Monitoring During Spinal Surgery
8:50 a.m. Monitoring During Spinal Tumor Removal and D Wave Monitoring (Thirumala)
9:10 a.m. Principles of Motor Evoked Potentials and Monitoring during Scoliosis Surgery (Balzer)
9:30 a.m. Monitoring During Tethered Cord Surgery (Thirumala)
9:50 a.m. Minimally Invasive Spine surgery (MIS) Monitoring (Balzer)
10:00 a.m. Break

Awake Cranial Surgery
10:30 a.m. Mapping of Eloquent Cortex and Direct Cortical Stimulation (Balzer)
11:00 a.m. Evaluation and Management of Pre, Peri and Post-Operative Seizures (Ghearing)
11:30 a.m. Epilepsy Surgery and Cortical Mapping (Baldwin)
12:00 p.m. Lunch
1:00 p.m. Conference Adjournment

Tuition
Registration: $250. Please make check payable to UPMC Presbyterian Shadyside and include name of participant on check.

Registration
Online registration is available at the UPMC Center for Continuing Education in the Health Sciences website at ccehs.upmc.edu/home.jsf.

CME Accreditation
The University of Pittsburgh School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Pittsburgh School of Medicine designates this live activity for a maximum of 11.25 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other health care professionals are awarded 1.1 continuing education units (CEU’s) which are equal to 11.2 contact hours

Faculty Disclosure
All individuals in a position to control the content of this education activity are required to disclose all relevant financial relationships with any proprietary entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients

Special Needs
Participation by all individuals is encouraged. Advance notification of any special needs will help us better serve you. Please notify us of your needs at least two weeks in advance of the program.

Cancellation Policy
All cancellations must be in writing and sent to us via U.S. mail, email or fax (see contact information below). Tuition for cancellations postmarked or date stamped before November 21, 2016 will be refunded in full.

After November 21, 2016, a $50 administrative fee will be assessed, the remaining amount refunded, and no refunds will be made after November 28, 2016.

Cancellation requests should be sent to:
Mary Ellen Fosbrink, Course Coordinator
Department of Neurological Surgery
UPMC Presbyterian
200 Lothrop Street/B-400
Pittsburgh, PA 15213-2582
Phone: (001) 412-648-2570
Fax: (001) 412-383-8999
E-Mail: fosbrinkme@upmc.edu

Course Location and Hotel Accommodations
Location:
UPMC Presbyterian Hospital Campus
200 Lothrop Street
Pittsburgh (Oakland), PA 15213

Day 1: Biomedical Science Tower (BST South) Room S120
Day 2: Scaife Hall, Conference Center, Room 1105A

Hotels within walking distance of campus:
Wyndham Pittsburgh University Center
100 Lytton Avenue
Pittsburgh (Oakland), PA 15213
Phone: (412) 682-6200
Distance from campus is 0.7 miles; travel time on foot is 10 minutes.

A block of rooms is being held at the Wyndham at a rate of $138.00. To make an online reservation, please visit www.wyndhampittsburghuniversitycenter.com, type in the group code 12046841PP for the December 5-6, 2016 course.

Wyndham nightly parking charge: $10.00

Hilton Garden Inn Pittsburgh University Place
3454 Forbes Avenue
Pittsburgh PA 15213
Phone: (412) 683-2040
Distance from campus is 0.3 miles; travel time on foot is five minutes.

The University of Pittsburgh is an affirmative action, equal opportunity institution.
Course Objectives

The course is designed for advanced professionals performing or involved in intraoperative neuromonitoring including but not limited to neurologists, PM&R physicians, anesthesiologists, board certified neurophysiologists, senior neurophysiology technologists, and surgeons who utilize IONM. The course will highlight practice specifications, multimodality protocols, recent advances in the field, pre- and post-operative neurological evaluation and management and telemedicine. Presentations will reference to current literature, technical developments, methodologies and clinical efficacy. The faculty is composed of University of Pittsburgh Medical Center physicians and neurophysiologists with extensive experience and publication history in IONM.

Course structure will provide a forum to discuss principles and practice of IONM. Special interest will be given to data interpretation, development of differential diagnosis and pre- and post-operative evaluation of neurological complications. Ample opportunity for interaction between the faculty and the audience will be given. Learning objectives are to expose participants to material that will allow them to achieve a comprehensive understanding of IONM and how it relates to the following concepts:

- Advanced principles for neurophysiological monitoring, including instrumentation, neurormonitoring protocols, alarm criteria and clinical efficacy,
- Minimally invasive spine surgery including transposao approaches,
- Pre-, peri- and post-operative evaluation of neurological complications including stroke, cognitive deficits, seizure and spinal cord injury,
- Multimodality monitoring techniques for a variety of procedures including spine and vascular,
- Cranial nerve monitoring during skull base procedures,
- Neuroanesthesia, and
- Development of a P&P manual, documentation and communication with the technologist, development of quality assurance metrics and training, and

Course Dates

December 5-6, 2016

Target Audience

Neurologists, PM&R physicians, anesthesiologists, board certified neurophysiologists, senior neurophysiology technologists, and neurological, orthopedic, vascular and ENT surgeons professionals performing advanced intraoperative neuromonitoring.

Course Directors

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Director, Clinical Operations, UPMC Center for Clinical Neurophysiology

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Paul Gardner, MD
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Co-Director, UPMC Center for Cranial Base Surgery
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Maria Baldwin, MD
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Director
UPMC Center for Clinical Neurophysiology
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Principles of Intraoperative Monitoring

7:30 a.m. Perioperative Neurology and Physiological Basis of Monitoring (Thirumala)
8:00 a.m. IONM Equipment and Technology (Quallich/Balzer)
8:30 a.m. Neuroanesthesia (Gierl)
9:00 a.m. Communication and Documentation: Medical and Legal Implications (Balzer)
9:30 a.m. Break

Monitoring During Skull Base Surgery

10:00 a.m. Principles of EMG and Extraocular cranial and Cephalic Nerve Monitoring (Balzer)
10:20 a.m. Principles of BAEPs and Monitoring During MVD (Thirumala)
10:40 a.m. Monitoring During Endoscopic Endonasal Procedures (Balzer)
11:00 a.m. Key Note: Dr. Paul Gardner: Intraoperative Monitoring in Skull BaseSurgery (Gardner)
12:00 p.m. Lunch

Monitoring During Cardiac and Vascular Surgery

1:00 p.m. Principles of EEG and SSEP Monitoring During CEA (Thirumala)
1:20 p.m. Monitoring During Cardiac Surgery (Thirumala)
1:40 p.m. Evaluating Perioperative Stroke: Etiology, and Treatment (Jovin)
2:00 p.m. Monitoring During Endovascular Procedures (Balzer)
2:20 p.m. Evaluating Cognitive Dysfunction and Dementia after Cardiac and Vascular (Henry)
2:40 p.m. Transcranial Doppler During Vascular Procedures (Balzer)
3:00 p.m. Break
3:30 p.m. Differential Diagnosis and Interpretation of Data: Case Based Learning (Faculty)
4:30 p.m. Conference Adjournment

Day 2 (Scaife Hall):

7:00 a.m. Breakfast

Quality and Safety During Monitoring

7:30 a.m. Trouble Shooting in the Operating Room (Sunderlin/Balzer)
7:50 a.m. Policy and Procedure Manual Development (Balzer)
8:10 a.m. Telemedicine and IOM (Thirumala)
8:30 a.m. Training and Quality Assurance for Technologists (Corridoni/Balzer)