</i>

Basic EEG Part I

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

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET

On-Demand Access Closes: Wednesday, October 13, 2021

10:00am	Normal Adult EEG <i>Sarah E. Schmitt, MD, FACNS</i>
10:20am	Sample Cases <i>Sarah E. Schmitt, MD, FACNS, Lynn Liu, MD, FACNS, Saurabh Sinha, MD, PhD, FACNS</i>
10:40am	Normal Pediatric EEG <i>Julia Henry, MD</i>
11:00am	Sample Cases <i>Lynn Liu, MD, FACNS, Julie Henry, MD, Saurabh Sinha, MD, PhD, FACNS</i>
11:20am	Normal Variants <i>William O. Tatum, IV, DO, FACNS</i>
11:40am	Sample Cases <i>William O. Tatum, IV, DO, FACNS, Lynn Liu, MD, FACNS, Saurabh Sinha, MD, PhD, FACNS</i>

Sleep Part I

Course Co-Directors: *Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS; Madeleine M. Grigg-Damberger, MD*

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET

On-Demand Access Closes: Wednesday, October 13, 2021

10:00am	Nuts and Bolts of Video-PSG and Technical Considerations <i>Rodney Radtke, MD, FACNS</i>
10:30am	Scoring Sleep/Wake States in Adults <i>Milena Pavlova, MD</i>
11:00am	Scoring Respiratory Events in Adults <i>Marcus Ng, MD, FRCPC, CSCN, FACNS</i>
11:30am	PSG Review Session 1 <i>Madeleine Grigg-Damberger, MD, FACNS</i>

PROGRAM OVERVIEW

Friday, September 24, 2021

Basic EEG Part II

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

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET
On-Demand Access Closes: Wednesday, October 13, 2021

- 12:30pm EEG in Encephalopathy
Emily Johnson, MD
- 12:50pm Sample Cases
Emily Johnson, MD, Lynn Liu, MD, FACNS, Saurabh Sinha, MD, PhD, FACNS
- 1:10pm EEG in Epilepsy
Angela Wabulaya, MD
- 1:30pm Sample Cases
Lynn Liu, MD, FACNS, Angela Wabulaya, MD, Saurabh Sinha, MD, PhD, FACNS
- 1:50pm Abnormal Pediatric EEG
Doug R. Nordli, MD, FACNS
- 2:10pm Sample Cases
Lynn Liu, MD, FACNS, Doug R. Nordli, MD, FACNS, Saurabh Sinha, MD, PhD, FACNS

Sleep Part II

Course Co-Directors: Marcus C. Ng, MD, FRCPC, CSCN (EEG), FACNS; Madeleine M. Grigg-Damberger, MD

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET
On-Demand Access Closes: Wednesday, October 13, 2021

- 12:30pm Scoring Sleep/Wake States and Respiratory Events in Children
Sanjeev Kothare, MBBS
- 1:00pm Scoring NREM Arousal Parasomnias and Sleep-Related Seizure
Nancy Foldvary-Schaefer, DO, MS
- 1:30pm Scoring REM Sleep Without Atonia, REM Behavior Disorders and Periodic Limb Movements
Madeleine Grigg-Damberger, MD, FACNS
- 2:00pm PSG Review Session 2
Madeleine Grigg-Damberger, MD, FACNS

Neonatal EEG

Course Co-Directors: Tammy Tsuchida, MD, PhD, FACNS

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET
On-Demand Access Closes: Wednesday, October 13, 2021

- 3:00pm Neonatal EEG Background Interpretation
Robert Clancy, MD
- 3:25pm Neonatal Electrographic Seizure Identification
Janette Mailo, MD, PhD
- 3:50pm Neonatal Cases
Elana Pinchevsky, MD
- 4:25pm Neonatal Cases
Elissa Yozawitz, MD

Evoked Potentials

Course Co-Directors: Ioannis Karakis, MD, PhD, MSc, FACNS

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET
On-Demand Access Closes: Wednesday, October 13, 2021

- 3:00pm Brainstem Auditory Evoked Potentials (BAEPs)
Alan D. Legatt, MD, PhD, FACNS
- 3:40pm Visual Evoked Potentials (VEPs)
Ioannis Karakis, MD, PhD, MSc, FACNS
- 4:20pm Somatosensory Evoked Potentials (SSEPs)
Elayna Rubens, MD, FACNS

PROGRAM OVERVIEW

Saturday, September 25, 2021

ICU EEG Monitoring

Course Co-Directors: *Hiba A. Haider, MD FACNS; Sarah E. Schmitt, MD, FACNS; Janette Mailo, MD, PhD*

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET
On-Demand Access Closes: Wednesday, October 13, 2021

10:00am	Introductions
10:05am	ICU EEG Monitoring An Overview Across the Ages <i>Cecil D. Hahn, MD, MPH, FACNS</i>
10:30am	Setting Up Your ICU EEG Service Staffing, Personnel, Workflow and Logistics <i>William Gallentine, DO, FACNS</i>
11:00am	ICU EEG Terminology <i>Lawrence J. Hirsch, MD, FACNS</i>
11:30am	The Ictal Interictal Continuum Identifying Rhythmic & Periodic Patterns <i>Suzette M. LaRoche, MD, FACNS</i>
12:00pm	Diagnosis & Management of Seizures and Status Epilepticus <i>Aatif M. Husain, MD, FACNS</i>
12:30pm	Multimodal & Invasive Monitoring <i>Brandon Foreman, MD, FACNS</i>
1:30pm	Break
2:00pm	EEG in Toxic/Metabolic Encephalopathy (Delirium) <i>Peter W. Kaplan, MD, FRCP, FANCS</i>
2:30pm	Artifacts in the ICU Navigating a (Electrically) Hostile Environment <i>Sarah E. Schmitt, MD, FACNS</i>
3:00pm	Quantitative EEG Applications in the ICU <i>Hiba A. Haider, MD, FACNS, FAES</i>
3:30pm	Cases Adult EEG/QEEG <i>Elizabeth Gerard, MD, FACNS</i>
4:00pm	Anoxic Brain Injury and Myoclonic Status Epilepticus in Adults <i>Yara Mikhaeil-Demo, MD, FACNS</i>
4:30pm	Anoxic Brain Injury and SE in Neonates <i>Tammy Tsuchida, MD, PhD, FACNS</i>
5:00pm	Cases Pediatric EEG/QEEG <i>Janette Mailo, MD, PhD</i>

Basic Advanced Neurophysiological Intraoperative Monitoring (NIOM)

Course Co-Directors: *Jaime Lopez, MD, FACNS; Lidia Cabañes-Martinez, MD, FACNS; Aleksandra King, PhD*

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET
On-Demand Access Closes: Wednesday, October 13, 2021

10:00am	Introduction <i>Jaime López, MD, FACNS</i>
10:05am	SEP <i>Scheherazade T. Le, MD</i>
10:35am	MEP <i>Ron Emerson, MD, FACNS</i>
11:05am	BAEP Monitoring <i>Alan D. Legatt, MD, PhD, FACNS</i>
11:35am	Discussion Breakouts
11:55am	Break
12:50pm	EEG Monitoring & Electrocorticography <i>Christine Hung, MD</i>
1:20pm	TBD
1:50pm	Discussion Breakouts
2:00pm	Break
2:10pm	Anesthesia and NIOM <i>Aleksandra King, PhD, CNIM</i>
2:40pm	Technical Troubleshooting in NIOM <i>Eric Jones, R. EEG/EP T, CNIM</i>
3:10pm	Discussion Breakouts
3:30pm	Break
3:40pm	Pediatric Considerations in NIOM <i>Gloria M. Galloway, MD, MBA, FACNS</i>
4:10pm	Case Studies <i>various presenters</i>
4:40pm	Billing Issues in NIOM <i>Marc R. Nuwer, MD, PhD, FACNS</i>
5:10pm	Discussion Breakouts

PROGRAM OVERVIEW

Sunday, September 26, 2021

Stereo-Electroencephalography

Course Co-Directors: *Stephan U. Schuele, MD, MPH, FACNS, FAAN; Giridhar Kalamangalam, MD, DPhil, FACNS; Birgit Frauscher, MD, PhD*

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET
On-Demand Access Closes: Wednesday, October 13, 2021

10:00am	Invasive EEG <i>Stephan U. Schuele, MD, MPH, FACNS</i>
10:30am	Morphology of Intracranial EEG <i>Giridhar Kalamangalam, MD, DPhil, FACNS</i>
11:00am	Quantitative Analysis of Intracerebral EEG <i>Jean Gotman, PhD, FACNS</i>
11:30am	Semiology for SEEG <i>Patrick Chauvel, MD</i>
12:00pm	Pediatric SEEG <i>Julia Jacobs, MD</i>
1:00pm	Break
1:30pm	Advanced Imaging for SEEG <i>Paolo Federico, MD</i>
2:00pm	Case Seizure Stimulation in defining EZ <i>Birgit Frauscher, MD</i>
2:30pm	Case: Broad Band EEG and Seizure Onset <i>Gregory Worrel, MD</i>
3:00pm	Break
3:30pm	Case SEEG near Eloquent Cortex <i>Juan Bulacio, MD</i>
4:00pm	Tailored resection with SEEG <i>Jorge T. Gonzalez, MD</i>
4:30pm	Case Presentation <i>Dang K. Nguyen, MD, PhD, FRSC</i>
5:00pm	Case Presentation <i>Jorge G. Burneo, MD, MSPH, FAAN</i>

Advanced Neurophysiological Intraoperative Monitoring (NIOM)

Course Co-Directors: *Meriem Bensalem-Owen, MD, FACNS and Jaime R. López, MD, FACNS*

On-Demand Access Opens: Wednesday, September 29, 2021, at 10:00am ET
On-Demand Access Closes: Wednesday, October 13, 2021

10:00am	Introduction <i>Jaime López, MD, FACNS</i>
10:05am	Cranial Nerve Monitoring <i>Jaime Lopez, MD, FACNS</i>
10:35am	Functional Brain Mapping and Monitoring of Brain Tumors <i>Mirela V. Simon, MD, MSc, FACNS</i>
11:05am	IOM Case Studies <i>various presenters</i>
11:35am	Discussion Breakouts
11:55am	Break
12:50pm	NIOM of Cerebrovascular Procedures <i>Leslie Lee, MD, FACNS</i>
1:20pm	TAAA <i>Michael McGarvey, MD, FACNS</i>
1:50pm	Discussion Breakouts
2:00pm	Break
2:10pm	Spinal Column Surgery <i>Lidia Cabanes-Martinez, MD, FACNS</i>
2:40pm	Spinal Cord Tumors <i>Eva K. Ritzl, MD, MBA, FACNS</i>
3:10pm	Discussion Breakouts
3:30pm	Break
3:40pm	NIOM of the Pelvic Floor <i>Guillermo Martin-Palomeque, MD, FACNS</i>
4:10pm	NIOM Case Studies <i>various presenters</i>
4:40pm	Medicolegal Concerns in NIOM <i>Jaime López, MD, FACNS</i>
5:10pm	Discussion Breakouts