

Hosted Online Via "Zoom"

EVENT: Intraoperative Neuromonitoring for Cardiovascular Procedures

March 11, 2023 - 08:45 AM Eastern Time

Overview and Learning Objectives:

Intraoperative Neuromonitoring (IONM) is not currently considered a standard of care for cardiovascular surgery. This course will demonstrate compelling evidence that patients who are at elevated risk for stroke can benefit from IONM during cardiovascular procedures.

Implementing IONM for at-risk patients requires collaboration and communication between multiple healthcare professionals including (but not limited to) the surgical team, anesthesiologists, perfusionists, neurologists, stroke interventionalists, intensivists, and PM&R physicians. Systems need to be put in place for identifying atrisk patients, developing techniques to avoid intraoperative stroke, identifying intraoperative stroke, planning for treatment of intraoperative stroke, and postoperatively managing patients who have experienced intraoperative stroke.

Who Should Attend:

Intraoperative Neuromonitoring for Cardiovascular Procedures is designed for cardiac surgeons, cardiologists, neurologists, neuro interventional radiologists, neuro critical care physicians, board-certified clinical neurophysiologists, advanced surgical neurophysiologists, PM&R physicians, perfusionists, APPs that support stroke and cardiac patients, and family medicine practitioners.



Ibrahim Sultan, MD

Course Co-Director Associate Professor of Cardiothoracic Surgery Director, Center for Thoracic Aortic Disease Surgical Director, Center for Heart Valve Disease

"Stroke is one of the most devastating complications associated with cardiac surgery. This course explores utilization of intraoperative neuromonitoring technology to mitigate risk of undetected intraoperative stroke. A multidisciplinary team approach to integrating neuromonitoring into day-to-day cardiac surgery is critical. We are eager to join our colleagues from around the globe to conduct a deep dive into this important and timely topic."



Partha Thirumala, MD

Course Co-Director Professor, Department of Neurological Surgery and Neurology Medical Director, UPMC Center for Clinical Neurophysiology

"This unique one-day course will demonstrate the efficacy of IONM for early detection of stroke in cardiovascular procedures. It will also highlight the critical importance of timely intervention."

FACULTY:

Katherine Anetakis, MD – University of Pittsburgh Department of Neurological Surgery George Arnaoutakis, MD – University of Texas Department of Cardiovascular Surgery Jeffrey Balzer, PhD – University of Pittsburgh Department of Neurological Surgery Donald Crammond, PhD - University of Pittsburgh Department of Neurological Surgery Joshua Grimm, MD – University of Texas Department of Cardiovascular Surgery Natalie Sridharan, MD - University of Pittsburgh Department of Vascular Surgery Marion Hughes, MD - University of Pittsburgh Department of Radiology Arminder Jassar, MD – Massachusetts General Hospital Department of Cardiothoracic Surgery David J. Kaczorowski, MD - University of Pittsburgh Department of Cardiovascular Surgery Dustin Kliner, MD - University of Pittsburgh Department of Cardiovascular Surgery Brett Reece, MD – University of Colorado Department of Cardiothoracic Surgery Ashu Jadhav, MD – Barrow Neurological Institute Department of Interventional Neurology Katie Scollon MPAS, PA-C – UPMC Heart and Vascular Institute Lori Shutter, MD - University of Pittsburgh Department of Neurology and Critical Care Ibrahim Sultan, MD – University of Pittsburgh Department of Cardiovascular Surgery Kathir Subramaniam, MD - University of Pittsburgh Department of Anesthesiology R. Joshua Sunderlin, MS, CNIM – Procirca Center for Clinical Neurophysiology Partha Thirumala, MD - University of Pittsburgh Department of Neurological Surgery Melita Viegas, MD – University of Pittsburgh Department of Pediatric Cardiothoracic Surgery Sarah Yousef, MD - University of Pittsburgh Department of Cardiovascular Surgery

SATURDAY, MARCH 11, 2022

8:45 - 9:00am:	Welcome Address Ibrahim Sultan, MD; Partha Thirumala, MD
Section I:	
9:00—9:20am:	Last electrically well Katherine Anetakis, MD
9:20—9:40am:	Cerebral perfusion and IONM alerts Jeffrey Balzer, PhD
9:40—10:00am:	Anesthetic management in cardiac procedures with IONM Kathir Subramaniam, MD
10:00—10:20am:	Intraoperative neuromonitoring – your ally against intraoperative stroke R. Joshua Sunderlin, MS, CNIM
10:20—10:35am:	Panel Discussion (15 min) – Jeffrey Balzer, PhD
10:35—10:50am:	Break – Virtual Exhibits
Section II:	

12:45—1:20pm:	Lunch/Exhibits
12:30—12:45pm:	Panel Discussion (15 min) – Ibrahim Sultan, MD
12:10—12:30pm:	Intraoperative Maneuvers in response to IONM alerts Arminder Jassar, MD
11:50—12:10pm:	Stroke risk in carotid procedures Natalie Sridharan, MD
11:30—11:50am:	IONM during endovascular cardio-aortic procedures George Arnaoutakis, MD
11:10—11:30am:	Cerebral protection devices in transcatheter aortic valve replacement Dustin Kliner, MD
10:50—11:10am:	Monitoring during open aortic arch procedures Brett Reece, MD

Section III:

1:20—1:40pm:	Stroke risk in pediatric cardiovascular procedures Melita Viegas, MD
1:40 – 2:00pm:	Options when Intraoperative Neuromonitoring is not available Joshua Grimm, MD
2:00—2:20pm:	Heart transplant and LVAD procedures – Role of IONM David J. Kaczorowski, MD
2:20—2:40pm:	Quality improvement in cardiac neuromonitoring: Opportunities and challenges Partha Thirumala, MD
2:40—3:00pm:	Imaging of acute infarcts Marion Hughes, MD
3:00—3:20pm:	Endovascular Management of perioperative stroke Ashu Jadhav, MD
3:20—3:35pm:	Panel Discussion (35 min) – Partha Thirumala, MD
3:35—3:50pm:	Break/Exhibits
Section IV:	
3:50–4:10pm:	Neurocritical care: Communication is the key Lori Shutter, MD
4:10—4:30pm:	Perioperative stroke risk: Building a plan for who gets IONM at an institutional level Partha Thirumala, MD
4:30—5:15pm:	Complex Case Presentations: Jeffrey Balzer, PhD Partha Thirumala, MD Katherine Anetakis, MD Donald Crammond, PhD

5:15pm: Course Adjournment

R. Joshua Sunderlin, MS, CNIM

Faculty Disclosure

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All of the relevant financial relationships for the individuals listed below have been mitigated:

George Arnaoutakis, MD: Consultant – Terumo Aortic David Kaczorowski, MD: Consultant – Abiomed & Medtronic. CE Speaker's Bureau – Abiomed & Medtronic Ibrahim Sultan, MD: Grant Research Support – Abbott, Artivion, Boston Scientific, Medtronic, Edwards Brett Reece, MD: Consultant – GORE, Terumo Arminder Jassar, MD: Consultant – Terumo Aortic

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Physician (CME)

The University of Pittsburgh designates this live activity for a maximum of 7.25 AMA PRA Category 1 Credits[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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The maximum number of hours awarded for this Continuing Nursing Education activity is 7.25 contact hours.

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Other Healthcare Professionals

Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

Perfusionists

The American Board of Cardiovascular Perfusion (ABCP) has approved this activity for 8.3 Category I CEUs for Perfusionists.

ASET CEUs

ASET – The Neurodiagnostic Society has granted 7.0 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.

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