Second Annual Intraoperative Neuromonitoring Symposium
October 7, 2022
Houston Methodist Research Institute

AGENDA

Time	Presentation	Speaker
7:00 AM	**Registration and Breakfast**	
8:00	**Welcome and Introductions**	Amit Verma, MD Jeffrey Cohen, MD, PHD Amy Reynolds
	Session I: Evoked Potentials	
8:30	Instrumentation	Brett Netherton
9:15	Anesthesia	Laverne Gugino, MD
10:00	**Break and Exhibits**	
10:15	Primer on Evoked Potentials - SSEPs, MEPs, ABRs and EMG	Matthew Hastings, MD
11:00	Technical Troubleshooting	Tom Epplin-Zapf, MS, CNIM
11:45	Panel Discussion - Q&A	
12:15 PM	**Lunch and Exhibits**	
	Session II: Application of NIOM	
1:15	Application of NIOM in Spine Procedures	Mark Ross, MD
1:45	Intraoperative TCD Monitoring	Zsolt Garami, MD
2:15	**Break and Exhibits**	
2:30	Electrocorticography and Functional Cortical Mapping	Amit Verma, MD
3:00	Transabdominal MEPs	Dave Allison, PhD, CNIM
3:30	Billing and Medicolegal Issues	Jeffrey Cohen MD, PhD
4:00	Panel Discussion	
4:30 PM	**Adjourn**	

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FACULTY

Course Directors

Jeffrey Cohen, MD, PhD

National Medical Director, Intraoperative Neuromonitoring (IONM)
Specialty Care

Amit Verma, MD

Professor of Clinical Neurology, Academic Institute
Full Clinical Member, Research Institute
Program Director, Clinical Neurophysiology Residency, Stanley H. Appel Department of Neurology
Houston Methodist
Weill Cornell Medical College

Guest Faculty

Laverne Dennis Gugino, MD, PhD

Anesthesiologist
Brigham and Women's Hospital
Associate Professor of Anesthesia, Part-time
Harvard Medical School

Houston Methodist and SpecialtyCare Faculty

Dave Allison

Neurophysiologist
Houston Methodist

Tom J Epplin-Zapf, MS, MA, CNIM

Director of Clinical Quality and Education, Intraoperative Neuromonitoring (IONM)
SpecialtyCare

Zsolt Garami, MD

Allison Family Centennial Endowed Director in Cardiovascular Innovation DeBakey Heart & Vascular Center
Associate Professor of Clinical Cardiovascular Surgery, Academic Institute
Associate Clinical Member, Research Institute
Houston Methodist
Weill Cornell Medical College

Andrew S. Goldstein, BS, CNIM

Network Manager, Biomedical Engineering, Intraoperative Neuromonitoring (IONM)
SpecialtyCare

Brett Netherton

Managing Director of SignalGear, LLC

Matthew Hastings, MD

Regional Medical Director
SpecialtyCare

Mark Ross

Neuromonitoring Physician

PROGRAM OVERVIEW

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Neurophysiological intraoperative neuromonitoring is frequently used to help identify nervous system pathways at risk for injury during a wide range of surgical procedures. The objective of this program is to understand the methodologies and practice of neuromonitoring from the perspective of the surgeon, neurophysiologist, technologist, anesthesiologists and nurses. This program will provide education regarding the various aspects of neuromonitoring including basic technical issues, interpretation and medicolegal aspects. We will discuss the ways institutions can collaborate with national companies to provide high quality services.

TARGET AUDIENCE

Physicians (Neurologists, Surgeons and Anesthesiologists), Intraoperative Monitoring Technologists, Nurses, Residents/Fellows, Students, and researchers in Intraoperative Neurophysiological Monitoring will benefit from this course.

EDUCATIONAL OBJECTIVES

At the conclusion of this activity, the participant should be able to:

- Discuss the technical aspects of Neurophysiological Intraoperative monitoring
- Apply knowledge of effects of anesthesia and develop a plan for monitoring while effectively communicating with anesthesia team
- Recognize and troubleshoot technical issues
- Design a comprehensive monitoring plan for each individual patient based on segments of the nervous system at risk during surgery
- Recognize medico-legal, billing and regulatory aspects of neurophysiological intraoperative monitoring

NURSING LEARNING OUTCOMES

Nurses attending this activity will be able to describe at least 1 learning they will apply to their practice based on intraoperative neurological monitoring, as evidenced by self-reported intent to change practice on the evaluation.

EDUCATIONAL METHODS

Didactic Lectures, Panel Discussions, and Question and Answer Sessions

ACCREDITATION AND CREDIT DESIGNATION STATEMENTS

Physicians

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Houston Methodist and SpecialtyCare. Houston Methodist is accredited by the ACCME to provide continuing medical education for physicians.

Houston Methodist designates this live activity for a maximum of 6.50 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses

Houston Methodist is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

This CNE activity is being jointly provided by Houston Methodist collaboratively with SpecialtyCare.

Houston Methodist will award 6.67 contact hours for this activity. Participants must attend the activity in its entirety and complete the corresponding evaluation.

ASET Credits

The 2nd Annual Intraoperative Neuromonitoring Symposium has been approved for 6.5 hours of ASET CEUs.

HOW TO RECEIVE YOUR CERTIFICATE

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Physicians
An email will be sent from learn@houstonmethodist.org with the necessary link to evaluate the activity. You will be prompted to print/download your certificate in PDF format once you have submitted your evaluation.

Nurses
To be awarded up to 6.67 contact hours for this continuing education activity, the participant must:

- Be sure to check in and complete the sign in process.
- Attend each session in its entirety (Contact hours are awarded only for full day attendance)
- Complete the evaluation tool. An email will be sent from learn@houstonmethodist.org with the necessary link to evaluate the activity. You will be emailed a link to print/download your certificate in PDF format within one week of completing your evaluation.

ASET
To be awarded up to 6.5 contact hours for this continuing education activity, the participant must complete their evaluation and enter in their ASET ID # on the evaluation tool. This information will be sent directly to ASET and recorded as CEU credit.

DISCLAIMER AND DISCLOSURES

Houston Methodist makes every effort to develop continuing education activities that are scientifically based, accurate, current, and objectively presented. In accordance with the Accreditation Council for Continuing Medical Education (ACCME) Standards for Integrity and Independence in Accredited Continuing Education and American Nurse Credentialing Center (ANCC), Houston Methodist has implemented a mechanism requiring everyone in a position to control content of an educational activity (e.g., directors, planning committee members, contributors, peer reviewers, etc.) to disclose all financial relationships with ineligible companies (companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients) and mitigate any relevant financial relationships prior to the activity. Individuals must disclose to participants the existence of financial relationships at the time of the activity and 24 months prior.

Houston Methodist does not view the existence of interests or relationships with ineligible companies as implying bias or decreasing the value of a presentation. It is up to the participants to determine whether the interests or relationships influence the presenter with regard to exposition or conclusions.

In addition, if contributors will be discussing products (drugs/devices) they have been instructed to use generic names and to include various products within and across classes. If at any time during this activity you feel that there has been commercial or promotional bias, please notify the CE coordinator for the activity and note your comments by using the commercial bias comments box in the evaluation form. Please answer the question about balance in the CE activity evaluation candidly.

Some drugs/devices identified during this activity may have United States Food and Drug Administration (FDA) clearance for specific purposes only or for use in restricted research settings. The FDA has stated that it is the responsibility of the individual physician to determine the FDA status of each drug or device that he/she wishes to use in clinical practice and to use the products in compliance with applicable law.

Faculty members are also asked to disclose any unlabeled use or investigational use (not yet approved for any purpose) or pharmaceutical and medical device products and provide adequate scientific and clinical justification for such use. Physicians are urged to fully review all the available data on products or procedures before using them to treat patients.

Name	Role	Relevant Financial Relationship(s)
Zsolt Garami, MD, RPVI	Speaker	Consultant: Novasignal; Consultant: W.L. Gore; Consultant: Siemens
Brett Netherton	Speaker	Owner: Signal Gear, LLC
Amit Verma, MD	Speaker	Speaker – SK Pharma; Speaker – UCB; Speaker – Neuralis; Speaker - Eisai

All the relevant financial relationships listed for these individuals have been mitigated.

All others in control of content for this activity have no relevant financial relationships with ineligible companies to disclose.

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EXHIBITORS

We gratefully acknowledge the following companies for participating as exhibitors at this activity:

Ambu

Nihon Kohden

Rhythmlink

UCB