







October 21-24, 2014

FEATURING
PRE-CONFERENCE
SEMINAR &
EXPANDED
SATELLITE
SYMPOSIA

Hilton La Jolla Torrey Pines La Jolla, California

Scripps Conference Services & CME www.scripps.org/conferenceservices

## Introduction



## **Course Overview**

Cardiologists are trained during their fellowship years in the latest techniques, technologies, standards of practice and guidelines for patient care. However, the practice of medicine changes rapidly and the discipline of interventional cardiology changes, dramatically, each year. Changes in interventional cardiology directly impact patient care and require specific changes to physician practice. To stay current, physicians rely on journal articles, interaction with colleagues and isolated lectures throughout the year. The primary purpose of Cardiovascular Interventions is to provide the practicing physician with a concentrated exposure to new developments in interventional cardiology that will positively influence patient outcomes.

Through a program of lectures from world experts, live demonstration procedures and participant-faculty interactions, attendees will learn the latest advances in interventional cardiology. After completing this program, participants will return to their practice environment armed with the latest evidence base and practical information to improve patient outcomes.

## **Conference Highlights**

- Plenary talks from nationally recognized experts
- Live satellite case transmissions from La Jolla, California & Milan, Italy
- · Ample question and answer time with course faculty
- · Receptions and networking opportunities among colleagues
- Expanded satellite symposia and pre-conference seminar
- 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:

- Apply new technical approaches to specific lesion subsets such as bifurcation lesions, left main lesions, chronic total occlusions and saphenous vein graft disease.
- Integrate the latest guidelines and practice improvements into the management of myocardial function.
- Discuss new techniques under development for percutaneous cardiac valve repair and replacement.
- Reduce common catheterization laboratory patient complications using new techniques and technologies.
- Critique the latest evidence and guidelines supporting new cardiac imaging modalities such as IVUS and FFR guided stent deployment.
- Prescribe the appropriate antithrombotic therapies based on the latest data and guidelines.

## **Target Audience**

This course is designed for interventional cardiologists, cardiologists, cardiac surgeons, vascular surgeons, and internists with an interest in interventional cardiology. No experience in interventional cardiology is required, but a basic understanding of the field is recommended.

#### **Accreditation**

#### 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 26 AMA PRA Category 1 Credit(s)<sup>TM</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

#### Credit Breakdown

Pre-Conference Seminar (Tues): 6 Main Conference (Wed-Fri): 20 Wednesday: 4; Thursday: 8; Friday: 8 Total Credits Available: 26

#### **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.

## **Faculty**

#### **Course Director**

**Paul S. Teirstein, MD, FACC, FSCAI**Chief of Cardiology
Director, Interventional Cardiology
Scripps Clinic/Scripps Green Hospital
La Jolla, California

#### **Course Co-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

**Richard A. Schatz, MD, FACC** Research Director Cardiovascular Interventions 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**

**Daniel Burkhoff, MD, PhD**Adjunct Associate Professor of Medicine
Columbia University
New York, New York

Antonio Colombo, MD, FACC Chief of Invasive Cardiology San Raffaele Scientific Institute and Columbus Hospital Milan, Italy



#### **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.

#### **David V. Daniels, MD**

Director, Transcatheter Aortic Valve Replacement (TAVR) Program Director Interventional Cardiology Service Line Palo Alto Medical Foundation Palo Alto, California

David P. Faxon, MD, FACC

Senior Lecturer, Harvard Medical School Interim Chief of Cardiology VA Boston Healthcare System Vice Chair of Medicine for Clinical Strategic Planning, Department of Medicine Brigham and Women's Hospital Boston, Massachusetts

William F. Fearon, MD, FACC, FSCAI

Associate Professor of Medicine Director, Interventional Cardiology Stanford University Medical Center Stanford, California

J. Aaron Grantham, MD, FACC, FSCAI

Associate Professor of Medicine Director, Cardiovascular Disease Fellowship/ Cardiovascular Medical Education University of Missouri Kansas City Consulting Cardiologist Saint Luke's Mid America Heart Institute Kansas City, Missouri

Mark A. Grise, MD, FACC, FSCAI

Medical Director Cardiac Catheterization Laboratory Sacred Heart Hospital Pensacola, Florida

Giulio Guagliumi, MD

Division of Cardiology Cardiovascular Department Ospedali Riuniti di Bergamo Bergamo, Italy

James B. Hermiller, MD, FACC, FSCAI Director, Interventional Cardiology The Care Group, LLC Indianapolis, Indiana

J. Thomas Heywood, MD, FACC

Director, Heart Failure Recovery and Research Program Division of Cardiovascular Disease Scripps Clinic/Scripps Green Hospital La Jolla, California

Morton J. Kern, MD, FACC, FSCAI, FAHA

Professor of Medicine and Associate Chief of Cardiology University of California, Irvine Chief of Cardiology Long Beach Veterans Administration Hospital Long Beach, California

John R. Laird, MD, FACC, FACP, FSCAI

Professor of Medicine
Medical Director
UC Davis Vascular Center
University of California, Davis Medical Center
Sacramento, California

#### William L. Lombardi, MD, FACC, FSCAI

Medical Director Cardiac Catheterization Laboratory St. Joseph Medical Center Bellingham, Washington

Steven P. Marso, MD, FACC, FAHA, FSCAI

Professor of Medicine University of Missouri Kansas City Medical Director, Cath Lab Quality Saint Luke's Mid America Heart Institute Kansas City, Missouri

Jeffrey W. Moses, MD, FACC

Professor of Medicine Columbia University College of Physicians and Surgeons Director, Cardiovascular Interventions New York-Presbyterian Hospital/Columbia University Medical Center New York, New York

Samir B. Pancholy, MD, FACC, FSCAI

Program Director
Fellowship in Cardiovascular Diseases
The Wright Center for
Graduate Medical Education
Associate Professor of Medicine
The Commonwealth Medical College
Scranton, Pennsylvania

Mark Reisman, MD, FACC

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

David G. Rizik, MD, FACC, FSCAI

Director of Heart and Vascular Medicine Scottsdale Healthcare Hospitals Medical Director and Interventional Cardiologist Scottsdale Heart Group Scottsdale, Arizona

Jennifer A. Tremmel, MD, MS, FACC

Interventional Cardiology Clinical Director, Women's Heart Health Assistant Professor of Medicine (Cardiovascular) Stanford University Medical Center Stanford, California

Branavan Umakanthan, DO, FACC, FSCAI

Nevada Heart & Vascular Center Las Vegas, Nevada

George W. Vetrovec, MD, FACC

Professor of Medicine
Director
Adult Cardiac Catheterization Laboratory
VCU Pauley Heart Center
Virginia Commonwealth University
Medical Center
Richmond, Virginia

## Conference Agenda

#### Tuesday, October 21, 2014

#### **Pre-Conference Seminar**

Complete Revascularization in the Cath Lab: When is Hemodynamic Support Needed?

This seminar is supported, in part, by an educational grant from Abiomed, Inc. in accordance with ACCME Standards for Commercial Support.

7:30 a.m. Registration and Hands-on Workshop 8:30 a.m. **Welcome & Educational Overview** Paul S. Teirstein, MD

8:45 a.m. The Science of Hemodynamic Support Daniel Burkhoff, MD, PhD

9:30 a.m. Real World Applications of LV Support:
Making the Best Clinical Decisions in the Cath Lab
Morton J. Kern, MD

9:45 a.m. Defining the High-risk Patient: When Should You Consider Support?

George W. Vetrovec, MD

10:15 a.m. Break

10:30 a.m. PCI in a Hurry vs. Optimal Revascularization with Support: Is There a Difference?

Jeffrey W. Moses, MD

11 a.m. Clinical Evidence for Hemodynamic Support in High-risk PCI

James B. Hermiller, MD

11:15 a.m. Choosing the Appropriate Catheter: The Impella 2.5 CP or 5.0 Mark Reisman. MD

11:30 a.m. Case Presentation: The High-risk Patient David G. Rizik, MD

Noon Lunch and Hands-on Workshop

1 p.m. Clinical Evidence for Hemodynamic Support in the Emergent Patient
James B. Hermiller, MD

1:15 p.m. Case Presentation: The Emergent Patient David G. Rizik, MD

1:45 p.m. Patient Management: Stitch-to-Stitch
Mark A. Grise, MD

2:15 p.m. Break

2:30 p.m. Health Economics and Current Trends in Cardiology Branavan Umakanthan, DO

3 p.m. **Future Technologies** David G. Rizik, MD

3:30 p.m. Panel Discussion

4 p.m. What We Learned Today Paul S. Teirstein, MD

4:15 p.m. Reception

## Tuesday Dinner Symposium Structural Heart Disease

Non-CME Activity Supported By Abbott Vascular and Edwards Lifesciences

6:30 p.m. How to Perform Mitral Valve Repair with MitraClip®: Step-by-Step

7:15 p.m. How to Perform TAVR with a Balloon
Expandable Valve: Step-by-Step

7:30 p.m. Using Hemodynamics during TAVR: Anticipating
Problems of Paravalvular Leak, Diastolic Dysfunction,
and Residual Stenosis

Morton J. Kern, MD

7:45 p.m. **Next Generation TAVR Devices** *Mark Reisman, MD* 

8 p.m. Discussion

Moderator: Matthew J. Price, MD

#### Wednesday, October 22, 2014

#### Wednesday Breakfast Symposium

Optimizing PCI: A Case-based Session
Non-CME Activity Supported By St. Jude Medical, Inc.

8:30 a.m. **Stent Planning with OCT** *Giulio Guagliumi, MD* 

9 a.m. FFR: Latest Outcomes Data William F. Fearon, MD

9:30 a.m. Using OCT/FFR to Understand Your PCI Concerns

Morton J. Kern, MD

10 a.m. **Discussion** Moderator: *Matthew J. Price, MD* 

#### Wednesday Lunch Symposium

## The Value of Transradial to Your Patients and Your Hospital

Non-CME Activity Supported By Terumo Medical Corporation

11 a.m. Economics of Radial Angiography and Intervention Steven P. Marso, MD

11:30 a.m. Getting In, Getting Out, and Getting Back: Keys to Radial Artery Patency Samir B. Pancholy, MD

> Noon Developing a Transradial Primary PCI Program Jennifer A. Tremmel, MD, MS

12:30 p.m. **Discussion** Moderator: *Matthew J. Price, MD* 

1 p.m. General Conference Registration Open

1:30 p.m. Live Cases 1 & 2 From Scripps Clinic

Real World FFR: Case Selection and Avoiding Pitfalls William F. Fearon, MD

Bifurcations 2014: Tap, Crush, Culottes, Kiss – Step-by-Step Description of All Techniques Jeffrey W. Moses, MD

**Tips and Tricks for Performing Optimal PCI** *Curtiss T. Stinis, MD* 

3:30 p.m. Break and View Exhibits

4 p.m. Live Cases 3 & 4 From Scripps Clinic

Novel FFR and HD IVUS Technologies Morton J. Kern, MD

Recognizing and Managing Femoral Access Site Complications

Curtiss T. Stinis, MD

Revascularization First for Ischemia Jeffrey W. Moses, MD

6 p.m. Adjourn

#### Wednesday Dinner Symposium

Chronic Total Occlusions and Complex PCI

Non-CME Activity Supported By Boston Scientific Corporation

6:30 p.m. Reception

7 p.m. Why and How to Open Chronic Total Occlusions
J. Aaron Grantham, MD

7:30 p.m. Complex PCI 2014 David V. Daniels, MD

8 p.m. Discussion

Moderator: Curtiss T. Stinis, MD

#### Thursday, October 23, 2014

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

7:30 a.m. Live Cases 5 & 6 from Milan, Italy

(Under the direction of Antonio Colombo, MD)

Show Me the Data: Key Clinical Trials in 2014 David P. Faxon, MD

How to Manage Post PCI Antiplatelet Therapy in the Patient on Oral Anticoagulation

David P. Faxon, MD

9:30 a.m. Break and View Exhibits

10 a.m. Live Cases 7 & 8 From Scripps Clinic

Doing It Right: Best Practices for Radial Angiography and Intervention

Jennifer A. Tremmel, MD, MS

**Recognition and Management of Complications with** 

**Transradial Intervention** Samir B. Pancholy, MD

Intracoronary Brachytherapy for Multiple **Drug-Eluting Stent Restenoses** 

Nicholas N. Hanna, MD and Paul S. Teirstein, MD

Noon Lunch with Challenging Cases and Panel Discussion

1:30 p.m. Live Cases 9 & 10 From Scripps Clinic

Advanced Intravascular Imaging to Guide PCI

Giulio Guagliumi, MD

Left Atrial Appendage Closure for Atrial Fibrillation

Matthew J. Price, MD

Transcatheter Aortic Valve Replacement: State of the Art

Paul S. Teirstein, MD

3:30 p.m. Break and View Exhibits

4 p.m. Live Cases 11 & 12 From Scripps Clinic

**INNOVATION AT SCRIPPS** 

Stem Cells for Ischemic Heart Disease

Richard A. Schatz, MD

**Interventional Heart Failure** 

J. Thomas Heywood, MD

Transcatheter Mitral Valve Repair

Matthew J. Price, MD

New Technologies for Left Atrial Appendage Occlusion

Matthew J. Price, MD

Transcatheter Aortic Valve Replacement (TAVR)

Paul S. Teirstein, MD

Ultra Aggressive Anti-Lipid Therapy: PCSK9 for

**Atherosclerotic Regression** 

Paul S. Teirstein, MD

6 p.m. Adjourn

#### **Thursday Dinner Symposium**

#### **Peripheral Vascular Interventions**

Non-CME Activity Supported By Cook Medical

6:30 p.m. Reception

7 p.m. Strategies for Tackling Complex Peripheral Chronic

Total Occlusions

Curtiss T. Stinis, MD

7:30 p.m. Drug-Eluting Technologies for the Treatment of

Peripheral Arterial Disease

John R. Laird, MD

8 p.m. Panel Discussion: Complex Endovascular Case Reviews

Curtiss T. Stinis, MD and John R. Laird, MD

#### Friday, October 24, 2014

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

7:30 a.m. Live Cases 13 & 14 From Scripps Clinic

The Next Wave of Stent Design I: **Bioresorbable Scaffolds** 

David G. Rizik, MD

The Next Wave of Stent Design II:

**Bioresorbable Polymers** 

Matthew J. Price, MD

9:30 a.m. Break and View Exhibits

10 a.m. Live Cases 15 & 16 From Scripps Clinic

**Practical Approach to Chronic Total Occlusions** 

Part 1: Step-by-Step Techniques -

The Antegrade Approach David V. Daniels, MD

**Practical Approach to Chronic Total Occlusions** 

Part 2: Step-by-Step Techniques - The

Retrograde Approach

William L. Lombardi, MD

Noon Lunch with Challenging Cases and Panel Discussion

1:30 p.m. Live Cases 17 & 18 From Scripps Clinic

PCI in Acute MI Controversies: Aspiration, Non-Culprit Revascularization, and Optimal Post

Procedure Therapy

J. Aaron Grantham, MD

All Paths Lead to Rome: Navigating the Vascular Anatomy of the Arm, Arch Vessels, and Aorta for

Radial Angiography Matthew J. Price, MD

Peripheral Interventions for the Coronary

Interventionalist

Curtiss T. Stinis, MD 3:30 p.m. Break and View Exhibits

4 p.m. Live Cases 19 & 20 From Scripps Clinic

PFO, PDA, VSD, Paravalvular Leak: Should All the

**Holes Be Closed?** Matthew J. Price, MD

Creating a Cost Containment Program for

**Interventional Cardiologists** 

Joseph A. Walsh, MD, Richard Fortuna, MD and

Paul S. Teirstein, MD

6 p.m. Final Adjournment



## Conference Location & Hotel Accommodations





#### **Hotel Information**

Please make your own hotel reservations.

The Hilton La Jolla Torrey Pines Hotel is located on the internationally famous Torrey Pines Golf Course. Adjacent to Scripps Clinic, 10 minutes north of lovely La Jolla, and 20 minutes from the San Diego airport, the Hilton is close to all the attractions that make San Diego so desirable to visit. With the Pacific Ocean as a backdrop, all rooms command a spectacular view of either the ocean and championship golf course, or a meticulously tended, lush garden. In addition to the tennis courts, swimming pool, saunas and spa, the Shiley Sports and Health Center of Scripps Clinic is available to hotel guests.

We are fortunate to have obtained special low rates at the hotel starting at \$219 per night (plus tax and parking). Make your reservations early. A block of rooms is being held for us at the \$219 rate until Wednesday, October 1, 2014 or until the room block fills, whichever comes first. After that date, reservations will be accepted based on availability and the special room rate may not be honored. Be sure to request the Scripps Clinic Cardiovascular Interventions rate when making reservations.

### Hilton La Jolla Torrey Pines

10950 North Torrey Pines Road La Jolla, California 92037

Reservations: 800-762-6160 Hotel Direct: 858-558-1500



## **Conference Materials**

## 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 smart phone or other device visit the appropriate app store and search ScrippsCME (must be one word) or scan the appropriate QR code below. The app is free of charge and will be continuously updated during and after the course. Please note that no paper materials will be provided during this program.

To access using a web browser: http://www.grupio.com/ScrippsCME

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## Registration Fees & Information



#### Cardiovascular Interventions 2014 Included: Course tuition, breakfasts, breaks, lunches, pre-conference seminar, satellite symposia, and electronic course materials Not Included: Travel costs, lodging, and parking Fax Conference Registration Fees Mail Thru Aug 4 Aug 5-Oct 15 On-site ..... Physicians \$899 \$925 \$950 ..... Fellows & Residents \$599 \$625 \$650 ...... Nurses, Technicians & Others \$399 \$425 \$450 PRE-CONFERENCE SEMINAR/SATELLITE SYMPOSIA ...... Yes, I will attend the Tuesday Pre-Conference Seminar (session limited to first 150 registrants) ...... Yes, I will attend the Tuesday Dinner Symposium ...... Yes, I will attend the Wednesday Breakfast Symposium ...... Yes, I will attend the Wednesday Lunch Symposium ...... Yes, I will attend the Wednesday Dinner Symposium ...... 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: AFFILIATION / HOSPITAL / COMPANY EMAIL (Required for confirmation & CME) 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: CHECK NO / APPROVAL CD DATE RECEIVED 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 information below

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#### Three Easy Ways to Register

Online www.scripps.org/

cardiovascularinterventions

Fax 858-652-5565

Mail Scripps Conference Services & CME Cardiovascular Interventions

11025 North Torrey Pines Road Suite 200, Maildrop: SCRC200 La Jolla, California 92037

#### **Questions?**

Contact Scripps Conference Services & CME

Phone 858-652-5400

Email med.edu@scrippshealth.org

#### **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 **Wednesday**, **October 15**, **2014**. Attendee substitutions are allowed, but notification must be made in writing by **October 15**, **2014**. 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. Nonregistered 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.







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# Join Us!

## Cardiovascular Interventions

October 21-24, 2014

Hilton La Jolla Torrey Pines La Jolla, California FSC Mand Sources

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LIVE SATELLITE CASE TRANSMISSIONS FROM LA JOLLA, CALIFORNIA & MILAN, ITALY

FEATURING
PRE-CONFERENCE
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# Cardiovascular Interventions

October 21-24, 2014

Hilton La Jolla Torrey Pines La Jolla, California

A stimulating and comprehensive program that features live case demonstrations, lectures and panel discussions that will discuss the state-of-the-art concepts and techniques of interventional cardiology.