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

Fourth Annual
Structural Heart Intervention and Imaging 2015: A Practical Approach

February 4-6, 2015 – Marriott Del Mar, San Diego, California
Course Description

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.

Scripps’ 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.

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 cardiologists, 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, 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.
- Apply CT reconstruction of the aortic valve annulus and LAA to guide device size selection for TAVR and LAA assessment before occlusion devices.
- 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 TEE ultrasound.
- 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 using imaging technology and safely manage them with various procedural techniques.
- Incorporate 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.

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 (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
Provider approved by the California Board of Registered Nursing, Provider Number CEP15199, for up to 26.1 contact hours. Contact hours will be provided by Scripps Center for Learning & Innovation.

Credit breakdown by day:
Wednesday 3.2 contact hours (Structural Heart Coordinator Symposium)
Thursday 11.4 contact hours
Friday 11.4 contact hours

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.
Hotel Information

San Diego Marriott Del Mar
11966 El Camino Real
San Diego, CA, 92130
Reservations: 800-228-9290
Phone: 858-523-1700

Rates and Reservations
We are fortunate to have obtained special low rates at the hotel starting at $149 per night for a single or double room (plus tax and parking). Complimentary Internet in guestrooms, complimentary access to the fitness center and discounted 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 $149 rate until Monday, January 5, 2015. 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.

Faculty

Mark Reisman, MD, FACC
Clinical Professor of Medicine
Section Head, Interventional Cardiology
Director, Cardiovascular Emerging Therapies
University of Washington Medical Center
Seattle, Washington

Greta Robb, BSN, RN, CCRC
Structural Heart Disease Program Coordinator
OhioHealth
Columbus, Ohio

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

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, FASE
Director, Cardiac Noninvasive Laboratory
Chair in Cardiac Ultrasound
Professor of Medicine
Cedars-Sinai Medical Center
Los Angeles, California

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

Martina Speight, MS, NP
Transcatheter Heart Valve Nurse Practitioner
Stanford University Medical Center
Stanford, California

Jennifer B. Turano, MD, FACC
Director, Adult Cardiac Valvular Disease Section
Director, Interventional Cardiology
University of California, San Diego
La Jolla, California

Hotel Directors

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David S. Rubenson, MD, FACC, FASE
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Course Co-Directors

Stephen Hu, MD
Director, Clinical and Procedural Cardiac CT
Division of Cardiovascular Disease
Scripps Clinic/Scripps Green Hospital
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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

David B. Adams, RSC, RDCS, FASE
Cardiac Sonographer
Duke University Medical Center
Durham, North Carolina

John D. Carroll, MD, FACC, FSCAI
Professor of Medicine, Division of Cardiology
University of Colorado, Denver
Director, Interventional Cardiology
School of Medicine
University of Colorado Hospital
Aurora, Colorado

Anson W. Cheung, MD, FRCSC
Director, Cardiac Transplantation of British Columbia
Clinical Professor of Surgery
University of British Columbia
Vancouver, British Columbia, Canada

Sarah Clarke, MSN, ACNP-BC
Nurse Practitioner, Interventional Cardiology
Scripps Clinic/Scripps Green Hospital
La Jolla, California

Douglas N. Gibson, MD, FHRS
Director, Cardiac Electrophysiology Laboratory
The Heart Rhythm Center at Torrey Pines
Scripps Clinic/Scripps Green Hospital
La Jolla, California

Marvin C. Hawkey, RN
Director, Clinical Research, Valve Program
New York-Presbyterian Hospital/Columbia University Medical Center
New York, New York

James R. Hemp, MD, FACS
Cardiac, Thoracic and Vascular Surgery
Scripps Clinic/Scripps Green Hospital
La Jolla, California

J. Thomas Heywood, MD, FACC
Director, Heart Failure Recovery and Research Program
Scripps Clinic/Scripps Green Hospital
La Jolla, California

Asma Hussaini, MS, PA-C
Senior Physician Assistant
Cedars-Sinai Medical Center
Heart Institute
Los Angeles, California

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

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 iPhone, iPad, Android, and BlackBerry. To download the app on your smartphone 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/ScrippsCME
**HANDS-ON TRANSSEPTAL WORKSHOP**  
Non-CME Activity Sponsored By Baylis Medical

**9:30 a.m.** First Bus Departs for Training Facility

**10 a.m. – 3 p.m.**  
**Transseptal Workshop**  
Please note this workshop is now full.

Matthew J. Price MD and Jason H. Rogers, 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 valveoplasty. 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 12 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 Del Mar Marriott to the training facility will be provided.

**PRE-CONFERENCE SEMINAR** *(Additional Fee)*

**Structural Heart Coordinator Symposium**

Course Director:  
Sarah Clarke, MSN, ACNP-BC

This session is designed for nurses, physician assistants, technologists, administrators, and coordinators interested in learning about the latest advances in the management of structural heart disease from patient throughput to screening, treatment, and optimal reimbursement.

**Noon**  
Registration for Pre-conference Seminar

**12:50 p.m.**  
Welcome & Educational Overview  
Sarah Clarke, MSN, ACNP-BC

**1 p.m.**  
Minimizing Door – Treatment Times: Improving Efficiency and Throughput  
Greta Robb, BSN, RN, CCRC

**1:20 p.m.**  
Imaging Strategies: Application of CT and Echo Information for Periprocedural Decision Making  
Martina Speight, MS, NP

**1:40 p.m.**  
Debating the Role of the Heart Team in Evaluating Structural Heart Patients  
Marian C. Hawkey, RN

**2 p.m.**  
Q&A

**2:15 p.m.**  
Break

**2:30 p.m.**  
Hemodynamic Support: Patient Selection and Treatment Goals  
Asma Hussaini, MS, PA-C

**2:50 p.m.**  
Optimal Reimbursement through Physician Partnership, Documentation, and Coding  
Lisa K. Walsh, RN

**3:10 p.m.**  
Utilizing Data to Improve Patient Care: Where are we with the TVT Registry?  
Joseph A. Walsh, MD, MS

**3:30 p.m.**  
Structural Heart Perspectives: Creating Infrastructure to Ensure Quality Patient Care  
Sarah Clarke, MSN, ACNP-BC

**3:50 p.m.**  
Q&A

**4 p.m.**  
Adjourn & Networking Reception

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

**5 p.m.**  
Registration for Imaging Symposium and Dinner

**6-8 p.m.**  
Hands-on Imaging Workshop  
David B. Adams, RCS, RDCS  
and Douglas C. Shook, 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 workstations. 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.

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**WEDNESDAY DINNER SYMPOSIUM**

**Structural Heart Tips and Tricks**  
Non-CME Activity Supported by St. Jude Medical, Inc.

**6 p.m.**  
Tips and Tricks for Closure of Complex Defects of the Intratral Septum  
Matthew J. Price, MD

**6:25 p.m.**  
Tips and Tricks for Using Vascular Plugs  
Paul Soraja, MD

**6:50 p.m.**  
Tips and Tricks for Treating Heart Failure: When to Use an Implantable Pressure Monitor  
J. Thomas Heywood, MD

**7:15 p.m.**  
Tips and Tricks for the Management of Aortic Stenosis  
Anson W. Cheung, MD

**7:40 p.m.**  
Discussion and Closing Remarks  
Moderator: Matthew J. Price, MD
Thursday, February 5, 2015

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

7:30 a.m. LIVE CASE FROM SCRIPPS CLINIC
The Current Landscape of TAVR: Which Patient and Which Device?
Paul S. Teirstein, MD

Assessment of the Peripheral Vasculature Prior to TAVR
Curtiss T. Stinis, MD

CT Assessment of the Aortic Anulus Pre-TAVR: Pearls and Pitfalls
Stephen Hu, MD

Aortic Insufficiency Post-TAVR: Diagnosis, Mechanisms and Management
Curtiss T. Stinis, MD

9:30 a.m. Break & View Exhibits

10 a.m. LIVE CASE FROM SCRIPPS CLINIC
Anatomy of the Aortic Valve and TAVR: Case Studies from Human Cadavers
Mark Reisman, MD

Diagnostic Dilemmas: Low Gradient Normal EF and Low Gradient Low Output AS
David S. Rubenson, MD

Echocardiographic Evaluation and Guidance for TAVR
Robert J. Siegel, MD

Noon Lunch with Challenging Cases and Panel Discussion

1:30 p.m. LIVE CASE FROM MONASH MEDICAL CENTRE MELBOURNE, AUSTRALIA
Mitral Valve: Clinical-Anatomic-Pathological Correlates
Douglas C. Shook, MD

How to Analyze the Mitral Valve for Surgical and Percutaneous Repair
William J. Stewart, MD

Transcatheter Mitral Valve Repair for Degenerative MR: Procedural Technique and Imaging Guidance
Paul Sorajja, MD

3:30 p.m. Break & View Exhibits

Friday, February 6, 2015

4 p.m. LIVE CASE FROM SCRIPPS CLINIC
Functional Mitral Regurgitation: Diagnosis and Treatment Conundrums
Michael H. Picard, MD

Evaluation and Management of Hypertrophic Cardiomyopathy with Transcatheter Therapy
Paul Sorajja, MD

Getting To the Left Atrium Safely: Keys to Transseptal Puncture
Matthew J. Price, MD

6 p.m. Adjourn

THURSDAY DINNER SYMPOSIUM
Focus on the Left Atrial Appendage

7 p.m. Introduction: Current Status of LAA Closure for Stroke Prevention in the U.S.
Matthew J. Price, MD

7:10 p.m. How to Build and Manage an LAA Closure Program
Assma Hussaini, MS, PA-C

7:25 p.m. How to Ligate the LAA Percutaneously
Douglas N. Gibson, MD

7:40 p.m. How to Close the LAA with an Occlusion Device
Matthew J. Price, MD

7:55 p.m. Discussion and Closing Remarks
Moderator: Matthew J. Price, MD

Friday, February 6, 2015

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

7:30 a.m. LIVE CASE FROM SCRIPPS CLINIC
The Anatomic Spectrum of the LAA: Insights from Human Cadavers
Mark Reisman, MD

Echocardiographic Evaluation of the LAA for Interventional Procedures
Robert J. Siegel, MD

CT Evaluation of the Left Atrial Appendage
Jacqueline W. Sav, MD

How to Ligate the LAA with Minimally Invasive Surgery
James R. Hemp, MD

Treatment Selection for the Atrial Fibrillation Patient: NOACs, Warfarin, or LAA Closure?
Matthew J. Price, MD

9:30 a.m. Break & View Exhibits

10 a.m. LIVE CASE FROM SCRIPPS CLINIC
Novel Technologies for LAA Closure
Brian K. Whisenant, MD

Keys to Success for Mitral and Aortic Paravalvular Leak Closure
Paul Sorajja, MD

The Ventricular Septum: Anatomic-Clinical-Pathological Correlates
Douglas C. Shook, MD

Fusion Imaging to Guide Structural Heart Interventions
John D. Carroll, MD

Lunch with Challenging Cases and Panel Discussion

1:30 p.m. LIVE CASE FROM SCRIPPS CLINIC
The Atrial Septum: Anatomic-Clinical-Pathological Correlates
Douglas C. Shook, MD

How to Perform Intracardiac Echo to Interrogate the Interatrial Septum and Guide ASD/PFO Closure
Jason H. Rogers, MD

Should This PFO Be Closed?
John D. Carroll, MD

Closure of Complex Atrial Septal Defects
Jason H. Rogers, MD

3:30 p.m. Break & View Exhibits

4 p.m. LIVE CASE FROM SCRIPPS CLINIC
Evaluation, Device Selection and Procedural Approach to Transcatheter VSD Closure
Neil Wilson, MD

When TAVR Doesn’t Go As Planned
Curtiss T. Stinis, MD

Can I Take a Mulligan? Holes That Were More Challenging Than At First Glance
Neil Wilson, 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 Fees & Registration - February 4-6, 2015 - Marriott Del Mar, San Diego, California

Conference 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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Satellite Symposia (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

Structural Heart Coordinator Symposium (Additional Fee)

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Transseptal Workshop (Deposit Required)

This workshop is complimentary for the first 12 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 23, 2015. Attendee substitutions are allowed, but notification must be made in writing by January 23, 2015. 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.

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

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Held in cooperation with

Scripps
SCAI
California Chapter
ASE American Society of Echocardiography