Hybrid Event (in-person & virtual)

# The Arizona Brain and Heart Symposium

A Collaboration of Barrow Neurological Institute and Arizona Heart Rhythm Center



Oct. 21 & 22, 2022

Hybrid Conference (in-person & virtual) Friday, 1-5 p.m., Saturday, 8 a.m.-3:30 p.m.

Goldman Auditorium at Barrow Neurological Institute 350 West Thomas Road, Phoenix, Arizona, 85013



Petznick



#### Who Should Attend

The program has been designed to meet the educational goals of cardiologists and neurologists, including residents and fellows training both specialties, as well as internists, physicians, nurses, and other health care workers involved in the evaluation and treatment of patients with neurologic and cardiac disorders.

#### **Objectives**

- Define the common conditions of brain-heart related disorders such as stroke, seizure, encephalopathy, arrhythmia
- Cite the updated recommendation on the diagnostic workup of the above mentioned conditions
- Manage medically in terms of stroke prevention, arrhythmia control, and seizure control
- Explain the options in interventional treatment of cardiac arrhythmia, rhythm control, and stroke prevention

## **Designation**

#### CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

#### Accreditation

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 American College of Surgeons and the Barrow Neurological Institute. The American College of Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

#### AMA PRA Category 1 Credits™

The American College of Surgeons designates this live activity for a maximum of **9.00** AMA PRA Category 1 Credits<sup>M</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.





AMERICAN COLLEGE OF SURGEONS DIVISION OF EDUCATION

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





BarrowNeuro.org/BrainHeart

azheartrhythmcenter.com/brainheart

For more information, please contact the Barrow Continuing Medical Education
Office at CME@BarrowNeuro.org or contact the event committee

Maria.Sanchez6@DignityHealth.org

## **Disclosure Policy**

It is the policy of St. Joseph's Hospital and Medical Center to ensure balance, independence, objectivity, and scientific rigor in all of its educational programs. All those in control of content will disclose all relevant relationships with commercial interests. Detailed disclosures will be made in the activity handout materials.

#### **Barrow Neurological Institute Faculty**

Brad A. Racette, MD, FAAN

Barrow Neurology Chair Movement Disorders

David Wang, DO, FAAN, FAHA

Co-Director, Petznick Stroke Center Division of Vascular Neurology

Terry D. Fife, MD

Director

Balance Disorders and Vestibular Neurology Program

Justin Hoskin, MD

Neurologist

Balance Disorders and Vestibular Neurology

Program

Supreet Kaur, MD

Neurologist

Division of Vascular Neurology

Daniel Gonzalez, MD

Neurologist

Division of Vascular Neurology

Andrew Ducruet, MD

Neurosurgeon

Division of Endovascular Neurosurgery

Richard Foster, MS, RVS, RVT, RDMS

Neurosonology Supervisor

Diagnostic Imaging

Transcranial Doppler Ultrasonography

Andrew Kalkowski, RN

**Emergency Stroke Treatment Unit** 

## St. Joseph's Hospital and Medical Center Faculty

Kevin Brady, MD

Cardiothoracic Surgeon Heart and Vascular Institute

Pallavi Bellamkonda, MD

Cardiologist

Heart and Vascular Institute

Hursh Naik, MD

Cardiologist

Heart and Vascular Institute

Rajakrishnan Vijayakrishnan, MD

Cardiologist

Norton Thoracic Institute

#### **Arizona Heart Rhythm Center Faculty**

Vijendra Swarup, MD, FACC, FHRS

Medical Director

Robert Lemery, MD, FACC, FHRS

Electrophysiologist

Sudarone Thihalolipavan, MD

Electrophysiologist

Gali Gannett, PA

Physician Assistant

## **Guest Faculty**

Saibal Kar, MD

Director of Structural Heart Disease and Research at HCA Healthcare

Dhanunjaya R. Lakkireddy, MD, FHRS

**Executive Medical Director** 

Kansas City Heart Rhythm Institute

Vivek Reddy, MD, FACC, FHRS

Medical Director

Mount Sinai Cardiac Arrhythmia Services

Kalyanam Shivkumar, MD, FACC, FHRS

Medical Director

UCLA Cardiac Arrhythmia Center

#### M. Edip Gurol, MD, MSc

Vascular Neurologist

Director, High Hemorrhage Risk Stroke

Prevention Clinic

Massachusetts General Hospital | Harvard

Medical School

Roderick Tung, MD

Cardiovascular Center at Banner – University Medical Center Phoenix and Division Chief of Cardiology at the University of Arizona College

of Medicine – Phoenix

## **Course Directors**



Vijendra Swarup, MD, FACC, FHRS

Medical Director Arizona Heart Rhythm Center



**David Wang, DO, FAAN, FAHA**Co-Director
Division of Vascular Neurology

Barrow Neurological Institute



Robert Lemery, MD, FACC, FHRS Electrophysiologist Arizona Heart Rhythm Center

## AGENDA Oct. 21 & 22, 2022 (Pacific Daylight Time)

#### Friday, Oct. 21, 2022

1 p.m. Registration and Vendor Exhibit

1:25 p.m. Welcome & Introduction to Brain-Heart

David Wang, DO, Vijendra Swarup, MD, Robert Lemery, MD

1:30 p.m. Brain Health 2022

David Wang, DO

1:40 p.m. Cardiology and Cardiac Electrophysiology in 2022

Vijendra Swarup, MD

1:50 p.m. Brain-Heart: Brief Historical Perspectives and New Frontiers

Robert Lemery, MD

## Session I: Autonomic Neuromodulation to Treat Cardiac Arrhythmias Moderators: David Wang, DO, Vijendra Swarup, MD, Robert Lemery, MD

2 p.m. Cardio Neural Ablation for Vasovagal Syncope

Roderick Tung, MD

2:20 p.m. Renal Denervation for the Treatment of Hypertension and Atrial Fibrillation

Vivek Reddy, MD (Online Speaker)

2:40 p.m. Cardiac Sympathetic Denervation for the Treatment of VT

Keynote Speaker: Kalyanam Shivkumar, MD (Online Speaker)

3 p.m. Panel Discussion, Q&A

3:15 p.m. Coffee Break

Session II: LIVE CASES Interventional Cardiology and Stroke Prevention

Moderators: Vivek Reddy, MD, Hursh Naik, MD, Robert Lemery, MD, David Wang, DO,

Vijendra Swarup, MD

3:30 p.m. PFO Closure

Hursh Naik, MD

LAA Occlusion Vijendra Swarup, MD

4:15 p.m. Panel Discussion, Q&A

**Session III: Neuro Toxins** 

Moderators: David Wang, DO, Vijendra Swarup, MD, Robert Lemery, MD

4:30 p.m. The Impact of Air Pollution on Brain and Heart Health

Brad Racette, MD

4:50 p.m. Panel Discussion, Q&A

5 p.m. Session Adjourns

**6 p.m.** Cocktails and Dinner (Location to be determined)

## Saturday, Oct. 22, 2022

8 a.m. Light Breakfast and Coffee

Session IV: An Introduction to Heart-Brain Interactions

Moderators: David Wang, DO, Robert Lemery, MD, Vijendra Swarup, MD

8:30 a.m. The Brain's in Charge: Basic Understanding of the Sympathetic and

Parasympathetic Nervous System

Justin Hoskin, MD

8:45 a.m. The Heart's in Charge: The Concept of the Little Brain on the Heart: The Intrinsic

Cardiac Nervous System (ICNS)

Robert Lemery, MD

9 a.m. Autonomic Imbalance and Dysautonomias: Primary Neurologic Disorders Affecting

Day-to-Day Regulation of Blood Pressure

Terry Fife, MD

9:15 a.m. Cardiac Syncope: Primary Cardiac Causes of Loss of Conscience: Bradycardia,

Tachycardia and Other Sudarone Thihalolipavan, MD

9:30 a.m. Panel Discussion, Q&A

9:45 a.m. Coffee Break

Session V: LIVE CASES (1 Live and 1 Pre-Recorded) from the Arizona Heart Rhythm Center Moderators: Dhanunjaya Lakkireddy, MD, Sabil Kar, MD, Robert Lemery, MD, Sudarone Thihalolipavan, MD

10 a.m. Live from the EP Lab. Introduction of patient cases Vijendra Swarup, MD, Sudarone Thihalolipavan, MD

10:20 a.m. Individualized Stroke Prevention in Atrial Fibrillation: The Crossroads of Neurology

and Cardiology

Keynote Speaker: M. Edip Gurol, MD, MSc

10:40 a.m. The Role of MitraClip in the Treatment of Mitral Regurgitation in Patients with Atrial

Fibrillation. Sabil Kar, MD

11 a.m. Live from the EP Lab. Progress of Clinical Cases Being Performed

Vijendra Swarup, MD, Sudarone Thihalolipavan, MD

11:20 a.m. Ablation of Atrial Fibrillation: Realistic Expectations for the Referring Physician

Dhanunjaya Lakkireddy, MD

11:40 a.m. Live From the EP Lab. Wrap-Up and Patient Outcomes

Panel Discussion, Q&A

Noon Lunch / Vendors in Marley Lobby / Session Broadcast in Sonntag

12:15 p.m. Loop Recorder/Implants

Gali Gannett, PA

12:30 p.m. The Magic of Transcranial Doppler

Richard Foster

12:45 p.m. Mobile Stroke Unit's Case Study

Andrew Kalkowski, RN

**Session VI: Stroke Therapies and Prevention** 

Moderators: David Wang, DO, Robert Lemery, MD, Vijendra Swarup, MD

1 p.m. Antithrombotics for Stroke Prevention: What are the Current Guidelines?

Daniel Gonzalez, MD

1:15 p.m. Embolic Stroke of Unknown Source: How Do We Manage?

Supreet Kaur, MD

1:30 p.m. Interventional Neuroradiology: What Can Endovascular Therapy Do?

Andrew Ducruet, MD

1:45 p.m. Panel Discussion, Q&A

2 p.m. Coffee Break

Session VII: Covid-19, CHF, and Autonomic Regulation

Moderators: Pallavi Bellamkonda MD, David Wang, DO, Vijendra Swarup, MD,

Robert Lemery, MD

2:15 p.m. Covid-19, Autonomics, and Long Covid

Dhanunjaya Lakkireddy, MD

2:30 p.m. Neuro Humoral Treatment of CHF

Rajakrishnan Vijayakrishnan, MD

2:45 p.m. LVAD, Other Bridge to Permanent Devices and Cardiac Transplantation

Kevin Brady, MD

3 p.m. Panel Discussion, Q&A

3:15 p.m. Meeting Overview and Conclusions of Brain-Heart 2022

David Wang, DO, Vijendra Swarup, MD, Robert Lemery, MD

3:30 p.m. Meeting Adjourns