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

Sixth Annual
Structural Heart Intervention and Imaging: A Practical Approach

February 8-10, 2017 – San Diego Marriott • La Jolla, California

Visit www.scripps.org/structuralheartintervention 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
- Mobile conference app with access to course materials and recordings from the convenience of your mobile device or computer

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.
- 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.
Faculty

Course Directors

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

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

Michael H. Picard, MD, FACC, FASE
Professor, Harvard Medical School
Director, Clinical Echocardiography
Massachusetts General Hospital
Boston, Massachusetts

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

Jacqueline Saw, MD, FRCP, FACC, FAHA, FSCAI
Interventional Cardiology
Vancouver General Hospital
Clinical Associate Professor
University of British Columbia
Vancouver, British Columbia, Canada

Douglas C. Shook, MD, FASE
Director, Cardiothoracic Anesthesiology Fellowship
Director, Cardiac Interventional Anesthesiology Services
Department of Anesthesiology
Perioperative and Pain Medicine
Brigham and Women’s Hospital
Harvard Medical School
Boston, Massachusetts

Robert J. Siegel, MD, FACC
Director, Cardiac Noninvasive Laboratory
S. Rexford Kennamer MD
Chair in Cardiac Ultrasound
Professor of Medicine
Cedars-Sinai and UCLA
Cedars-Sinai Medical Center
Los Angeles, California

Thomas W.R. Smith, MD, FACC
Director, Cardiac Imaging
Director, Exercise Stress Test and Echocardiography Laboratories
Assistant Professor of Medicine
University of California, Davis Medical Center
Sacramento, California

Paul Sorajja, MD, FACC, FAHA, FSCAI
Director, Center for Valve and Structural Heart Disease
Minneapolis Heart Institute
Abbott Northwestern Hospital
Minneapolis, Minnesota

William J. Stewart, MD, FACC, FASE
Staff Cardiologist, Sydell and Arnold Miller Family Heart and Vascular Institute
Cleveland Clinic
Section of Cardiovascular Imaging
Professor of Medicine
Cleveland Clinic Lerner College of Medicine at Case Western Reserve University
Cleveland, Ohio

Paul S. Teirstein, MD, FACC, FSCAI
Chief of Cardiology
Director, Interventional Cardiology
Scripps Clinic
Director, Scripps Prebys Cardiovascular Institute
Scripps Health
La Jolla, California

Miguel Valderrabano, MD, FACC
Associate Professor of Medicine
Weill College of Medicine at Cornell University
Adjunct Associate Professor of Medicine
Baylor College of Medicine
Director, Division of Cardiac Electrophysiology
Department of Cardiology
Houston Methodist Hospital
Houston, Texas

Faculty Disclosure

In accordance with the ACCME Standards for Commercial Support, course directors, planning committees, faculty and all others 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. If 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 any accredited activity. A complete listing of disclosures associated with this program can be found on the conference website: www.scripps.org/structuralheartintervention and in the mobile conference app: www.groupio.com/SHI17.
**Program**

**Wednesday, February 8**

**HANDS-ON TRANSEPTAL WORKSHOP**
Non-CME Activity Sponsored By Baxilis Medical

8 a.m. – 4 p.m.
**Transseptal Workshop**
Matthew J. Price, MD and Paul Sorajja, 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 valvuloplasty. Upon completion of this activity, the physician should be able to utilize best practices in transseptal puncture to avoid complications. The agenda will include a morning session of didactics, dissection, and simulators, and an afternoon animal lab with hands-on catheter manipulation.

*This workshop is complimentary for the first 18 physician registrants to conference. Transportation from the Marriott to the training facility will be provided. A $250 deposit is required and will be refunded upon attendance at the workshop. No-shows will not be refunded.*

**IMAGING SYMPOSIUM AND HANDS-ON WORKSHOP**
**EMPHASIZING 3D ECHOCARDIOGRAPHY**
Non-CME Activity Supported by GE Healthcare and Philips Healthcare

11 a.m. **Registration and Lunch**

Noon **GE Hands-on Workshop**
David S. Rubenson, MD and Douglas C. Shook, MD

1:30 p.m. **Philips Hands-on Workshop**
David S. Rubenson, MD and Douglas C. Shook, MD

3 p.m. **Coffee Break**

**IMAGING SYMPOSIUM AND HANDS-ON WORKSHOP**
**EMPHASIZING CARDIAC CT**
Non-CME Activity Supported by Circle Cardiovascular Imaging

3:30 p.m. **Hands-on Cardiac CT Workshop**
Philipp Blanke, MD and Stephen Hu, MD

6:30 p.m. **Adjourn**

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-procedure guidance for TAVR, transseptal puncture, LAA and ASD closure, and mitral valve procedures.

*Each session is limited to the first 50 participants.*

Visit [www.scripps.org/structuralheartintervention](http://www.scripps.org/structuralheartintervention) for course updates!

**Wednesday Afternoon Symposium**
4-6 p.m. **Challenging Cases in Structural Heart Intervention**
Moderator: Matthew J. Price, MD

**Wednesday Dinner Symposium**
Non-CME Activity

6:30-8 p.m. **Focus on Mitral Regurgitation Diagnosis and Treatment**
Moderator: Matthew J. Price, MD

**Thursday, February 9, 2017**

6:30 a.m. **Registration, Continental Breakfast & View Exhibits**

7:30 a.m. **LIVE CASE**

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

**TAVR in 2017: A Data Update**
Paul S. Teirstein, MD

**New Methods and Pitfalls in the Quantification of Aortic Stenosis**
William J. Stewart, MD

**The Device Landscape for TAVR: Now and the Future**
James B. Hermiller, MD

9:30 a.m. **Break & View Exhibits**

10 a.m. **LIVE CASE**

**Leaflet Thrombosis after TAVR: Real or Imagined?**
Rajendra R. Makkar, MD

**TAVR’s Next Frontier: The Low-risk Patient**
James B. Hermiller, MD

**TAVR Implantation Challenges: The Good, the Bad and the Ugly**
Curtiss T. Stinis, MD

**Strategies for Program Growth to Meet the Increasing Demands for Transcatheter Structural Heart Procedures**
Sarah E. Clarke, DNP, ACNP-BC

Noon **Lunch with Challenging Cases and Panel Discussion**
1:30 p.m. LIVE CASE
Clinical Anatomic Correlations: The Left Atrial Appendage
Douglas C. Shook, MD
TEE Evaluation for LAA Closure: Anatomic Eligibility and Procedural Guidance
Thomas W.R. Smith, MD
When and How to Use Cardiac CT before and after LAA Closure
Jacqueline Saw, MD
Putting It All Together: LAA Closure, Step-by-step
Miguel Valderrábano, MD

3:30 p.m. Break & View Exhibits
4 p.m. LIVE CASE
Case Vignette: PFO Closure
Jason H. Rogers, MD
Clinical Pathological Correlations: PFO and the Interatrial Septum
Douglas C. Shook, MD
How to Work Up the Patient with Cryptogenic Stroke and the Indications for PFO Closure
John D. Carroll, MD
Transcatheter PFO Closure: Device Selection, Technique and Challenging Scenarios
Jason H. Rogers, MD
Key Aspects of the Imaging Evaluation for PFO Closure: TCD, TTE, TEE, and ICE
John D. Carroll, MD

6 p.m. Adjourn

THURSDAY DINNER SYMPOSIUM
Non-CME Activity Supported by St. Jude Medical, Inc.
FDA Approval of PFO Closure: Data and Perspectives
6:30 p.m. Long-term Follow-up of RESPECT and the Evidence for Clinical Benefit with PFO Closure
John D. Carroll, MD
7 p.m. PFO Closure for Stroke: The Neurologist’s Perspective
David E. Thaler, MD, PhD
7:30 p.m. Discussion
Moderator: Matthew J. Price, MD

Friday, February 10, 2017
6:30 a.m. Continental Breakfast & View Exhibits
7:30 a.m. Clinical Pathological Correlations: The Mitral Valve
Douglas C. Shook, MD
Comprehensive Echo Evaluation of the Mitral Valve: Severity and Classification of MR
Robert J. Siegel, MD
How Echo Findings Should Influence Procedural Strategy for TMV Repair of Primary MR
Thomas W.R. Smith, MD
Complex Transcatheter Mitral Valve Repair: Commissural and Inter-clip Regurgitation
Jason H. Rogers, MD
Valve-in-valve For the Mitral Position: Current Data and How to Do It
Curtiss T. Stinis, MD
Transcatheter Mitral Valve Replacement: Emerging Strategies and Challenges
Paul Sorajja, MD

9:30 a.m. Break & View Exhibits
10 a.m. LIVE CASE
Hypertrophic Cardiomyopathy: New Anatomic Insights and Implications for Therapy
William J. Stewart, MD
TMV Repair for Hypertrophic Cardiomyopathy: Mechanism, Data and Patient Evaluation
Paul Sorajja, MD
Comprehensive Echocardiographic Evaluation of Aortic and Mitral Paravalvular Leaks
Michael H. Picard, MD
Fundamentals of Paravalvular Leak Closure: Transseptal Puncture Location, Sheaths, Anchor, and Rail Techniques
Paul Sorajja, MD

1:30 p.m. LIVE CASE
Case Vignette: Challenging LAA Closure
Jason H. Rogers, MD
Tips and Tricks for Complex LAA Closure: Chicken Wings, Sheaths and More
Miguel Valderrábano, MD
TEE Evaluation after LAA Closure: Leak, Healing and Thrombus
Michael R. Smith, MD
Management of Residual Leaks After Surgical and Transcatheter LAA Closure
Matthew J. Price, MD
Complications of LAA Closure: Incidence, Recognition and Management
Ashish N. Pershad, MD

3:30 p.m. Break & View Exhibits
4 p.m. LIVE CASE
Case Vignette: Transcatheter Repair of the Tricuspid Valve
Sameer Gafoor, MD
Clinical Pathological Correlations: The Tricuspid Valve
Douglas C. Shook, MD
Comprehensive Evaluation of the Tricuspid Valve by Echocardiography
David S. Rubenson, MD
The Mechanistic Basis of a Transcatheter Approach for Tricuspid Regurgitation and How to Do It
Sameer Gafoor, MD
Wrap-up and Panel Discussion
All Faculty

6 p.m. Final Adjournment
**San Diego Marriott La Jolla**

4240 La Jolla Village Drive  
La Jolla, California 92037  
Reservations: 800-228-9290  
Phone: 858-587-1414

**Rates and Reservations**

We are fortunate to have obtained special low rates at the hotel starting at $219 per night for a single or double room (plus tax and parking). Discounted overnight self-parking 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 $219 rate until **Thursday, January 19, 2017**. 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.

**Download the Scripps CME App For Your Smart Phone or Tablet!**

All conference information including a detailed agenda, faculty listing, faculty disclosures, industry support, attendee list, and course materials can be found on the free Scripps CME conference app for smart phones, tablets, and laptop computers. To download the app on your smart phone or other device visit the appropriate app store and search ScrippsCME (must be one word). The app is free of charge and will be continuously updated during and after the course.

To access the site using a web browser: [http://www.grupio.com/SHI17](http://www.grupio.com/SHI17)

**Accreditation and Disclosure**

**Physicians (MD, DO)**

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 21 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Credit Breakdown**

Wednesday Afternoon Symposium: 2  
General Conference (Thurs-Fri): 19

**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**

The American Academy of Physician Assistants accepts Category 1 credit from AMA Category 1 CME organizations accredited by the ACCME.

**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.
CONFEREE FEES

Space is limited, so register early!

Included: Course tuition, breakfasts, breaks, lunches, and electronic course materials

Not Included: Travel costs, lodging, and parking

TRANSSEPTAL WORKSHOP (DEPOSIT REQUIRED)

This workshop is complimentary for the first 18 physician registrants to conference. Transportation from the Marriott to the training facility will be provided. A $250 deposit is required and will be refunded upon attendance at the workshop. No-shows will not be refunded.

Physicians: $250 (Thru Feb 5 or until full)

WEDNESDAY SYMPOSIAR (ADDITIONAL FEE)

The fee covers all Wednesday sessions. Please select which symposia you will be attending.

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<th>Jan 3 - Feb 5</th>
<th>On-site After Feb 5</th>
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Main Conference

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<td>SCAI/ASE Non-Physician Member</td>
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Ways to Register

Online www.scripps.org/structuralheartintervention
Fax 858-652-5565
Mail Scripps Conference Services & CME
Structural Heart Conference
11025 North Torrey Pines Rd.
Suite 200, Mail drop: SCRC 200
La Jolla, California 92037
Phone 858-652-5400

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 February 3, 2017. Attendee substitutions are allowed, but notification must be made in writing by February 3, 2017. After this date, under no circumstances will refunds, credits, or substitutions be granted. No refunds or credits will be given to “no shows.”

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.

Please indicate any special needs (including dietary restrictions).

Special requests will be considered and accommodated in full compliance with the Americans with Disabilities Act (ADA).

By completing this registration form and returning it to Scripps, you are acknowledging compliance with all attendance policies.

Please print clearly and provide your direct contact information in order to receive conference communications or updates.
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Live Satellite Case Transmissions

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

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