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

Course Directors
Matthew J. Price, MD, FACC, FSCAI
Director
Cardiac Catheterization Laboratory
Scripps Clinic/Scripps Green Hospital
Assistant Professor
Scripps Translational Science Institute
La Jolla, California

David S. Rubenson, MD, FACC, FASE
Director
Cardiac Non-Invasive Laboratory
Scripps Clinic/Scripps Green Hospital
La Jolla, California

Live Satellite Case Transmissions

Fifth Annual
Structural Heart Intervention and Imaging: A Practical Approach

February 3-5, 2016 – Hilton La Jolla Torrey Pines • La Jolla, California
**Course Description**

**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 specimens, and pertinent didactic lectures
- Interactive formats, panel discussions, Q&A, and more
- Live satellite case transmissions
- Expanded satellite symposia and hands-on workshops
- Pre-conference seminar designed for cardiology nurses, physician assistants, technologists, administrators, and coordinators
- Mobile conference app with access to course materials and recordings from the convenience of your mobile device or computer

**Educational Objectives**

After attending this activity, participants should be able to:

- Discuss indications for catheter-based techniques, including TAVR, closure of atrial septal defect/patent foramen ovale, left atrial appendage occlusion and ligation, repair of mitral regurgitation, hypertrophic cardiomyopathy ASD, PFO, and paravalvular leaks.
- Describe the basic catheter approach to a range of structural heart disease interventions, including but not limited to PFO closure, ASD closure, TAVR, trans-septal puncture, transcatheter mitral valve repair, and left atrial appendage occlusion and ligation, and their associated imaging guidance.
- Integrate real-time 3D transesophageal echocardiography (TEE) into the pre-procedural evaluation of structural heart intervention and to implement 3D TEE into actual therapeutic intervention of these procedures.
- Apply CT reconstruction of the aortic valve annulus to guide device size selection for TAVR.
- Integrate and apply intracardiac echocardiography (ICE) into the intra- and post-procedural evaluation and treatment of PFO, ASDs, and other lesions.
- Avoid common pitfalls in the application of the newer imaging modalities, including 3D ultrasound.
- Assemble the appropriate multi-disciplinary team, imaging technologies, and catheter equipment to perform structural heart disease interventions.
- Identify complications of catheter-based therapies for structural heart disease using imaging technology and safely manage them with various procedural techniques.
- Apply risk stratification schemes to predict stroke and bleeding in patients with atrial fibrillation.
- Interpret randomized clinical trial data in order to optimize anticoagulation strategies in atrial fibrillation patients.

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

**Credit Breakdown**

- Wednesday Pre-conference: 4
- Main Conference (Thurs-Fri): 19
- Breakfast Symposium (Fri): 1

**Total Credits Available:** 24

**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. At the time of printing, a complete listing of commercial supporters was not available. Appropriate acknowledgement will be given to all supporters at the time of the educational activity.
Faculty
Course Directors

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Director
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Scripps Clinic/Scripps Green Hospital
Assistant Professor
Scripps Translational Science Institute
La Jolla, California
David S. Rubenson, MD, FACC, FASE
Director
Cardiac Non-Invasive Laboratory
Scripps Clinic/Scripps Green Hospital
La Jolla, California

Course Co-Directors

Stephen Hu, MD
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Clinical and Procedural Cardiac CT
Division of Cardiovascular Disease
Scripps Clinic/Scripps Green Hospital
La Jolla, California
Michael R. Smith, MD, FACC, FASE
Director, Non-Invasive Research
Scripps Clinic/Scripps Green Hospital
La Jolla, California
Curtiss T. Stinis, MD, FACC, FSCAI
Director, Peripheral Interventions
Scripps Clinic/Scripps Green Hospital
La Jolla, California

Conference Faculty

Matthew C. Becker, MD, FACC, FSCAI, FSVM
President and Founder
Panvascular Consulting
Erie, Pennsylvania
Philipp Blanke, MD
Department of Radiology and Division of Cardiology
Department of Medicine
St. Paul's Hospital
Vancouver, Canada
John D. Carroll, MD, FACC, FSCAI
Professor of Medicine
Division of Cardiology
University of Colorado Denver
Director, Interventional Cardiology
Medical Director, Cardiac and Vascular Center
University of Colorado Hospital
Aurora, Colorado
Sarah Clarke, MSN, ACNP-BC
Nurse Practitioner, Interventional Cardiology
Scripps Clinic/Scripps Green Hospital
La Jolla, California
Lynn A. De Guzman
Senior Director, Clinical Services
Scripps Memorial Hospital La Jolla
La Jolla, California
Kimberly A. Guibone, ACNP
Cardiology - Structural Heart Program
Lead Nurse Practitioner
Beth Israel Deaconess Medical Center
Boston, Massachusetts

Rebecca L.T. Hahn, MD, FASE, FACC
Director of Invasive and Valvular Echocardiography
Associate Professor of Clinical Medicine
Columbia College of Physicians and Surgeons
New York-Presbyterian Hospital
New York, New York
Marian C. Hawkey, RN
Director
Clinical Research, Valve Program
Columbia University Medical Center / New York-Presbyterian Hospital
New York, New York
J. Thomas Heywood, MD, FACC
Director
Heart Failure Recovery and Research Program
Scripps Clinic/Scripps Green Hospital
La Jolla, California
Amanda M. Kirby, ACNP
Valve Program Nurse Practitioner
Aurora Health Care
St. Luke's Medical Center
Milwaukee, Wisconsin
Susheel K. Kodali, MD, FACC
Director, Heart Valve Program
Director, Interventional Cardiology
Fellowship Program
Scripps Clinic/Scripps Green Hospital
La Jolla, California

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. Employees of a commercial interest with business lines or products relating to the content of the CME activity will not participate in the planning or any accredited portion of the conference. Disclosure will be made to all participants at the conference location, prior to the educational activity commencement.

Michael H. Picard, MD, FACC, FASE
Professor, Harvard Medical School
Director, Clinical Echocardiography
Massachusetts General Hospital
Boston, Massachusetts
Mark Reisman, MD, FACC
Clinical Professor of Medicine
Section Head, Interventional Cardiology
Director, Cardiovascular Emergent Therapies
University of Washington Medical Center
Seattle, Washington
Jason H. Rogers, MD, FACC, FSCAI
Professor, Cardiovascular Medicine
Director, Interventional Cardiology
University of California, Davis Medical Center
Sacramento, California
Douglas C. Shook, MD, FASE
Director
Cardiothoracic Anesthesiology Fellowship
Department of Anesthesiology
Perioperative and Pain Medicine
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
Los Angeles, California
Thomas W.R. Smith, MD, FACC
Assistant Professor of Medicine
Director, Cardiac Imaging
Director, Exercise Stress Test and Echocardiography Laboratories
University of California, Davis Medical Center
Sacramento, California
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Abbott Northwestern Hospital
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Transcatheter Heart Valve Nurse Practitioner
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Stanford, California
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Staff Cardiologist
S. Rexford Kennamer, MD Chair in Cardiac Ultrasound
Professor of Medicine
University of California, Davis Medical Center
Sacramento, California

Brian K. Whisenant, MD, FACC, FSCAI
Medical Director
Sacramento Heart Group
Intermountain Healthcare
Murray, Utah

Faculty
HANDS-ON TRANSESSEPTAL WORKSHOP  
Non-CME Activity Supported by Baylis Medical  
8:30 a.m. First Bus Departs for Training Facility  
9 a.m. – 2 p.m.  
Transseptal Workshop  
(Four time slots to be offered throughout the day) 
Matthew J. Price, MD; Jason H. Rogers, MD; 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 basic anatomy, ICE/TEE views, device training, and an animal lab with hands-on catheter manipulation. 

This workshop is complimentary for the first 32 physician registrants to conference. A $250 deposit is required and will be refunded upon attendance at the workshop. No-shows will not be refunded. Transportation from the Hilton Torrey Pines to the training facility will be provided.

PRE-CONFERENCE SEMINAR  
(Additional Fee)  
Developing a Structural Heart Program for Your Practice  
Course Director: Sarah Clarke, MSN, ACNP-BC  
This session is designed for nurses, physician assistants, technologists, administrators, sonographers, coordinators, and physicians interested in developing a structural heart disease program. Expert faculty will discuss their experience with patient selection, screening, treatment, and optimal reimbursement as well as new therapies in development. Lectures, case studies and Q&A segments will provide participants with the tools needed to successfully implement a structural heart disease program in their practice.

7:30 a.m. Registration & Breakfast for Pre-conference Seminar  
8 a.m. Welcome and Educational Overview  
Sarah Clarke, MSN, ACNP-BC  
8:10 a.m. Starting a Structural Heart Program: Essential Tips  
Martina Speight, MS, NP  
8:30 a.m. Balancing Expectations with Evidence-based Care: Best Practice Initiatives  
Elizabeth M. Perpetua, DNP, ARNP, CCRN  
8:50 a.m. Achieving the Triple Aim: Balancing Cost, Patient Satisfaction and Outcomes  
Debra McQuillen, MAS, RN  
9:10 a.m. Q&A/Discussion  
9:20 a.m. Break  
9:30 a.m. Patient Selection: Case Presentation and Discussion  
Amanda M. Kirby, ACNP  
9:50 a.m. Coordinating Care across the Continuum  
Kimberly A. Guibone, ACNP  
10:05 a.m. The Frailty Factor: Are All Elderly Created Equal?  
Marian C. Hawkey, MD  
10:20 a.m. Imaging Challenges in Structural Heart  
Susheel K. Kodali, MD  
10:40 a.m. Complex Case Studies: Everything but the Kitchen Sink  
Patricia A. Keegan, NP  
11 a.m. Q&A/Discussion  
11:10 a.m. Break  
11:20 a.m. Implementing Minimally Invasive Strategies: Impact on Cost, Satisfaction and Outcomes  
Sandra Lauck, PhD, RN  
11:35 a.m. Structural Heart Program Growth: Resources and Outcomes  
Lynn A. De Guzman  
11:50 a.m. Healthcare Economics and Strategic Decision Making: A Provider’s Perspective  
Matthew C. Becker, MD  
12:05 p.m. New Transcatheter Therapies: What Is Next On The Horizon?  
Susheel K. Kodali, MD  
12:20 p.m. A Square Peg in A Square Hole: Roundtable Discussion of VCC Competencies  
All Faculty  
12:50 p.m. Closing Remarks and Final Adjournment  

IMAGING SYMPOSIUM AND HANDS-ON WORKSHOP  
EMPHASIZING 3D ECHOCARDIOGRAPHY AND CARDIAC CT  
Non-CME Activity Supported by Philips Healthcare, Edwards Lifesciences and 3Mensio  
4:30 p.m. Registration for Imaging Symposium  
5-6:30 p.m. Hands-on 3D Echocardiography Workshop  
Rebecca T. Hahn, MD and Douglas C. Shook, MD  
6:30 p.m. Dinner  
7-8:30 p.m. Hands-on Cardiac CT Workshop  
Philipp Blanke, MD and Stephen Hu, MD  

This hands-on workshop is 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. 

This session is limited to the first 50 participants and dinner will be provided.

WEDNESDAY DINNER SYMPOSIUM  
CHALLENGING CASES IN STRUCTURAL HEART INTERVENTION  
Non-CME Activity Supported by St. Jude Medical, Inc.  
6-8 p.m. Case Reviews of Structural Heart Interventions: Challenging Anatomy and Clinical Scenarios  
Session Chair: Matthew J. Price, MD
### Thursday, February 4, 2016

<table>
<thead>
<tr>
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<td>7:30 a.m.</td>
<td>LIVE CASE FROM ROYAL SUSSEX HOSPITAL, BRIGHTON, ENGLAND&lt;br&gt;Under the direction of Dr. David Hildick-Smith</td>
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<td>Current Landscape of TAVR in the United States&lt;br&gt;Paul S. Teirstein, MD</td>
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<td>Associated Structural Issues in TAVR Therapy: Implications of Preoperative MR, TR, Pulmonary Hypertension, and Post Procedure AI&lt;br&gt;Michael H. Picard, MD</td>
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<td>The TAVR Work-up: Building and Implementing a TAVR Screening Program&lt;br&gt;Sarah Clarke, MSN, ACNP-BC</td>
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<td>LIVE CASE&lt;br&gt;Clinical-Pathological Correlations: The Mitral Valve&lt;br&gt;Douglas C. Shook, MD</td>
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<td>CT/MRI Assessment of Valvular Disease Severity and Indications for Surgery&lt;br&gt;Stephen Hu, MD</td>
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### Thursday Dinner Symposium

**LEFT ATRIAL APPENDAGE CLOSURE FOR PREVENTING STROKE IN ATRIAL FIBRILLATION: WHO, WHEN AND HOW?**
Non-CME Activity Supported by Boston Scientific Corporation

- **7 p.m.** Update on Warfarin and the NOACs: Clinical Trials and Real-world Data<br>David P. Lee, MD
- **7:20 p.m.** LAA Closure for Stroke Prevention: Rationale and Identifying the Patient Who Might Benefit<br>Brian K. Whisenant, MD
- **7:40 p.m.** Decision Making for LAA Closure: Real-world Case Examples<br>Matthew J. Price, MD

| 8 p.m. | Discussion<br>Moderator: Matthew J. Price, MD |

### Friday, February 5, 2016

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Hotel Information

Hilton La Jolla Torrey Pines

10950 North Torrey Pines Road
La Jolla, California 92037
Reservations: 800-762-6160
Phone: 858-558-1500
www.hiltonlajollahotel.com

Rates and Reservations
We are fortunate to have obtained special low rates at the hotel starting at $214 per night for a single or double room (plus tax). Complimentary Internet in guestrooms, complimentary access to the fitness center and complimentary overnight self-parking will be provided to all guests booked at the group rate.

Make your reservations early! A block of rooms is being held for us at the $214 rate until Monday, January 12, 2016. 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/SHD16

Friday, February 5 (cont.)

10 a.m. LIVE CASE
LAA Morphology and Its Implication for Thromboembolism and Device Closure
Mark Reisman, MD

Successful Transseptal Puncture: Safe and To the Right Spot
Jason H. Rogers, MD

Putting It All Together: Warfarin, NOAC or LAA Closure?
Brian K. Whisenant, MD

LAA Closure for Stroke Prevention: Novel and Next Generation Devices
Matthew J. Price, MD

Noon Lunch with Challenging Cases and Panel Discussion

1:30 p.m. LIVE CASE
Clinical-Pathological Correlations:
The Interventricular Septum
Douglas C. Shook, MD

Can We Identify the Patient Who Will Benefit From PFO Closure?
John D. Carroll, MD

Imaging the Interventricular Septum with Intracardiac Echocardiography
Matthew J. Price, MD

High-risk ASD Closure: Heart Failure, Pulmonary Hypertension and Large Holes
John D. Carroll, MD

3:30 p.m. Break & View Exhibits

4 p.m. LIVE CASE
Fusion Imaging and 3D Printing To Guide Structural Intervention
John D. Carroll, MD

Role of Implantable Hemodynamic Monitors For Congestive Heart Failure
J. Thomas Heywood, MD

When TAVR Goes Bad: Dealing with Complications
Curtiss T. Stinis, MD

Tough Calls: Case Studies of Structural Heart Intervention and Imaging
Moderator: David S. Rubenson, MD

6 p.m. Final Adjournment

Target Audience
- Interventional Cardiologists
- Invasive Cardiologists
- Echocardiographers
- Interventional Radiologists
- Cardiovascular Surgeons
- Cardiac Anesthesiologists
- Cardiology Nurses and Physician Assistants
- Cardiovascular Sonographers
- Cardiac Catheterization Technicians
CONFEREE FEES
Space is limited, so register early!
Included: Course tuition, breakfasts, breaks, lunches, imaging symposium, dinner symposium, and electronic course materials via the mobile conference app
Not Included: Travel costs, lodging, and parking

Main Conference

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<th>Thru Dec 14</th>
<th>Dec 15 - Jan 29</th>
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<tr>
<td>Physicians</td>
<td>$599</td>
<td>$625</td>
<td>$650</td>
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<td>Residents &amp; Fellows</td>
<td>$349</td>
<td>$375</td>
<td>$400</td>
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<tr>
<td>Nurses, PAs, Technicians &amp; Others</td>
<td>$249</td>
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<tr>
<td>SCAI/ASE Physician Member</td>
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<tr>
<td>SCAI/ASE Non-Physician Member</td>
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SATELLITE SYMPOSIAS (You must pre-register for these sessions as space is limited)

___ Yes, I will attend the Wednesday Imaging Symposium and Dinner
___ Yes, I will attend the Wednesday Dinner Symposium
___ Yes, I will attend the Thursday Dinner Symposium

PRE-CONFERENCE SYMPOSIUM (ADDITIONAL FEE)

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<td>Registration</td>
<td>$150</td>
<td>$175</td>
<td>$200</td>
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TRANSSEPTAL WORKSHOP (DEPOSIT REQUIRED)
This workshop is complimentary for the first 32 physician registrants to conference. A $250 deposit is required and will be refunded upon attendance at the workshop. No-shows will not be refunded.

Physicians ___ $250 (Thru Jan 30 or until full)

WAYS TO REGISTER
Online  www.scripps.org/structuralheartintervention
Fax     858-652-5565
Mail    Scripps Conference Services & CME
        Structural Heart Intervention
        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 Friday, January 22, 2016. Attendee substitutions are allowed, but notification must be made in writing by January 22, 2016. After this date, under no circumstances will refunds, credits, or substitutions be granted. No refunds or credits will be given to “no shows.”

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PLEASE INDICATE ANY SPECIAL NEEDS (INCLUDING DIETARY RESTRICTIONS):
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