Structural Heart Intervention and Imaging 2014: A Practical Approach

February 6-7, 2014 – Hilton La Jolla Torrey Pines, La Jolla, California
Transcatheter structural heart disease intervention is a rapidly growing part of clinical care in adult cardiology and requires 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 interventionalists, among others.

Scripps Clinic’s Structural Heart Intervention and Imaging conference is designed to provide a practical, cutting-edge, case-based assessment of the emerging area of structural heart disease intervention and interventional cardiovascular imaging. The expert faculty will include interventionalists, invasive cardiologists, and echocardiographers. Faculty will discuss 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.

After attending this activity, participants should be able to:

- Discuss indications for catheter-based techniques, including TAVR, closure of atrial septal defect/PFO, left atrial appendage occlusion and ligation, mitral regurgitation, hypertrophic cardiomyopathy, 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-procedure evaluation of structural heart intervention and implement 3D TEE into actual therapeutic intervention of these procedures.

- Integrate and apply intracardiac echocardiography (ICE) into the intra- and post-procedure 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.

**Course Overview**

Transcatheter structural heart disease intervention is a rapidly growing part of clinical care in adult cardiology and requires 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 interventionalists, among others.

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**Conference Highlights**

- Multi-disciplinary 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 from La Jolla, California, Melbourne, Australia, and Vancouver, British Columbia

- Mobile conference app with access to course materials and recordings from the convenience of your mobile device or computer

**Target Audience**

Interventional Cardiologists  
Echocardiographers  
Cardiology Nurse Practitioners  
Physician Assistants  
Invasive Cardiologists  
Cardiac Anesthesiologists  
Cardiovascular Sonographers  
Cardiac Catheterization Technicians
# Faculty

## 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  

**Course Co-Director**  
**Curtiss T. Stinis, MD, FACC, FSCAI**  
Director, Peripheral Interventions  
Scripps Clinic/Scripps Green Hospital  
La Jolla, California  

## Conference Faculty (continued)

**Carlos E. Ruiz, MD, PhD, FACC, FSCAI**  
Director, Structural and Congenital  
Heart Disease Program  
Department of Interventional Cardiology  
Lenox Hill Hospital  
New York, New York  

**Jacqueline W. Saw, MD**  
Clinical Associate Professor  
University of British Columbia  
Interventional Cardiologist  
Vancouver General Hospital  
Vancouver, British Columbia, Canada  

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

## Conference Faculty

**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  
Aurora, Colorado  

**George Gellert, MD**  
Medical Director, Interventional Echocardiography  
Structural Heart Program  
Cavanaugh Heart Center  
Banner Good Samaritan Medical Center  
Phoenix, Arizona  

**Stephen Hu, MD**  
Division of Cardiovascular Disease  
Scripps Clinic  
La Jolla, California  

**Ian T. Meredith, MBBS, PhD, FACC, FSCAI**  
Professor and Director, Monash Heart  
Monash Medical Centre and  
Southern Health Melbourne  
Professor of Medicine, Monash University  
Monash Medical Centre Clayton  
Melbourne, Australia  

**Michael H. Picard, MD, FACC, FASE**  
Professor, Harvard Medical School  
Director, Clinical Echocardiography  
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**Jeffrey J. Popma, MD, FACC, FSCAI**  
Director  
Interventional Cardiology Clinical Services  
Beth Israel Deaconess Medical Center  
Professor of Medicine  
Harvard Medical School  
Boston, Massachusetts  

**Mark Reisman, MD, FACC**  
Chief Scientific Officer  
Swedish Medical Center  
Seattle, Washington  

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

**Carlos E. Ruiz, MD, PhD, FACC, FSCAI**  
Director, Structural and Congenital  
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Department of Interventional Cardiology  
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Department of Anesthesiology  
Perioperative and Pain Medicine  
Brigham and Women's Hospital  
Harvard Medical School  
Boston, Massachusetts  

**Michael R. Smith, MD, FACC, FASE**  
Director, Non-Invasive Research  
Assistant Director, Heart Failure Research and  
Recovery Program  
Scripps Clinic  
La Jolla, California  

**William 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/Scripps Green Hospital  
La Jolla, California  

**David E. Thaler, MD, PhD, FAHA**  
Director, The Comprehensive Stroke Center  
Tufts Medical Center  
Boston, Massachusetts  

**Miguel Valderrábano, MD, FACC**  
Chief, Division of Cardiac Electrophysiology  
Methodist DeBakey Heart & Vascular Center at  
The Methodist Hospital  
Associate Professor of Medicine  
Weill Cornell Medical College  
Methodist DeBakey Cardiology Associates  
Houston, Texas  

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**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.
Program

**Wednesday, February 5, 2014**

5:30 p.m.  Pre-registration

**WEDNESDAY DINNER SYMPOSIUM AND WORKSHOP**

3D Echo Workshop with Hand-on Training: Enhancing Your Skill Set for Structural Intervention
Non-CME Symposium Supported By Edwards Lifesciences and Philips Healthcare

6 p.m.  Image Acquisition
  William Stewart, MD

6:20 p.m.  Using Q Lab to Manipulate Data Sets
  Douglas C. Shook, MD

6:40 p.m.  Measurement Technique and Pitfalls in TAVR Sizing
  George Gellert, MD

7 p.m.  Hands-on Training

9 p.m.  Adjourn

Please note that attendance to this workshop is limited to the first 40 participants who register.

**Thursday, February 6, 2014**

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

7:30 a.m.  LIVE CASE FROM SCRIPPS CLINIC
  Aortic Valve Disease: Clinical-Pathological Correlate for the Imager and Structural Interventionist
  Douglas C. Shook, MD

  TAVR with Balloon Expandable Valve: Choosing Access Site and Key Points for Optimal Deployment
  Paul S. Teirstein, MD

  TAVR with Self-expanding Valve: Choosing Access Site and Key Points for Optimal Deployment
  Jeffrey J. Popma, MD

  Best Practices for Annular Size Assessment for TAVR: CT and Echo
  Stephen Hu, MD

9:30 a.m.  Break & View Exhibits

10 a.m.  LIVE CASE FROM SCRIPPS CLINIC
  Mitral Valve Disease: Clinical-Pathological Correlates for the Imager and Structural Interventionist
  Douglas C. Shook, MD

  Surgical or Transcatheter Repair for MR: Clinical and Echocardiographic Evaluation to Determine Management Strategy
  William Stewart, MD

  Transcatheter Repair of the Mitral Valve: Step-by-Step
  Jason H. Rogers, MD

Noon  Lunch with Challenging Cases and Panel Discussion

1:30 p.m.  LIVE CASE FROM MONASH MEDICAL CENTRE, MELBOURNE, AUSTRALIA (Under the direction of Dr. Ian T. Meredith)
  TAVR: Current State of the Data
  Curtiss T. Stinis, MD

  Overcoming Diagnostic Challenges in Aortic Stenosis Evaluation for TAVR
  David S. Rubenson, MD

  Managing Vascular Access for TAVR: Preventing and Handling Complications
  Curtiss T. Stinis, MD

  Evaluation of Aortic Regurgitation Immediately Post-TAVR
  Michael H. Picard, MD

3:30 p.m.  Break & View Exhibits

4 p.m.  LIVE CASE FROM SCRIPPS CLINIC
  Treatment Choices for Aortic Regurgitation Post Procedure: Post Dilate or another Valve?
  Curtiss T. Stinis, MD

  Next Generation TAVR Devices
  Mark Reisman, MD

  When TAVR Is Futile: The Complexity of Case Selection
  Jeffrey J. Popma, MD

  Outcomes after Commercial TAVR in the US According To the TVT Registry: How Are We Doing?
  John D. Carroll, MD

6 p.m.  Adjourn
THURSDAY DINNER SYMPOSIUM

Building an Interventional Program for Stroke Prevention in Atrial Fibrillation
Non-CME Activity Supported By
Boston Scientific Corporation

7 p.m.  Tools of the Trade for LAA Occlusion: What the Interventionalist Needs To Know and How to Master Them
Miguel Valderrábano, MD

7:30 p.m.  Forming a Successful Multidisciplinary Team: Perspectives from the Imager
Michael R. Smith, MD

8 p.m.  Who Needs LAA Occlusion? Strategies to Identify Potential Patients
Matthew J. Price, MD

9:30 a.m.  Break & View Exhibits

10 a.m.  LIVE CASE FROM SCRIPPS CLINIC

Dry Pericardial Access and LAA Ligation: Step-by-Step
Miguel Valderrábano, MD

LAA Closure with the ACP Device: Current Status
John D. Carroll, MD

Intervention and Imaging of Mitral Paravalvular Leaks: Anterograde, Retrograde and Transapical Approaches
Carlos E. Ruiz, MD

How to Perform Trans-septal Puncture Safely
Matthew J. Price, MD

Noon  Lunch with Challenging Cases and Panel Discussion

1:30 p.m.  LIVE CASE FROM SCRIPPS CLINIC

The Inter-atrial Septum: Clinical-Pathological Correlates for the Imager and Structural Interventionalist
Douglas C. Shook, MD

Case Selection for Transcatheter ASD Closure: When to Say Yes, When to Call the Surgeon, and When to Let It Be
Jason H. Rogers, MD

Retrieving Embolized Devices: Tricks of the Trade
Carlos E. Ruiz, MD

3:30 p.m.  Break & View Exhibits

4 p.m.  LIVE CASE FROM SCRIPPS CLINIC

How to Identify the Patient with “PFO Stroke”
David E. Thaler, MD, PhD

3D Prototyping for Structural Heart Intervention: The Future Is Now
John D. Carroll, MD

My TAVR Just Embolized: Now What?
Curtiss T. Stinis, MD

When Imaging Saved the Day: Case Examples in Structural Heart Intervention
Moderators: Drs. Price and Rubenson
Discussants: Conference Faculty

6 p.m.  Final Adjournment
Conference Location & Hotel Information

**Hilton La Jolla Torrey Pines**

10950 N. Torrey Pines Road  
La Jolla, California 92037  
Reservations: 800-762-6160  
Tel: 858-558-1500

We are fortunate to have obtained special low rates at the hotel starting at $209 per night for a single or double room (plus tax and parking). Complimentary Internet in guestrooms, complimentary access to the fitness center and discounted 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 $209 rate until Wednesday, January 15, 2014. 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.

Accreditation and Disclosure

**Physician (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 19 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Nurses**

The California State Board of Registered Nursing (BRN) accepts AMA PRA Category 1 Credit(s)™ as meeting continuing education requirements for license renewal. Most state Boards of Registered Nursing accept AMA PRA Category 1 Credit(s)™ as meeting continuing education requirements for license renewal. Nurses should check with their state board 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.

**Cultural and linguistic competency**

This activity is in compliance with California Assembly Bill 1195 which requires that all CME activities comprising a patient care element include curriculum addressing the topic of cultural and linguistic competency. The intent of this bill is to ensure that health care professionals are able to meet the cultural and linguistic concerns of a diverse patient population through effective and appropriate professional development. Cultural and linguistic competency was incorporated into the planning of this activity.
CONFERENCE FEES
Space is limited, so register early!

Included: Course tuition, breakfasts, breaks, lunches, pre-conference workshop, dinner symposium, and electronic course materials

Not Included: Travel costs, lodging, parking, and dinners

Main Conference

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Workshop/Dinner Symposium (You must pre-register for these sessions as space is limited)

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

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

Please print clearly. Your badge will read as follows:

FIRST, MI, LAST NAME DEGREE (MD, DO, PHD, RN, ETC)

AFFILIATION/HOSPITAL/COMPANY SPECIALTY

MAILING ADDRESS

CITY/STATE/ZIP

PHONE FAX

EMAIL (REQUIRED FOR REGISTRATION CONFIRMATION)

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).

Office Use Only: Date Received Amount Check No. / Approval CD Confirmation Sent Initials

PAYMENT METHOD

☐ Check Please make checks payable to Scripps (in U.S. dollars only).
☐ Visa ☐ MasterCard ☐ Amex ☐ Discover

If paying by credit card, please complete the information below.

CREEDT CARD NUMBER EXPIRATION DATE SECURITY CODE ON CARD (required)

NAME ON CARD

BILLING ADDRESS IF DIFFERENT FROM ABOVE

AUTHORIZED SIGNATURE

Conference Registration - February 6-7, 2014 - Hilton La Jolla Torrey Pines, La Jolla, California

Three Easy 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

Questions

Contact  Scripps Conference Services & CME
Phone  858-652-5400
Email  med.edu@scrippshealth.org

Attendance Policies

Registration Confirmation
A confirmation letter will be e-mailed to you upon receipt of the conference registration form and payment. If you have not received it within two weeks, please contact the Scripps Conference Services & CME office.

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 31, 2014. Attendee substitutions are allowed, but notification must be made in writing by January 31. 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 educational sessions, meal functions, exhibit hall, etc.) are exclusively reserved for conference attendees. Non-registered guests (including children, family members, colleagues, etc.) 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.
Live Satellite Case Transmissions from California, Australia and Canada

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LAA Closure, TAVR, ASD/PFO, Mitral Repair, and More

Featuring live case demonstrations, hands-on workshops and satellite symposia!

Scripps Conference Services & CME
11025 N. Torrey Pines Road
Suite 200, Maildrop: SCRC 200
La Jolla, California 92037