

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



Barrow
Neurological Institute

Petznick
Stroke Center



ARIZONA
HEART RHYTHM
CENTER

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

Rajakrishna Vijaykrishnan, 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

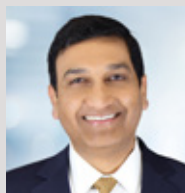
M. Edip Gurol, MD, MSc

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

Keynote Speaker: 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

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 Consciousness: 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
Rajakrishna Vijaykrishnan, 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

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

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the 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.

The American College of Surgeons designates this Other activity (hybrid: in-person and virtual stream) for a maximum of 9 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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



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Register Here



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.