LAA Closure, TAVR, ASD/PFO, Mitral Repair, TMVR, and More
Featuring live case demonstrations, hands-on workshops and satellite symposia!

Course Directors
Matthew J. Price, MD, FACC
Director, Cardiac Catheterization Laboratory
Scripps Clinic and Prebys Cardiovascular Institute
Assistant Professor
Scripps Translational Science Institute
La Jolla, California

Jason H. Rogers, MD, FACC, FSCAI
Professor, Cardiovascular Medicine
Director, Interventional Cardiology
University of California
Davis Medical Center
Sacramento, California

David S. Rubenson, MD, FACC, FASE
Founding Director, Cardiac Non-Invasive Laboratory
Scripps Clinic and Prebys Cardiovascular Institute
La Jolla, California

Live Satellite Case Transmissions

Eighth Annual
Structural Heart Intervention and Imaging 2019: A Practical Approach

February 6-8, 2019 • Hyatt Regency at Aventine • La Jolla, California

Visit www.scripps.org/shicme for course updates!
Course Overview

Transcatheter structural heart disease intervention is a rapidly growing part of clinical care in adult cardiology. Experts expect structural heart disease procedures to grow by as much as 30% in the next decade. Interventionists will need to be skilled in many more procedures than in the past. These procedures require the application of new interventional techniques while integrating imaging before and during treatment. This is an increasingly complex process that relies on systematic and effective collaboration between cardiovascular imaging specialists and interventionists, among others.

Scripps’ Structural Heart Intervention and Imaging conference is designed to provide a practical, cutting-edge, and case-based assessment of the emerging area of structural heart disease intervention and interventional cardiovascular imaging, with an emphasis on the collaborative nature of these procedures across many disciplines within cardiology. The expert faculty will include interventionists, invasive cardiologists, echocardiographers, electrophysiologists, cardiac surgeons, anesthesiologists, and sonographers. Faculty will discuss clinical guidelines on patient selection, pre-procedural assessment, procedural tips, techniques and challenges (including concurrent imaging) during the performance of the procedures and conclude with assessment of outcomes and future directions.

Conference Highlights

- Multidisciplinary expert faculty emphasizing a team approach to care
- Combination of educational formats including live demonstrations of catheter-based structural heart disease interventional procedures with intraprocedural imaging, clinical-pathological correlations with ex vivo cardiac specimen, and pertinent didactic lectures
- Interactive formats, panel discussions, Q&A, and more
- Live satellite case transmissions
- Expanded satellite symposia and hands-on workshops

Educational Objectives

After attending this live activity, participants should be able to:

- Assemble the appropriate multidisciplinary team, imaging technologies and catheter equipment to perform structural heart disease interventions.
- Identify complications of catheter-based therapies for structural heart disease and safely manage them with various procedural techniques.
- Apply a comprehensive approach to the assessment of the aortic, mitral, and tricuspid valves, and the interatrial septum, using echocardiography (TTE, TEE and ICE), CT, and MRI for the purpose of the interventional treatment of these cardiac structures.
- Interpret current clinical data in order to optimize the treatment of patients with aortic stenosis, mitral regurgitation and atrial fibrillation.
- Discuss tricuspid anatomy and function and assess the implications of tricuspid regurgitation and transcatheter techniques for transcatheter tricuspid valve repair.
- Cite the current indications for catheter-based techniques, including transcatheter aortic valve replacement (TAVR), transcatheter mitral valve repair/replacement, left atrial appendage closure, ASD, and paravalvular leaks.
- Evaluate the patient with cryptogenic stroke and identify the patient in whom PFO closure is appropriate.
- Integrate emerging data into TAVR decision-making regarding surgical risk, including low and intermediate-risk patients.
- Interpret and incorporate CT imaging before and after LAA closure.
- Integrate basic and advanced imaging and catheter techniques for transseptal puncture for the purpose of LAA closure, transcatheter mitral valve repair and paravalvular leak closure.
- Select the appropriate type and size device for TAVR, LAA closure, PFO closure, and other structural interventions.
- Apply echocardiographic findings to determine optimal strategy for transcatheter mitral valve repair.
- Employ specific catheter techniques and technologies for the transcatheter repair of simple and complex aortic and mitral paravalvular leaks.
- Incorporate advanced techniques for transcatheter mitral valve repair, TAVR, PFO, ASD, and LAA closure in the setting of challenging anatomy and or patient co-morbidities.
- Avoid common pitfalls in the application of the newer imaging modalities.

Target Audience

- Interventional Cardiologists
- Invasive Cardiologists
- Echocardiographers
- Interventional Radiologists
- Cardiovascular Surgeons
- Cardiac Anesthesiologists
- Cardiology Nurses and Physician Assistants
- Cardiovascular Sonographers
- Cardiac Catheterization Technicians

Accreditation and Disclosure

Physicians

Scripps Health is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Scripps Health designates this live activity for a maximum of 18.5 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

American Society of Radiologic Technologists (ASRT)

This activity is approved by the ASRT for Category A continuing education credit. This is a maximum of 20.25 Category A CE credits awarded.

Nurses

For the purpose of recertification, the American Nurses Credentialing Center accepts AMA PRA Category 1 Credit(s)™ issued by organizations accredited by the ACCME. For the purpose of re-licensure, the California Board of Registered Nursing accepts AMA PRA Category 1 Credit(s)™. The majority of state boards accept AMA PRA Category 1 Credit(s)™ as meeting continuing education requirements for license renewal. Nurses should check with their state’s Board of Registered Nursing regarding use of CME credit.

Physician Assistants

PAs may claim a maximum of 18.5 Category 1 credits for completing this activity. NCCPA accepts AMA PRA Category 1 Credit(s)™ from organizations accredited by ACCME or a recognized state medical society.

Commercial Support

This course is supported, in part, by educational grants from industry, in accordance with ACCME accreditation Standards for Commercial Support. Appropriate acknowledgement will be given to all supporters at the time of the educational activity. Appropriate acknowledgement will be given to all supporters at the time of the educational activity.
Faculty

Course Directors

Matthew J. Price, MD, FACC
Director, Cardiac Catheterization Laboratory
Scripps Clinic and Prebys Cardiovascular Institute
Assistant Professor
Scripps Translational Science Institute
La Jolla, California

Jason H. Rogers, MD, FACC, FSCAI
Professor, Cardiovascular Medicine
Director, Interventional Cardiology
University of California
Davis Medical Center
Sacramento, California

David S. Rubenson, MD, FACC, FASE
Co-Founder
Cardiac Non-Invasive Laboratory
Scripps Clinic and Prebys Cardiovascular Institute
La Jolla, California

Rajev C. Mohan, MD
Advanced Heart Failure and Mechanical Circulatory Support Program
Scripps Clinic and Prebys Cardiovascular Institute
La Jolla, California

Michael H. Picard, MD, FACC, FASE
Professor of Medicine, Harvard Medical School
Director Emeritus, Echocardiography
Massachusetts General Hospital
Editor in Chief, Journal of the American Society of Echocardiography
Boston, Massachusetts

Michael J. Reardon, MD
Alston Family Distinguished Chair in Cardiovascular Research
Department of Cardiovascular Surgery
Professor of Cardiovascular Surgery
Institute for Academic Medicine
Full Member, Research Institute
Well Cornwell Medical College
Professor of Cardiopulmonary Surgery and Chief of Cardio Surgery
Houston Methodist Hospital
Houston, Texas

Mark D. Reisman, MD, FACC
David and Nancy Auth Endowed Chair in Cardiovascular Innovation
Clinical Professor of Medicine
Section Head, Interventional Cardiology
Director, Cardiovascular Emerging Therapies
University of Washington Medical Center
Seattle, Washington

Conference Faculty

Jamil A. Aboulhosn, MD, FACC
Associate Professor of Medicine, Department of Cardiology
Ahmanson/UCLA Adult Congenital Heart Disease Center
David Geffen School of Medicine
University of California, Los Angeles
Los Angeles, California

Joseph R. Aragon, MD, FACC, FSCAI
Assistant Clinical Professor
Keck School of Medicine at USC
Interventional Cardiology and Structural Heart Disease
Santa Barbara Cottage Hospital
Director, Division of Cardiology
Sanus Clinic
Santa Barbara, California

Mary Z. Bechis, MD, FACC
Staff Cardiologist
Sharp Rees-Stealy Medical Group and Sharp Memorial Hospital
San Diego, California

Kristen L. Billick, BS, ACS, RDCS, FASE
Cardiac Sonographer Educator / Lead Sonographer
Scripps Clinic and Prebys Cardiovascular Institute
La Jolla, California

Gregory P. Fontana, MD, FACC
Thoracic and Cardiovascular Surgery
Institute of Los Robles Hospital and Medical Center
Thousand Oaks, California

Philippe Geneux, MD
Co-Director, Structural Heart Disease Program
Morristown Medical Center
Atlantic Health System
Morristown, New Jersey

Elliott M. Groves, MD, M.Eng
Director of Structural Heart Interventions
University of Illinois at Chicago
Chicago, Illinois

Maya E. Guerrero, MD, FACC, FSCAI
Department of Cardiovascular Medicine
Mayo Clinic Jacksonville
Rochester, Minnesota

Rebecca T. Hahn, MD, FASE, FACC
Director of Invasive and Valvular Echocardiography
Associate Professor of Medicine, Department of Cardiology
Columbia College of Physicians and Surgeons
Columbia University Medical Centers / New York Presbyterian Hospital
New York, New York

J. Thomas Heywood, MD, FACC
Director, Advanced Heart Failure and Mechanical Circulatory Support
Scripps Clinic and Prebys Cardiovascular Institute
La Jolla, California

Stephen Hu, MD
Director, Clinical and Procedural Cardiac CT
Scripps Clinic and Prebys Cardiovascular Institute
La Jolla, California

Saibal Kar, MD, FAHA, FACC, FSCAI
Director, Interventional Cardiac Research
Associate Professor, Medicine
Cedars-Sinai Medical Center
Los Angeles, California

Azeem Latib, MD, FESC, FACC
Co-Director, Structural Heart Interventions
Mount Sinai Medical Center
New York, New York

David Lerner, DO
Clinical Fellow
Division of Cardiovascular Disease
Scripps Clinic and Prebys Cardiovascular Institute
La Jolla, California

G. Burkhard Mackensen, MD, PhD, FASE
Director of Interventional Echocardiography
University of Washington
Seattle, Washington

Rajiv P. Mehta, MD
Professor of Medicine
University of Pennsylvania
Philadelphia, Pennsylvania

Christian S. Ohman, MD
Research Associate Professor of Medicine
University of Cincinnati College of Medicine
Cincinnati, Ohio

Luke S. Oh, MD, FACC
Assistant Professor, Medicine
Chief, Division of Cardiovascular Anesthesiology
UW Medicine Research & Education Endowed Professor in Anesthesiology
Department of Anesthesiology & Pain Medicine
University of Washington
Seattle, Washington

Faculty Disclosure

In accordance with the ACCME Standards for Commercial Support, course directors, planning committees, faculty, and other consultants in control of the educational content of the CME activity must disclose all relevant financial relationships with any commercial interest that they or their spouse/partner may have had within the past 12 months. An individual refuses to disclose relevant financial relationships, they will be disqualified from being a part of the planning and implementation of this CME activity. Owners and/or employees of a commercial interest with business lines or products relating to the content of the CME activity will not be permitted to participate in the planning or execution of an accredited activity.

A complete listing of disclosures associated with this program can be found on the conference website: www.scripps.org/hcme and in the mobile conference app: www.grupio.com/SHI19

Agenda

Tuesday, February 5, 2019

HANDS-ON TRANSSEPTAL WORKSHOP
Non-CME Activity Sponsored By Baylis Medical and Boston Scientific Corporation
8 a.m.- Transseptal Workshop
4 p.m. Matthew J. Price, MD
Jason H. Rogers, MD
Douglas C. Shook, MD

This hands-on workshop is intended for the practicing interventional cardiologist who is planning on performing procedures involving left atrial access, such as, but not limited to, transcatheter mitral valve repair, LAA closure, and mitral valveplasty. Upon completion of this activity, the physician should be able to utilize best practices in transseptal puncture to avoid complications. The agenda will include didactics, dissection, simulation, and an animal lab with hands-on catheter manipulation.

TO REGISTER YOU MUST VISIT: https://www.baylismedical.com/medical-education/transseptal-courses/hands-on-transseptal-course-c/2

Wednesday, February 6, 2019

IMAGING SYMPOSIUM AND HANDS-ON WORKSHOP EMPHASIZING 3D ECHOCARDIOGRAPHY
Non-CME Activity Supported by GE Healthcare and Philips Healthcare
7 a.m. Imaging Symposium Registration
8 a.m. GE Hands-on Workshop
9:30 a.m. Break
10 a.m. Philips Hands-on Workshop
11:30 a.m. Imaging Workshop Adjourns

These hands-on workshops are designed to enhance the skill set for echocardiographers, cardiac sonographers, invasive and interventional cardiologists involved in pre-operative and intra-operative imaging for structural intervention. Expert imaging faculty will guide the audience through the analysis of cardiac anatomy using three-dimensional echo datasets on individual work stations. Instruction will emphasize display of anatomy and measurements for pre-procedural analysis and intra-procedural guidance for TAVR, transseptal puncture, LAA and ASD closure, and mitral valve procedures.

These sessions are limited to 40 participants
11 a.m. Registration
11:30 a.m. Lunch with the Experts: Challenging Cases in Structural Intervention
Philippe Geneux, MD
Matthew J. Price, MD
David G. Rizik, MD

1 p.m. Break & View Exhibits
Wednesday, February 6, 2019

1:30 p.m. LIVE CASE
TAVR: State of the Art
Paul S. Teirstein, MD

The Aortic Valve: Clinical-Pathological Correlations
Douglas C. Shook, MD

Evolving Directions for TAVR
Michael J. Reardon, MD

Cerebral Protection for TAVR: When and Why
David G. Rizik, MD

Patient-Prosthesis Mismatch and Its Implication for Transcatheter Intervention
Michael H. Picard, MD

Overcoming Patient-Prosthesis Mismatch with Valve-in-Valve TAVR: Why and How to Crack the Valve
Elliott M. Groves, MD

3:30 p.m. Break & View Exhibits

4 p.m. LIVE CASE
A Novel Grading System for Aortic Stenosis
Philippe Genereux, MD

The Interalatrial Septum: Clinical-Pathological Correlations
Douglas C. Shook, MD

ICE Imaging for PFO and ASD Closure
Gagan D. Singh, MD, MS

PFO Closure Fundamentals: Devices, Size Selection and Staying Out Of Trouble
Matthew J. Price, MD

Transseptal Puncture: Synthesizing Imaging and Technique for Optimal Procedural Outcomes
Gagan D. Singh, MD, MS

6 p.m. Main Conference Adjourns & Cocktail Reception

6:30 p.m. Dinner Symposium (Non-CME)
PARADIGM SHIFTS IN THE TREATMENT OF HEART FAILURE AND MITRAL VALVE DISEASE

Heart Failure, Structural Heart Disease and Interventional Cardiology: Where Are We and Where Are We Going?
Matthew J. Price, MD

Best Practices for Continuous Monitoring of PA Pressure in Heart Failure Patients: When and Why?
J. Thomas Heywood, MD

The Role of the Heart Failure Physician in the Management of Mitral Regurgitation: What Is Optimal Therapy and When to Address the Valve?
Ajay V. Srivastava, MD

Echocardiography of the Mitral Valve in the Setting of Left Ventricular Dysfunction
Thomas W.R. Smith, MD

Periprocedural Hemodynamic Management of the Patient with LV Dysfunction Undergoing Transcatheter Mitral Valve Repair
Rajeev C. Mohan, MD

Interventional Heart Failure Case Studies
Moderator: Matthew J. Price, MD

Thursday, February 7, 2019

6:30 a.m. Continental Breakfast & View Exhibits

7:30 a.m. The Mitral Valve: Clinical-Pathological Correlations
Douglas C. Shook, MD

Advanced TEE Assessment of the Mitral Valve
Transcatheter Mitral Valve Procedures
G. Burkhard Mackensen, MD, PhD

MitraClip for Functional MR: Where Are We and Where Are We Going?
Saibal Kar, MD

Transcatheter Mitral Annuloplasty: Patient and Device Selection
Jason H. Rogers, MD

Stress Echocardiography and Its Utility in Mitral and Aortic Valve Disease
William J. Stewart, MD

9:30 a.m. Break & View Exhibits

10 a.m. LIVE CASE
Anatomical Considerations for the Left Atrial Appendage
Douglas C. Shook, MD

Left Atrial Appendage Closure: Current State of the Data
Saibal Kar, MD

CT Screening for Watchman and Amulet LAA Closure: Step-by-step
Jacqueline Saw, MD

TEE for LAAC: Watchman and Amulet Before, During and After The Procedure
Thomas W.R. Smith, MD

Preventing and Managing Complications of LAA Closure
Saibal Kar, MD

Noon Lunch and Lectures
Establishing a Top Level Structural Echo Lab
Kristen L. Billick, BS, ACS, RDCS

Radiation in Structural Imaging: Controlling your Exposure
David Lerner, DO

3:30 p.m. Break & View Exhibits

4 p.m. LIVE CASE
Valve in MAC: Screening, Approach and Clinical Outcomes
Maya E. Guerrero, MD

Transcatheter Leaflet Repair, Annuloplasty, Chordal Intervention, and/or Replacement: Putting It All Together For the Particular Patient
Azeem Latib, MD

Interratrial ASD Devices for the Treatment of Heart Failure
Rajeev C. Mohan, MD

Interventional Therapy of Congenital Heart Disease:
2018 Guideline Update
Jamil A. Aboulhosn, MD

6 p.m. Main Conference Adjourns & Cocktail Reception

6:30 p.m. DINNER SYMPOSIUM (Non-CME Activity)
Patent Foramen Ovale and Cryptogenic Stroke: Outcomes Data and Patient Selection

Welcome & Introduction
Saibal Kar, MD

Deep Dive into the Clinical Data and the REDUCE Randomized Trial of PFO Closure
Saibal Kar, MD

Patient Selection for PFO Closure: The Neurologist’s Perspective
Joseph R. Aragon, MD

8 p.m. Symposium Adjourns

Thursday, February 7 (cont.)

1:30 p.m. LIVE CASE FROM UNIVERSITY OF WASHINGTON MEDICAL CENTER, SEATTLE
Under the direction of Dr. Mark D. Reisman

Left Ventricular Outflow Tract Obstruction after TMVR, Valve-in-Valve, Valve-in-Ring and Valve-in-MAC
Mark D. Reisman, MD

Evaluation and Management of Asymptomatic Aortic Stenosis
Philippe Genereux, MD

Ischemic MR: Repair or Replacement?
Michael J. Reardon, MD

TMVR: Devices and Trials
Jason H. Rogers, MD

8:30 p.m. Symposium Adjourns
Friday, February 8, 2019

6:30 a.m.  Continental Breakfast & View Exhibits

7:30 a.m.  LIVE CASE

The Tricuspid Valve: Clinical-Pathological Correlations
Douglas C. Shook, MD

When and How To Treat Tricuspid Regurgitation: A Surgical Perspective
Gregory P. Fontana, MD

Advanced Echocardiographic Assessment of Tricuspid Regurgitation for Transcatheter Tricuspid Valve Procedures
G. Burkhard Mackensen, MD, PhD

Transcatheter TV Repair with MitraClip: Technical Procedure and Outcomes
Azeem Latib, MD

9:30 a.m.  Break & View Exhibits

10 a.m.  LIVE CASE

Quantifying Tricuspid Regurgitation: Guidelines and Beyond
Rebecca T. Hahn, MD

Tricuspid Valve-in-Ring with Balloon-Expandable Valves: Case Examples
Elliott M. Groves, MD

Rheumatic Mitral Stenosis in 2019: Imaging Assessment to Guide Patient Selection and Intervention
Michael H. Picard, MD

When Echo Saved the Day
Mary Z. Bechis, MD

Noon  Final Adjournment

Conference Agenda

Conference Location & Hotel Information

Hyatt Regency La Jolla
3777 La Jolla Village Drive
La Jolla, California 92122

Reservations: 888-421-1442
Phone: 858-552-1234

Rates and Reservations

We are fortunate to have obtained special low rates at the hotel starting at $249 per night for a single or double room (plus tax and parking). Discounted overnight self-parking and complimentary guestroom internet access will be available to those participants who book under the Scripps room block.

Make your reservations early! A block of rooms is being held for us at the $249 rate until Thursday, January 29, 2019 or until the block fills, whichever comes first. After this date, reservations will be accepted based on space availability and the special room rate may not be honored. Be sure to request the Scripps Structural Heart Intervention conference when making reservations.

Conference Fees & Registration

Register Online:
www.scripps.org/shicme

Space is limited, so register early!

Included: Course tuition, breakfasts, breaks, lunch, dinners, internet access, and electronic course materials

Not Included: Travel costs, lodging and parking

Main Conference

<table>
<thead>
<tr>
<th>Thru Jan 2</th>
<th>Jan 3 - Feb 1</th>
<th>On-site After Feb 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday Pre-Conference Symposia/Lunch</td>
<td>$50</td>
<td>$75</td>
</tr>
</tbody>
</table>

GENERAL CONFERENCE

<table>
<thead>
<tr>
<th>Thru Jan 2</th>
<th>Jan 3 - Feb 1</th>
<th>On-site After Feb 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physicians</td>
<td>$599</td>
<td>$625</td>
</tr>
<tr>
<td>Residents &amp; Fellows</td>
<td>$399</td>
<td>$425</td>
</tr>
<tr>
<td>RN, NP, PA, Tech, Other</td>
<td>$299</td>
<td>$325</td>
</tr>
<tr>
<td>SCAI/ASE Physician Member</td>
<td>$480</td>
<td>$500</td>
</tr>
<tr>
<td>SCAI/ASE Non-Physician Member</td>
<td>$240</td>
<td>$260</td>
</tr>
</tbody>
</table>

Attendance Policies

Attendee Cancellation, Substitution, Refund

The course tuition is refundable, minus a $100 processing fee, if your cancellation is received in writing no later than Friday, February 1, 2019. Attendee substitutions are allowed, but notification must be made in writing by Friday, February 1, 2019. After this date, under no circumstances will refunds, credits, or substitutions be granted. No refunds or credits will be given to “no shows.”

Guest Attendance Policy

All conference activities, including, meal functions, are exclusively reserved for paid conference attendees. Children and family members are not allowed in the conference areas. Badges provided at registration are required for entrance into all functions and will be strictly enforced.

Scripps Conference Modification or Cancellation

Scripps reserves the right to modify the course’s schedule or program as necessary. Scripps also reserves the right to cancel this conference, in which case a full refund of the registration fee will be provided. We are unable to refund any travel costs (flight, hotel, etc.) in the case of Scripps cancellation.

Recording and Photography Clause

Scripps reserves exclusive rights to record (audio and video) and/or photograph all conference proceedings for use in marketing materials, presentations and course content sales.