

## **SATURDAY, MARCH 26, 2022**

7:15 - 7:30am: Welcome Address  
Ibrahim Sultan, MD; Partha Thirumala, MD

### **Section I:**

7:30—7:50am: Last electrically well: physiological basis for IONM  
Katherine Anetakis, MD

7:50—8:10am: Cerebral perfusion and IONM alerts  
Jeffrey Balzer, PhD

8:10—8:30am: Anesthetic management in cardiac procedures with IONM  
Erin Sullivan, MD

8:30—8:50am: Modern neuromonitoring – your ally against intraoperative stroke  
R. Joshua Sunderlin, MS, CNIM

8:50—9:05am: *Panel Discussion (15 min) – Jeffrey Balzer, PhD*

**9:05—9:20am: Break/Exhibits**

### **Section II:**

9:20—9:40am: Cerebral protection devices in transcatheter aortic valve replacement: what is the evidence?  
Dustin Kliner, MD

9:40—10:00am: IONM during endovascular cardio-aortic procedures  
George Arnaoutakis, MD

10:00—10:20am: Monitoring during open aortic arch procedures  
Brett Reece, MD

10:20—10:40am: Your patient has abnormal IONM: intraoperative maneuvers  
Arminder Jassar, MD

10:40—10:55am: *Panel Discussion (15 min) – Ibrahim Sultan, MD*

**10:55—11:10am: Break/Exhibits**

11:10—11:40am: How viruses evolve  
Vaughn Cooper, PhD

**11:40am—12:40pm: Lunch/Exhibits**

### **Section III:**

- 12:40—1:00pm: Monitoring during coronary and valvular surgery  
Joshua Grimm, MD
- 1:00—1:20pm: IONM during short-term and long-term mechanical circulatory support  
David J. Kaczorowski, MD
- 1:40—2:00pm: Perioperative stroke: Overview of etiology and diagnosis  
Sandra Narayanan, MD
- 2:00—2:20pm: Endovascular management of postoperative stroke  
Bradley Gross, MD
- 2:20—2:40pm: Neurocritical Care: Communication is the key  
Bradley Molyneux, MD
- 2:40—2:55pm: *Panel Discussion (15 min) – Partha Thirumala, MD*
- 2:55—3:10pm: Break/Exhibits**

### **Section IV:**

- 3:10—3:40pm: Perioperative stroke risk: Building a plan for who gets IONM at an institutional level  
Partha Thirumala, MD
- 3:40—3:55pm: STS risk stratification of post-operative stroke during cardiac surgery: Current and future state.  
Joe Squire, MSN, RN and AnneMarie Scekeres, MSN, RN, CPQH
- 3:55—4:10pm: Developing a partnership between cardiothoracic surgery and clinical neurophysiology  
Derek Serna-Gallegos, MD & Jeffrey Balzer, PhD
- 4:10—5:00pm: Complex Case Presentations:  
Jeffrey Balzer, PhD  
Partha Thirumala, MD  
Varun Shandal, MD  
Katherine Anetakis, MD  
Donald Crammond, PhD  
Sarah Yousef, MD  
Katie Scollon, PA-C  
Elissa Castor, PA-C
- 5:00pm: Course Adjournment

**FACULTY:**

Katherine Anetakis, MD – University of Pittsburgh Department of Neurological Surgery

George Arnaoutakis, MD – University of Florida Department of Cardiovascular Surgery

Jeffrey Balzer, PhD – University of Pittsburgh Department of Neurological Surgery

Elissa Castor, PA-C – UPMC Heart and Vascular Institute

Vaughn Cooper, PhD - University of Pittsburgh Department of Microbiology

Donald Crammond, PhD - University of Pittsburgh Department of Neurological Surgery

Joshua Grimm, MD – Pennsylvania University Department of Cardiothoracic Surgery

Bradley Gross, MD - University of Pittsburgh Department of Neurological Surgery

Arminster 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

Bradley Molyneux, MD, PhD – Brigham and Women’s Hospital Department of Neurology

Sandra Narayanan, MD - University of Pittsburgh Department of Neurology and Neurological Surgery

Brett Reece, MD – University of Colorado Department of Cardiothoracic Surgery

AnneMarie Scekeres, MSN, RN, CPHQ – UPMC Heart and Vascular Institute

Katie Scollon, PA-C – UPMC Heart and Vascular Institute

Derek Serna-Gallegos, MD - University of Pittsburgh Department of Cardiovascular Surgery

Varun Shandal, MD - University of Pittsburgh Department of Neurological Surgery

Joe Squire, MSN, RN - UPMC Heart and Vascular Institute

Ibrahim Sultan, MD – University of Pittsburgh Department of Cardiovascular Surgery

Erin Sullivan, 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

Sarah Yousef, MD - University of Pittsburgh Department of Cardiovascular Surgery