

29<sup>th</sup> Annual  
**Cardiovascular Interventions 2018**

October 23 - 26, 2018  
Hilton La Jolla Torrey Pines, La Jolla, California

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**Tuesday, October 23, 2018**

**Pre-Conference Seminar**

**8:00 AM – 4:30 PM in the Fairway Ballroom**

*Sponsored by Abiomed, Inc. (This activity is not included in CME hours.)*

**Advanced Use of Percutaneous Hemodynamic Support with Impella**

- 8:00 AM            **Welcome**  
*Paul S. Teirstein, MD*
- 8:05 AM            **Building the Field of Heart Recovery/Impella Indications**  
*George W. Vetrovec, MD*
- 8:25 AM            **Basics of Hemodynamic Principles: Introduction to TEACH**  
*Daniel Burkhoff, MD, PhD*
- 8:45 AM            **What is Protected PCI and the Appropriate Revascularization Strategy?**
- Patient Identification/Are We Missing Any Patients?
  - Treatment Strategies/Do We Have All the Tools?
  - Critical Skills and Competency/Are We Well Trained?
  - Complete Revascularization or Staged Procedures?
- Rajan Patel, MD*

**Case Presentations**

- 9:00 AM            **Should These Cases be Done Without Support?**
- UPLM
  - MVD with Moderately Reduced EF
- David Rizik, MD*
- 9:15 AM            **Do These Cases Need Hemodynamic Support for Safe and Complete Revascularization?**
- CTO PCI
  - Atherectomy
- Ashish Pershad, MD*
- 9:30 AM            **Break**

## Impediments for Treating More Complex Patients

- 9:45 AM            **Large Bore Access**  
*Amir Kaki, MD*
- 10:15 AM           **Axillary Insertion of Impella**  
*Amir Kaki, MD*
- 10:45 AM           **Access Site Management**  
*Ashish Pershad, MD*
- 11:15 AM           **Do You Have All the Essential Elements for Building a Leading Protected PCI Program?**
- Heart Team Approach
  - Protocols and Algorithms
  - Outreach Programs
  - Protected PCI Coordinator
- Rajan Patel, MD*
- 11:45 AM           **Panel Discussion on Protected PCI Key Take Home Messages**  
*Daniel Burkhoff, MD, PhD, Rajan Patel, MD, Ashish Pershad, MD, David Rizik, MD, Paul S. Teirstein, MD, George W. Vetrovec, MD*
- 12:00 PM           **Lunch and Hands-On**

## Improving Outcomes in Cardiogenic Shock

- 1:00 PM            **Current Trends: Has Survival Improved for Patients with AMICGS?**  
*Rajan Patel, MD*
- 1:15 PM            **Pharmacologic and Device-Based Approaches to Acute Heart Failure and Cardiogenic Shock: Treating Patients with Pressors, IABP, Impella, ECMO and EcPella (ECMO & Impella)**  
*Daniel Burkhoff, MD, PhD*
- 1:45 PM            **Practical Insights for Adding Hemodynamic Support Into Your Critical Care Path: The Detroit Cardiogenic Shock Initiative (CSI) Experience**  
*Amir Kaki, MD*
- 2:10 PM            **Choosing MCS Options in AMI Cardiogenic Shock: Rationale for Impella First**  
*Rajan Patel, MD*
- 2:30 PM            **Should Every MCS Patient Have a RHC? Guided Hemodynamic Assessment or Assumed Hemodynamics**  
*Ajay Srivastava, MD*
- 2:45 PM            **Break**
- 3:00 PM            **The Critical Role of the Cardiac Surgeon in Cardiogenic Shock Care Pathway: The Heart Team and Strategies for Escalation**  
*Danny Ramzy, MD, PhD*

## Case Presentations on CGS with Simulation

- 3:20 PM                    **“We Waited Too Long”: Hazards of Delayed Support in AMICGS**  
*Amir Kaki, MD*
- 3:35 PM                    **“IABP Had No Effect”: And Consequently Delayed Adequate Support**  
*David Rizik, MD*
- 3:50 PM                    **“Don’t Forget the Right Ventricle”: Right and Left Ventricular Support**  
*Danny Ramzy, MD, PhD*
- 4:05 PM                    **Panel Discussion on Key Take-Away Messages**  
*Daniel Burkhoff, MD, PhD, Amir Kaki, MD, Rajan Patel, MD,*  
*Danny Ramzy, MD, PhD, David Rizik, MD, Ajay Srivastava, MD*
- 4:25 PM                    **Closing Remarks**  
*Paul S. Teirstein, MD*
- 4:30 PM                    **Reception for Attendees**

## Dinner Symposium

**6:00 – 8:00 PM in the Fairway Ballroom**

*(This activity is not included in CME hours.)*

### **New Technology for Transcatheter Aortic Valve Replacement with “Hands-On” Opportunities**

This dinner symposium will feature state-of-the-art lectures, hands-on stations, and case presentations.

#### **What I Like About the Boston Scientific LOTUS Edge Valve**

*David Rizik, MD*

#### **What I Like About the Edwards SAPIEN Valve**

*Curtiss T. Stinis, MD*

#### **What I Like About the Medtronic Evolut Valve**

*Paul S. Teirstein, MD*

#### **Cerebral Embolic Protection During TAVR**

*Paul S. Teirstein, MD*

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**Wednesday, October 24, 2018**

**Breakfast Symposium**

**7:30 – 9:00 AM in the Fairway Ballroom**

*Sponsored by Terumo Interventional Systems (This activity is not included in CME hours.)*

**Radial PCI: Controversies and New Horizons**

7:30 AM	<b><u>Point Counterpoint</u></b> <b>Don't be Left Behind: Less Than 50% Radial is Poor Patient Care</b> <i>Matthew J. Price, MD</i>
7:50 AM	<b>Don't Believe the Hype: Radial First is Propaganda</b> <i>Ashish Pershad, MD</i>
8:05 AM	<b>Discussion</b>
8:20 AM	<b>STEMI and Radial: How to Overcome Barriers to Treatment</b> <i>Duane S. Pinto, MD, MPH</i>
8:40 AM	<b>Next Frontiers: Radial Access for Peripheral Intervention</b> <i>Raj Sugumaran, MD</i>

**Symposium**

**9:30 – 10:30 AM in the Fairway Ballroom**

*(This activity is not included in CME hours.)*

9:30 – 9:35 AM	<b>Opening Remarks</b> <i>Matthew J. Price, MD</i>
9:35 – 9:45 AM	<b>Case Presentation: Antiplatelet Therapy During High-Risk PCI</b> <i>Ehtisham Mahmud, MD</i>
9:45 – 10:00 AM	<b>Clinical Overview: The Role of IV P2Y12 Inhibition During PCI</b> <i>Matthew J. Price, MD</i>
10:00 – 10:10 AM	<b>Case Presentation</b> <i>Ehtisham Mahmud, MD</i>
10:10 – 10:25 AM	<b>The Value Proposition for IV P2Y12 Inhibitor Therapy</b> <i>Duane S. Pinto, MD, MPH</i>
10:25 – 10:30 AM	<b>Questions/Concluding Remarks</b> <i>Matthew J. Price, MD</i>

## **Lunch Symposium**

**11:00 AM – 1:00 PM in the Fairway Ballroom**

*Sponsored by Abbott (This activity is not included in CME hours.)*

### **Modernized PCI: Latest Tools and Techniques**

Program Description: 2018 continues to see the expansion of increasingly complex lesion subsets, as well as a growing adoption of both intracoronary imaging and physiology techniques. This case based session will focus on which patients and lesions will benefit from imaging and physiology most and how to use imaging for optimal results in complex cases.

11:00 AM	Lunch and seating of attendees
11:15 AM	<b>Course Welcome, Overview, Objectives</b> <i>Matthew J. Price, MD</i>
11:20 AM	<b>Resting Indices in Physiology – When to Use and Are All Created Equal?</b> <i>Morton Kern, MD</i>
11:35 AM	<b>ILUMIEN IV Study – Which Patients Benefit Most From Imaging and Why?</b> <i>Ziad Ali, MD, DPhil</i>
11:55 AM	<b>Case Based Discussion: Treating ISR, Moderate to Severe Calcium, Bifurcations, and ACS Patients Utilizing the Latest Imaging Techniques</b> <u>Moderator:</u> <i>Matthew J. Price, MD</i> <i>Ziad Ali, MD, DPhil, Eric Lindley, MD,</i>
12:30 PM	<b>Comments &amp; Questions</b> <u>Moderator:</u> <i>Matthew J. Price, MD</i>

12:00 PM **General Symposium Registration Open**  
**Grande Ballroom Foyer**

1:30 PM **Live Cases 1 & 2 from Scripps Clinic**

Panel: *Jorge A. Gonzalez, MD*  
*Morton Kern, MD*  
*Matthew J. Price, MD*  
*Richard A. Schatz, MD*  
*Curtiss T. Stinis, MD*  
*Paul S. Teirstein, MD*

**Is Diagnostic Angiography Dead? FFRct for the Interventionalist**  
*Jorge A. Gonzalez, MD*

**FFR/iFR Caveats: Real World Challenges: Diffuse Disease, Left Main, CTOs**  
*Morton Kern, MD*

**Core Curriculum: Radial PCI: Essential Techniques to Maximize Success**  
*Matthew J. Price, MD*

3:30 PM

**Break & View Exhibits**

4:00 PM

**Live Cases 3 & 4 from Scripps Clinic**

Panel: *Morton Kern, MD*  
*Matthew J. Price, MD*  
*David G. Rizik, MD*  
*Richard A. Schatz, MD*  
*Curtiss T. Stinis, MD*  
*Paul S. Teirstein, MD*

**Core Curriculum: Bifurcation Approaches, A Step-by-Step Refresher**

*Curtiss T. Stinis, MD*

**Core Curriculum: Guidewires, Guide Catheters and Specialty Devices: When to Choose and How to Use Current Technology**

*Curtiss T. Stinis, MD*

**Meet the Experts Reception**

**6:00 – 7:00 PM in the Grande Ballroom Foyer**

*Sponsored by Boston Scientific (This activity is not included in CME hours.)*

Faculty: *J. Aaron Grantham, MD, Ashish Pershad, MD, Curtiss T. Stinis, MD,*  
*Paul S. Teirstein, MD*

**Dinner Symposium**

**7:00 – 9:00 PM in the Fairway Ballroom**

*Sponsored by Medtronic (This activity is not included in CME hours.)*

**Great Cases in Interventional Cardiology: Complications, Difficult Decisions, Challenging Anatomy, and More!**

Session Chairs: *James Hermiller, MD, Curtiss T. Stinis, MD, Paul S. Teirstein, MD*

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**Thursday, October 25, 2018**

**Breakfast Symposium**

**6:30 – 7:30 AM in the Fairway Ballroom**

*Co-Sponsored by ACIST Medical Systems, Inc. and Medtronic*

*(This activity is not included in CME hours.)*

**New Cath Lab Technology for 2019 and Beyond: Advanced Imaging and Enhanced Physiologic Utility**

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|---------|--|
| 6:30 AM | <b>Welcome</b><br><i>Ziad Ali, MD, DPhil</i>   |
| 6:35 AM | <b>Current Practices and New Approaches for Best Outcomes</b><br><i>Morton Kern, MD</i>                                      |
| 6:50 AM | <b>Resting Indices for Physiologic Assessment – Are They All Created Equally?</b><br><i>Robert Wilson, MD</i>                |
| 7:05 AM | <b>Imaging and Physiology Guided PCI Without Contrast Administration – Is This the Future?</b><br><i>Ziad Ali, MD, DPhil</i> |
| 7:25 AM | <b>Wrap Up/ Q&amp;A</b><br><i>Ziad Ali, MD, DPhil</i>  |

6:30 AM **Continental Breakfast and View Exhibits**

7:30 AM **Live Cases 5 & 6 from Scripps Clinic**

Panel: *Ziad Ali, MD, DPhil*  
*Ehtisham Mahmud, MD*  
*Matthew J. Price, MD*  
*Richard A. Schatz, MD*  
*Curtiss T. Stinis, MD*  
*Paul S. Teirstein, MD*

**Show Me the Data: Key Clinical Trials of 2018**

*Ehtisham Mahmud, MD*

**Intravascular Imaging is Underutilized in 2018: How Liberal Use Can Improve Outcomes**

*Ziad Ali, MD, DPhil*

**PFO Closure to Prevent Recurrent Cryptogenic Stroke**

*Matthew J. Price, MD*

9:30 AM

**Break & View Exhibits**

10:00 AM

**Live Cases 7 & 8 from Scripps Clinic**

Panel: *Ehtisham Mahmud, MD*

*Matthew J. Price, MD*

*David Rizik, MD*

*Curtiss T. Stinis, MD*

*Paul S. Teirstein, MD*

**Left Ventricular Support During High Risk PCI: Expanded Indications, Technique and Outcomes**

*David Rizik, MD*

**Unprotected Left Main and Multivessel PCI Update: Expanding PCI Indications**

*Paul S. Teirstein, MD*

**Transcatheter Aortic Valve Replacement (TAVR) in 2018: The Data Keeps Getting Better...Long-Term Outcomes/Expanded Indications**

*Paul S. Teirstein, MD*

12:00 PM

**Lunch in the Fairway Ballroom**

**Challenging Cases Panel Discussion**

Panel: *Ziad Ali, MD, DPhil*

*Cindy Grines, MD*

*James Hermiller, MD*

*Morton Kern, MD*

*Matthew J. Price, MD*

*Curtiss T. Stinis, MD*

*Paul S. Teirstein, MD*

**Radiation Safety in the Cath Lab**

*David Rizik, MD*

1:30 PM

**Live Cases 9 & 10 from Scripps Clinic**

Panel: *Cindy Grines, MD*

*James Hermiller, MD*

*Matthew J. Price, MD*

*Jacqueline Saw, MD*

*Richard A. Schatz, MD*

*Curtiss T. Stinis, MD*

*Paul S. Teirstein, MD*

**Case-Based Atherectomy: Rotational, Orbital, Laser – Which Would You Choose for This Case? Multiple Cases Discussed by Multiple Atherectomy Experts**

*J. Aaron Grantham, MD, Cindy Grines, MD, James Hermiller, MD,*

*Matthew J. Price, MD, Curtiss T. Stinis, MD, Paul S. Teirstein, MD*



**Spontaneous Coronary Artery Dissection (SCAD) Update – What Does the Interventionalist Need to Know? Preferred Access, Advanced Imaging, Best Medical Therapy, Should We Ever Stent?**

*Jacqueline Saw, MD*

**TAVR: Which Device for Which Patient?**

*Curtiss T. Stinis, MD*

3:30 PM

**Break & View Exhibits**

4:00 PM

**Live Cases 11 & 12 from Scripps Clinic**

Panel: *James Hermiller, MD*

*Dean Kereiakes, MD*

*Matthew J. Price, MD*

*Richard A. Schatz, MD*

*Curtiss T. Stinis, MD*

*Paul S. Teirstein, MD*

**What's New with DAPT? Shorter DAPT Duration, Genome Directed DAPT, New Generic Anti-Platelets, Cangrelor, Switching Agents, Monotherapy...**

*Dean Kereiakes, MD*

**Endovascular Treatment of PAD in 2018: Latest Techniques and Data**

*Curtiss T. Stinis, MD*

**Now What Should We Do? The Worst From the Best – Complications Brought to You by Experts; Perforations, Embolized Stents and Wires, Thrombus and More**

*Matthew J. Price, MD, Curtiss T. Stinis, MD, Paul S. Teirstein, MD*

6:00 PM

**Adjourn**

**Dinner Symposium in the Fairway Ballroom**

**6:00 PM - Cocktail Hour & Hands-on Reception**

**7:00 PM – Dinner Symposium**

*Sponsored by Boston Scientific (This activity is not included in CME hours.)*

Visit the hands-on workstations during the cocktail hour to interact with new tools for complex intervention. Dinner presentations will be case-based.

**Bring Your “A” Game to B and C Lesions: “Adjunctive” Tools to Enhance Your PCI Success**

*Ziad Ali, MD, DPhil, J. Aaron Grantham, MD, Cindy Grines, MD, Matthew J. Price, MD*

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**Friday, October 26, 2018**

**Breakfast Symposium**

**6:30 – 7:30 AM in the Fairway Ballroom**

*Sponsored by HeartFlow (This activity is not included in CME hours.)*

**Bringing HeartFlow FFR<sub>CT</sub> Into Your Practice: Impact on Outcomes in Real-World Settings**

6:30 AM                    **Welcome, Introductions, and Breakfast**  
*Cory King*

6:35 AM                    **FFR<sub>CT</sub> Clinical Updates and the Impact of Making CCTA and FFR<sub>CT</sub> Part of My Standard Practice**  
*Robert Safian, MD*

7:00 AM                    **Real-World Examples: How FFR<sub>CT</sub> Can Be Incorporated Into Clinical Practice**  
*Jorge A. Gonzalez, MD*

7:20 AM                    **Discussion**

6:30 AM                    **Continental Breakfast & View Exhibits**

7:30 AM                    **Live Cases 13 & 14 from Scripps Clinic**  
Panel: *Cindy Grines, MD*  
*Dean Kereiakes, MD*  
*Matthew J. Price, MD*  
*David Rizik, MD*  
*Jacqueline Saw, MD*  
*Richard A. Schatz, MD*  
*Curtiss T. Stinis, MD*  
*Paul S. Teirstein, MD*

**What's New with STEMI PCI: Radial Access, Staging, Thrombectomy, Adjunctive Pharmacology**  
*Cindy Grines, MD*

**PCSK9 Inhibitors for the Interventionalist: Which Patients Do We Choose and How Do We Use?**  
*Douglas Triffon, MD*

**Left Atrial Appendage Closure for Atrial Fibrillation: Data, Technique, and Patient Selection**

*Matthew J. Price, MD*

9:30 AM

**Break & View Exhibits**

10:00 AM

**Live Cases 15 & 16 from Scripps Clinic**

Panel: *Ziad Ali, MD, DPhil*

*J. Aaron Grantham, MD*

*Cindy Grines, MD*

*James Hermiller, MD*

*Dean Kereiakes, MD*

*Matthew J. Price, MD*

*David Rizik, MD*

*Jacqueline Saw, MD*

*Richard A. Schatz, MD*

*Curtiss T. Stinis, MD*

*Paul S. Teirstein, MD*

**Practical Approach to Chronic Total Occlusions Step-by-Step Techniques – The Antegrade and Retrograde Approach**

*J. Aaron Grantham, MD*

**OCT, IVUS, and FFR: Which Technology When?**

*Ziad Ali, MD, DPhil*

12:00 PM

**Lunch in the Fairway Ballroom**

**Challenging Cases Panel Discussion**

Panel: *Cindy Grines, MD*

*James Hermiller, MD*

*Dean Kereiakes, MD*

*Matthew J. Price, MD*

*David Rizik, MD*

*Jacqueline Saw, MD*

*Richard A. Schatz, MD*

*Curtiss T. Stinis, MD*

*Paul S. Teirstein, MD*

**Certification Update: Are We Improving Continuous Certification?**

*Paul S. Teirstein, MD*

1:30 PM

**Live Cases 17 & 18 from Scripps Clinic**

Panel: *Ziad Ali, MD, DPhil*

*James Hermiller, MD*

*Dean Kereiakes, MD*

*Matthew J. Price, MD*

*David Rizik, MD*

*Richard A. Schatz, MD*

*Curtiss T. Stinis, MD*

*Paul S. Teirstein, MD*

**So Many Choices – How Do I Choose a Stent in 2018?**

*James Hermiller, MD, Dean Kereiakes, MD, David Rizik, MD*

**Low and No Contrast for PCI in Patients with Impaired Renal Function**

*Ziad Ali, MD, DPhil*

**The Mitral Revolution: Transcatheter Repair and Replacement Going Mainstream**

*Matthew J. Price, MD*

3:30 PM

**Break & View Exhibits**

4:00 PM

**Live Cases 19 & 20 from Scripps Clinic**

Panel: *Ziad Ali, MD, DPhil*

*James Hermiller, MD*

*Matthew J. Price, MD*

*David Rizik, MD*

*Richard A. Schatz, MD*

*Ajay Srivastava, MD*

*Curtiss T. Stinis, MD*

*Paul S. Teirstein, MD*

**Hyperbaric Oxygen: A Novel Approach to Infarct Size Reduction Following STEMI**

*Richard A. Schatz, MD*

**Interventional Heart Failure**

*Ajay Srivastava, MD*

6:00 PM

**Final Adjournment**