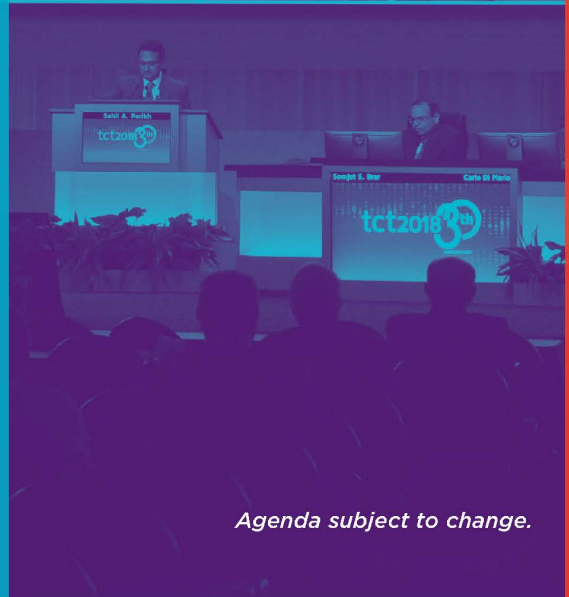
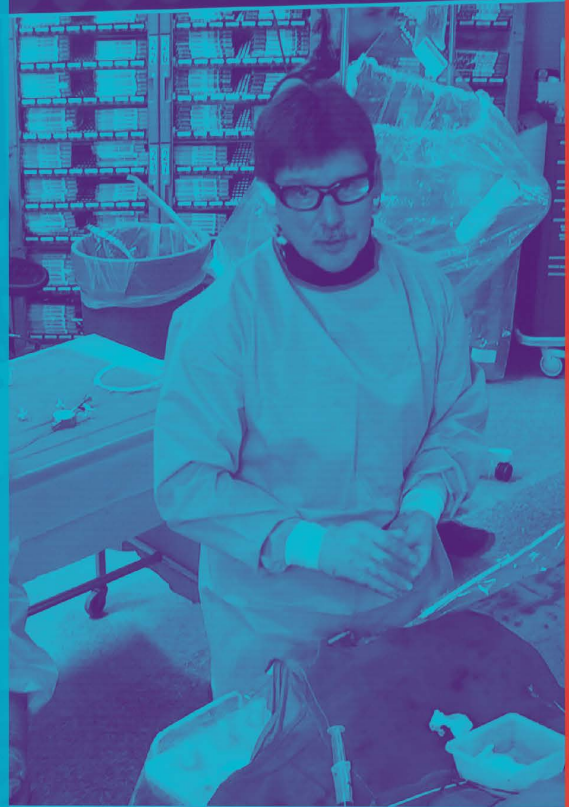


tct2019 SAN FRANCISCO, CA  
SEPTEMBER 25-29, 2019

TCTCONFERENCE.COM  
#TCT2019

# 2019 PROGRAM AGENDA



*Agenda subject to change.*

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## WEDNESDAY, SEPTEMBER 25, 2019

- 3 - TCT Innovation I Global Perspectives in MedTech and Emerging Technological Trends
- 3 - TCT Innovation II. Emerging Technological Trends II
- 4 - TCT Endovascular: An Alliance Partner With the Veith Symposium
- 6 - CardioVascular Professionals (CVP) Course: 28th Annual Cardiovascular Nurse and Technologist Symposium
- 8 - Collaborators In TAVR: A Medtronic Course in Collaboration With CRF for New to TAVR Heart Teams
- 9 - ABCs of Interventional Cardiology
- 10 - The Best of Intervention from Europe: Complex Coronary and Structural Heart Interventions
- 11 - The Best of Intervention from Japan: Advanced PCI Techniques, Imaging and Physiologic Assessment, Endovascular Intervention, and Structural Heart Intervention
- 12 - The Best of Intervention from China
- 12 - The Best of Interventions From Latin America
- 13 - The Best of Intervention from Asia-Pacific India
- 14 - The Best of Intervention from TCT Russia: At the Crossroads of Adult Structural and Congenital Interventions
- 14 - The Best of Intervention from the Middle East and Africa
- 15 - AMI and Vulnerable Plaque and Patient Studies
- 15 - Complications of TAVR: Stroke and Coronary Obstruction
- 16 - DES and Bioresorbable Scaffolds
- 17 - Endovascular Interventions
- 17 - Intravascular Imaging
- 18 - PCI in Patients with Heavily Calcified Lesions and Chronic Kidney Disease
- 18 - TAVR Complications and Congenital Heart Disease Interventions
- 19 - CTO Interventions
- 20 - Complex PCI and Left Main Interventions
- 20 - Hypertension and Heart Failure Therapies
- 21 - LAA Closure and Pulmonary Emboli Therapies
- 21 - Mitral and Tricuspid Valve Interventions
- 22 - Novel TAVR Data
- 23 - Physiologic Guidance: Hyperemic, Basal and Angiographic Studies

## THURSDAY, SEPTEMBER 26, 2019

- 23 - Main Arena I, Thursday, Sept. 26
- 24 - Live Case Transmission Theater I, Thursday, Sept. 26
- 24 - Live Case Transmission Theater II, Thursday, Sept. 26
- 25 - Metallic DES Part 1: Stent Differences and DAPT Duration
- 25 - MitraClip Studies and Technique
- 26 - Large-Bore Access and Closure
- 27 - PCI Pharmacotherapy: Part 1
- 27 - Intravascular Imaging Stent Guidance: Part 1 — The Basics
- 28 - Left Atrial Appendage Closure: Part 1 — LAA Closure: Current Status and Future Directions
- 28 - TAVR Indications and Complications
- 30 - The Left Main and Bifurcation Summit: Part 1
- 30 - Physiologic Lesion Assessment and Interventional Planning: Part 1 — Current Controversies in Coronary Physiology
- 31 - Pulmonary Hypertension and Acute and Chronic Pulmonary Emboli Therapies: Part 1
- 31 - STEMI, Cardiac Arrest, and Cardiogenic Shock: Part 1
- 32 - TCT Innovation III. TCT Shark Tank Innovation Competition
- 33 - TCT Innovation IV. Global Perspectives in MedTech Innovation II and Digital Health Care
- 33 - FDA Town Hall Meeting Part 1: Goals for 2019/2020
- 34 - The Structural Heart Disease Imaging Symposium: A Joint Session With the American Society of Echocardiography
- 35 - Belt and Road Initiative at TCT 2019: Approach to High-risk PCI (Experiences from China)
- 35 - SCAI ELM
- 36 - Japan Endovascular Treatment (JET) @ TCT
- 36 - OCT Guiding in In-Stent Restenosis (ISR), Presented by the Nordic-Baltic-British Study Group for Interventional Cardiology
- 37 - International Complex Case Session I: Featured Structural Heart Disease Cases
- 37 - International Complex Case Session II: Featured Complex Coronary Cases
- 38 - International Complex Case Session III: Featured Structural Heart Disease Cases
- 38 - Challenging Cases 1
- 41 - Challenging Cases 2
- 46 - Poster Abstracts I
- 49 - Now That I See It, I Know How To Treat It! A Hands-On OCT Skills Lab
- 49 - Physiology Simplified: A Hands-On RFR Skills Lab
- 49 - Large-Bore Access To Close: What You Want (and Need) To Know
- 49 - Now That I See It, I Know How To Treat It! A Hands-On OCT Skills Lab
- 50 - The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience
- 50 - Optimizing PCI: When to Use What in Coronary Physiology and Imaging: Case Review and Hands-On
- 50 - ROTAPRO™ for Plaque Modification and Vessel Prep
- 50 - CTO: Teaching Old Dogs New Techniques
- 50 - Streamlining the LAAC Patient Education Conversation for Allied Health Providers
- 51 - TAVR: An Interactive Experience With Sentinel CPS
- 51 - TAVR Clinic Foundations for Valve Program Coordinator New to TAVR
- 51 - TAVR Foundations for the New to TAVR Implanter
- 51 - SPYRAL HTN ON MED, OFF MED, What Next?
- 51 - The Latest in CTO PCI: Optimizing Outcomes in These Complex Patients
- 52 - Optimizing Outcomes in Patients with Bifurcation Lesions
- 52 - Access and Closure
- 52 - TEACH HRPCI
- 53 - Shock Systems of Care: Best Practices from INOVA and NCSI
- 53 - TEACH CGS
- 53 - Multimodality Imaging for Transseptal Crossing and LAAC
- 53 - Imaging for the Forgotten Valve: Techniques for Visualizing the Tricuspid
- 53 - Multimodality Imaging for Transseptal Crossing and LAAC
- 54 - Imaging for the Forgotten Valve: Techniques for Visualizing the Tricuspid
- 54 - Multimodality Imaging for Transseptal Crossing and LAAC
- 54 - Advancing Alternative Access for the Treatment of PAD and CLI
- 54 - Complications Management (Coronary Stent Retrieval)
- 55 - Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 1
- 55 - Intravascular Imaging - 1
- 56 - Natural History and Management of Mitral and Tricuspid Valve Disease - 1
- 56 - Outcomes After Primary PCI - 1
- 57 - Revascularization in Patients With Diabetes - 1
- 57 - Revascularization in the Elderly and the Frail - 1
- 57 - Stroke and Stroke Prevention
- 58 - Vascular Access and Closure in PCI - 1
- 58 - Bioresorbable Scaffolds - 1
- 59 - Drug-Eluting Stent Studies - 1
- 59 - EXCEL Trial Clinical Substudies - 1
- 60 - Imaging-Derived Physiologic Lesion Assessment - 1
- 60 - Large-Bore Vascular Access and Closure
- 61 - Natural History and Management of Mitral and Tricuspid Valve Disease - 2

- 61 - Outcomes After Primary PCI - 2
- 61 - Pacemakers and Conduction Abnormalities in Patients With TAVR - 1
- 62 - Bioresorbable Scaffolds - 2
- 62 - EXCEL Trial Clinical Substudies - 2
- 63 - Natural History and Management of Mitral and Tricuspid Valve Disease - 3
- 63 - Outcomes After Primary PCI - 3
- 64 - Pacemakers and Conduction Abnormalities in Patients With TAVR - 2
- 64 - Physiologic Lesion Assessment - 1
- 64 - Revascularization in the Elderly and the Frail - 2
- 65 - TAVR and Coronary Artery Disease - 1
- 65 - Outcomes After Primary PCI - 4
- 66 - Pacemakers and Conduction Abnormalities in Patients With TAVR - 3
- 66 - Renal Insufficiency and Contrast Nephropathy - 1
- 66 - Stent Thrombosis and Restenosis - 1
- 67 - Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 2
- 67 - Drug-Eluting Balloons and Local Drug Delivery - 1
- 68 - Drug-Eluting Stent Studies - 2
- 68 - Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 1
- 69 - Natural History and Management of Mitral and Tricuspid Valve Disease - 4
- 69 - Physiologic Lesion Assessment - 2
- 70 - Renal Insufficiency and Contrast Nephropathy - 2
- 70 - TAVR and Coronary Artery Disease - 2
- 70 - Drug-Eluting Balloons and Local Drug Delivery - 2
- 71 - Intravascular Imaging - 2
- 71 - Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 2
- 72 - Natural History and Management of Mitral and Tricuspid Valve Disease - 5
- 72 - Non-Atherosclerotic CAD (SCAD, MINOCA, etc.) - 1
- 73 - Peripheral Vascular Intervention - 1
- 73 - Ventricular Assist and Management of Cardiogenic Shock - 1
- 74 - Drug-Eluting Balloons and Local Drug Delivery - 3
- 74 - Non-Atherosclerotic CAD (SCAD, MINOCA, etc.) - 2
- 74 - PCI vs. Medical Therapy and Insights Into Trial Design
- 75 - Pulmonary Artery and Pulmonary Venous Intervention
- 75 - TAVR: Patient-Prosthesis Mismatch
- 75 - TAVR: Valve-in-Valve - 1
- 76 - Ventricular Assist and Management of Cardiogenic Shock - 2
- 76 - Vulnerable Plaques and High Risk Patients - 1

## FRIDAY, SEPTEMBER 27, 2019

- 77 - Main Arena II, Friday, Sept. 27
- 78 - Live Case Transmission Theater III, Friday, Sept. 27
- 78 - Live Case Transmission Theater IV, Friday, Sept. 27
- 79 - Metallic DES Part 2: High-risk Patients and Revascularization Failures
- 79 - PFO Closure: Evidence, Indications, and Devices
- 80 - Intravascular Imaging Stent Guidance: Part 2 — The Details
- 80 - TAVR Technology and Associated Devices
- 81 - Left Atrial Appendage Closure, Part 2: Unanswered Questions, Future Directions
- 82 - PCI Pharmacotherapy: Part 2
- 82 - TAVR Special Situations (VIV, Bicuspid, AR, Low-Flow, Other)
- 83 - The Left Main and Bifurcation Summit: Part 2
- 83 - Physiologic Lesion Assessment and Interventional Planning, Part 2: New Developments in Coronary Physiology
- 84 - Pulmonary Hypertension and Acute and Chronic Pulmonary Emboli Therapies: Part 2
- 85 - STEMI, Cardiac Arrest, and Cardiogenic Shock: Part 2
- 85 - Transcatheter Mitral Valve Repair — Beyond the MitraClip
- 86 - TCT Innovation V. Keynote Innovation Interventional Studies
- 87 - High-impact Clinical Research I: Peripheral Arterial Disease and Drug-Coated Balloons
- 88 - High-impact Clinical Research II: Management of Cardiogenic Shock
- 88 - High-impact Clinical Research III: Pharmacotherapy Strategies and Calcified Lesions
- 88 - FDA Town Hall Meeting Part 2: Hot Topics
- 89 - Cath Lab Radiation Management: In Remembrance of Charles Chambers
- 89 - Clinical Trial Design, Statistics, and Literature Interpretation: The Evidence-Based Medicine Expert — Part 1
- 90 - Detection and Treatment of Vulnerable Plaques and Vulnerable Patients: Are We There Yet?
- 90 - Diabetic Debates: Revascularization and Medical Therapies
- 91 - TCT Endovascular: Treatment of Acute Pulmonary Embolism
- 91 - TCT Endovascular and VEITH: Aortic Therapies
- 92 - Techniques and Case Studies in PFO Closure
- 92 - Transcatheter Cardiovascular Innovations in the Underserved: Current Challenges and Opportunities — Sponsored by the Association of Black Cardiologists
- 93 - Endovascular Cardiac Complications (ECC) 2019: Prevention Is The Best Treatment For Complications
- 93 - TCT India Session
- 94 - International Fellows Challenging Case Session
- 94 - International Complex Case Session IV: Coronary Thrombus Management and Other Special PCI Situations
- 95 - International Complex Case Session V: Featured Complex Coronary Cases
- 95 - International Complex Case Session VI: Featured Complex Coronary Cases
- 95 - Challenging Cases 3
- 98 - Challenging Cases 4
- 103 - Posters Abstracts II
- 106 - Physiology Simplified: A Hands-On RFR Skills Lab
- 106 - Now That I See It, I Know How To Treat It! A Hands-On OCT Skills Lab
- 107 - The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience
- 107 - Physiology Simplified: A Hands-On RFR Skills Lab
- 107 - Large-Bore Access To Close: What You Want (and Need) To Know
- 107 - ROTAPRO™ for Plaque Modification and Vessel Prep
- 107 - Complex Lesion Algorithmic Approach: Proven Devices and New Applications
- 108 - Transseptal Hands-On Training Program
- 108 - Advanced Techniques for LAAC Programs
- 108 - Transseptal Hands-On Training Program
- 108 - Who is my Potential RDN Candidate? Interactive Discussion on RDN Candidate Selection
- 108 - Optimizing Outcomes in Patients with Bifurcation Lesions
- 109 - Onyx One: Is There an Ideal Approach to PCI in the Patient at High Risk of Bleeding?
- 109 - TAVR in Bicuspid Aortic Valves
- 109 - Contemporary Considerations for TAVR Hemodynamics
- 109 - Ways to See Clearly, Guide Confidently
- 109 - Dotting the Eyes with IFR's DEFINE PCI
- 110 - Another Notch on Your Complex PCI Tool Belt — A Journey to LASER Competence
- 110 - The ULTIMATE Outcome with IVUS
- 110 - What You Need to Know Regarding the CLASP IID/IFP Pivotal Trial: Novel Mitral Repair System Currently Under Clinical Study in the US
- 111 - World Launch of the Edwards BENCHMARK Program: Improving Patient Access and Outcomes Without Compromising Safety - Consistent Outcomes, Agnostic of Volume
- 111 - Considerations for Managing TAVR and Concomitant Coronary Artery Disease (CAD) in This New World
- 111 - Be Calculated: Optimizing Preparation of Calcified Coronary Lesions
- 112 - Essential Guidewire and Microcatheter Techniques for Complex PCI

- 112 - LMCA Intervention - 1
- 112 - Left Atrial Appendage Exclusion - 1
- 113 - Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 3
- 113 - Natural History and Management of Bicuspid Aortic Valve Disease
- 114 - Outcomes After Primary PCI - 5
- 114 - Peripheral Vascular Intervention - 2
- 114 - Physiologic Lesion Assessment - 3
- 115 - Revascularization in Patients With Diabetes - 2
- 115 - Bioresorbable Scaffolds - 3
- 116 - Chronic Total Occlusions - 1
- 116 - Drug-Eluting Stent Studies - 3
- 117 - LMCA Intervention - 2
- 117 - Left Atrial Appendage Exclusion - 2
- 118 - Natural History and Management of Mitral and Tricuspid Valve Disease - 6
- 118 - Outcomes After Primary PCI - 6
- 118 - Peripheral Vascular Intervention - 3
- 119 - Alcohol Septal Ablation/HOCM
- 119 - Cath Lab of the Future - 1
- 120 - Chronic Total Occlusions - 2
- 120 - Rotational and Orbital Atherectomy, Cutting/Scoring Balloons, and Lithotripsy
- 121 - TAVR: Clinical Access and Cost-Effectiveness - 1
- 121 - TAVR: Valve-in-Valve - 2
- 121 - Treatment of Congenital Heart Diseases - 1
- 122 - Vascular Access and Closure in PCI - 2
- 122 - Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 3
- 123 - Bioresorbable Scaffolds - Metallic
- 123 - Chronic Total Occlusions - 3
- 124 - Coronary Bifurcation Intervention
- 124 - Imaging-Derived Physiologic Lesion Assessment - 2
- 124 - SVG Intervention
- 125 - TAVR: Clinical Access and Cost-Effectiveness - 2
- 125 - TAVR vs. SAVR and TAVR vs. TAVR - 1
- 126 - Atrial Fibrillation in Patients Undergoing Catheter-Based Intervention
- 126 - Intravascular Imaging - 3
- 127 - Out-of-Hospital Arrest
- 127 - Peripheral Vascular Intervention - 4
- 127 - Resting Physiologic Indices
- 128 - TAVR Comorbidities and Complications - 1
- 128 - Treatment of Congenital Heart Diseases - 2
- 129 - Vascular Access for TAVR - 1
- 129 - Cath Lab of the Future - 2
- 130 - Coronary Perforation and Cardiac Tamponade
- 130 - Interventional Heart Failure
- 130 - Stent Thrombosis and Restenosis - 2
- 131 - Vascular Access for TAVR - 2
- 131 - Ventricular Assist and Management of Cardiogenic Shock - 3

## SATURDAY, SEPTEMBER 28, 2019

- 132 - Main Arena III, Saturday, Sept. 28
- 132 - Live Case Transmission Theater V, Saturday, Sept. 28
- 133 - Live Case Transmission Theater VI, Saturday, Sept. 28
- 133 - Hypertension Therapies: Renal Denervation and Beyond
- 134 - Treatment of Coronary Calcification
- 135 - Tricuspid Regurgitation: Evolving Concepts and Technologies
- 136 - The CTO Summit: Part 1
- 137 - Coronary Drug-Coated Balloons and Bioresorbable Scaffolds
- 137 - Interventional Heart Failure and Hemodynamic Support: Chronic Therapies
- 138 - The CTO Summit: Part 2
- 139 - Transcatheter Mitral Valve Replacement
- 140 - Mitral Trial Design, Anticoagulation, Imaging, and More
- 141 - Radial and Femoral Access and Intervention
- 141 - High-Impact Clinical Research IV: Adjunctive Pharmacotherapy Studies
- 142 - High-Impact Clinical Research V: Transcatheter Aortic Valve Replacement
- 142 - High-Impact Clinical Research VI: High-Risk Disease and Novel Therapies
- 142 - Fascinating Lectures
- 143 - High-Impact Clinical Research VII: PCI With Physiologic Guidance
- 143 - High-Impact Clinical Research VIII: Valve Therapies and Non-Cardiac Surgery
- 143 - High-Impact Clinical Research IX: CAD Diagnosis and Complex PCI Strategies
- 144 - FDA University at TCT
- 145 - Balloon Pulmonary Angioplasty for Chronic Thromboembolic Pulmonary Hypertension: Center Expertise and Illustrative Case Demonstrations
- 145 - Chronic Kidney Disease: Preventing and Treating Contrast Nephropathy
- 145 - Clinical Trial Design, Statistics, and Literature Interpretation: The Evidence-Based Medicine Expert — Part 2
- 146 - Combined Structural Interventions: Two Valves, Valve and LAAO, and More
- 146 - Complex Adult Congenital Intervention
- 147 - Hypertrophic Cardiomyopathy and Septal Ablation
- 147 - Spontaneous Coronary Artery Dissection: Novel Insights on Diagnosis and Treatment
- 148 - TCT Endovascular: Neuro Interventions for Stroke and Carotid Stenosis
- 148 - Challenges and Developments in TAVI Procedure: Argentinean and French Experience. Presented by Groupe Atherome et Cardiologie Interventionnelle (GACI) and Colegio Argentino de Cardioangiología Intervencionistas (CACI)
- 149 - CSI-NIC India Session @TCT
- 149 - International Complex Case Session VII: Featured CHIP and Other Special PCI Situations
- 149 - International Complex Case Session VIII: A Potpourri of Complex Interventional Cases I
- 150 - International Complex Case Session IX: A Potpourri of Complex Interventional Cases II
- 150 - Highest Graded Abstracts of TCT 2019
- 151 - Challenging Cases 5
- 156 - Challenging Cases 6
- 160 - The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience
- 161 - Large-Bore Access To Close: What You Want (and Need) To Know
- 161 - Now That I See It, I Know How To Treat It! A Hands-On OCT Skills Lab
- 161 - Large-Bore Access To Close: What You Want (and Need) To Know
- 161 - Physiology Simplified: A Hands-On RFR Skills Lab
- 161 - Optimizing PCI: When to Use What in Coronary Physiology and Imaging: Case Review and Hands-On
- 162 - Complex Lesion Algorithmic Approach: Proven Devices and New Applications
- 162 - TAVR: An Interactive Experience With Sentinel CPS
- 162 - Managing the Patient at High Risk of Bleeding: Onyx One; an Evidence Based Approach
- 162 - Optimizing Outcomes in Patients with Bifurcation Lesions
- 162 - Lifetime Management of the Low Risk TAVR Patient
- 163 - How Things Work - The Science of RDN
- 163 - Tips, Tools, and Techniques for Successful Post-TAVR PCI
- 163 - Treatment of Cardiogenic Shock
- 163 - Complex Lesion Management in SFA Intervention
- 164 - Tips and Tricks for CHIP/Complex PCI
- 165 - CTO Masters Operator Workshop @ TCT 2019 (PART 1)
- 165 - CTO Masters Operator Workshop @ TCT 2019 (PART 2)
- 165 - Cinching the Mitral Apparatus to Treat FMR: Carillon Mitral Contour System Hands-On Training
- 166 - Bioresorbable Scaffolds - 4

167 - Drug-Eluting Stent Studies - 4  
167 - Hemodynamic Support During PCI  
167 - Intravascular Imaging - 4  
168 - Novel Aortic Devices and Approaches  
168 - Pre-Clinical Models and Studies  
169 - Renal Denervation  
169 - Vulnerable Plaques and High-Risk Patients - 2  
170 - Detection and Closure of Paravalvular Leaks  
170 - Drug-Eluting Stent Studies - Biodegradable Polymers  
171 - Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 4  
171 - PCI and Bleeding Complications  
171 - TAVR Comorbidities and Complications - 2  
172 - TAVR vs. SAVR and TAVR vs. TAVR - 2  
172 - Vascular Access and Closure in PCI - 3  
173 - Vulnerable Plaques and High Risk Patients - 3  
173 - Age and Gender and Primary PCI  
174 - Biomarkers and Outcomes  
174 - Cath Lab of the Future - 3  
174 - Coronary Artery Surgery  
175 - Mortality After PCI  
175 - TAVR Comorbidities and Complications - 3  
176 - TAVR vs. SAVR and TAVR vs. TAVR - 3  
176 - Vascular Access and Closure in PCI - 4  
177 - Chronic Total Occlusions - 4  
177 - TAVR Comorbidities and Complications - 4  
177 - TAVR Leaflet Thickening and Thrombosis

**SUNDAY, SEPTEMBER 29, 2019**

178 - Main Arena IV, Sunday, Sept. 29

# WEDNESDAY, SEPTEMBER 25, 2019

## TCT INNOVATION I GLOBAL PERSPECTIVES IN MEDTECH AND EMERGING TECHNOLOGICAL TRENDS

### TCT Innovation I Global Perspectives in MedTech and Emerging Technological Trends

Innovation

WEDNESDAY, SEPTEMBER 25, 2019

8:00 AM - 12:00 PM

Innovation & Keynote Theater

8:00 AM - 9:20 AM

#### Global Perspectives in MedTech Innovation I

8:00 AM **Session I: Challenges and Opportunities in MedTech Innovation**

*Moderators: Mark A. Turco*

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*Discussants: Andrew Cleeland, Laura Mauri, Ian T. Meredith, Julio C. Palmaz, Campbell Rogers, Paul G. Yock*

8:00 AM **The Evolution of the MedTech Industry**

8:28 AM **The Globalization of MedTech Innovation**

8:54 AM **Value Based Health Care Delivery**

8:54 AM **Value Based Health Care: Reflections on a Frequently Quoted but Poorly Validated Concept**  
*Lecturer: Laura Mauri*

9:02 AM **It is all About the Data Importance of Digital Intelligence in the Development of Useful Predictive Models**  
*Lecturer: Campbell Rogers*

9:10 AM **Moderated Panel Discussion**  
*Lecturer: Campbell Rogers*

9:20 AM - 12:00 PM

#### Emerging Technological Trends I

9:20 AM **Session II: Intravascular Imaging and Physiologic Lesion Assessment**

*Moderators: Niels R. Holm, Evelyn Regar*

*Moderators: Niels R. Holm, Evelyn Regar*  
*Moderators: Niels R. Holm, Evelyn Regar*  
*Discussants: Daniel S. Berman, Hector M. Garcia-Garcia, Paul JL Ong, Natalia Pinilla-Echeverri, Bo Xu*

9:20 AM **Keynote Lecture: Invasive Coronary Lesion Assessment: Remaining Needs and Opportunities**  
*Justin Davies*  
*Lecturer: Justin E. Davies*

9:28 AM **Featured Technological Trends**

9:28 AM **OCT Based FFR: Integration of Coronary Imaging and Physiology**

*Lecturer: Shengxian Tu*

9:35 AM **An Automatic Diagnostic System of Coronary Artery Lesions Using OCT Imaging**

*Lecturer: Atefeh Abdolmanafi*

9:42 AM **First In Human Evaluation of Novel Intravascular Ultrasound and Optical Coherence Tomography System**

*Lecturer: Elie Akl*

9:49 AM **Development of an Integrated OCT/NIRS Diagnostic Catheter SpectraWave**

*Lecturer: James E. Muller*

9:56 AM **Moderated Panel Discussion**

*Lecturer: James E. Muller*

10:03 AM **Session III: Advanced Cardiac Imaging and Procedural Guidance**

10:03 AM **Keynote Lecture: Advanced Cardiac Imaging for Procedural Planning and Guidance: Making the Complex Look Simple**

*Lecturer: Patrick W. Serruys*

10:12 AM **Featured Technological Trends**

*Lecturer: Patrick W. Serruys*

10:40 AM **Session IV: Cath Lab of the Future I: Intelligent Interfaces ARVR Robotics and Tele Manipulation**

*Moderators: Jean FAJADET, Ran Kornowski*

*Moderators: Jean FAJADET, Ran Kornowski*  
*Moderators: Jean FAJADET, Ran Kornowski*  
*Discussants: Arif Al Nooryani, Philipp Blanke, Elchanan Bruckheimer, James K. Min, Jagat Narula, Giora Weisz*

10:40 AM **Keynote Lecture: Emerging Cath Lab Technological Trends that will Impact the Future of Cardiovascular Medicine**

*Lecturer: Louis Aaron Cannon*

10:48 AM **Featured Technological Trends**

*Lecturer: Louis Aaron Cannon*

11:23 AM **Session V: Cath Lab of the Future II: Radiation Protection Technologies**

*Moderators: Mirvat Alasnag, Gerald S. Werner*

*Moderators: Mirvat Alasnag, Gerald S. Werner*  
*Moderators: Mirvat Alasnag, Gerald S. Werner*  
*Discussants: Habib Gamra, Ryan D. Madder, Mladen I. Vidovich, Azfar G. Zaman*

11:23 AM **Keynote Lecture: Radiation Protection Technologies: Reconciling the Safety Mission with Practical Realities**

*Lecturer: Lloyd W. Klein*

11:30 AM **Featured Technological Trends**

*Lecturer: Lloyd W. Klein*

## TCT INNOVATION II. EMERGING TECHNOLOGICAL TRENDS II

### TCT Innovation II. Emerging Technological Trends II

Innovation

WEDNESDAY, SEPTEMBER 25, 2019

2:00 PM - 5:00 PM

Innovation & Keynote Theater

2:00 PM - 2:40 PM

**Session VI: Cath-Lab of the Future III: Robotics in Cardiovascular Interventional Medicine**

- 2:00 PM **Facing the Realities of Medical Robotics: Validation Training and Approval Pathways**  
*Lecturer: Jean Bismuth*
- 2:08 PM **Tele Robotics in Stroke and AMI Intervention: Afar is Not Far Reaching Anymore**  
*Lecturer: Louis Aaron Cannon*
- 2:16 PM **Moderated Panel Discussion**
- 2:24 PM **Keynote Lecture: Robotics in Interventional CV Procedures: Lessons Learned from the Surgical Field**  
*Lecturer: Fred Moll*
- 2:32 PM **Impact of Artificial Intelligence and Advanced Imaging Integration in Robotic System Development and Clinical Integration**

2:40 PM - 3:15 PM

**Session VII: The Structural Heart Revolution I: Aortic Valve Intervention and Ancillary Solutions I**

*Moderators: Torsten P. Vahl, Nicolas M. Van Mieghem*  
*Discussants: Samer Abbas, Stephen J.D. Brecker, Elvin Kedhi, Ruediger S. Lange, Axel Linke, Oscar A. Mendiz*

- 2:40 PM **Featured Technological Trends**
- 2:40 PM **Innovative Protected Transcatheter Aortic Valve Calcium Debridement System**  
**AorticLab**  
*Lecturer: filippo scalise*
- 2:47 PM **Full Arch Cerebral Embolic Protection of the Brain Point Guard During Cardiovascular Procedures**  
*Lecturer: filippo scalise*
- 2:54 PM **A Novel Left Transradial Cerebral Protection System for TAVR The ProtEmbo System**  
*Lecturer: Karl von Mangoldt*
- 3:01 PM **A New Device to Secure and Optimize Trans Heart Valve Interventions THV And Complex PCI Electroducer**  
*Lecturer: Benjamin Faurie*
- 3:08 PM **Moderated Panel Discussion**  
*Lecturer: Benjamin Faurie*

3:15 PM - 3:57 PM

**Session VIII: The Structural Heart Revolution II: Aortic Valve Intervention and Ancillary Solutions II**

- 3:15 PM **Single Piece 3D Aortic Valve Leaflet Architecture: A Novel Approach to the Development of Highly Durable TAVR Device Admedus**  
*Lecturer: Kiran Bhirangi*
- 3:22 PM **Foldax Tria: First In Human Implant of a Totally Synthetic Polymeric Aortic Valve**  
*Lecturer: Steven J. Yakubov*
- 3:29 PM **Total Embolic Protection: The Emboliner Embolic Protection Catheter Early Clinical Results**  
*Lecturer: Scott Russell*
- 3:36 PM **A Novel Designed Temporary Disposable Pacing Catheter That Can Be Deployed Swiftly to Sense and Pace the Atrium and Ventricle in Dual Chamber Synchrony**  
*Lecturer: Christian Marin y Kall*
- 3:43 PM **Extracardiac Pacing: An Entirely Novel Approach to TAVR related Arrhythmias and Beyond AtacorCorvita**

*Lecturer: Martin Burke*

3:50 PM **Moderated Panel Discussion**

3:57 PM - 4:32 PM

**Session IX: The Structural Heart Revolution III: Mitral, Tricuspid and Other SHD Technologies**

*Moderators: Alexandre Abizaid, Steven L. Almany*  
*Discussants: Steven F. Bolling, James S. Gammie, Mayra Guerrero, Philipp Lurz, Francesco Maisano, Josep Rodés-Cabau*

3:57 PM **Featured Technological Trends**

- 3:57 PM **Novel Percutaneous Trans Jugular Transseptal Annuloplasty Cinching System to Treat Mitral and Tricuspid Regurgitation**  
*Lecturer: Jim E. Coleman*
- 4:04 PM **Saturn TMVR: Novel Design Benefits Implant Procedure Pre Clinical Outcomes**  
*Lecturer: Paolo Denti*
- 4:11 PM **Transcatheter Treatment of Secondary Tricuspid Regurgitation with the novel MIATM Percutaneous Annuloplasty System**  
*Lecturer: Mathew Williams*
- 4:18 PM **Mechanism of Action and Early Clinical Results of a Novel Bi Caval Valve System TricValve**  
*Lecturer: Hans R. Figulla*
- 4:25 PM **Moderated Panel Discussion**  
*Lecturer: Hans R. Figulla*

4:32 PM - 5:00 PM

**Session X: The Structural Heart Revolution IV: Other SHD Technologies**

- 4:32 PM **Second Generation LAA Occlusion: Single Size and Conforming to a Broad Range of Anatomies Conformal Medical**  
*Lecturer: William A. Gray*
- 4:39 PM **A Dedicated Paravalvular Leak Occluder Device with Patient Customization Possibility**  
*Lecturer: Wojtek Wojakowski*
- 4:46 PM **HCM Using Transcutaneous RF Ablation of The Basal Septum: The Liwen Procedure**  
*Lecturer: Liwen Liu*
- 4:53 PM **Moderated Panel Discussion**

## TCT ENDOVASCULAR: AN ALLIANCE PARTNER WITH THE VEITH SYMPOSIUM

TCT Endovascular: An Alliance Partner With the Veith Symposium

Vascular

WEDNESDAY, SEPTEMBER 25, 2019

8:00 AM - 6:00 PM

Room 156/158

8:00 AM - 9:58 AM

**Session I: CTO Crossing — State of the Art**

*Moderators: Michael R. Jaff, Sahil A. Parikh*  
*Discussants: Gary M. Ansel, Tony Das, Jun Li, D. Christopher Metzger, Jihad A. Mustapha, Peter A. Schneider*

- 8:00 AM **Identifying Unmet Needs in Peripheral CTO: Cases From the Field**  
Lecturer: *Ehrin J. Armstrong*
- 8:08 AM **Roundtable Discussion With Audience QA**
- 8:13 AM **Development of Peripheral CTO Algorithms**  
Lecturer: *Subhash Banerjee*
- 8:23 AM **Aorto Iliac CTO Crossing: Antegrade Retrograde and Re Entry**  
Lecturer: *Steve Henao*
- 8:33 AM **Common Femoral CTO: Knives Needles or Both**  
Lecturer: *Bryan T. Fisher*
- 8:43 AM **EVUS Guidance for CTO Crossing**  
Lecturer: *Mohammad Mehdi Ansari*
- 8:53 AM **Roundtable Discussion With Audience QA**
- 9:08 AM **CTO Crossing 1: Case Examples of Wire Escalation**  
Case Presenter: *Brian G. DeRubertis*
- 9:18 AM **CTO Crossing 2: Case Examples of Dedicated Devices**  
Case Presenter: *George L. Adams*
- 9:28 AM **CTO Crossing 3: Case Examples of Antegrade Access and Closure**  
Case Presenter: *Craig M. Walker*
- 9:38 AM **CTO Crossing 4: Case Examples Retrograde Access and Closure**  
Case Presenter: *Tak W. Kwan*
- 9:48 AM **CTO Crossing 5: Case Examples of Below the Ankle Access and Pedal Loop Reconstruction**  
Case Presenter: *Mariano Palena*

9:58 AM - 12:02 PM

**Session II: Revascularization Strategies in CLI — State of the Art**

Moderators: *Andrew Bradbury* Discussants: *Danielle Bajakian, Bryan T. Fisher, Prakash Krishnan, Mariano Palena, Bret N. Wiechmann*

- 9:58 AM **Featured Lecture: CLI Epidemiology and Clinical Burden**  
Lecturer: *Schuyler Jones*
- 10:08 AM **Roundtable Discussion With Audience QA**
- 10:13 AM **Surgical Therapy: Indications for Surgery First for CLI**  
Lecturer: *Peter A. Schneider*
- 10:21 AM **What Is Optimal Medical Therapy for CLI Can We Move the Needle With Drugs Alone**  
Lecturer: *Marc Bonaca*
- 10:29 AM **Modern Outcomes for Rutherford 6 Patients: How to Avoid Primary Amputation**  
Lecturer: *Peter A. Schneider*
- 10:37 AM **Clinical Trial Updates: BEST CLI**  
Lecturer: *Matthew T. Menard*
- 10:45 AM **Clinical Trial Updates: BASIL 2 and BASIL 3**  
Lecturer: *Andrew Bradbury*
- 10:53 AM **Clinical Trial Updates: Deep Vein Arterialization**  
Lecturer: *Steven Kum*
- 11:01 AM **Clinical Trial Updates: BTK Tacks Scaffolds and Drugs**  
Lecturer: *Ehrin J. Armstrong*

- 11:09 AM **CLI Diagnostics and Real Time Guidance: Whats New in 2019**  
Case Presenter: *Matthew T. Menard*

- 11:17 AM **Roundtable Discussion With Audience QA**
- 11:32 AM **Complex CLI Case Review 1: My Best Case From the Last Year**  
Case Presenter: *Bret N. Wiechmann*

- 11:42 AM **Complex CLI Case Review 2: My Toughest Case From the Last Year**  
Case Presenter: *Peter A. Soukas*

- 11:52 AM **Complex CLI Case Review 3: What Is Possible in the OBL**  
Case Presenter: *Eric J. Dippel*

12:02 PM - 1:10 PM

**Session III: Symposium on Peripheral Drug-Eluting Technologies**

Moderators: *Juan F. Granada, Sahil A. Parikh* Discussants: *Elazer R. Edelman, Aloke Finn, William A. Gray, Krishna J. Rocha-Singh, Yoshimitsu Soga, Thomas Zeller*

- 12:02 PM **An Unforeseen Setback: Practicing in the 1990s Again**  
Lecturer: *Michael R. Jaff*

- 12:10 PM **Drug Eluting Devices: Summary Level Meta Analysis**  
Lecturer: *Konstantinos Katsanos*

- 12:22 PM **New Data Regarding Drug Eluting Technologies**

- 12:32 PM **FDA Perspective and Revised Guidance**  
Lecturer: *Donna Buckley*

- 12:40 PM **Industry Perspective on Drug Eluting Technologies Guidance**  
Lecturer: *Jason R. Weidman*

- 12:48 PM **Roundtable Discussion With Audience QA**

1:10 PM - 2:44 PM

**Session IV: TCT/VEITH Lower Extremity Session**

Moderators: *Enrico Ascher, Frank J. Veith* Discussants: *Gary M. Ansel, Marianne Brodmann, Kenneth Ouriel, Andrej Schmidt, Peter A. Schneider, Craig M. Walker*

- 1:10 PM **Fusion Imaging Techniques for Iliac and Lower Extremity Procedures: Reducing Radiation Exposure and Contrast Material and Providing Better Guidance**  
Lecturer: *Yann Gouëffic*

- 1:16 PM **Primary and Secondary Repairs of Popliteal Aneurysms Using Duplex Guidance Alone: Technique and Results**  
Lecturer: *Enrico Ascher*

- 1:22 PM **Is the Supera Interwoven Stent Better Than Other Stents and Open Endarterectomy for Common Femoral Lesions**  
Lecturer: *Lawrence A. Garcia*

- 1:28 PM **Distal Embolic Protections Are Expensive and Have Inherent Risks: When Are They Absolutely Necessary**  
Lecturer: *Peter A. Schneider*

- 1:34 PM **A Comparison of Multiple Short Stents With Long Stents for Femoral Popliteal Lesions: Results of the LOCOMOTIVE Trial of VascuFlex System From B. Braun**  
Lecturer: *Thomas Zeller*

- 1:40 PM **The Value of Local Anesthesia in the Adventitia of Arteries During Interventions: How and When to Do It**



Lecturer: Andrej Schmidt

- 1:46 PM **Roundtable Discussion With Audience QA**
- 1:54 PM **DCBs for Infragaunal Arterial Occlusive Disease With or Without Adjunctive Techniques Are Better Than Primary Stenting**  
Lecturer: Brian G. DeRubertis
- 2:00 PM **The 10 Endo Strategies I Use to Succeed in Repairing the Most Complex Lesions in the Lower Extremity Arterial Bed**  
Lecturer: Dierk Scheinert
- 2:06 PM **Updates and Technique of Percutaneous Transvenous Arterial Femoral Popliteal Bypass Procedure**  
Lecturer: Jihad A. Mustapha
- 2:12 PM **Hybrid Venous Arterialization: Patient Selection and Techniques**  
Lecturer: Matthew T. Menard
- 2:18 PM **Newest Stem Cell Therapies are Effective in Treating Lower Extremity Ischemia**  
Lecturer: Marianne Brodmann
- 2:24 PM **Debate: Extensive Foot Necrosis Should Be Managed With a Single Vein Bypass Operation**  
Lecturer: Danielle Bajakian
- 2:30 PM **Debate: Even Extensive Foot Gangrene Limited to the Metatarsals Can Successfully Be Treated by Endovascular Techniques**  
Lecturer: Craig M. Walker
- 2:36 PM **Roundtable Discussion With Audience QA**

2:44 PM - 4:50 PM

#### Session V: Calcium, Debulking, and Vessel Preparation

Moderators: Ehrin J. Armstrong, Robert A. Lookstein  
Discussants: Mohammad Mehdi Ansari, Robert Earl Beasley, MD, FSIR, FSCAI, George S. Chrysan, Philip Green, Beau Hawkins, Andrew J. Klein

- 2:44 PM **Severe Calcification: Definitions and Outcomes**  
Lecturer: Jeffrey J. Popma
- 2:54 PM **This Vessel Is a Rock: Extreme Calcification Case Examples**  
Case Presenter: Andrej Schmidt
- 3:04 PM **Debulking Strategies Above the Knee: Cut Spin Vaporize When and Which Technique**  
Lecturer: Ehrin J. Armstrong
- 3:14 PM **Intravascular Lithotripsy for Calcium: When Does It Work With Case Examples**  
Case Presenter: Peter A. Soukas
- 3:22 PM **Below Knee Debulking Options: Case Examples of When I Wish I Had and Hadnt Used it**  
Case Presenter: George L. Adams
- 3:30 PM **Where Have All the Scaffolds Gone and Will They Come Back**  
Lecturer: Sahil A. Parikh
- 3:38 PM **Specialty Balloons in Calcium: Do They Work And if so When**  
Lecturer: Mahmood K. Razavi
- 3:46 PM **Roundtable Discussion With Audience QA**
- 3:54 PM **Taking the Scenic Route: PQ Bypass for Extreme SFA Lesions**

Lecturer: Ehrin J. Armstrong

- 4:02 PM **Imaging for Calcium: Does It Make a Difference With Case Examples**  
Case Presenter: Fabrizio Fanelli
- 4:10 PM **Optimal BTK POBA: Is There Science to the Art**  
Lecturer: Khusrow Niazi
- 4:18 PM **In Stent Restenosis: How Does Atherectomy Figure in These Cases**  
Case Presenter: Nicolas W. Shammass
- 4:26 PM **Debate: Atherectomy in Noncalcified Lesions Improves Outcomes**  
Lecturer: John Winscott
- 4:34 PM **Debate: Atherectomy in Noncalcified Lesions Does Not Improve Outcomes**  
Lecturer: Christopher J. White
- 4:42 PM **Roundtable Discussion With Audience QA**

4:50 PM - 6:00 PM

#### Session VI: Toughest Cases of the Year

Moderators: Brian G. DeRubertis, Dierk Scheinert  
Discussants: Ehrin J. Armstrong, J. Michael Bacharach, Robert Earl Beasley, MD, FSIR, FSCAI, Osamu Iida, Matthew T. Menard, Rahul S. Patel

- 4:50 PM **My Toughest SFA Case of the Year**  
Case Presenter: Andrej Schmidt
- 5:00 PM **My Toughest BTK Case of the Year**  
Case Presenter: Thomas Zeller
- 5:10 PM **My Toughest Hybrid Case of the Year**  
Case Presenter: Bryan T. Fisher
- 5:20 PM **My Toughest CLI Case of the Year**  
Case Presenter: Marco Manzi
- 5:30 PM **My Toughest Alternative Access Case of the Year**  
Case Presenter: Robert A. Lookstein
- 5:40 PM **My Worst Complication of the Year**  
Case Presenter: Peter A. Soukas
- 5:50 PM **The TCTVEITH Alliance Partnership and TCT 2019 Endovascular: Final Thoughts**  
Lecturer: Sahil A. Parikh, Frank J. Veith

## CARDIOVASCULAR PROFESSIONALS (CVP) COURSE: 28TH ANNUAL CARDIOVASCULAR NURSE AND TECHNOLOGIST SYMPOSIUM

CardioVascular Professionals (CVP) Course: 28th Annual  
Cardiovascular Nurse and Technologist Symposium

WEDNESDAY, SEPTEMBER 25, 2019

8:00 AM - 6:00 PM

Room 152/154

8:00 AM - 11:00 AM

RCIS Review Basic and Advanced Topics

8:00 AM **Session I. RCIS Introductory Session Cardiac Catheterization and**

**PCI: Foundational Knowledge for the Cath Lab**

*Moderators: Jeff Davis, Tom Maloney*

*Moderators: Jeff Davis, Tom Maloney*  
*Moderators: Jeff Davis, Tom Maloney*  
*Discussants: Morton J. Kern, Robert Kutys, timothy J. Iapp, Michael J. Lim, George W. Vetrovec*

8:00 AM **Case Introduction: A Patient With Atypical Chest Pain and Shortness of Breath**  
*Case Presenter: George W. Vetrovec*

8:05 AM **Nursing Assessment of the Patient**  
*Lecturer: Patricia Keegan*

8:10 AM **Right Heart Catheterization Anatomy and Hemodynamics Matched With Interactive Cadaver Heart Dissection**  
*Lecturer: Robert Kutys, timothy J. Iapp*

8:20 AM **Left Heart Catheterization Anatomy and Angiography Matched With Interactive Cadaver Heart Dissection**  
*Lecturer: Robert Kutys, George W. Vetrovec*

8:30 AM **Devices and Imaging for PCI Wires Balloons Stents FFR Imaging**  
*Lecturer: Morton J. Kern*

8:45 AM **PCI Stent Deployment and Dilation Strategies and How I Diagnosed and Treated My Patient**  
*Lecturer: George W. Vetrovec*

9:00 AM **Session II. RCIS Advanced Session: Interventional Hemodynamics of the Aortic Valve**

*Moderators: Jeff Davis, Tom Maloney*

*Moderators: Jeff Davis, Tom Maloney*  
*Moderators: Jeff Davis, Tom Maloney*  
*Discussants: Hemal Gada, Paul D. Mahoney, Tim R. Martin*

9:00 AM **Case Introduction: Symptoms Suggestive of Aortic Stenosis**  
*Lecturer: George W. Vetrovec*

9:05 AM **Fundamental Knowledge: Aortic Valve Anatomy With Interactive Cadaver Heart Dissection**  
*Lecturer: Robert Kutys, Tim R. Martin*

9:20 AM **Hemodynamics of Aortic Stenosis and Valve Calculations**  
*Lecturer: Jeff Davis*

9:35 AM **Interpretation of Hemodynamic CT and Echo Data for TAVR Clinical Decision Making**  
*Lecturer: Paul D. Mahoney*

9:50 AM **Transcatheter Aortic Valve Replacement and How I Treated My Patient**  
*Lecturer: Paul D. Mahoney*

10:00 AM **Session III. RCIS Advanced Session: Interventional Hemodynamics of the Mitral and Tricuspid Valve**

*Moderators: Jeff Davis, Tom Maloney*

*Moderators: Jeff Davis, Tom Maloney*  
*Moderators: Jeff Davis, Tom Maloney*  
*Discussants: Martina Kelly Kelly Speight, Brij Maini, Tim R. Martin*

10:00 AM **Case Introduction: Symptoms Suggestive of Mitral Regurgitation**  
*Lecturer: Paul D. Mahoney*

10:05 AM **Fundamental Knowledge: Mitral and Tricuspid Valve Anatomy With Interactive Cadaver Heart Dissection**  
*Lecturer: Robert Kutys*

10:20 AM **Hemodynamics of Mitral and Tricuspid Regurgitation**  
*Lecturer: Tim R. Martin*

10:35 AM **Interpretation of Hemodynamic and Echo Data for TMVR Clinical Decision Making**

*Lecturer: Tim R. Martin*

10:50 AM **Transcatheter Mitral Valve Repair and Replacement and How I Treated my Patient**  
*Lecturer: Tim R. Martin*

11:00 AM - 1:15 PM

**Comprehensive Interventional Practice: Case-Based Learning**

11:00 AM **Session I. Coronary Hot Topics**

*Moderators: Amisha Patel, Vivian Tamara*

*Moderators: Amisha Patel, Vivian Tamara*  
*Moderators: Amisha Patel, Vivian Tamara*  
*Discussants: Darshan Doshi, Khady Fall, Michelle Lindquist, Amirali Masoumi*

11:00 AM **Introduction by Moderator**  
*Lecturer: Amisha Patel*

11:05 AM **How To Get a Cath Room Ready For a Complex PCI**  
*Lecturer: Michelle Lindquist*

11:15 AM **How to Decide on Hemodynamic Support Based on the Right Heart Cath Numbers. What Does Syntax Score Mean**  
*Lecturer: Amirali Masoumi*

11:20 AM **How IVUS Impacts Decision Making in PCI**  
*Lecturer: Khady Fall*

11:30 AM **What is DK Crush and How Did We Get the Coronaries Ready for Stenting**  
*Lecturer: Darshan Doshi*

11:40 AM **Post Procedure Assessment of a Complex PCI**  
*Lecturer: Michelle Lindquist*

11:43 AM **Roundtable Discussion With Audience QA**  
*Lecturer: Michelle Lindquist*

11:45 AM **Session II. Structural Hot Topics**

*Moderators: Marian C. Hawkey, Ashley Koppenheffer*

*Moderators: Marian C. Hawkey, Ashley Koppenheffer*  
*Moderators: Marian C. Hawkey, Ashley Koppenheffer*  
*Discussants: Elizabeth M. Perpetua, Christina Tan, Janet Fredal Wyman*

11:45 AM **COAPT Partner 2 and Evolut Low Risk Trial Synopsis and What They Mean Moving Forward**  
*Lecturer: Elizabeth M. Perpetua*

11:55 AM **Case Presentation: Complex Structural Heart Intervention With Multiple Valves and Hemodynamic Support**  
*Lecturer: Elizabeth M. Perpetua*

12:10 PM **Novel Access Routes for Structural Heart Intervention: Transcarotid Transcaval Transaxillary Etc.**  
*Lecturer: Janet Fredal Wyman*

12:20 PM **Upcoming Therapies: Accucinch TMVR Tricuspid Clips Vena Cava Valves for Tricuspid Disease**  
*Lecturer: Russell A. Brandwein*

12:30 PM **Session III. Peripheral Hot Topics**

*Moderators: Michelle Maier, Sahil A. Parikh*

*Moderators: Michelle Maier, Sahil A. Parikh*  
*Moderators: Michelle Maier, Sahil A. Parikh*  
*Discussants: Philip Green, Jihad A. Mustapha, Sanjum S. Sethi*

12:30 PM **An Introduction to Critical Limb Ischemia**  
*Lecturer: Sahil A. Parikh*

12:35 PM **What Are My Options to Treat CLI**  
*Lecturer: Philip Green*



- 12:45 PM **Alternative Access for the Treatment of Endovascular Disease Including Radial to Peripheral and Pedal Access**  
*Lecturer: Jihad A. Mustapha*
- 12:55 PM **Varicose Veins and How to Treat Them**  
*Lecturer: Sanjum S. Sethi*
- 1:10 PM **Roundtable Discussion With Audience QA**  
*Lecturer: Sanjum S. Sethi*

1:15 PM - 3:00 PM

**Lunch Sponsored by Medtronic and Cath Lab Honorees Over the Year**

- 1:15 PM **Lunch Session Check in**
- 1:30 PM **Session I. Sponsored Lunch and Cath Lab Honorees**
- 1:30 PM **Cath Lab Honorees**  
*Lecturer: Sanjum S. Sethi*
- 1:35 PM **The Year in Review: How the Science Has Impacted Nurse Technologists in the Interventional Field Video**  
*Lecturer: Sanjum S. Sethi*
- 1:40 PM **Keynote Speech: The Role of the Heart Team and the Impact of This Last Years Clinical Findings on Clinical Practice**  
*Lecturer: George D. Dangas*
- 2:00 PM **Your Mother Has AS Open Mic With the Heart Team**  
*Moderators: Nisha Jhalani, Ajay J. Kirtane*  
*Moderators: Nisha Jhalani, Ajay J. Kirtane*  
*Moderators: Nisha Jhalani, Ajay J. Kirtane*  
*Discussants: Wayne B. Batchelor, Kendra J. Grubb*
- 2:30 PM **Break**

3:00 PM - 6:00 PM

**Hands-On Experience**

- 3:00 PM **Hands on High Impact Training: Coronary Sessions Three 60 Minute Rotations**  
*Faculty: Vivian Tamara*
- 3:00 PM **Hands on High Impact Training: Structural Heart Sessions Three 60 Minute Rotations**  
*Faculty: Marian C. Hawkey, Martina Kelly Kelly Speight*
- 3:00 PM **Hands on High Impact Training: Peripheral Sessions Three 60 Minute Rotations**  
*Faculty: Jeff Davis, Tom Maloney, Julie Logan Sands*

## COLLABORATORS IN TAVR: A MEDTRONIC COURSE IN COLLABORATION WITH CRF FOR NEW TO TAVR HEART TEAMS

**Collaborators In TAVR: A Medtronic Course in Collaboration With CRF for New to TAVR Heart Teams**

WEDNESDAY, SEPTEMBER 25, 2019

7:15 AM - 5:00 PM  
Room 155/157

7:15 AM - 8:00 AM

**Registration & Continental Breakfast**

8:00 AM - 8:20 AM

**Your Partners in TAVR: An Extension of the Heart Team**

*Chair: Martin B. Leon, Jeffrey J. Popma*

8:00 AM

**Keynote Speaker: The Aortic Stenosis AS Journey**

*Lecturer: Robert O. Bonow*

8:20 AM - 10:35 AM

**The Foundation of TAVR**

*Moderator: Michael J. Reardon*

8:20 AM

**The TAVR Journey: How Did We Get Here**

*Moderators: A. Pieter Kappetein*

*Moderators: A. Pieter Kappetein*

*Discussants: Martin B. Leon, Michael J. Mack, Jeffrey J. Popma, Michael J. Reardon*

8:40 AM

**The Clinical Evidence: Extreme to Low Risk Patients**

*Lecturer: Michael J. Reardon*

8:45 AM

**Therapy Choice of TAVR vs. SAVR**

*Lecturer: Kendra J. Grubb*

8:55 AM

**Shared Decision Making**

*Lecturer: Megan Coylewright*

9:05 AM

**The Technology Evolut System Overview Performance**

*Lecturer: Michael Caskey*

9:20 AM

**Treatment of AS across the Spectrum of Risk**

9:30 AM

**The Patient Profile: Case Selection the Importance of Multi Modality Imaging**

*Lecturer: Dee Dee Wang*

9:45 AM

**CAD and AS: Implications for Therapy Selection**

*Lecturer: Harold L. Dauerman*

10:00 AM

**Break**

10:15 AM

**The Heart Team in Action Case Presentation**

10:35 AM - 12:15 PM

**Building Your TAVR Program**

*Moderator: Kim Guibone*

10:35 AM

**NCD Requirements and how to meet them**

*Lecturer: Joan Michaels*

10:50 AM

**Starting a New TAVR Center: Experiences From New and Not so New Start Ups Perspectives from Heart Team Physicians and Valve Program Coordinators VPCs**

*Discussant: Kimberly Atianzar, Brooke Everett, Sandeep Patel, Basel Ramlawi*

10:50 AM

**Obtaining Effective Support for Your New Program**

*Lecturer: George D. Dangas*

11:00 AM

**Panel Discussion**

*Lecturer: George D. Dangas*

11:05 AM

**Pulling Together the Heart Valve Team and The Importance of a VPC**

*Lecturer: Guilherme Attizzani, Angela Davis*

11:15 AM

**Panel Discussion**

*Lecturer: Guilherme Attizzani, Angela Davis*

- 11:20 AM **Structure Workflow for Valve Clinic**  
*Lecturer: Kristin Pasquarello*
- 11:30 AM **Valve Conference: How to Communicate Effectively and Make Clinical Decisions as a Multi Disciplinary Heart Team**  
*Lecturer: Timothy Byrne, Michael Caskey, Tammy Querrey*
- 11:40 AM **In Hospital Management Strategies: An Introduction to Minimalism**  
*Lecturer: Timothy Byrne, Michael Caskey, Tammy Querrey*
- 11:50 AM **Follow up Care: 30 Day 1 Yr Referral Communication**  
*Lecturer: Martina Kelly Kelly Speight*
- 12:00 PM **The First 50: Case Selection Considerations**  
*Lecturer: Srinivas Iyengar, Daniel O'Hair*

12:15 PM - 1:00 PM  
**Lunch**

1:00 PM - 2:30 PM  
**Maintaining and Accelerating Your Program - Part 1: Logistics**  
*Moderator: Jeffrey J. Popma*

- 1:00 PM **The Financial Implications of a TAVR program: A Primer on Healthcare Economics Reimbursement**  
*Lecturer: Hemal Gada*
- 1:15 PM **Partnering With Your Hospital Administration: An Extended and Essential Member of the Heart Team**  
*Lecturer: Carrie Redick*
- 1:30 PM **Patient Access Strategies**
- 1:30 PM **Market Analysis**  
*Lecturer: Greta Robb*
  - 1:35 PM **Identifying Referral Sources**  
*Lecturer: Thom Dahle*
  - 1:43 PM **Outreach Programs**  
*Lecturer: Daniel O'Hair*
  - 1:50 PM **Echo Alert**  
*Lecturer: Hemal Gada*
  - 1:58 PM **MarketingMedia Opportunities**  
*Lecturer: Michaela Mueller*
- 2:00 PM **Creating Efficiencies in the Clinical Care Pathway**  
*Lecturer: Kristin Pasquarello*
- 2:15 PM **Lessons Learned: A Roundtable Discussion Perspectives From the Full Extended Heart Team of Successful Experienced Programs**  
*Discussant: David Jones, Omar K. Khaliq, Paul D. Mahoney, Carrie Redick*

2:30 PM - 2:45 PM  
**Break**

2:45 PM - 5:00 PM  
**Maintaining and Accelerating Your Program: Part 2 - Acquiring Advanced Skills**  
*Moderator: Paul D. Mahoney*

- 2:45 PM **Acquiring Advanced**
- 2:45 PM **Echo Interpretation Skills**  
*Lecturer: Muhamed Saric*
  - 3:00 PM **CT Interpretation Skills**  
*Lecturer: Hasan Jilaihawi*
  - 3:15 PM **Technical Operator Skills**  
*Lecturer: Mathew Williams*
  - 3:30 PM **Sedation: MACNurse Administered**  
*Lecturer: Guilherme Attizzani*
  - 3:45 PM **Complication Management**  
*Lecturer: Paul D. Mahoney, Jeffrey J. Popma*
  - 4:05 PM **Evaluation for Conduction Disorders**  
*Lecturer: Steven J. Yakubov*
- 4:15 PM **Working Group Sessions: TAVR Team Planning with Faculty Guidance**  
*Discussant: Guilherme Attizzani, Hasan Jilaihawi, Paul D. Mahoney, Jeffrey J. Popma, Muhamed Saric, Mathew Williams, Steven J. Yakubov*
- 4:30 PM **TAVR Team Planning Sharing**  
*Discussant: Guilherme Attizzani, Hasan Jilaihawi, Paul D. Mahoney, Jeffrey J. Popma, Muhamed Saric, Mathew Williams, Steven J. Yakubov*
- 4:40 PM **The Future of TAVR**  
*Lecturer: Nina Goodheart*
- 4:50 PM **QA Next Steps**  
*Lecturer: Martin B. Leon, Jeffrey J. Popma*

5:00 PM - 5:00 PM  
**Adjourn to Networking Reception**

## ABCS OF INTERVENTIONAL CARDIOLOGY

### ABCS of Interventional Cardiology

WEDNESDAY, SEPTEMBER 25, 2019  
8:00 AM - 12:00 PM  
Room 209-210

- 8:00 AM - 9:15 AM  
**Session I: Basics of Cardiac Anatomy and Angiography**  
*Moderators: George D. Dangas, John M. Lasala*  
*Discussants: Hemal Gada, Alexandra J. Lansky, Verghese Mathew, Miodrag C. Ostojic, Ross Prpic*
- 8:00 AM **Overview of Cardiac Valvular and Coronary Anatomy**  
*Lecturer: Vijay Kunadian*

- 8:10 AM **Roundtable Discussion With Audience QA**  
 8:13 AM **Vascular Access Routes Complications and Vascular Rescue**  
*Lecturer: Jose M. Wiley*
- 8:23 AM **Case Example: Complication Related to Vascular Access**  
*Case Presenter: Amit Kakkur*
- 8:28 AM **Roundtable Discussion With Audience QA**  
 8:31 AM **Basics of Coronary Angiography: Setup Views and Equipment**  
*Lecturer: Verghese Mathew*
- 8:41 AM **Roundtable Discussion With Audience QA**  
 8:44 AM **Intravascular Imaging: Core Concepts of IVUS OCT NIRS and More**  
*Lecturer: Rishi Puri*
- 8:54 AM **Roundtable Discussion With Audience QA**  
 8:57 AM **Right and Left Heart Failure: Hemodynamic Support Options**  
*Lecturer: John M. Lasala*
- 9:07 AM **Case Example: LV Support RV Support or Both**  
*Case Presenter: Riccardo Colantonio*
- 9:12 AM **Roundtable Discussion With Audience QA**

9:15 AM - 10:30 AM

**Session II: Overview of Cardiovascular Disease and Treatment**

*Moderators: Joseph P. Carrozza Jr, Morton J. Kern*  
*Discussants: David A. Cox, Vasim Farooq, Aloke Finn, Afzalur Rahman, Elias Sanidas*

- 9:15 AM **Arterial and Venous Graft Disease: The Science and Art of Graft Interventions**  
*Lecturer: Gregory Barsness*
- 9:25 AM **Roundtable Discussion With Audience QA**  
 9:28 AM **Coronary Physiology: FFR iFR and Other Resting Indices**  
*Lecturer: Allen Jeremias*
- 9:38 AM **Roundtable Discussion With Audience QA**  
 9:41 AM **Acute Coronary Syndromes: Treatment of NSTEMI ACS and STEMI**  
*Lecturer: Gregory W. Serrao*
- 9:51 AM **Case Example: A Complex STEMI**  
*Case Presenter: Bimmer E. Claessen*
- 9:56 AM **Roundtable Discussion With Audience QA**  
 9:59 AM **Left Main and Bifurcation Interventions**  
*Lecturer: Ehtisham Mahmud*
- 10:09 AM **Case Example: A Complex Left Main Bifurcation**  
*Case Presenter: Gennaro Giustino*
- 10:14 AM **Roundtable Discussion With Audience QA**  
 10:17 AM **Contemporary Antiplatelet/Anticoagulation Therapy Post PCI**  
*Lecturer: Sorin J. Brener*
- 10:27 AM **Roundtable Discussion With Audience QA**

10:30 AM - 12:00 PM

**Session III: Introduction to PCI and Valve Disease Interventions**

*Moderators: Gennaro Sardella, Jose M. Wiley*  
*Discussants: Peter Barlis, Larry S. Dean, Andrew Michael Goldsweig, Elvin Kedhi, Anthony L. Pucillo, Hadley Wilson*

- 10:30 AM **Drug Eluting Stent Platforms and Outcomes 2019**  
*Lecturer: Roberto Diletti*
- 10:40 AM **Case Example: Complex DES With Long Term Outcomes**  
*Case Presenter: Anita Paggi*
- 10:45 AM **Roundtable Discussion With Audience QA**  
 10:48 AM **Drug Eluting Stent Thrombosis and Restenosis: Mechanisms Frequency and Treatment**  
*Lecturer: Binita Shah*
- 10:58 AM **Case Example: Contemporary DES Thrombosis**  
*Case Presenter: Amir Darki*
- 11:03 AM **Roundtable Discussion With Audience QA**  
 11:06 AM **Lesion Preparation/Modification Devices**  
*Lecturer: Robert T. Pyo*
- 11:16 AM **Case Example: When Lesion Preparation is Suboptimal**  
*Case Presenter: Massimo Mancone*
- 11:21 AM **Roundtable Discussion With Audience QA**  
 11:24 AM **TAVR: Indications and New Applications**  
*Lecturer: Pedro Cox-Alomar*
- 11:34 AM **Case Example: TAVR for Bicuspid Aortic Stenosis**  
*Case Presenter: Pedro A. Villablanca*
- 11:39 AM **Roundtable Discussion With Audience QA**  
 11:42 AM **Percutaneous Mitral Valve Repair and Replacement**  
*Lecturer: Pranav Loyalka*
- 11:52 AM **Case Example: A Not So Straightforward MitraClip**  
*Case Presenter: Mackram F. Eleid*
- 11:57 AM **Roundtable Discussion With Audience QA**

## THE BEST OF INTERVENTION FROM EUROPE: COMPLEX CORONARY AND STRUCTURAL HEART INTERVENTIONS

**The Best of Intervention from Europe: Complex Coronary and Structural Heart Interventions**

WEDNESDAY, SEPTEMBER 25, 2019

8:30 AM - 10:30 AM  
 Room 201-202

8:30 AM - 9:10 AM

**Session I: Advanced Coronary Interventions**

*Moderators: Jeroen J. Bax, Stephan Windecker*  
*Discussants: Adrian P. Banning, Antonio Colombo, Anthony H. Gershlick, Patrick W. Serruys, Marco Valgimigli*

- 8:30 AM **Will CTA Replace Invasive Coronary Angiography**  
*Lecturer: Patrick W. Serruys*
- 8:37 AM **FFR IFR or QFR for Functional Assessment of Stenosis Severity**  
*Lecturer: Giulio Stefanini*
- 8:44 AM **Drug Coated Balloons: State of the Art in the Face of Controversy**  
*Lecturer: Antonio Colombo*
- 8:51 AM **Antithrombotic Therapy in PCI Patients With Atrial Fibrillation**  
*Lecturer: Marco Valgimigli*
- 8:58 AM **Roundtable Discussion With Audience QA**

9:10 AM - 9:50 AM

**Session II: TAVR Certainties and Uncertainties**

*Moderators: Jeroen J. Bax, Stephan Windecker*  
*Discussants: Ran Kornowski, Axel Linke, Corrado Tamburino, Didier Tchetché*

- 9:10 AM **Has TAVR Become the Default Therapy in Patients With Severe Aortic Stenosis**
- 9:17 AM **TAVR in Bicuspid Aortic Valves**  
*Lecturer: Lars Sondergaard*
- 9:24 AM **TAVR in Pure Aortic Regurgitation**  
*Lecturer: Didier Tchetché*
- 9:31 AM **State of Cerebral Protection in Patients Undergoing TAVR**  
*Lecturer: Axel Linke*
- 9:38 AM **Roundtable Discussion With Audience QA**

9:50 AM - 10:30 AM

**Session III: Mitral and Tricuspid Interventions**

*Moderators: Jeroen J. Bax, Stephan Windecker*  
*Discussants: Jörg Hausleiter, Hüseyin Ince, Francesco Maisano, Lars Sondergaard, Nicolas M. Van Mieghem, Stephan Von Bardeleben*

- 9:50 AM **How to Select Patients With Secondary MR for Percutaneous Edge to Edge Repair**  
*Lecturer: Jörg Hausleiter*
- 9:57 AM **Which Patients With Primary MR Are Suitable for Percutaneous Edge to Edge Repair**  
*Lecturer: Hüseyin Ince*
- 10:04 AM **Transcatheter Mitral Valve Repair: What Devices for Which Patient**  
*Lecturer: Francesco Maisano*
- 10:11 AM **Tricuspid Valve Repair: Current Status**  
*Lecturer: Stephan Von Bardeleben*
- 10:18 AM **Roundtable Discussion With Audience QA**

## THE BEST OF INTERVENTION FROM JAPAN: ADVANCED PCI TECHNIQUES, IMAGING AND PHYSIOLOGIC ASSESSMENT, ENDOVASCULAR INTERVENTION, AND STRUCTURAL HEART INTERVENTION

The Best of Intervention from Japan: Advanced PCI Techniques, Imaging and Physiologic Assessment, Endovascular Intervention, and Structural Heart Intervention

WEDNESDAY, SEPTEMBER 25, 2019

8:30 AM - 10:30 AM  
Room 205-206

8:30 AM - 9:10 AM

**Session I: Advanced PCI Techniques**

*Moderators: Lei Ge, Makoto Sekiguchi*  
*Discussants: Colm Hanratty, Scott Harding, Taishi Hirai, Ashish Pershad, Sudhir Rathore*

- 8:30 AM **Halfway Rotational Atherectomy in Severely Calcified Coronary Lesions**  
*Lecturer: Kenichi Sakakura*
- 8:40 AM **Roundtable Discussion With Audience QA**
- 8:43 AM **The Latest Strategies for CTO Japanese Fashion**  
*Lecturer: Takeshi Serikawa*
- 8:53 AM **Roundtable Discussion With Audience QA**
- 8:56 AM **Clinical Outcomes After IVUS Guided Directional Coronary Atherectomy DCA And Drug Coating Balloons DCB**  
*Lecturer: Yoshiaki Ito*
- 9:06 AM **Roundtable Discussion With Audience QA**

9:10 AM - 9:50 AM

**Session II: Coronary Imaging and Physiologic Assessment**

*Moderators: Takashi Akasaka, Hitoshi Matsuo*  
*Discussants: Akiko Fujino, Matthias Götzberg, Yoshiaki Kawase, Yuetsu Kikuta, Yuhei Kobayashi, Akiko Maehara*

- 9:10 AM **Long Term Clinical Outcomes of Japanese Patients With Deferred Coronary Intervention Based on FFR: The J CONFIRM Registry**  
*Lecturer: Shoichi Kuramitsu*
- 9:20 AM **Roundtable Discussion With Audience QA**
- 9:24 AM **How Does Intravascular Imaging Derived FFR Work and When Should It Be Used**  
*Lecturer: Fumiyasu Seike*
- 9:34 AM **Roundtable Discussion With Audience QA**
- 9:37 AM **Comparison Between QFR and FFRCT With Case Examples**  
*Lecturer: Hiroki Emori*
- 9:47 AM **Roundtable Discussion With Audience QA**

9:50 AM - 10:30 AM

**Session III: Endovascular & Structural Heart Interventions**

*Moderators: Masato Nakamura, Shigeru Saito*  
*Discussants: Ehrin J. Armstrong, Masahiko Fujihara, Daizo Kawasaki, Mehdi H. Shishehbor, Yoshimitsu Soga, Vinod H. Thourani*

- 9:50 AM **Can Baseline IVUS Predict Dissection Patterns of Femoropopliteal Lesions**  
*Lecturer: Daizo Kawasaki*
- 9:57 AM **Roundtable Discussion With Audience QA**
- 10:00 AM **Stress Hormones Are Related to Perioperative Outcomes After CLI Surgical Endovascular Revascularization: The SPINACH Registry**

Lecturer: Yoshimitsu Soga

- 10:07 AM **Roundtable Discussion With Audience QA**
- 10:10 AM **Transcatheter Aortic Valve Replacement in Complex Anatomy**  
Lecturer: Futoshi Yamanaka
- 10:17 AM **Roundtable Discussion With Audience QA**
- 10:20 AM **Structural Interventions for Challenging Complex Anatomy of Japanese Patients**  
Lecturer: Masanori Yamamoto
- 10:27 AM **Roundtable Discussion With Audience QA**

- 11:32 AM **Roundtable Discussion With Audience QA**  
Case Presenter: Jian'an Wang
- 11:35 AM **Case Based Learning: Chengdu TAVR Experience**  
Case Presenter: Mao Chen
- 11:42 AM **Roundtable Discussion With Audience QA**  
Case Presenter: Mao Chen

- 11:45 AM **Session II: Clinical Research and Practice in Percutaneous Coronary Intervention**  
Moderators: Gregg W. Stone, Yuejin Yang  
Moderators: Gregg W. Stone, Yuejin Yang  
Moderators: Gregg W. Stone, Yuejin Yang  
Discussants: Ziad A. Ali, Lei Ge, Ajay J. Kirtane, Jian Liu, Shengxian Tu, Junjie Zhang

- 11:45 AM **DEFINITION of Contemporary Bifurcation Treatment: Current Evidence and Future Trials**  
Lecturer: Shao-Liang Chen

- 11:55 AM **Roundtable Discussion With Audience QA**  
Lecturer: Shao-Liang Chen

- 11:59 AM **Technology and Clinical Updates of China Based BRS Programs**  
Lecturer: Guosheng Fu

- 12:09 PM **Roundtable Discussion With Audience QA**  
Lecturer: Guosheng Fu

- 12:13 PM **Angiography Based Physiological Lesion Assessment: QFR System and the FAVOR Trials**  
Lecturer: Bo Xu

- 12:21 PM **Roundtable Discussion With Audience QA**  
Lecturer: Bo Xu

- 12:25 PM **Case Based Learning: A High Bleeding Risk Patient with Complex Coronary Anatomy**  
Case Presenter: Zening Jin

- 12:31 PM **Roundtable Discussion With Audience QA**  
Case Presenter: Zening Jin

- 12:35 PM **Case Based Learning: A Complex PCI with OCT Guidance**  
Case Presenter: Haibo Jia

- 12:41 PM **Roundtable Discussion With Audience QA**  
Case Presenter: Haibo Jia

## THE BEST OF INTERVENTION FROM CHINA

### The Best of Intervention from China

WEDNESDAY, SEPTEMBER 25, 2019

10:45 AM - 12:45 PM

Room 201-202

10:45 AM - 12:45 PM

#### Agenda

- 10:45 AM **Session I: Innovation and Practice in Structural Heart Intervention**  
Moderators: Runlin Gao, Martin B. Leon  
Moderators: Runlin Gao, Martin B. Leon  
Discussants: Maurice Buchbinder, Jianfang Luo, Thomas Modine, Ling Tao, Nicolas M. Van Mieghem, Qi Zhang
- 10:45 AM **TAVR in China: First Report of a Post Approval National Registry**  
Lecturer: Runlin Gao
- 10:55 AM **Roundtable Discussion With Audience QA**  
Lecturer: Runlin Gao
- 10:59 AM **Emerging Transcatheter Valve Therapies: Mitral and Pulmonary Valves**  
Lecturer: Junbo Ge
- 11:09 AM **Roundtable Discussion With Audience QA**  
Lecturer: Junbo Ge
- 11:13 AM **Percutaneous Intramyocardial Septal Radiofrequency Ablation for Hypertrophic Obstructive Cardiomyopathy**  
Lecturer: Liwen Liu
- 11:21 AM **Roundtable Discussion With Audience QA**  
Lecturer: Liwen Liu
- 11:25 AM **Case Based Learning: Hangzhou TAVR Experience**  
Case Presenter: Jian'an Wang

## THE BEST OF INTERVENTIONS FROM LATIN AMERICA

### The Best of Interventions From Latin America

WEDNESDAY, SEPTEMBER 25, 2019

10:45 AM - 12:45 PM

Room 205-206

10:45 AM - 11:45 AM

#### Session I. Structural Interventions

10:45 AM **All You Need to Know About TAVR: Patient Selection and Sizing Algorithms**

Lecturer: João L. Cavalcante

10:52 AM **Roundtable Discussion With Audience Q A**

10:57 AM **TAVR Potpourri: Special and Bail Out Situations**

Lecturer: Didier Tchetché

11:04 AM **Roundtable Discussion With Audience Q A**

11:09 AM **Interventional Pathobiology: Anatomical Landmarks for Interventional Procedures**

Lecturer: Juan F. Granada

11:16 AM **Roundtable Discussion With Audience Q A**

11:21 AM **All You Need to Know About MitraClip: Case Selection and Procedural Steps**

Lecturer: Mayra Guerrero

11:28 AM **Roundtable Discussion With Audience Q A**

11:33 AM **An Incredible MitraClip Case**

Case Presenter: Pedro J. Colon

11:39 AM **Roundtable Discussion With Audience Q A**

11:45 AM - 12:45 PM

### Session II. Coronary Interventions

Moderators: Jose L. Leiva-Pons, Jose Armando Mangione Discussants: Gueing Eid-Lidt, Efrain Gaxiola, Leandro I. Lasave, Gabriel Maluenda, Alexandre Schaan Quadros, Omar Santaera

11:45 AM **Absolute Essentials of CTO Intervention: Procedural Steps and Equipment Selection**

Lecturer: Pablo Lamelas

11:52 AM **Roundtable Discussion With Audience Q A**

11:57 AM **Challenging Case: My Worst CTO Nightmare**

Case Presenter: Carlos E. Uribe

12:03 PM **Roundtable Discussion With Audience Q A**

12:09 PM **Absolute Essentials of Bifurcation PCI: Technique and Equipment Selection**

Lecturer: Ricardo A. Costa

12:16 PM **Roundtable Discussion With Audience Q A**

12:21 PM **If You Have to Choose: Intravascular Imaging or Physiologic Assessment in Complex PCI**

Lecturer: Hector M. Garcia-Garcia

12:28 PM **Roundtable Discussion with Audience Q A**

12:33 PM **Challenging Case: Left Main Bifurcation With Intravascular Imaging or Physiologic Assessment**

Case Presenter: Mauro Echavarría Pinto

12:39 PM **Roundtable Discussion With Audience Q A**

WEDNESDAY, SEPTEMBER 25, 2019

1:00 PM - 3:00 PM

Room 201-202

1:00 PM - 2:00 PM

### Session I: Coronary and Peripheral Interventions

Moderators: Paul Hsien-Li Kao, Afzalur Rahman Discussants: Fazila-Tun-Nesa Malik, Seung-Jung Park, Teguh Santoso, Huay Cheem Tan

1:00 PM **Case 1 From Bangladesh: To Be or Not to Be A Retrograde CTO Case**  
Case Presenter: Kaisar Nasrullah Khan

1:07 PM **Roundtable Discussion With Audience QA**

1:12 PM **Case 2 From India: Intervention in Aorto Aortitis**  
Case Presenter: Manotosh Panja

1:19 PM **Roundtable Discussion With Audience QA**

1:24 PM **Case 3 From Indonesia: Coronary Obstruction Caused by an Un Deflated Balloon After Shaft Fracture**  
Case Presenter: Linda Lison

1:31 PM **Roundtable Discussion With Audience QA**

1:36 PM **Case 4 From S. Korea: TBD**  
Case Presenter: Seung-Jung Park

1:43 PM **Roundtable Discussion With Audience QA**

1:48 PM **Case 5 From Malaysia: Hybrid Approach in Diffuse Coronary Artery Disease**  
Case Presenter: Kenneth Chin

1:55 PM **Roundtable Discussion With Audience QA**

2:00 PM - 3:00 PM

### Session II: Structural, Valvular, and Heart Failure Interventions

Moderators: Sreenivas Arramraju Kumar, Wei-Hsian Yin Discussants: Rabin dra Nath Chakraborty, Jun-Jack Cheng, Sampath Kumar, Muhammad Munawar, Chiung Jen Wu

2:00 PM **Case 6 From Singapore: Transcatheter Tricuspid Valve in Valve Treatment**  
Case Presenter: Edgar L. Tay

2:07 PM **Roundtable Discussion With Audience QA**

2:12 PM **Case 7 From Taiwan: Vascular Plugging of a Severe Paravalvular Leak**  
Case Presenter: Kuan-Chih Huang

2:19 PM **Roundtable Discussion With Audience QA**

2:24 PM **Case 8 From India: Expanding Indications of TAVR in India**  
Case Presenter: RAMA KRISHNA JANAPATI

2:31 PM **Roundtable Discussion With Audience QA**

2:36 PM **Case 9 From Indonesia: A High Risk Redo Surgery Patient With Severe MR After Ring Annuloplasty and CABG**

## THE BEST OF INTERVENTION FROM ASIA-PACIFIC INDIA

The Best of Intervention from Asia-Pacific India



Case Presenter: Teguh Santoso

- 2:43 PM Roundtable Discussion With Audience QA
- 2:48 PM Case 10 From Taiwan: A Challenging LAA Closure  
Case Presenter: Ying-Hsiang Lee
- 2:55 PM Roundtable Discussion With Audience QA

Case Presenter: Sergey A. Abugov

- 2:26 PM Roundtable Discussion with Audience Q A
- 2:33 PM Interventional Treatment of Paravalvular Leaks: Procedural Planning Technique and Outcomes  
Lecturer: Mario Carminati
- 2:41 PM Learn the Technique Case Based: Interventional Treatment of Paravalvular Leak  
Case Presenter: Bagrat Alekryan
- 2:48 PM Roundtable Discussion with Audience Q A
- 2:55 PM Closing Remarks  
Lecturer: Bagrat Alekryan

## THE BEST OF INTERVENTION FROM TCT RUSSIA: AT THE CROSSROADS OF ADULT STRUCTURAL AND CONGENITAL INTERVENTIONS

## THE BEST OF INTERVENTION FROM THE MIDDLE EAST AND AFRICA

### The Best of Intervention from TCT Russia: At the Crossroads of Adult Structural and Congenital Interventions

WEDNESDAY, SEPTEMBER 25, 2019

1:00 PM - 3:00 PM

Room 205-206

1:00 PM - 3:00 PM

#### Agenda

Moderators: Bagrat Alekryan, Robert J. Sommer  
Discussants: Mario Carminati, Alexey N. Fedorchenko, Mayra Guerrero, Zaza Kavteldadze, Michael J. Mack

- 1:00 PM **Introduction**  
Lecturer: Bagrat Alekryan
- 1:05 PM **PFO Closure in Adults: Clinical Trial Update Indications and Emerging Devices**  
Lecturer: Robert J. Sommer
- 1:13 PM **Learn the Technique Case Based: PFO Closure in an Adult Patient**  
Case Presenter: Evgeny V. Merkulov
- 1:20 PM **Roundtable Discussion with Audience Q A**
- 1:27 PM **Who When How: A Primer of ASD Closure in Adults**  
Lecturer: William A. Gray
- 1:35 PM **Learn the Technique Case Based: ASD Closure in an Adult Patient**  
Case Presenter: Narek Karapetyan
- 1:42 PM **Roundtable Discussion with Audience Q A**
- 1:49 PM **Left Atrial Appendage Closure: A Congenital Skill for a Non Congenital Disease**  
Lecturer: Horst Sievert
- 1:57 PM **Learn the Technique Case Based: LAA Closure**  
Case Presenter: Alexey A. Protopopov
- 2:04 PM **Roundtable Discussion with Audience Q A**
- 2:11 PM **Calcific Aortic and Mitral Valve Stenosis: Interventional Approaches**  
Lecturer: Mayra Guerrero
- 2:19 PM **Learn the Technique Case Based: Calcified Aortic and Mitral Valve Disease**

### The Best of Intervention from the Middle East and Africa

WEDNESDAY, SEPTEMBER 25, 2019

3:15 PM - 5:15 PM

Room 205-206

3:15 PM - 3:55 PM

#### Session I: A Complex Coronary Case (CHIP)

Moderators: Graham A. Cassel, Ran Kornowski  
Discussants: Magdy Abdelhamid, Hadi Abu-Hantash, Khaled Almerri, Adel M kamal El Etriby, Sajidah Khan

- 3:15 PM **A Patient With Complex Coronary Artery Disease**
- 3:15 PM **Case Introduction**  
Case Presenter: Nireen Okasha
- 3:20 PM **How I Would Treat This Case**  
Lecturer: Sajidah Khan
- 3:25 PM **How I Would Treat This Case**  
Lecturer: Kais BATTIKH
- 3:30 PM **Case Resolution: How Did I Treat This Patient**  
Case Presenter: Nireen Okasha
- 3:35 PM **Roundtable Discussion With Audience QA**
- 3:50 PM **Take Home Messages**  
Lecturer: Graham A. Cassel

3:55 PM - 4:35 PM

#### Session II: STEMI, MVD and Cardiogenic Shock

Moderators: Mirvat Alasnag, Mohamed Ahmed Sobhy  
Discussants: Khaled F. Al-Shaibi, Kais BATTIKH, Darrar Herar, Khalid Omar Tammam, Samir Ztot

- 3:55 PM **A Patient With STEMI MVD and Cardiogenic Shock**

- 3:55 PM **Case Introduction**  
*Case Presenter: Chaim S. Lotan*
- 4:00 PM **How I Would Treat This Case**  
*Lecturer: Khaled F. Al-Shaibi*
- 4:05 PM **How I Would Treat This Case**  
*Lecturer: Samir Ztot*
- 4:10 PM **Case Resolution: How Did I Treat This Patient**  
*Case Presenter: Chaim S. Lotan*
- 4:15 PM **Roundtable Discussion With Audience QA**
- 4:30 PM **Take Home Messages**  
*Lecturer: Mirvat Alasnag*

4:35 PM - 5:15 PM

**Session III: TAVR in an Intermediate-Risk Patient**

*Moderators: Habib Gamra, E. Murat Tuzcu*  
*Discussants: Mohammed Balghith, Mohamed Abed Bouraghda, Harun Otieno, Abdullah Shehab*

- 4:35 PM **An Intermediate Risk Patient with Severe Aortic Stenosis**
- 4:35 PM **Case Introduction**  
*Case Presenter: Ahmad Edris*
- 4:40 PM **How I Would Treat This Case**  
*Lecturer: Mohammed Balghith*
- 4:45 PM **How I Would Treat This Case**  
*Lecturer: Mohammad Al-Mutairi*
- 4:50 PM **Case Resolution: How Did I Treat This Patient**  
*Case Presenter: Ahmad Edris*
- 4:55 PM **Roundtable Discussion With Audience QA**
- 5:10 PM **Take Home Messages**  
*Lecturer: E. Murat Tuzcu*

*Presenting Author: Kosei Terada*

- 12:40 PM **Discussion**
- 12:45 PM **TCT 10: Time and Mortality in ST Elevation Myocardial Infarction: Insights From the TOTAL Trial**  
*Presenting Author: Rachel Moxham*
- 12:55 PM **Discussion**
- 1:00 PM **TCT 11: Everolimus eluting Bioresorbable Scaffolds versus Drug eluting Stents in Patients with Acute Myocardial Infarction 2 Year Results of the Randomized ISAR Absorb MI Trial**  
*Presenting Author: Jens Wiebe*
- 1:10 PM **Discussion**
- 1:15 PM **TCT 12: Results from the CAMI1 Study: Selective CRP apheresis as a new treatment option in acute myocardial infarction**  
*Presenting Author: Christoph Dietrich Garlich*
- 1:25 PM **Discussion**

1:30 PM - 2:30 PM

**Session II. Vulnerable Plaque and Patient Studies**

*Moderators: Amir Lerman, Peter H. Stone*  
*Discussants: Brian K. Courtney, Ranil De Silva, Christoph Dietrich Garlich, Elvin Kedhi, Pedro R. Moreno, Yasunori Ueda*

- 1:30 PM **TCT 13: Alirocumab improve coronary plaque vulnerability: first randomized control trial to assess the effect of alirocumab for plaque vulnerability using optical coherence tomography.**  
*Presenting Author: yoichiro sugizaki*
- 1:40 PM **Discussion**
- 1:45 PM **TCT 14: Assessment of the Sources of Near infrared Auto fluorescence in High risk Coronary Artery Plaques: a Histopathologic Correlative Study**  
*Presenting Author: Mie Kunio*
- 1:55 PM **Discussion**
- 2:00 PM **TCT 15: Prognostic Impact of Healed Coronary Plaque in Non culprit Segments Assessed by Optical Coherence Tomography**  
*Presenting Author: Eisuke Usui*
- 2:10 PM **Discussion**
- 2:15 PM **TCT 16: Longitudinal Distribution of Lipid Rich Plaque in Nonculprit Lesions: A Lipid Rich Plaque LRP Study Sub analysis**  
*Presenting Author: Evan Shlofmitz*
- 2:25 PM **Discussion**

## AMI AND VULNERABLE PLAQUE AND PATIENT STUDIES

### AMI and Vulnerable Plaque and Patient Studies

Coronary: CHIP

WEDNESDAY, SEPTEMBER 25, 2019

12:30 PM - 2:30 PM  
Room 216

12:30 PM - 1:30 PM

**Session I. AMI Diagnosis and Treatments**

*Moderators: Rajesh M. Dave, Vladimir Dzavik*  
*Discussants: David A. Cox, Jorge Gaspar, Graham Nichol, Eugenia Nikolsky, Thomas D. Stuckey, Glenn Van Langenhove*

- 12:30 PM **TCT 9: Quantitative Assessment of Lipid Composition by NIRS IVUS Is Helpful for Differentiating among Plaque Rupture Plaque Erosion and Calcified Nodule in the Culprit Lesion of ACS**

## COMPLICATIONS OF TAVR: STROKE AND CORONARY OBSTRUCTION

### Complications of TAVR: Stroke and Coronary Obstruction

Structural: Valve

WEDNESDAY, SEPTEMBER 25, 2019

12:30 PM - 2:30 PM  
Room 209-210

12:30 PM - 1:30 PM

**Session I. Coronary obstruction after TAVR**

Moderators: Neal S. Kleiman, Stephen G. G. Worthley Discussants: Adriano Caixeta, Katia Orvin, Rishi Puri, Henrique B. Ribeiro, David G. Rizik, Carl L. Tommaso

12:30 PM **TCT 17: Coronary Obstruction Risk Assessment: A Comparison of Snorkel Stenting and BASILICA**

Presenting Author: John Lisko

12:40 PM **Discussion**

12:45 PM **TCT 18: Impact of Initial Evolut TAVR Deployment Orientation on Final Valve Orientation and Coronary Reaccess: A Pilot Study**

Presenting Author: Gilbert Tang DUPE

12:55 PM **Discussion**

1:00 PM **TCT 19: Outcome of Coronary Ostial Stenting to Prevent Coronary Obstruction During TAVR: an International Multicenter Registry**

Presenting Author: Antonio Mangieri

1:10 PM **Discussion**

1:15 PM **TCT 20: Aortic Root Anatomy in Low Risk Patients After Transcatheter Aortic Valve Replacement with a Balloon Expandable Valve: Impact on Coronary Access and Repeat Aortic Valve Interventions**

Presenting Author: Toby Rogers

1:25 PM **Discussion**

1:30 PM - 2:30 PM

**Session II. Stroke after TAVR**

Moderators: Karel T. Koch, Ulf Landmesser Discussants: Mark C. Bates, Asim Cheema, Alejandro Cherro, Nabil Farag, Saib Khogali

1:30 PM **TCT 21: Incidence And Clinical Outcomes Of Stroke In Patients With Percutaneous Mechanical Circulatory Support Devices: Insights from Large National Database**

Presenting Author: Mohit Pahuja

1:40 PM **Discussion**

1:45 PM **TCT 22: Impact of Transcatheter Aortic Valve Implantation on Microemboli 24 to 48 hours after Valve Implantation Observed as High Intensity Transient Signals on Transcranial Doppler: Prevalence and Implications**

Presenting Author: Navneet Sharma

1:55 PM **Discussion**

2:00 PM **TCT 23: Heterogeneity of Debris Captured by Cerebral Embolic Protection Filters During Transcatheter Aortic Valve Replacement With Different Transcatheter Heart Valves**

Presenting Author: HuiBERT Kroon

2:10 PM **Discussion**

2:15 PM **TCT 24: Clinical predictors for procedural stroke and implications for embolic protection device during TAVI: Results from the multicenter Transcatheter Aortic valve implantation in hospital stroke TASK study**

Presenting Author: Amit Segev

2:25 PM **Discussion**

## DES AND BIORESORBABLE SCAFFOLDS

### DES and Bioresorbable Scaffolds

Coronary: CHIP

WEDNESDAY, SEPTEMBER 25, 2019

12:30 PM - 2:30 PM

Room 213

12:30 PM - 1:30 PM

**Session I. DES: New Studies, New Insights**

Moderators: Thomas A. Ischinger, Nickolas Nodar Kipshidze Discussants: Mohamed Ali Elsalamony, Anton Farkas, David F. Kong, Ganesan R. Nambirajan

12:30 PM **TCT 41: A prospective multicentre randomized all comers trial to assess the safety and effectiveness of the ultra thin strut sirolimus eluting coronary stent Supraflex: 2 year results of the TALENT trial**  
Presenting Author: Patrick W. Serruys

12:40 PM **Discussion**

12:45 PM **TCT 42: Polymer free Drug coated vs. Bare metal Coronary Stents in Patients Undergoing Non cardiac Surgery A Subgroup Analysis of the LEADERS FREE Trial**

Presenting Author: Gert Richardt

12:55 PM **Discussion**

1:00 PM **TCT 43: A Prospective Randomized Multicenter Study to Assess the Safety and Effectiveness of the Orsiro Sirolimus Eluting Stent in the Treatment of Subjects with up to two de novo Coronary Artery Lesions BIOFLOW IV: 4 Years Clinical Results**

Presenting Author: ton slagboom

1:10 PM **Discussion**

1:15 PM **TCT 44: Impact of Stent Edge Hinging on Chronic Neointimal Hyperplasia after Newer Generation Drug Eluting Stent Placement in RCA**

Presenting Author: Takahiro Jimba

1:25 PM **Discussion**

1:30 PM - 2:30 PM

**Session II. BVS: New Studies, New Insights**

Moderators: Tommaso Gori, John A. Ormiston Discussants: Arif Al Nooryani, Vasim Farooq, Stephen P. Hoole, Sundeep Mishra, Alexander Nikanorov, Jean-François Tanguay

1:30 PM **TCT 45: Safety and Performance of the Resorbable Magnesium Scaffold Magmaris in a Real World Setting First Cohort Subjects at 12 month Follow up of the BIOSOLVE IV Registry**

Presenting Author: Stefan Verheye

1:40 PM **Discussion**

1:45 PM **TCT 46: FANTOM II trial: Safety and Performance Study of the Fantom Sirolimus Eluting Bioresorbable Coronary Scaffold First Report on Initial 48 Month Outcomes**

Presenting Author: Alexandre Abizaid

- 1:55 PM Discussion  
2:00 PM **TCT 47: Five Year Clinical Outcomes From Randomized Comparison of Everolimus Eluting Bioresorbable Vascular Scaffolds Versus Everolimus Eluting Metallic Stents in Patients With Coronary Artery Disease From ABSORB China Trial**  
*Presenting Author: Runlin Gao*
- 2:10 PM Discussion  
2:15 PM **TCT 48: Bioresorbable Scaffold Versus Metallic Drug Eluting Stent in Patients at High Risk of Restenosis COMPARE ABSORB trial : Very late device thrombosis while on extended DAPT**  
*Presenting Author: Robert-Jan Van Geuns*
- 2:25 PM Discussion

- 1:30 PM **TCT 61: One Year Outcome of Subintimal versus Intraluminal Approach Subintimal versus Intraluminal Wire Passage Based on Intravascular Ultrasound Findings For Femoro Popliteal Chronic Total Occlusions.**  
*Presenting Author: Yuusuke Tomoi*

- 1:40 PM Discussion  
1:45 PM **TCT 62: A polymer free paclitaxel eluting stent Zilver PTX versus a bare metal stent Misago for de novo femoropopliteal lesions BATTLE: a randomised trial**  
*Presenting Author: Yann Gouëffic*

- 1:55 PM Discussion  
2:00 PM **TCT 63: Jetstream Atherectomy for the Treatment of In stent Restenosis of the Femoropopliteal Artery: Preliminary Results of the JET ISR Study**  
*Presenting Author: Nicolas W. Shammass*

- 2:10 PM Discussion  
2:15 PM **TCT 64: Intravascular Molecular Structural Imaging of Arterial Permeability and Vascular Injury In Vivo: Implications for Drug Coated Balloon Efficacy**  
*Presenting Author: Mazen Albaghdadi*

- 2:25 PM Discussion

## ENDOVASCULAR INTERVENTIONS

### Endovascular Interventions

#### Vascular

WEDNESDAY, SEPTEMBER 25, 2019

12:30 PM - 2:30 PM

Moscone South, Level Two, Room 216

12:30 PM - 1:30 PM

#### Session I. Chronic limb ischemia

*Moderators: J. Stephen Jenkins, Mahmood K. Razavi*  
*Discussants: Stanislaw Bartus, Jose A. Condado, Jon George, Alejandro Goldsmit, Karthik R. Gujja, Jun Nakazato*

- 12:30 PM **TCT 57: Plantar Thermography in Predicting Wound Healing in Patients with Critical Limb Ischemia**  
*Presenting Author: Wei-chun Chang*
- 12:40 PM Discussion  
12:45 PM **TCT 58: Predictors associating with major amputation in critical limb ischemia patients with Wifl stage 4**  
*Presenting Author: Norihiro Kobayashi*
- 12:55 PM Discussion  
1:00 PM **TCT 59: Atherosclerotic Swine Model for Anatomically Correct Investigation of Below the Knee Interventional Therapies: Preliminary Characterization**  
*Presenting Author: Marco Ferrone*
- 1:10 PM Discussion  
1:15 PM **TCT 60: Novel 6 Month Angiographic Outcomes in Below Knee Disease and Correlation to 12 Month Clinical Results**  
*Presenting Author: Ehrin J. Armstrong*
- 1:25 PM Discussion

1:30 PM - 2:30 PM

#### Session II. Endovascular potpourri

## INTRAVASCULAR IMAGING

### Intravascular Imaging

#### Coronary: Core

WEDNESDAY, SEPTEMBER 25, 2019

12:30 PM - 2:30 PM

Room 211

12:30 PM - 1:30 PM

#### Session I. Intravascular Imaging Part I

*Moderators: Hiram G. Bezerra, Marc D. Feldman*  
*Discussants: Roberto Diletti, John J. Lopez, Pedro R. Moreno, Yoshinobu Onuma, Nicolas W. Shammass, Mladen I. Vidovich*

- 12:30 PM **TCT 49: Perceived versus competency based assessment of interventional cardiology fellows abilities in intracoronary physiology and imaging**  
*Presenting Author: Erin Flattery*
- 12:40 PM Discussion  
12:45 PM **TCT 50: Comparison of Saline and Radiographic Contrast for Optical Coherence Tomography Guided Intracoronary Imaging**  
*Presenting Author: Ankita Gore*
- 12:55 PM Discussion  
1:00 PM **TCT 51: IVUS Predictors of Stent Expansion in Severely Calcified Lesions**  
*Presenting Author: mingyou zhang*

- 1:10 PM **Discussion**  
 1:15 PM **TCT 52: Impact of Subintimal Tracking for Recanalization of CTO Lesions on long term Clinical Outcomes**  
*Presenting Author: SEIJI KANO*  
 1:25 PM **Discussion**

1:30 PM - 2:30 PM

**Session II. Intravascular Imaging Part II**

*Moderators: Daniel Chamie, John McB. Hodgson*  
*Discussants: Kevin J. Croce, Joost Daemen, Tatsuhiro Fujimura, Nieves Gonzalo, Christopher Kim, Massoud A. Leesar*

- 1:30 PM **TCT 53: Impact of Intravascular Ultrasound Utilization on Outcomes Following Percutaneous Coronary Intervention for In stent Restenosis**  
*Presenting Author: Evan Shlofmitz*  
 1:40 PM **Discussion**  
 1:45 PM **TCT 54: The Application of Predefined Optimization Criteria for Intravascular Ultrasound Guidance of Left Main Coronary Artery Stenting Improves Outcomes.**  
*Presenting Author: Jose M. De la Torre Hernandez*  
 1:55 PM **Discussion**  
 2:00 PM **TCT 55: Incidence Predictors and Clinical Implications of Stent Optimization on Intravascular Ultrasound After New generation Drug eluting Stent Implantation for Diffuse Long Coronary Stenotic Lesions**  
*Presenting Author: Byeong-Keuk Kim*  
 2:10 PM **Discussion**  
 2:15 PM **TCT 56: Impact of Neoatherosclerosis on clinical Outcomes after Repeat Revascularization of In Stent Restenosis of 2nd Generation Drug Eluting Stents**  
*Presenting Author: Zhaoyang Chen*  
 2:25 PM **Discussion**

*Presenting Author: Devika Aggarwal*

- 12:40 PM **Discussion**  
 12:45 PM **TCT 26: Predictors of Bailout Rotational Atherectomy in Patients With Complex Calcified Coronary Artery Disease: A Pooled Analysis From the Randomized ROTAXUS and PREPARE CALC Trials**  
*Presenting Author: Mohamed Abdel-Wahab*  
 12:55 PM **Discussion**  
 1:00 PM **TCT 27: Safety and Effectiveness of Coronary Intravascular Lithotripsy for Treatment of Severely Calcified Coronary Stenoses: The Disrupt CAD II study**  
 1:10 PM **Discussion**  
 1:15 PM **TCT 28: Comparative Study of Resource Utilisation Costs and Procedural Times of Percutaneous Coronary Intervention with Rotational Atherectomy vs Intravascular Lithotripsy**  
*Presenting Author: Shafeer G. Rashid*  
 1:25 PM **Discussion**

1:30 PM - 2:30 PM

**Session II. PCI in Chronic Kidney Disease**

*Moderators: Donald Cutlip, Spencer B. King III*  
*Discussants: Sanjeev Kumar Agarwal, Graham A. Cassel, Kam-Tim Chan, Steffen Desch, Marcello Sena, Junjie Zhang*

- 1:30 PM **TCT 29: Impact of intravascular ultrasound guided drug eluting stent implantation on patients with chronic kidney disease: subgroup analysis from ULTIMATE trial**  
*Presenting Author: Junjie Zhang*  
 1:40 PM **Discussion**  
 1:45 PM **TCT 30: Ultra Low Contrast Coronary Angiography in Patients with Advanced Chronic Kidney Disease Feasibility and Outcomes Compared with Conventional Angiography**  
*Presenting Author: NAVDEEP BHATTI*  
 1:55 PM **Discussion**  
 2:00 PM **TCT 31: Use of Iso Osmolar Contrast Media in High AKI Risk Patients Undergoing Peripheral Revascularization Procedures Is Associated with Lower Incidence of Major Adverse Renal or Cardiac Events MARCE**  
*Presenting Author: Anand Prasad*  
 2:10 PM **Discussion**  
 2:15 PM **TCT 32: Clinical Outcomes of Imaging and Physiology guided PCI without Contrast Administration in Advanced Renal Failure**  
*Presenting Author: Hussein M. Rahim*  
 2:25 PM **Discussion**

## PCI IN PATIENTS WITH HEAVILY CALCIFIED LESIONS AND CHRONIC KIDNEY DISEASE

### PCI in Patients with Heavily Calcified Lesions and Chronic Kidney Disease

Coronary: CHIP

WEDNESDAY, SEPTEMBER 25, 2019

12:30 PM - 2:30 PM

Room 207

12:30 PM - 1:30 PM

**Session I. PCI of heavily calcified lesions**

*Moderators: Michael J. Cowley, Jeff Marshall*  
*Discussants: Tayo A. Addo, Ramesh Adiraju, Ahmed Elghamaz, Jack Hall, Stefan Harb, Jun Jiang*

- 12:30 PM **TCT 25: Comparative Safety and Effectiveness of Orbital and Rotational Atherectomy in Patients Undergoing Percutaneous Coronary Intervention: Insights from the Blue Cross Blue Shield of Michigan Cardiovascular Consortium BMC2**

## TAVR COMPLICATIONS AND CONGENITAL HEART DISEASE INTERVENTIONS

### TAVR Complications and Congenital Heart Disease Interventions

Structural: Valve

WEDNESDAY, SEPTEMBER 25, 2019

12:30 PM - 2:30 PM

Room 215

12:30 PM - 1:30 PM

### Session I. TAVR Complications

Moderators: Ronald Caputo, Bernhard Reimers  
Discussants: Quang T. Bui, Mohamed Mohamed Elmaraghi, Marvin H. Eng, Martine Gilard, Vincent J. Pompili, Darren Walters

12:30 PM **TCT 33: Bioprosthetic valve fracture performed pre versus post valve in valve transcatheter aortic valve replacement: Insights from bench testing**

Presenting Author: Janarthanan Sathanathan

12:40 PM **Discussion**

12:45 PM **TCT 34: Bioprosthetic valve fracture can eliminate preexisting prothesis patient mismatch**

Presenting Author: Christina Brinkmann

12:55 PM **Discussion**

1:00 PM **TCT 35: Redo Transcatheter Aortic Valve Replacement for Structural and Non Structural Transcatheter Valve Dysfunction: Initial Experience From a Single High Volume Center**

Presenting Author: Lisa Crusius

1:10 PM **Discussion**

1:15 PM **TCT 36: Clinical Predictors of Hypo Attenuated Leaflet Thickening Following Transcatheter Aortic Valve Replacement with 320 Multislice Scanner: A Single Center Experience.**

Presenting Author: Hashrul Rashid

1:25 PM **Discussion**

1:30 PM - 2:30 PM

### Session II. Congenital Heart Disease Interventions

Discussant: Samer Abbas, John P. Breinholt, Matthew J. Daniels, Makram R. Ebeid, Mohammad El Tahlawi, Alexander Grigorievich Osiev

1:30 PM **TCT 37: Moderate to Severe Tricuspid Regurgitation in Adults Undergoing Transcatheter Atrial Septal Defect Closure**

Presenting Author: Yvonne Bach

1:40 PM **Discussion**

1:45 PM **TCT 38: Transcatheter Closure of Coronary Artery Fistula: Clinical and Angiographic Outcomes From a 21 Year Experience at a Single Center**

Presenting Author: Bassim El-Sabawi

1:55 PM **Discussion**

2:00 PM **TCT 39: Long Term Clinical and Echocardiographic Results After PFO Closure with Occlutech Figulla Flex II Device: a Single Center Prospective Registry**

Presenting Author: Daniela Trabattoni

2:10 PM **Discussion**

2:15 PM **TCT 40: Transcatheter versus Surgical Pulmonic Valve Replacement in the United States**

Presenting Author: Sanjay Venkatesh

2:25 PM **Discussion**

WEDNESDAY, SEPTEMBER 25, 2019

3:00 PM - 5:00 PM

Room 213

3:00 PM - 4:00 PM

### Session I. CTO Part I

Moderators: Angela Hoyer, Toshiya Muramatsu  
Discussants: Yaron Almagor, Leszek Bryniarski, Debabrata Dash, Jasvinder Singh, Carlos E. Uribe

3:00 PM **TCT 97: Subintimal Versus Intraplaque Recanalization of Coronary Chronic Total Occlusions Mid term Angiographic and Optical Coherence Tomography Findings from the ISAR OCT CTO Registry**

Presenting Author: Erion Xhepa

3:10 PM **Discussion**

3:15 PM **TCT 98: Five Year Clinical Results of Full Metal Jacket With Drug Eluting Stents for Coronary Chronic Total Occlusion**

Presenting Author: Lei Song

3:25 PM **Discussion**

3:30 PM **TCT 99: Outcomes with retrograde vs. antegrade chronic total occlusion revascularization**

Presenting Author: Michael Megaly

3:40 PM **Discussion**

3:45 PM **TCT 100: Impact of Appropriate Indications on Clinical Outcomes after CTO PCI: Immediate and 5 Year Results in 2659 Consecutive Patients**

Presenting Author: Changdong Guan

3:55 PM **Discussion**

4:00 PM - 5:00 PM

### Session II. CTO Part II

Moderators: Bradley H. Strauss  
Discussants: Yasushi Asakura, Gregory Barsness, Mauro Carlino, Alfredo R. Galassi, Pravin K. Goel, Edward J. McNulty

4:00 PM **TCT 101: Percutaneous Coronary Intervention of Aorto ostial Coronary Chronic Total Occlusion: Results and Technical Implications From a Multicenter Registry**

Presenting Author: Soledad Ojeda

4:10 PM **Discussion**

4:15 PM **TCT 102: Impact of Coronary Artery Bypass history in patients undergoing Chronic Total Occlusion Percutaneous Coronary Intervention: procedural and clinical outcomes from the Registry of CrossBoss and Hybrid Procedures in France The Netherlands Belgium and United Kingdom RECHARGE**

Presenting Author: Simone Budassi

4:25 PM **Discussion**

4:30 PM **TCT 103: Wire Location by IVUS Strongly Predicts Procedural Success in the Retrograde Approach for Chronic Total Occlusions**

## CTO INTERVENTIONS

### CTO Interventions

Coronary: CHIP



Presenting Author: Yongzhen Fan

- 4:40 PM Discussion  
4:45 PM TCT 104: EFFICACY AND SAFETY OF THE NOVACROSS MICROCATHETER FOR CHRONIC TOTAL OCCLUSIONS: AN EXPANDED SAFETY STUDY  
Presenting Author: Simon J. Walsh  
4:55 PM Discussion

## COMPLEX PCI AND LEFT MAIN INTERVENTIONS

### Complex PCI and Left Main Interventions

Coronary: CHIP

WEDNESDAY, SEPTEMBER 25, 2019

3:00 PM - 5:00 PM

Room 207

3:00 PM - 4:00 PM

#### Session I. Complex PCI

Moderators: Christophe Dubois, Massimo Napodano  
Discussants: Ariel Duran, Sohail Q. Khan, Michael C. C. Kim, Bernardo Kremer Diniz Gonçalves, Ayman Abou El Magd, Jamil Abdalla Saad

- 3:00 PM TCT 65: Long Term Outcomes of In Stent Restenosis Percutaneous Coronary Intervention Among Medicare Beneficiaries  
Presenting Author: Hector Tamez
- 3:10 PM Discussion  
3:15 PM TCT 66: Buddying Up for CHIP PCI: Does Having a Friend Reduce the Pain  
Presenting Author: tim kinnaird
- 3:25 PM Discussion  
3:30 PM TCT 67: Predictors and Outcomes After Stent Failure Is Treated with Either CABG or PCI: An Individual Patient Data Pooled Analysis From 32880 Patients  
Presenting Author: Zhaoyang Chen
- 3:40 PM Discussion  
3:45 PM TCT 68: Influence of Final Kissing Balloon Inflation on Long term Outcomes After PCI of Distal Left Main Bifurcation Lesions: Analysis from the EXCEL Trial  
Presenting Author: Annapoorna Kini
- 3:55 PM Discussion

4:00 PM - 5:00 PM

#### Session II. Left main interventions

Moderators: Alfredo E. Rodriguez  
Discussants: Jose A. Alvarez, Diego D. Grinfeld, Hosam Hasan, Michal J. Hawranek, Yutaka Hikichi, Salvatore F. Mannino

- 4:00 PM TCT 69: A Prospective Multi center Randomized Study to Evaluate the Optimal Strategy for Side Branch Treatment in Patients with Left Main Coronary Bifurcation Lesion SMART STRATEGY II  
Presenting Author: Kim Jihoon

- 4:10 PM Discussion  
4:15 PM TCT 70: Intravascular Imaging for Unprotected Left Main Stem PCI: a Survival analysis of 11264 cases from the British Cardiovascular Intervention Society National Database  
Presenting Author: tim kinnaird
- 4:25 PM Discussion  
4:30 PM TCT 71: Impact of Intravascular Ultrasound Guidance on Long Term 10 Year Mortality and Adverse Cardiovascular Events in Percutaneous Coronary Intervention for Unprotected Left Main Coronary Artery Disease  
Presenting Author: Do-yoon Kang
- 4:40 PM Discussion  
4:45 PM TCT 72: Validation of Complex Bifurcation Lesion Definition and Comparing Stenting Strategy in a Large Cohort of Patients with Left Main Bifurcation  
Presenting Author: Juan Wang
- 4:55 PM Discussion

## HYPERTENSION AND HEART FAILURE THERAPIES

### Hypertension and Heart Failure Therapies

Vascular

WEDNESDAY, SEPTEMBER 25, 2019

3:00 PM - 5:00 PM

Room 203

3:00 PM - 4:00 PM

#### Session I. Renal denervation

Moderators: Joost Daemen  
Discussants: Mark C. Bates, Adam Janas, Michael Jonas, Ivo Petrov, C. Venkata S. Ram

- 3:00 PM TCT 81: Quantification of Procedural and Anatomical Determinants of Multi electrode Renal Denervation  
Presenting Author: Abraham Tzafri
- 3:10 PM Discussion  
3:15 PM TCT 82: Long Term Clinical Outcomes After Renal Denervation in an Asian Population: Results From the Global SYMPPLICITY Registry in South Korea GSR Korea  
Presenting Author: Byeong-Keuk Kim
- 3:25 PM Discussion  
3:30 PM TCT 83: Effects of Catheter Based Renal Denervation on Left Ventricular Function Assessed by Two Dimensional Speckle Tracking Echocardiography  
Presenting Author: Lucas Lauder
- 3:40 PM Discussion  
3:45 PM TCT 84: Renal Denervation With Symplicity Spyral Catheter in the Global Symplicity Registry: Safety and Efficacy at 3 Years  
3:55 PM Discussion

4:00 PM - 5:00 PM

**Session II. Heart Failure Therapies**

Moderators: Bernard J. Gersh, Christopher O'Connor Discussants: Otavio Berwanger, Tomasz Jadczyk, Abdullah Al Shafi Majumder, Bilal Mohyidin, Shashank Shekhar Sinha

- 4:00 PM **TCT 85: Minimally invasive catheter based deactivation of left ventricular device without surgical explantation**  
*Presenting Author: Arif Albulushi*
- 4:10 PM **Discussion**
- 4:15 PM **TCT 86: Cardiac autonomic nerves stimulation improves hemodynamics and clinical status in advanced heart failure patients**  
*Presenting Author: Michael Cuchiara*
- 4:25 PM **Discussion**
- 4:30 PM **TCT 87: Levoatrial to coronary sinus shunting as a novel strategy for symptomatic heart failure: first in human experience**  
*Presenting Author: Benjamin Hibbert*
- 4:40 PM **Discussion**
- 4:45 PM **TCT 88: Six Month Outcomes of an Early Feasibility Study of the AccuCinch Left Ventricular Repair System in Patients with Heart Failure and Functional Mitral Regurgitation**  
*Presenting Author: Mark Reisman*
- 4:55 PM **Discussion**

*Presenting Author: Jens Erik Nielsen-Kudsk*

- 3:40 PM **Discussion**
- 3:45 PM **TCT 116: Peri device leaks following transcatheter left atrial appendage occlusion with the Amplatzer devices: Correlation between cardiac CT and transesophageal echocardiography**  
*Presenting Author: Kasper Korsholm*
- 3:55 PM **Discussion**

4:00 PM - 5:00 PM

**Session II. Acute and Chronic Pulmonary Emboli Therapies**

Moderators: Jay S. Giri, Amit Segev Discussants: Matthew D. Bacchetta, Seiichi Hiramori, Maddury Jyotsna, Akhilesh K. Sista

- 4:00 PM **TCT 117: Novel optical coherence tomography classification of intravascular lesions in patients with chronic thromboembolic pulmonary hypertension treated with balloon pulmonary angioplasty.**  
*Presenting Author: Stanislaw Jankiewicz*
- 4:10 PM **Discussion**
- 4:15 PM **TCT 118: Balloon pulmonary angioplasty for segmental and sub segmental thromboembolic lesions in patients with chronic thromboembolic pulmonary hypertension**  
*Presenting Author: Vladimir Losev*
- 4:25 PM **Discussion**
- 4:30 PM **TCT 119: Reduced Mortality in Severe PE with Ultrasound Assisted Catheter Directed Thrombolysis: A Single Center Experience.**  
*Presenting Author: Shayan Nabavi Nouri*
- 4:40 PM **Discussion**
- 4:45 PM **TCT 120: Utilization of Percutaneous Thrombectomy in Patients with Massive and Very High risk Submassive Acute Pulmonary Embolism**  
*Presenting Author: Catalin Toma*
- 4:55 PM **Discussion**

## LAA CLOSURE AND PULMONARY EMBOLI THERAPIES

### LAA Closure and Pulmonary Emboli Therapies

Structural: Non-Valve

WEDNESDAY, SEPTEMBER 25, 2019

3:00 PM - 5:00 PM

Moscone South, Level Two, Room 216

3:00 PM - 4:00 PM

**Session I. Left atrial appendage closure**

Moderators: Randall J. Lee, Petr Neuzil Discussants: Marek Grygier, Jamie Kim, Marco G. Mennuni, Thomas Schmitz, Zoltan G. Turi

- 3:00 PM **TCT 113: Adverse Events after Left Atrial Appendage Closure: Lessons Learned from the Manufacturer and User Facility Device Experience MAUDE database.**  
*Presenting Author: Swaiman Singh*
- 3:10 PM **Discussion**
- 3:15 PM **TCT 114: Comparative Data on Left Atrial Appendage Occlusion Efficacy and Clinical Outcomes by Age Group in the Amplatzer Amulet Observational Study**  
*Presenting Author: Xavier Freixa*
- 3:25 PM **Discussion**
- 3:30 PM **TCT 115: The novel Watchman FLX for left atrial appendage closure. Early European experience.**

## MITRAL AND TRICUSPID VALVE INTERVENTIONS

### Mitral and Tricuspid Valve Interventions

Structural: Valve

WEDNESDAY, SEPTEMBER 25, 2019

3:00 PM - 5:00 PM

Room 215

3:00 PM - 4:00 PM

**Session I. Mitral Valve Interventions**

Moderators: Saibal Kar, Alfredo Trento Discussants: Sukhdeep Singh Basra, Eduardo De Marchena, Christian Frerker, George Gellert, Jan Harnek

- 3:00 PM **TCT 89: Right to Left Shunt through Iatrogenic Atrial Septal Defect after MitraClip Procedure**  
*Presenting Author: Takao Morikawa*

- 3:10 PM **Discussion**  
 3:15 PM **TCT 90: Electrosurgical LAceration and STAbilization of a MitraClipELASTA Clip**  
*Presenting Author: John Lisko*
- 3:25 PM **Discussion**  
 3:30 PM **TCT 91: One Year Outcomes From the Multicenter Prospective Study With the Novel PASCAL Transcatheter Valve Repair System for Patients With Mitral Regurgitation in the CLASP Study**  
*Presenting Author: Saibal Kar*
- 3:40 PM **Discussion**  
 3:45 PM **TCT 92: Antegrade LAMPOON Intentional Percutaneous Laceration of the Anterior Mitral Leaflet to Prevent Outflow Obstruction: A Novel Modification of the Previously Described Retrograde LAMPOON is a Technically Feasible Reproducible Effective and Safe Modification of This Procedure**  
*Presenting Author: Isida Byku*
- 3:55 PM **Discussion**

4:00 PM - 5:00 PM

**Session II. Tricuspid Valve Interventions**

*Moderators: Karl-Heinz KuckDiscussants: Jörg Hausleiter, Robert J. Lederman, Georg Lutter, G. Burkhard Mackensen, Randolph P. Martin, Maurizio Taramasso*

- 4:00 PM **TCT 93: Results From the Early Feasibility Study of CardiobandTricuspid System for Functional Tricuspid Regurgitation**  
*Presenting Author: William A. Gray*
- 4:10 PM **Discussion**  
 4:15 PM **TCT 94: A Radial Force Independent Bioprosthesis for Transcatheter Tricuspid Valve Implantation: First in man Clinical Trial**  
*Presenting Author: Haibo Zhang*
- 4:25 PM **Discussion**  
 4:30 PM **TCT 95: A novel approach to percutaneous removal of Right sided valvular vegetations using suction filtration and venovenous bypass circuit**  
*Presenting Author: Mahammed Khan suheb*
- 4:40 PM **Discussion**  
 4:45 PM **TCT 96: Tricuspid Valve in Valve and Bioprosthetic Surgical Tricuspid and Pulmonic Valve Degeneration: Lessons from Imaging and Histopathology**  
*Presenting Author: Stephanie Sellers*
- 4:55 PM **Discussion**

3:00 PM - 4:00 PM

**Session I. Novel TAVR Data**

*Moderators: Jorge A. BelardiDiscussants: Tiziana Claudia Aranzulla, Matjaz Bunc, Aakriti Gupta, Simon Cheung-chi Lam, Phillip A. MacCarthy, Alfredo Marchese*

- 3:00 PM **TCT 73: The Relative Effects of New Pacemakers versus Left Bundle Branch Block on Clinical and Echocardiographic Outcomes in the PARTNER Trials**  
*Presenting Author: Jose M. Dizon*
- 3:10 PM **Discussion**  
 3:15 PM **TCT 74: Baseline Left Ventricular Hypertrophy and Five Year Outcomes after Transcatheter Aortic Valve Replacement: An Analysis of the PARTNER Trials and Registries**  
*Presenting Author: Holly Gonzales*
- 3:25 PM **Discussion**  
 3:30 PM **TCT 75: Infective Endocarditis After Transcatheter Aortic Valve Replacement: Findings From a UK Nationwide Linkage Study**  
*Presenting Author: Tom Cahill*
- 3:40 PM **Discussion**  
 3:45 PM **TCT 76: Mid term Outcomes after Transcatheter Aortic Valve Replacement with a Mechanically expanded versus Self Expandable Valve: 3 year Results from the REPRISE III Randomized Trial**  
*Presenting Author: David G. Rizik*
- 3:55 PM **Discussion**

4:00 PM - 5:00 PM

**Session II. Novel TAVR Data**

*Moderators: Alain G. Cribier, Hans R. FigullaDiscussants: Cameron Dowling, Karim El Chilali, Vivek Gupta, Vijay Iyer, Jan Kovac, Gerhard C. Schuler*

- 4:00 PM **TCT 77: Transcarotid Versus SubclavianAxillary Access for Transcatheter Aortic Valve Replacement: Real World Comparative Outcomes Utilizing the TVT Registry**  
*Presenting Author: James B. Hermiller Jr*
- 4:10 PM **Discussion**  
 4:15 PM **TCT 78: Transcatheter Aortic Valve Replacement in Patients With Large and Extra Large Aortic Annuli: Hemodynamic Performance of New Generation Balloon and Self Expandable Aortic Valves.**  
*Presenting Author: Luis Nombela-Franco*
- 4:25 PM **Discussion**  
 4:30 PM **TCT 79: Multimodality Assessment of Prosthetic Valve Regurgitation to Predict Reverse Cardiac Remodeling and Long term Clinical Outcomes after Transcatheter Aortic Valve Replacement Results From the Prospective POST TAVI Registry**  
*Presenting Author: Mohammad Abdelghani*
- 4:40 PM **Discussion**  
 4:45 PM **TCT 80: Predictors of residual significant mean gradient after TAVR in bicuspid aortic valve stenosis: insights from the BEAT international collaborative registry.**  
*Presenting Author: Antonio Mangieri*

## NOVEL TAVR DATA

### Novel TAVR Data

Structural: Valve

WEDNESDAY, SEPTEMBER 25, 2019

3:00 PM - 5:00 PM

Room 209-210

## PHYSIOLOGIC GUIDANCE: HYPEREMIC, BASAL AND ANGIOGRAPHIC STUDIES

### Physiologic Guidance: Hyperemic, Basal and Angiographic Studies

Coronary: Core

WEDNESDAY, SEPTEMBER 25, 2019

3:00 PM - 5:00 PM

Room 211

3:00 PM - 4:15 PM

#### Session I. FFR and iFR

Moderators: Justin E. Davies, Morton J. Kern Discussants: Jung-Min Ahn, Walter Desmet, David Erlinge, Allen Jeremias, Shahar Lavi, Joo Myung Lee

3:00 PM **TCT 105: Diagnostic Performance of Fractional Flow Reserve and Instantaneous Wave free Ratio in LAD and non LAD: Results of Iberian Dutch English IDEAL LAD Study.**  
Presenting Author: Yuetsu Kikuta

3:10 PM Discussion

3:15 PM **TCT 106: FFR in non culprits in STEMI: a substudy of the COMPARE ACUTE trial**  
Presenting Author: Zsolt Piroth

3:25 PM Discussion

3:30 PM **TCT 107: An Attenuated Response to Adenosine Secondary to Coronary Microvascular Dysfunction in Patients Undergoing Fractional Flow Reserve FFR Assessment.**  
Presenting Author: David E. Barton

3:40 PM Discussion

3:45 PM **TCT 108: Physiologic Characteristics and Clinical Outcomes of Patients with Discordance Between Fractional Flow Reserve and Instantaneous Wave Free Ratio**  
Presenting Author: Seung Hun Lee

3:55 PM Discussion

4:00 PM **TCT 109: Inaccuracy of FFR in Clinical Practice: A High Volume Single Center Experience**  
Presenting Author: Ankita Gore

4:10 PM Discussion

4:15 PM - 5:00 PM

#### Session II. Angiography-based FFR

Moderators: Niels R. Holm, Bo Xu Discussants: Javier Escaned, Paul Knaepen, Ran Kornowski, Alexandra J. Lansky, Amir Lerman, Shengxian Tu

4:15 PM **TCT 110: The Prognostic Value of Angiography Based vessel FFR after successful Percutaneous Coronary Intervention: The FAST Outcome study**  
Presenting Author: Kaneshka Masdjedi

4:25 PM Discussion

4:30 PM **TCT 111: Clinical implication of quantitative flow ratio after percutaneous coronary intervention for three vessel disease**  
Presenting Author: Norihiro Kogame

4:40 PM Discussion

4:45 PM **TCT 112: Comparison Between the Diagnostic Performance of Quantitative Flow Ratio and Myocardial Perfusion Imaging for Detecting Myocardial Ischemia**  
Presenting Author: Pepijn van Diemen

4:55 PM Discussion

## THURSDAY, SEPTEMBER 26, 2019

### MAIN ARENA I, THURSDAY, SEPT. 26

Main Arena I, Thursday, Sept. 26

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 1:15 PM

Main Arena

8:00 AM - 9:25 AM

#### Live Cases #1

Live Case Moderators: Martin B. Leon Live Case Co-Moderators: Ran Kornowski Live Case Discussants: Yaron Almagor, Alain G. Cribier, Tony J. DeMartini, Darshan Doshi, Pamela S. Douglas, Susheel K. Kodali, Chaim S. Lotan, Randolph P. Martin, Jeffrey J. Popma, Michael J. Reardon, Georgios Sianos

8:00 AM **NYPH Columbia University Medical Center New York NY CHIPCTO**

Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Guest Operators: Antonio Colombo, William Nicholson

8:40 AM **Hadassah Medical Center Hadassah Israel SHD**

Live Case Operator: Ronen Beeri, Haim Danenberg, Chaim S. Lotan, David Planer, Mony Shuvy

9:25 AM - 9:30 AM

#### TCT Welcome Message

9:25 AM **Welcome Message Video**

Moderator: Juan F. Granada, Martin B. Leon, Gregg W. Stone

9:30 AM - 10:15 AM

#### Featured Lecture: Healthcare, Remixed by Dr. Zubin Damania

10:15 AM - 10:30 AM

#### Career Achievement Award

Moderators: Martin B. Leon, Gregg W. Stone Award Recipients: Robert O. Bonow

10:15 AM **Career Achievement Award Presentation**

Lecturer: Martin B. Leon

10:30 AM - 11:30 AM

#### Late-Breaking Trials 1, Co-Sponsored by Lancet

- 10:30 AM **TWILIGHT: A Randomized Trial of Ticagrelor Monotherapy vs. Ticagrelor Plus Aspirin Beginning at 3 Months in High Risk Patients Undergoing PCI**  
*Lecturer: Roxana Mehran*
- 10:42 AM **Roundtable Discussion With Audience QA**
- 10:50 AM **Onyx ONE: A Randomized Trial of a Durable Polymer Drug Eluting Stent vs. a Polymer Free Drug Coated Stent in Patients at High Risk of Bleeding Treated With 1 Month DAPT**  
*Lecturer: Stephan Windecker*
- 11:02 AM **Roundtable Discussion With Audience QA**
- 11:10 AM **IDEAL LM: A Randomized Trial of a Bioabsorbable Polymer DES With 4 Month DAPT vs. a Durable Polymer DES With 12 Month DAPT in Patients With Left Main Coronary Artery Disease**  
*Lecturer: Robert-Jan Van Geuns*
- 11:22 AM **Roundtable Discussion With Audience QA**

11:30 AM - 12:15 PM

**Live Cases #2**

*Live Case Moderators: Michael J. Mack Live Case Co-Moderators: Howard C. Herrmann Live Case Discussants: Michael A. Borger, Stanley J. Chetcuti, Helene Eltchaninoff, Hemal Gada, Martine Gilard, Linda D. Gillam, Amar Krishnaswamy, Catherine M. Otto, Allan Schwartz, Lars Sondergaard, Gilbert H.L. Tang*

- 11:30 AM **St. Pauls Hospital Vancouver Canada SHD**  
*Live Case Operator: John G. Webb, David A. Wood*

12:15 PM - 1:15 PM

**Late-Breaking Science 1, Co-Sponsored by Journal of American College of Cardiology**

*Moderators: David J. Moliterno Discussants: Rasha Al-Lamee, Angeles Alonso Garcia, George D. Dangas, Dmitriy N. Feldman, Dipti Itchhaporia, E. Magnus Ohman, Keith G. Oldroyd, Habib Samady, Nadia R. Sutton Co-Moderators: Y. S. Chandrashekar, Jagat Narula*

- 12:15 PM **EVOLVE Short DAPT: A Single Arm Study of 3 Month DAPT in Patients at High Bleeding Risk Treated With a Bioabsorbable Polymer Based Everolimus Eluting Stent**  
*Lecturer: Ajay J. Kirtane*
- 12:25 PM **Roundtable Discussion With Audience QA**
- 12:30 PM **MODEL U SES: A Single Arm Study of 3 Month DAPT in Patients at High Bleeding Risk Treated With a Bioabsorbable Polymer Based Sirolimus Eluting Stent**  
*Lecturer: Ken Kozuma*
- 12:40 PM **Roundtable Discussion With Audience QA**
- 12:45 PM **AUGUSTUS ACS: A 2x2 Factorial Randomized Trial of Apixaban vs. Warfarin and Aspirin vs. Placebo in Patients With Atrial Fibrillation and an Acute Coronary Syndrome**  
*Lecturer: Stephan Windecker*
- 12:55 PM **Roundtable Discussion With Audience QA**
- 1:00 PM **TWILIGHT Thrombogenicity Substudy: Impact of Ticagrelor Alone vs. Ticagrelor Plus Aspirin on Ex Vivo Blood Thrombogenicity in High Risk Patients Undergoing PCI**  
*Lecturer: Usman Baber*
- 1:10 PM **Roundtable Discussion With Audience QA**

## LIVE CASE TRANSMISSION THEATER I, THURSDAY, SEPT. 26

Live Case Transmission Theater I, Thursday, Sept. 26

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 12:00 PM

Live Case Theater

8:00 AM - 9:30 AM

**Session I. Live Cases: Coronary and Left Main/Bifurcation**

*Live Case Moderators: Ajay J. Kirtane Live Case Discussants: Khaldoon F. Alaswad, Adrian P. Banning, Andrejs Erglis, Jean FAJADET, Ehtisham Mahmud, John A. Ormiston, Seung-Jung Park, Teguh Santoso, Samin K. Sharma, R. Michael Wyman*

- 8:00 AM **Minneapolis Heart Institute Minneapolis MN**  
*Live Case Operator: Emmanouil S. Brilakis, Paul Sorajja*

- 8:45 AM **NYPHColumbia University Medical Center New York NY**  
*Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Guest Operators: Antonio Colombo, William Nicholson*

9:30 AM - 11:00 AM

**Session II. Live Cases: SHD**

*Live Case Moderators: David H. Adams Live Case Co-Moderators: Samir R. Kapadia Live Case Discussants: Saif Anwaruddin, Charles J. Davidson, Chandan Devireddy, Neil P. Fam, Rebecca T. Hahn, Chaim S. Lotan, Jason H. Rogers, Molly Szerlip, Maurizio Taramasso, Dee Dee Wang*

- 9:30 AM **Minneapolis Heart Institute Minneapolis MN**  
*Live Case Operator: Emmanouil S. Brilakis, Paul Sorajja*

- 10:15 AM **Hadassah Medical Center Hadassah Israel**  
*Live Case Operator: Ronen Beerli, Haim Danenberg, David Planer, Mony Shuvy*

11:00 AM - 12:00 PM

**Session III. Live Cases: Coronary**

*Live Case Moderators: James C. Spratt Live Case Co-Moderators: Roxana Mehran Live Case Discussants: Yasushi Asakura, Alfredo R. Galassi, Jonathan M. Hill, Farouc A. Jaffer, Sudhir Rathore, Habib Samady, Satoru Sumitsuji, Jennifer A. Tremmel, Simon J. Walsh, Robert W. Yeh*

- 11:00 AM **NYPHColumbia University Medical Center**  
*Live Case Operators: Dimitri Karpaliotis, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Operators: Dimitri Karpaliotis, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Operators: Dimitri Karpaliotis, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Guest Operators: Antonio Colombo, William Nicholson*

## LIVE CASE TRANSMISSION THEATER II, THURSDAY, SEPT. 26

Live Case Transmission Theater II, Thursday, Sept. 26

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 6:00 PM

Live Case Theater



2:00 PM - 3:30 PM

**Session I. Live Cases: CHIP/CTO**

Live Case Moderators: William W. O'Neill Live Case Co-Moderators: Paul S. Teirstein Live Case Discussants: Anthony H. Gershlick, Paul Hsien-Li Kao, Marco A. Perin, Duane S. Pinto, James Sapontis, Mohamed Ahmed Sobhy, Pieter R. Stella, Robert-Jan Van Geuns, Gerald S. Werner

- 2:00 PM **NYPHColumbia University Medical Center New York NY**  
Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh  
Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Operators: Michael B. Collins, Dimitri Karpaliotis, Nicholas J. Lembo, Akiko Maehara, Jeffrey W. Moses, Manish A. Parikh Live Case Guest Operators: Antonio Colombo, William Nicholson
- 2:45 PM **University of Washington Medical Center Seattle WA**  
Live Case Operator: Danny Dvir, Thomas K. Jones, Kathleen Kearney, William L. Lombardi, Mark Reisman

3:30 PM - 6:00 PM

**Session II. Live Cases: SHD**

Live Case Moderators: Azeem Latib Live Case Co-Moderators: Scott Lim Live Case Discussants: David J. Cohen, Sammy Elmariah, Hüseyin Ince, Clifford J. Kavinsky, Omar K. Khalique, Reginald I. Low, Tullio Palmerini, Chet Rihal, Michael Rinaldi, Wilson Y. Szeto, Grayson H. Wheatley

- 3:30 PM **St. Pauls Hospital Vancouver Canada**  
Live Case Operator: John G. Webb, David A. Wood
- 4:15 PM **University of Washington Medical Center Seattle WA**  
Live Case Operator: Danny Dvir, Thomas K. Jones, Kathleen Kearney, William L. Lombardi, James M. McCabe, Mark Reisman
- 5:00 PM **St. Pauls Hospital Vancouver Canada**  
Live Case Operator: John G. Webb, David A. Wood

## METALLIC DES PART 1: STENT DIFFERENCES AND DAPT DURATION

### Metallic DES Part 1: Stent Differences and DAPT Duration

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 10:00 AM

Room 152/154

8:00 AM - 8:32 AM

**Session I: Drug-Eluting Stents — Hot Topics**

Moderators: Robert A. Byrne, Dean J. Kereiakes Discussants: Andreas Baumbach, Jose M. De la Torre Hernandez, Nicolas Foin, Mamas Mamas, Oscar A. Mendiz, Christian M. Spaulding

- 8:00 AM **Clinical Trial Snapshots: Top DES Randomized Trials of the Last 2 Years**  
Lecturer: Mamas Mamas
- 8:10 AM **Opening Debate: Which Metallic DES Should Be on My Cath Lab Shelf**

8:10 AM **Choose Whatever You Want Most Contemporary DES Display Comparable Clinical Performance**  
Lecturer: Stephan Windecker

8:17 AM **Choose Carefully: The Best New Generation DES are Associated With Meaningful Improvements in Performance and Outcomes**  
Lecturer: David E. Kandzari

8:24 AM **Roundtable Discussion With Audience QA**  
Lecturer: David E. Kandzari

8:32 AM - 9:16 AM

**Session II. DES Design and Clinical Outcomes**

Moderators: Juan F. Granada, Michael Joner Discussants: Adnan K. Chhatriwalla, Donald Cutlip, Alope Finn, Renu Virmani, Simon J. Walsh

- 8:32 AM **Impact of Stent Design Features on Vascular Healing and Surface Thrombogenicity: What Really Matters**  
Lecturer: Grzegorz L. Kaluza
- 8:39 AM **The Case for Further Reducing Strut Thickness: Technical Challenges and Clinical Benefits**  
Lecturer: Sripal Bangalore
- 8:47 AM **Biodegradable Polymer DES: Do Clinical Trial Data Support Claims of Superior Safety or Effectiveness**  
Lecturer: Takeshi Kimura
- 8:54 AM **Polymer Free DES: Lessons Learned From Recent Trials**  
Lecturer: Michael Maeng
- 9:01 AM **Pro Healing Stents With Active and Passive Coatings: Latest Clinical Evidence**  
Lecturer: Roxana Mehran
- 9:07 AM **Roundtable Discussion with Audience QA**

9:16 AM - 9:35 AM

**Session III: Novel Metallic Stents From China and India**

Moderators: Ashok Seth, Bo Xu Discussants: Vinay K. Bahl, Junbo Ge, Michael Haude, Henning Kelbæk, Sreenivas Arramraju Kumar, Samuel K. Mathew

- 9:16 AM **Primer on Metallic Stents Developed in China**  
Lecturer: Runlin Gao
- 9:23 AM **Primer on Metallic Stents Developed in India**  
Lecturer: Upendra Kaul
- 9:30 AM **Roundtable Discussion with Audience QA**

9:35 AM - 10:00 AM

**Session IV: DES and DAPT Duration**

Moderators: Alexandre Abizaid, Alexandra J. Lansky Discussants: Hyeon-Cheol Gwon, Kurt Huber, Mitchell W. Krucoff, Marie-Claude Morice, Eliano Pio Navarese, Philip M. Urban

- 9:35 AM **The Low Bleeding Risk Patient: Should DAPT be Tailored Based on Clinical Presentation Anatomic Complexity or DES Type**  
Lecturer: Ajay J. Kirtane
- 9:43 AM **The High Bleeding Risk Patient: Current Recommendations and Overview of Dedicated Trials**  
Lecturer: Stephan Windecker
- 9:51 AM **Roundtable Discussion with Audience QA**

## MITRACLIP STUDIES AND TECHNIQUE

### MitraClip Studies and Technique

Structural: Valve



THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 10:00 AM

Room 155/157

8:00 AM - 8:51 AM

**Session I: MitraClip in DMR and FMR**

Moderators: Gorav Ailawadi, James B. Hermiller Jr  
Discussants: Stefan Anker, Anita Asgar, Blase A. Carabello, Megan Coylewright, Richard Smalling, Frederick G. St. Goar

8:00 AM **DMR: EVEREST II Was a Decade Ago Have MitraClip Techniques and Outcomes Improved**

Lecturer: Stephen H. Little

8:07 AM **Successful Case in Complex Anatomy**

Case Presenter: Gagan D. Singh

8:13 AM **Case of MitraClip Failure in Complex DMR Anatomy**

Case Presenter: Molly Szerlip

8:19 AM **Roundtable Discussion With Audience QA**

8:24 AM **FMR: Two Year MITRA FR Data and Reconciliation With COAPT**

Lecturer: Guillaume Leurent

8:31 AM **Patient Selection for MitraClip in Heart Failure With FMR: What Are the COAPT Criteria and Where if Anywhere Might They Be Stretched**

Lecturer: Milton Packer

8:38 AM **FMR Heart Failure Management: How Should the Heart Team Function**

Lecturer: JoAnn Lindenfeld

8:44 AM **Roundtable Discussion With Audience QA**

8:51 AM - 10:00 AM

**Session II: MitraClip Imaging and Technique Issues**

Moderators: Jeroen J. Bax, Saibal Kar  
Discussants: Stephan Baldus, Victoria Delgado, Olaf Franzen, Joachim Schofer, Neil J. Weissman, Brian K. Whisenant

8:51 AM **What Are the Essential Echocardiographic Characteristics for MitraClip in DMR With Case Examples**

Lecturer: Howard C. Herrmann

8:59 AM **What Are the Essential Echocardiographic Characteristics for MitraClip in FMR With Case Examples**

Lecturer: Federico M. Asch

9:07 AM **Role of CT Imaging for MitraClip Guidance**

Lecturer: Nicolas M. Van Mieghem

9:13 AM **Roundtable Discussion With Audience QA**

9:18 AM **Coaptation Clipping: In the Middle vs. Zip and Clip With Case Examples**

Lecturer: Hüseyin Ince

9:25 AM **Mitral Stenosis Issues After MitraClip: What Are the Stopping Boundaries With Case Examples**

Lecturer: Jörg Hausleiter

9:32 AM **NTR vs. XTR: When How and Why to Use**

Lecturer: Matthew J. Price

9:39 AM **MitraClip in Acute MR and Cardiogenic Shock**

Lecturer: John D. Carroll

9:46 AM **Approaches to Acute and Late MitraClip Failures**

Lecturer: Isaac George

9:53 AM **Roundtable Discussion With Audience QA**

## LARGE-BORE ACCESS AND CLOSURE

### Large-Bore Access and Closure

Vascular

THURSDAY, SEPTEMBER 26, 2019

10:00 AM - 12:00 PM

Room 156/158

10:00 AM - 11:00 AM

**Session I: Practical Skills in Large-Bore Access**

Moderators: Adam B. Greenbaum, Tsuyoshi Kaneko  
Discussants: Amir Kaki, Jaffar Mohammad Khan, Ashish Pershad, Toby Rogers, Ulrich Schäfer, Rajiv Tayal

10:00 AM **Ultrasound Guided Access: Image Interpretation and Utility**  
Lecturer: Mauricio G. Cohen

10:08 AM **Large Bore Vascular Access Site Closure Devices: 2019 and Beyond**  
Lecturer: Zvonimir Krajcar

10:16 AM **Roundtable Discussion With Audience QA**

10:20 AM **Options and Outcomes of Alternative Arterial Access: Carotid Axillary Subclavian Transaortic**  
Lecturer: James M. McCabe

10:28 AM **Axillary Access: Technique and Problem Solving**  
Lecturer: Rajiv Tayal

10:36 AM **Roundtable Discussion With Audience QA**

10:40 AM **Transcaval Access: Technique Outcomes and Innovations**  
Lecturer: Vasilis Babaliaros

10:48 AM **Transcaval Access: Technique and Problem Solving**  
Lecturer: Toby Rogers

10:56 AM **Roundtable Discussion With Audience QA**

11:00 AM - 12:00 PM

**Session II: Case-Based Access Challenges**

Moderators: James M. McCabe, Tamim M. Nazif  
Discussants: Megan Coylewright, David Daniels, Jason Foerst, John K. Forrest, Eric Kirker, Perwaiz M. Meraaj

11:00 AM **Case 1: TAVR With Difficult Access: The Transcarotid Approach**  
Case Presenter: Ethan C. Korngold

11:05 AM **Roundtable Discussion With Audience QA**

- 11:15 AM **Case 1: Resolution**  
*Case Presenter: Ethan C. Korngold*
- 11:20 AM **Case 2: Supported PCI in a Patient With Severe Peripheral Vascular Disease**  
*Case Presenter: Ehrin J. Armstrong*
- 11:25 AM **Roundtable Discussion With Audience QA**
- 11:35 AM **Case 2: Resolution**  
*Case Presenter: Perwaiz M. Meraj*
- 11:40 AM **Case 3: A Large Bore Venous Case With Complications**  
*Case Presenter: David Daniels*
- 11:45 AM **Roundtable Discussion With Audience QA**
- 11:55 AM **Case 3: Resolution**  
*Case Presenter: David Daniels*

- 10:40 AM **Long Term Antithrombotic Therapy After PCI: How Do I Incorporate COMPASS Into My Practice**  
*Lecturer: Shamir R. Mehta*
- 10:47 AM **The Approach to the High Bleeding Risk Patient: The Dos and the Dents**  
*Lecturer: Bernard R. Chevalier*
- 10:54 AM **Roundtable Discussion With Audience QA**
- 11:07 AM **Case Resolution: How Did I Treat and What Happened**  
*Lecturer: Amit N. Vora*

**11:10 AM - 12:00 PM**  
**Alternative Strategies for Secondary Prevention After PCI: Role of Lipid Management, Inflammation, and More**  
*Moderators: C. Michael Gibson, Robert A. Harrington*  
*Discussants: Marc Bonaca, Jaya Chandrasekhar, Kirk N. Garratt, Wolfgang Koenig, Ulf Landmesser, Chiara Melloni*

## PCI PHARMACOTHERAPY: PART 1

### PCI Pharmacotherapy: Part 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

10:00 AM - 12:00 PM

Room 152/154

**10:00 AM - 11:10 AM**

#### The Distinct Role of P2Y12 Inhibitors and Aspirin

*Moderators: Roxana Mehran, Marco Valgimigli*  
*Discussants: Dimitrios Alexopoulos, Usman Baber, Bernard R. Chevalier, Paul Gurbel, David J. Moliterno, Patrick W. Serruys*

10:00 AM **Case Introduction: DAPT Dilemma After a Complex PCI in a High Bleeding Risk Patient**

*Case Presenter: Amit N. Vora*

10:02 AM **Short and Ultrashort DAPT Strategies After Stent Implantation: What Do We Know and Where Are We Going**

*Lecturer: Robert A. Byrne*

10:09 AM **P2Y12 Inhibitor Monotherapy After PCI: Is It Time**

10:09 AM **Insights From GLOBAL LEADERS and GLASSY**

*Lecturer: Pascal Vranckx*

10:16 AM **Insights From TWILIGHT**

*Lecturer: Usman Baber*

10:23 AM **Insights From STOP DAPT 2**

*Lecturer: Takeshi Kimura*

10:28 AM **Insights From SMART CHOICE**

*Lecturer: Joo-Yong Hahn*

10:33 AM **De Escalation: When and How The Role of Platelet Function and Genetic Testing**

*Lecturer: Francesco Franchi*

11:10 AM **Cardiovascular Risk Reduction for Hypertriglyceridemia: Controversies and Recommendations**

*Lecturer: Deepak L. Bhatt*

11:17 AM **Role of PCSK9 Inhibitors Post PCI and ACS**

*Lecturer: Marc S. Sabatine*

11:24 AM **Dont Forget About Your HDL: The AEGIS Program**

*Lecturer: C. Michael Gibson*

11:31 AM **LPa: Not So Little Anymore**

*Lecturer: Carl Lavie*

11:38 AM **Tackling Inflammation: Novel Targets**

*Lecturer: Wolfgang Koenig*

11:45 AM **Novel Approaches in Diabetic Patients After PCI: Role of SGLT2 Inhibitors and Potent Antiplatelet Therapy THEMIS**

*Lecturer: Marc Bonaca*

11:52 AM **Roundtable Discussion With Audience QA**

## INTRAVASCULAR IMAGING STENT GUIDANCE: PART 1 — THE BASICS

### Intravascular Imaging Stent Guidance: Part 1 — The Basics

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 4:00 PM

Room 152/154

**2:00 PM - 3:15 PM**

#### Session I: Basics of IVUS and OCT-Guided Stent Implantation

*Moderators: Evelyn Regar, Giora Weisz*  
*Discussants: Brian K. Courtney, Ioannis Iakovou, Takashi Kubo, Lei Song, Neal Gordon Uren, Junjie Zhang*

2:00 PM **Step by Step IVUS: From Pre Intervention Through Stent Optimization to Assessment of Complications**

*Lecturer: Andrew Sharp*

2:15 PM **Step by Step OCT: From Pre Intervention Through Stent Optimization to Assessment of Complications**

Lecturer: Richard Shlofmitz

2:30 PM **Is NIRS Guided Stent Implantation Ready for Clinical Use**

Lecturer: Ryan D. Madder

2:38 PM **IVUS vs. OCT: What to Use When**

Lecturer: Gary S. Mintz

2:48 PM **Does Intravascular Imaging IVUS/OCT Improve Patient Outcomes From Data and Experience**

Lecturer: Junjie Zhang

3:00 PM **Roundtable Discussion With Audience QA**

3:15 PM - 4:00 PM

**Session II: Case Presentations From Former CRF Intravascular Imaging Fellows — Part 1**

Moderators: Ning Guo, Gary S. Mintz Discussants: Mohamed Abdel-Wahab, Bernardo Cortese, Jose M. De la Torre Hernandez, Liang Dong, Fazila-Tun-Nesa Malik, Natalia Pinilla-Echeverri

3:15 PM **Stent Implantation in a LMCA Lesion With Quadrification Four Daughter Vessels**

Lecturer: Jiancheng Xiu

3:22 PM **Roundtable Discussion With Audience QA**

3:26 PM **A Calcified Nodule Modified by Rotational Atherectomy**

Lecturer: Xiao Wang

3:33 PM **Roundtable Discussion With Audience QA**

3:37 PM **3 Vessel Disease With Diffuse Calcification**

Lecturer: Jun Pu

3:44 PM **Roundtable Discussion With Audience QA**

3:48 PM **Identifying Entry Point Wire Course During CTO PCI**

Lecturer: Junqing Yang

3:55 PM **Roundtable Discussion With Audience QA**

Lecturer: Vivek Y. Reddy

2:20 PM **Roundtable Discussion With Audience QA**

2:28 PM **WATCHMAN: Device Characteristics Procedural Technique Clinical Outcomes Ongoing Studies and Evolution to WATCHMAN FLX**

Lecturer: Saibal Kar

2:43 PM **AMULET: Device Characteristics Procedural Technique Clinical Outcomes and Ongoing Studies**

Lecturer: James B. Hermiller Jr

2:55 PM **LAA Closure in the United States: Update From the NCDR LAAO Registry**

Lecturer: Matthew J. Price

3:02 PM **Roundtable Discussion With Audience QA**

3:13 PM - 4:00 PM

**Session II: LAA Closure — Evolving Concepts**

Moderators: Krzysztof Bartus, David R. Holmes Jr. Discussants: Anibal A. Damonte, Edip Guroi, Kishore J. Harjai, Amar Krishnaswamy, Ulf Landmesser, Peter B. Sick

3:13 PM **Clinical Trial Design Considerations for Next to Market and Next Generation LAAO Devices**

Lecturer: Brian K. Whisenant

3:20 PM **Clinical Rationale for LAA Closure After AF Ablation**

Lecturer: Oussami Wazni

3:27 PM **LAA Closure in Patients With Prior Intracranial Hemorrhage**

Lecturer: Jens Erik Nielsen-Kudsk

3:34 PM **TAVR Followed by LAA Closure: Implications for Bleeding Stroke and HALT**

Lecturer: Fabian Nietlispach

3:41 PM **Epicardial LAAC to Reduce Atrial Fibrillation: AMAZE Rationale and Status**

Lecturer: DJ Lakkireddy

3:48 PM **Roundtable Discussion With Audience QA**

## LEFT ATRIAL APPENDAGE CLOSURE: PART 1 — LAA CLOSURE: CURRENT STATUS AND FUTURE DIRECTIONS TAVR INDICATIONS AND COMPLICATIONS

**Left Atrial Appendage Closure: Part 1 — LAA Closure: Current Status and Future Directions**

Structural: Non-Valve

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 4:00 PM

Room 156/158

2:00 PM - 3:13 PM

**Session I**

Moderators: James B. Hermiller Jr, Matthew J. Price Discussants: Creighton W. Don, Roger J. Laham, Jens Erik Nielsen-Kudsk, Josep Rodés-Cabau, Oussami Wazni, Brian K. Whisenant

2:00 PM **Patient Selection for LAA Closure: Risk Prediction Beyond CHA2DS2VASc and HAS BLED**

Lecturer: Edip Guroi

2:10 PM **LAA Closure vs. NOACs: Pros and Cons PRAGUE 17 and Additional Trials**

**TAVR Indications and Complications**

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 6:10 PM

Room 155/157

2:00 PM - 2:50 PM

**Session I: TAVR in Low Surgical Risk Patients**

Moderators: Robert O. Bonow, Michael J. Mack Discussants: G. Michael Deeb, Robert A. Guyton, Allan Schwartz, Wilson Y. Szeto, Thomas Walther, Stephan Windecker

2:00 PM **The Low Risk TAVR RCTs: Evidence Based Vignettes**

- 2:00 PM **Deep Dive: NEW Insights From the PARTNER 3 Trial**  
*Lecturer: Martin B. Leon*
- 2:08 PM **Deep Dive: NEW Insights From the Evolut Low Risk Trial**  
*Lecturer: Michael J. Reardon*
- 2:16 PM **Roundtable Discussion with Audience QA**
- 2:20 PM **PointCounterpoint: Provocative Views 1**
- 2:20 PM **Remaining Data Gaps After the Low Risk TAVR RCTs**  
*Lecturer: Michael A. Borger*
- 2:28 PM **A Modern Approach to Bioprosthetic Valve Deterioration and Failure: Emerging Data After TAVR**  
*Lecturer: Davide Capodanno*
- 2:36 PM **Roundtable Discussion with Audience QA**
- 2:40 PM **Controversial Low Risk Case Presentation: A 60 Year Old Executive With Severe Symptomatic Aortic Stenosis Tri Leaflet Anatomy and No Co Morbidities Mechanical vs Bioprosthetic Valve SAVR vs TAVR**
- 2:40 PM **Case Presentation**  
*Case Presenter: Steven J. Yakubov*
- 2:43 PM **Roundtable Discussion with Audience QA**  
*Case Presenter: Steven J. Yakubov*

2:50 PM - 4:00 PM

**Session II: Expanding Clinical Indications for TAVR**

*Moderators: Patrick T. O'Gara, Jeffrey J. Popma*  
*Discussants: Gorav Ailawadi, Yaron Almagor, Isaac George, Kentaro Hayashida, Ran Kornowski, Mathew Williams*

- 2:50 PM **Making the Case for**
- 2:50 PM **EARLY TAVR for Severe Asymptomatic AS**  
*Case Presenter: Steven J. Yakubov*
- 3:04 PM **TAVR for Bicuspid Aortic Valve Disease**  
*Case Presenter: Steven J. Yakubov*
- 3:40 PM **TAVR in Moderate AS With Heart Failure**  
*Case Presenter: Steven J. Yakubov*
- 3:50 PM **TAVR for Severe AR In the Right Patients**  
*Case Presenter: Steven J. Yakubov*

4:00 PM - 5:20 PM

**Session III: Early- and Late-TAVR Complications — 3 Old Friends and 3 New Concerns**

*Moderators: Colin M. Barker, Samir R. Kapadia*  
*Discussants: Michael Haude, Alexandra J. Lansky, Jonathon A. Leipsic, Axel Linke, Molly Szerlip, Jochen Wohrle*

- 4:00 PM **PointCounterpoint: Provocative Views 2**
- 4:00 PM **Strokes After TAVR Are Rare and Cerebral Protection Is Unnecessary**  
*Lecturer: David Hildick-Smith*

- 4:08 PM **Any Neurologic Event After TAVR Is Meaningful and Cerebral Protection Reduces Brain Injury**  
*Lecturer: Hemal Gada*

- 4:16 PM **Roundtable Discussion with Audience QA**  
*Lecturer: Hemal Gada*

- 4:20 PM **Conduction Disturbances After TAVR: Current Thinking and Clinical Relevance**  
*Lecturer: Tamim M. Nazif*

- 4:30 PM **Roundtable Discussion with Audience QA**
- 4:33 PM **Is Paravalvular Regurgitation Still a Worrisome Complication With New Generation TAVR Systems**  
*Lecturer: Philippe Pibarot*

- 4:43 PM **Roundtable Discussion with Audience QA**
- 4:46 PM **Valve Leaflet Thickening and Thrombosis: Definitions Frequency Management and Clinical Importance**  
*Lecturer: Lars Sondergaard*

- 4:56 PM **Roundtable Discussion with Audience QA**
- 5:00 PM **The Growing Concern of Coronary Access After TAVR: Procedural Problem Solving and Impact on TAVR Device Choices**  
*Lecturer: James B. Hermiller Jr*

- 5:08 PM **Roundtable Discussion with Audience QA**
- 5:10 PM **TAVR Bioprosthetic Valve Failure REDO TAVR: Frequency and Management Including TAV in TAV**  
*Lecturer: Uri Landes*

- 5:18 PM **Roundtable Discussion with Audience QA**

5:20 PM - 6:10 PM

**Session IV: TAVR "Real-World Complex Case Scenarios" — Clinical Corner**

*Moderators: Vinod H. Thourani*  
*Discussants: Suzanne V. Arnold, Mayra Guerrero, Jan Kovac, Amisha Patel, David G. Rizik, Steven J. Yakubov*

- 5:20 PM **TAVR in a Small Aortic Annulus: Case Presentation and Management Strategies**  
*Lecturer: Josep Rodés-Cabau*
- 5:27 PM **Roundtable Discussion with Audience QA**
- 5:30 PM **TAVR With Concomitant Complex Coronary Disease: Case Presentation and Management Strategies Chronic CAD vs ACS Syndromes**  
*Lecturer: David Hildick-Smith*
- 5:37 PM **Roundtable Discussion with Audience QA**
- 5:40 PM **TAVR in Low Flow Low Gradient AS: Case Presentations Diagnostic Algorithms and Management Strategies**  
*Lecturer: Howard C. Herrmann*
- 5:47 PM **Roundtable Discussion with Audience QA**
- 5:50 PM **Severe Symptomatic AS and Moderate Severe MR: Case Presentation and Management Strategies**  
*Lecturer: Anita Asgar*
- 5:57 PM **Roundtable Discussion with Audience QA**
- 6:00 PM **TAVR With High Risk for Coronary Obstruction Low Coronaries and Effaced Sinuses: Case Presentation and Management Strategies How to Protect the Coronaries BASILICA etc.**  
*Lecturer: John K. Forrest*

## THE LEFT MAIN AND BIFURCATION SUMMIT: PART 1

### The Left Main and Bifurcation Summit: Part 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 4:00 PM

Room 151/153

2:00 PM - 2:44 PM

#### Session I: Non-LM Bifurcation PCI — Understand the Lesion

Moderators: Goran Stankovic, Leif Thuessen  
Discussants: Andrea Abizaid, Shao-Liang Chen, Javier Escaned, Mirosław Ferenc, Bill D. Gogas, Hyeon-Cheol Gwon

- 2:00 PM **When Is a Side Branch Clinically Relevant**  
Lecturer: Yves R. Louvard
- 2:06 PM **Can We and Should We Use FFR/FR to Guide the Bifurcation Strategy**  
Lecturer: Bon-Kwon Koo
- 2:14 PM **IVUS/OCT Guidance of Non LM Bifurcation Stenting: When and How to Use it in Practice**  
Lecturer: Yoshinobu Onuma, Francesco Prati
- 2:22 PM **How to Deal With Difficult Non Left Main Bifurcation Anatomies: Side Branch Access Techniques**  
Lecturer: Philippe Garot
- 2:30 PM **Roundtable Discussion With Audience QA**

2:44 PM - 4:00 PM

#### Session II: Non-LM Bifurcation PCI — Technique Selection

Moderators: Bernard R. Chevalier, Dean J. Kereiakes  
Discussants: Salvatore Brugaletta, Niels R. Holm, Ghassan Kassab, Yves R. Louvard, Samin K. Sharma, Marco Zimarino

- 2:44 PM **How Do I Approach Non Left Main Bifurcation Branch Ostial Lesions**  
Lecturer: Hyeon-Cheol Gwon
- 2:51 PM **When and How to Debulk Bifurcation Lesion**  
Lecturer: Alaide Chieffo
- 2:58 PM **POT re POT other POT or No POT: The Same for All Bifurcations**  
Lecturer: Adrian P. Banning
- 3:05 PM **A New Treatment Classification From European Bifurcation Club**  
Lecturer: Francesco Burzotta
- 3:12 PM **Using Dedicated Bifurcation Stents in Clinical Practice**  
Lecturer: Carlo Briguori
- 3:19 PM **Roundtable Discussion With Audience QA**
- 3:34 PM **An Age Old Debate: 2 Stents vs. 1 for True Bifurcation Lesions**

3:34 PM **An Optimized Upfront Two Stent Strategy a.k.a. DK Crush Is My New Standard**

Lecturer: James B. Hermiller Jr

3:42 PM **Provisional Stenting Remains the Reference and Preserves My Options**

Lecturer: Goran Stankovic

3:50 PM **Roundtable Discussion With Audience QA**

Lecturer: Goran Stankovic

## PHYSIOLOGIC LESION ASSESSMENT AND INTERVENTIONAL PLANNING: PART 1 — CURRENT CONTROVERSIES IN CORONARY PHYSIOLOGY

### Physiologic Lesion Assessment and Interventional Planning: Part 1 — Current Controversies in Coronary Physiology

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 6:00 PM

Room 152/154

4:00 PM - 5:00 PM

#### Session I: Coronary Physiology Assessment in Challenging Patient Subsets

Moderators: William F. Fearon, Morton J. Kern  
Discussants: Colin Berry, Tom J. Ford, Sukhjinder Singh Nijjer, Bruce Samuels, Rajesh V. Swaminathan, Jennifer A. Tremmel

- 4:00 PM **Pathophysiology of the Coronary Circulation in STEMI and NSTEMI**  
Lecturer: William F. Fearon
- 4:07 PM **Case 1: A Patient With STEMI and Multivessel Disease**  
Case Presenter: Colin Berry
- 4:11 PM **Roundtable Discussion With Audience QA**
- 4:16 PM **Pre TAVR Coronary Physiology in Patients With Severe Aortic Stenosis: Are the Results Valid**  
Lecturer: Sukhjinder Singh Nijjer
- 4:23 PM **Is There a Role for Coronary Physiology in Patients Referred for CABG**  
Lecturer: Emanuele Barbato
- 4:30 PM **Roundtable Discussion With Audience QA**
- 4:35 PM **Utility of Coronary Physiology Assessment in the Asymptomatic Patient**  
Lecturer: Stephane Fournier
- 4:42 PM **Value of Assessing Microvascular Function: Core Findings From CorMica and Other Studies**  
Lecturer: Tom J. Ford
- 4:49 PM **Case 2: How Microcirculatory Function Testing Changed My Management in a Patient Without Significant CAD**  
Case Presenter: Bruce Samuels
- 4:54 PM **Roundtable Discussion With Audience QA**

5:00 PM - 6:00 PM

#### Session II: Coronary Physiology in Challenging Anatomic Subsets

- 5:00 PM **Best Diagnostic Modalities to Assess the Left Main Coronary Artery: Physiology Imaging or Both**  
*Lecturer: Andy S. Yong*
- 5:07 PM **Case 3: A Patient With Complex Bifurcation Disease Simplified by Physiology**  
*Case Presenter: Bon-Kwon Koo*
- 5:12 PM **Roundtable Discussion With Audience QA**
- 5:16 PM **Pressure Flow and Long Term Outcomes: Updates From the IRIS Registry**  
*Lecturer: Jung-Min Ahn*
- 5:23 PM **Coronary Physiology During Exercise: Lessons for Interpreting the Results of ORBITA**  
*Lecturer: Christopher Cook*
- 5:30 PM **Roundtable Discussion With Audience QA**
- 5:35 PM **Assessment of Tandem Lesions and Diffuse Disease: How Physiology Helps in Procedural Planning**  
*Lecturer: Andrew Sharp*
- 5:42 PM **Case 4: How Post PCI Physiology Changed My Management**  
*Case Presenter: Barry F. Uretsky*
- 5:47 PM **The Value of Evaluating Shear Stress in Addition to FFR: A Better Predictor for Clinical Events**  
*Lecturer: Habib Samady*
- 5:54 PM **Roundtable Discussion With Audience QA**

- Lecturer: Jay S. Giri*
- 4:42 PM **Catheter Directed Therapy for Acute PE I: Indications Options Outcomes**  
*Lecturer: Vikas Aggarwal*
- 4:52 PM **Catheter Directed Therapy for Acute PE II: Indications Options Outcomes**  
*Lecturer: Thomas M. Tu*
- 5:02 PM **Utility and Risks of Vena Cava Filters to Prevent PE**  
*Lecturer: Riyaz Bashir*
- 5:12 PM **Roundtable Discussion With Audience QA**
- 5:30 PM **Case 1: Interventional Treatment of Acute Pulmonary Emboli**  
*Case Presenter: Philip Green*
- 5:37 PM **Case 2: Interventional Treatment of Acute Pulmonary Emboli**  
*Case Presenter: Andrew J. Klein*
- 5:45 PM **Case 3: Interventional Treatment of Acute Pulmonary Emboli**  
*Case Presenter: Gregory Piazza*
- 5:52 PM **Roundtable Discussion With Audience QA**

## PULMONARY HYPERTENSION AND ACUTE AND CHRONIC PULMONARY EMBOLI THERAPIES: PART 1

## STEMI, CARDIAC ARREST, AND CARDIOGENIC SHOCK: PART 1

### STEMI, Cardiac Arrest, and Cardiogenic Shock: Part 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 6:00 PM

Room 151/153

4:00 PM - 5:00 PM

Session I: STEMI Challenges in 2019

*Moderators: Timothy D. Henry, E. Magnus Ohman*  
*Discussants: David A. Cox, Suzanne de Waha-Thiele, Kelly C. Epps, Dipti Itchhaporia, Sameer Mehta, Binita Shah*

- 4:00 PM **STEMI 2019: Who Are the High Risk Patients**  
*Lecturer: Andreas Baumbach*
- 4:07 PM **A Womans Perspective: Minoca SCAD Takotsubo etc.**  
*Lecturer: Jacqueline Saw*
- 4:14 PM **Get With the Guidelines: Delay 120 min. ED Bypass Registries Public Reporting etc.**  
*Lecturer: Jacqueline E. Tamis-Holland*
- 4:21 PM **No Reflow: How to Prevent It and How to Fix It**  
*Lecturer: Mitul Patel*
- 4:28 PM **Roundtable Discussion With Audience QA**
- 4:35 PM **Infarct Size Reduction: From the First FDA Approved Therapy SSO2 to Novel Approaches**  
*Lecturer: Gregg W. Stone*
- 4:45 PM **LV Unloading to Reduce Infarct Size: Rationale Completed Studies and Ongoing Trials**

### Pulmonary Hypertension and Acute and Chronic Pulmonary Emboli Therapies: Part 1

Vascular

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 6:00 PM

Room 156/158

4:00 PM - 6:00 PM

Session I: Acute Pulmonary Embolism

*Moderators: Robert A. Lookstein, Ido Weinberg*  
*Discussants: Vikas Aggarwal, Herbert D. Aronow, Matthew D. Bacchetta, Jay S. Giri, Andrew J. Klein, Peter P. Monteleone*

- 4:00 PM **Preventing PE in the Cardiac Patient: What Therapies and for Whom**  
*Lecturer: Herbert D. Aronow*
- 4:10 PM **Diagnosing Pulmonary Embolism: A Practical Approach**  
*Lecturer: Ido Weinberg*
- 4:20 PM **PERT: Why and How**  
*Lecturer: Robert A. Lookstein*
- 4:32 PM **Systemic Therapy for Acute PE: Options Effectiveness Safety**



Lecturer: Navin K. Kapur

4:52 PM Roundtable Discussion With Audience QA

5:00 PM - 6:00 PM

Session II: STEMI Controversies

Moderators: Cindy L. Grines, Pieter C. Smits Discussants: George D. Dangas, Anthony H. Gershlick, Sanjit S. Jolly, Tanveer Rab, Shigeru Saito, Binita Shah

5:00 PM Debate 1: The Hub and Spoke Model for STEMI Cardiogenic Shock Cardiac Arrest

5:00 PM Pro: The Only Way to Go

Lecturer: Sean Van Diepen

5:07 PM Con: The Battle Is Won at the Front Line

Lecturer: William J. French

5:14 PM Roundtable Discussion With Audience QA

5:19 PM Complete Revascularization in STEMI with MVD Without Shock: Is the Story COMPLETE

Lecturer: Sameer Mehta

5:27 PM Debate 2: Complete Revascularization in STEMI With MVD and Shock

5:27 PM Infarct Artery PCI Only: CULPRIT Shock Provides the Answer

Lecturer: Holger Thiele

5:33 PM Not So Fast: There Is So Much More to Learn

Lecturer: Pieter C. Smits

5:39 PM Roundtable Discussion With Audience QA

5:44 PM Debate 3: What to Do With SCAD

5:44 PM Case Presentation: A SCAD I Wish I Would Have Fixed

Case Presenter: David A. Cox

5:49 PM Case Presentation: A SCAD I Wish I Would Have Left Alone

Case Presenter: Jacqueline Saw

5:54 PM Roundtable Discussion With Audience QA

8:00 AM TCT Shark Tank Innovation Competition: 4 Year Summary

Lecturer: Juan F. Granada

8:08 AM Jon DeHaan Foundation Award for Interventional Innovation

Lecturer: Robert S. Schwartz

8:13 AM Introduction Rules and Guidelines

Lecturer: Louis Aaron Cannon

8:18 AM TCT Shark Tank Innovation Competition Finalists

8:18 AM Transcatheter Cardiac Leaflet Enhancer CARLEN for Functional Mitral and Tricuspid Regurgitation Nyra Medical

Lecturer: Muralidhar Padala

8:28 AM Sharks Moderated QA

Lecturer: Muralidhar Padala

8:38 AM A New Non Radial Force Transcatheter Tricuspid Valve Replacement LuX Medical

Lecturer: Peng Cao

8:48 AM Sharks Moderated QA

Lecturer: Peng Cao

8:58 AM Rapid non invasive diagnostics for aortic stenosis and heart failure Avicena Vivio

Lecturer: Maria Csete

9:08 AM Sharks Moderated QA

Lecturer: Maria Csete

9:18 AM Restoring Damaged Arteries with Regenerative Stents STENTiT

Lecturer: Mari Sol Cabrera

9:28 AM Sharks Moderated QA

Lecturer: Mari Sol Cabrera

9:38 AM Renal Vein Pressure Decompression for Advanced Decompensated Heart Failure Magenta Medical

Lecturer: David D. Israeli

9:48 AM Sharks Moderated QA

Lecturer: David D. Israeli

9:58 AM Endovenous Valve Formation System for Deep Vein Reflux and Severe Chronic Venous Insufficiency Intervene Blue Leaf

Lecturer: Fletcher Wilson

10:08 AM Sharks Moderated QA

Lecturer: Fletcher Wilson

10:18 AM Creating a Clear Path for Your Continuous ECG Signals SmartMedic

Lecturer: Adrian Maciejewski

10:28 AM Sharks Moderated QA

Lecturer: Adrian Maciejewski

# TCT INNOVATION III. TCT SHARK TANK INNOVATION COMPETITION

## TCT Innovation III. TCT Shark Tank Innovation Competition

Innovation

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 12:00 PM

Innovation & Keynote Theater

8:00 AM - 12:00 PM

TCT Shark Tank Innovation Competition

- 10:38 AM **Early Feasibility of the Metavention Integrated Radio Frequency Nerve Ablation System to Improve Hyperglycemia and Fatty Liver in Type II Diabetic Subjects Metavention**  
*Lecturer: Felix Mahfoud*
- 10:48 AM **Sharks Moderated QA**  
*Lecturer: Felix Mahfoud*
- 10:58 AM **Transcatheter Papillary Muscle Repositioning Cardiac Success**  
*Lecturer: Boaz Manash*
- 11:08 AM **Sharks Moderated QA**  
*Lecturer: Boaz Manash*
- 11:18 AM **A Novel Stentless RF Based Shunt Solution for Advanced Heart Failure Noya Medical**  
*Lecturer: Chaim S. Lotan*
- 11:28 AM **Sharks Moderated QA**  
*Lecturer: Chaim S. Lotan*
- 11:38 AM **Brief Break for Final Jury Deliberations Closed Door**  
*Lecturer: Chaim S. Lotan*
- 11:55 AM **Roundtable Discussion and Announcing Finalists**  
*Lecturer: Chaim S. Lotan*

2:57 PM **Keynote Lecture: Connected Health and Integrated Care: Towards New Models for Chronic Disease Management**  
*Lecturer: C. Michael Gibson*

3:07 PM **Featured Fascinating Lectures**  
*Lecturer: C. Michael Gibson*

3:36 PM **Session XIII: Machine Learning and Disease Risk Prediction Models**

3:36 PM **Fascinating Lecture: Use of Artificial Intelligence to Develop Cardiac Risk Score for Predicting CAD in Next 7 Years**  
*Lecturer: Shiva Kumar*

3:43 PM **Applying Machine Learning to a Regional STEMI Dataset: Employing Neural Networks to Unravel New Patterns to Explain Etiopathology of Stroke after Aspiration Thrombectomy**  
*Lecturer: Keshav R. Nayak*

3:50 PM **Machine Learning for Risk Prediction of Future Clinical Events in Patients with Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention**  
*Lecturer: Park Jin Sup*

3:57 PM **Machine Learning Modelling versus STSACC TVT Score to Predict Mortality after Transcatheter Aortic Valve Replacement**  
*Lecturer: Pavel Overtchouk*

4:04 PM **Moderated Panel Discussion**  
*Lecturer: Pavel Overtchouk*

4:12 PM **Session XIV: Wearables Physiologic Monitoring and Data Sharing**  
*Moderators: Robert A. Harrington*

*Moderators: Robert A. Harrington*  
*Moderators: Robert A. Harrington*  
*Discussants: Stefan Anker, Peter Carson, Neal L. Eigler, Scott Lilly, Chaim S. Lotan*

4:12 PM **Keynote Lecture: Reimagining Cardiology Practice with Wearables and Remote Monitoring**  
*Lecturer: Robert A. Harrington*

4:22 PM **Featured Technological Trends**  
*Lecturer: Robert A. Harrington*

## TCT INNOVATION IV. GLOBAL PERSPECTIVES IN MEDTECH INNOVATION II AND DIGITAL HEALTH CARE

### TCT Innovation IV. Global Perspectives in MedTech Innovation II and Digital Health Care

Innovation

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 5:00 PM

Innovation & Keynote Theater

2:00 PM - 2:57 PM

#### Global Perspectives in MedTech Innovation II

2:00 PM **Session XI: Future Directions and Challenges in the MedTech Field**  
*Moderators: Robert M. Califf, Maulik Majmudar*

*Moderators: Robert M. Califf, Maulik Majmudar*  
*Moderators: Robert M. Califf, Maulik Majmudar*  
*Discussants: Milena Adamian, Yuval Binur, Jay S. Giri, Frank Litvack*

2:00 PM **Featured Lecture: Clinical Validation of Emerging Technologies: In Which Direction is Global Landscape Changing**  
*Lecturer: Mitchell W. Krucoff*

2:08 PM **The Next Big Thing**  
*Lecturer: Mitchell W. Krucoff*

2:57 PM - 5:00 PM

#### Digital Health Care and Advanced Data Analytics

*Moderators: C. Michael Gibson*  
*Discussants: Kenneth W. Mahaffey, Campbell Rogers, Nawal Roy, Partha Sardar, Jeroen Tas*

2:57 PM **Session XII: Digital Hospital Systems and Health Care Delivery**

## FDA TOWN HALL MEETING PART 1: GOALS FOR 2019/2020

### FDA Town Hall Meeting Part 1: Goals for 2019/2020

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 5:35 PM

Room 205-206

2:00 PM - 3:15 PM

#### Session I. CDRH/FDA Evolution: Focus on Total Product Life

*Moderators: Gregg W. Stone, Bram D. Zuckerman*  
*Discussants: Lori M. Ashby, Robert M. Califf, Patrick Conway, Lisa Earnhardt, Aaron V. Kaplan, Mitchell W. Krucoff, William H. Maisel, Ian T. Meredith, Michael A. Mussallem, Sean Salmon, Chuck Simonton*

2:00 PM **Keynote Lecture: FDACDRH The Year in Review Focus on CDRHs Total Product Life Cycle Concept**  
*Lecturer: William H. Maisel*

- 2:15 PM **Keynote Lecture: New Technology Assessment and Reimbursement Synergy Forward Strides**  
*Lecturer: Lori M. Ashby*
- 2:30 PM **2:30 PM 2:45 PM Keynote Lecture: A Vision for an Evolving Regulatory and Health Care System**  
*Lecturer: Robert M. Califf*
- 2:45 PM **Roundtable Discussion with Audience QA Featuring Provocative Thoughts From**
- 2:45 PM **FDA**  
*Discussant: Bram D. Zuckerman*
  - 2:45 PM **Industry**  
*Discussant: Lisa Earnhardt, Ian T. Meredith, Michael A. Mussallem, Sean Salmon*
  - 2:45 PM **Physician/Device Developers**  
*Discussant: Aaron V. Kaplan*
  - 2:45 PM **Clinician Investigators**  
*Discussant: Mitchell W. Krucoff, Martin B. Leon*

3:15 PM - 4:10 PM

**Session II. Special Programs: Update on Early Feasibility and First-in-Human Studies**

*Moderators: Andrew Farb*  
*Discussants: Lori M. Ashby, Lauren S. Baker, George Fazio, Juan F. Granada, Mayra Guerrero, Chip Hance, Aaron V. Kaplan, Martin B. Leon, Michael J. Mack, Neil E. Moat, Chuck Simonton, Jaime Walkowiak, Changfu Wu*

- 3:15 PM **The US EFS and Breakthrough Devices Programs: An FDA Update**  
*Lecturer: Andrew Farb*
- 3:25 PM **Promoting Innovation Through EFS: MDIC Perspectives**  
*Lecturer: Chip Hance*
- 3:32 PM **From EFS to Pivotal Trial: Bridging the Gap and Lessons Learned**  
*Lecturer: A. Pieter Kappetein*
- 3:39 PM **Industrys Perspectives on the US and Non US EFS Landscape**  
*Lecturer: Neil E. Moat*
- 3:46 PM **Roundtable Discussion with Audience QA**

4:10 PM - 5:35 PM

**Session III. Safety Signal Detection and Response Case Example: Paclitaxel-Coated Devices for Femoropopliteal Disease**

*Moderators: Kenneth J. Cavanaugh Jr, Mitchell W. Krucoff*  
*Discussants: Elazer R. Edelman, Andrew Farb, Juan F. Granada, Konstantinos Katsanos, Laura Mauri, Ian T. Meredith, Sahil A. Parikh, Jeffrey J. Popma, Krishna J. Rocha-Singh, Mehdi H. Shishehbor, Ramon L. Varcoe, Eleni Whatley, Robert W. Yeh*

- 4:10 PM **New Insights From Our Meta Analysis of Paclitaxel Coated Device Randomized Trials for SFA Disease and the Response it Has Generated**  
*Lecturer: Konstantinos Katsanos*
- 4:18 PM **Paclitaxel Coated Devices for SFA Disease: An Independent Patient Level Meta Analysis and Other Emerging Data**  
*Lecturer: Krishna J. Rocha-Singh*
- 4:26 PM **Is Paclitaxel Related Mortality From SFA Drug Eluting Technologies Biologically Plausible**

*Lecturer: Elazer R. Edelman*

- 4:34 PM **Drug Eluting Technologies for SFA Disease: Industrys Perspective and a Pathway Forward**  
*Lecturer: Ian T. Meredith*
- 4:42 PM **Informed Consent and Impact on Clinical Practice: A Clinicians Perspective and a Pathway Forward**  
*Lecturer: Sahil A. Parikh*
- 4:50 PM **Potential Study Designs to Address the Mortality Safety Signal**  
*Lecturer: Laura Mauri*
- 4:58 PM **Emerging Safety Signals and FDAs Medical Device Safety Action Plan: Responses to the Late Mortality Signal**  
*Lecturer: Eleni Whatley*
- 5:06 PM **Roundtable Discussion with Audience QA**

## THE STRUCTURAL HEART DISEASE IMAGING SYMPOSIUM: A JOINT SESSION WITH THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY

### The Structural Heart Disease Imaging Symposium: A Joint Session With the American Society of Echocardiography

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 11:00 AM

Room 203

8:00 AM - 9:00 AM

**Session I: Transcatheter Tricuspid Valve Interventions**

*Moderators: Rebecca T. Hahn*  
*Discussants: Richard Bae, João L. Cavalcante, Abdellaziz Dahou, Francesco Faletra, Roberto M. Lang, Thomas Smith*

- 8:00 AM **Echocardiographic Imaging of the Tricuspid Valve: Tips and Tricks**  
*Lecturer: Richard Bae*
- 8:10 AM **Quantification of Tricuspid Regurgitation**  
*Lecturer: João L. Cavalcante*
- 8:25 AM **Defining the TR Population: Key Role of Imaging**  
*Lecturer: Rebecca T. Hahn*
- 8:40 AM **Tricuspid Valve Device Potpourri**  
*Lecturer: Francesco Faletra*
- 8:50 AM **Roundtable Discussion with Audience Q A**

9:00 AM - 10:00 AM

**Session II: Transcatheter Aortic Valve Replacement**

*Moderators: Linda D. Gillam, David Rubenson*  
*Discussants: Jae K. Oh, Philippe Pibarot, Cynthia Taub, William A. Zoghbi*

- 9:00 AM **Deciphering Discordant Measures of Aortic Stenosis**  
*Lecturer: Philippe Pibarot*
- 9:10 AM **Assessment of Transcatheter Aortic Valve Area**  
*Lecturer: Jae K. Oh*

- 9:20 AM **Assessment of Transcatheter Aortic Valve Regurgitation: Guidelines and Beyond**  
*Lecturer: William A. Zoghbi*
- 9:30 AM **A Unified Definition of Structural Valve Dysfunction**  
*Lecturer: Philippe Pibarot*
- 9:40 AM **New Approved and Investigational TAVR Devices**  
*Lecturer: Nadira Hamid*
- 9:50 AM **Roundtable Discussion with Audience Q A**

10:00 AM - 11:00 AM

**Session III: Transcatheter Mitral Valve Interventions**

*Moderators: Nishath Quader, Muhamed Saric*  
*Discussants: Nadira Hamid, Konstantinos P. Koulogiannis, James Lee, Stamatios Lerakis, Stephen H. Little, Alan Vainrib*

- 10:00 AM **Choosing the Appropriate Patient for Edge to Edge Repair**  
*Lecturer: Stephen H. Little*
- 10:10 AM **Defining Mitral Edge to Edge Repair Procedural Success**  
*Lecturer: Federico M. Asch*
- 10:20 AM **Avoiding Complications for Mitral Valve in Valve and Valve in MAC**  
*Lecturer: Victoria Delgado*
- 10:30 AM **Case based Learning: Paravalvular Mitral Prosthetic Regurgitation**  
*Case Presenter: Nishath Quader*
- 10:40 AM **Rapid Fire Review of Transcatheter Mitral Valve Devices**  
*Lecturer: Konstantinos P. Koulogiannis*
- 10:50 AM **Roundtable Discussion with Audience Q A**

- 8:25 AM **Case Introduction**  
*Case Presenter: Li Li*
- 8:29 AM **How Would I Treat**  
*Lecturer: Ning Guo*
- 8:33 AM **How Would I Treat**  
*Lecturer: Bill D. Gogas*
- 8:37 AM **How Would I Treat**  
*Lecturer: Yong Zeng*
- 8:41 AM **Roundtable Discussion With Audience QA**
- 8:49 AM **Case Resolution: How Did I Treat This case**  
*Lecturer: Li Li*
- 8:57 AM **Final Discussion and Take home Messages**

9:00 AM - 9:10 AM

**Session III. Keynote Lecture #2: Intracoronary Imaging Guidance for High-Risk PCI**

- 9:00 AM **Keynote Lecture 2: Intracoronary Imaging Guidance for High Risk PCI**  
*Lecturer: Junjie Zhang*

9:10 AM - 9:45 AM

**Session IV. Case #2: A Complex LAD CTO**

*Moderators: Shao-Liang Chen, Gregg W. Stone, Alan C. Yeung*  
*Discussants: Haibo Jia, Chunguang Qiu, Tanveer Rab, Imad Sheiban, Yi-Da Tang, Fei Ye*

- 9:10 AM **Case Introduction**  
*Case Presenter: Pengcheng He*
- 9:14 AM **How Would I Treat**  
*Lecturer: Jun Pu*
- 9:18 AM **How Would I Treat**  
*Lecturer: YONG HE*
- 9:22 AM **How Would I Treat**  
*Lecturer: Qi Zhang*
- 9:26 AM **Roundtable Discussion With Audience QA**
- 9:34 AM **Case Resolution: How Did I Treat This Case**  
*Case Presenter: Pengcheng He*
- 9:42 AM **Final Discussion and Take home Messages**

## BELT AND ROAD INITIATIVE AT TCT 2019: APPROACH TO HIGH-RISK PCI (EXPERIENCES FROM CHINA)

### Belt and Road Initiative at TCT 2019: Approach to High-risk PCI (Experiences from China)

THURSDAY, SEPTEMBER 26, 2019

8:15 AM - 9:45 AM

Presentation Theater 2

8:15 AM - 8:25 AM

**Sessoion I. Keynote Lecture #1: Current Approach for Left Main Bifurcation Stenting**

*Moderators: Shao-Liang Chen, Gregg W. Stone, Alan C. Yeung*  
*Discussants: Haibo Jia, Chunguang Qiu, Tanveer Rab, Imad Sheiban, Yi-Da Tang, Fei Ye*

- 8:15 AM **Keynote Lecture 1: Current Approach for Left Main Bifurcation Stenting**  
*Lecturer: Shao-Liang Chen*

8:25 AM - 9:00 AM

**Session II. Case #1: A Staged PCI Case of Complex LAD/D1 Bifurcation Lesion After Sub-optimal Primary PCI for STEMI**

## SCAI ELM

### SCAI ELM

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 6:00 PM

Room 301

2:00 PM - 2:10 PM

**Teambuilding in Cardiovascular Medicine**

2:10 PM - 3:15 PM

### Coronary Heart Team

Moderators: Ajay J. Kirtane, Ehtisham Mahmud  
Discussants: Mauricio G. Cohen, Timothy D. Henry, Prashant Kaul, Srihari S. Naidu

- 2:10 PM **Presentation of Case Study**  
Case Presenter: John W. Osborn
- 2:15 PM **Coronary Heart Team Cardiology Perspective**  
Lecturer: Patrick W. Serruys
- 2:35 PM **Coronary Heart Team Surgery Perspective**  
Lecturer: Michael J. Mack
- 2:55 PM **Roundtable Discussion With Audience QA**

3:15 PM - 4:25 PM

### Valve Heart Team

Moderators: George D. Dangas, Matthew J. Daniels  
Discussants: Vinayak N. Bapat, Martyn R. Thomas

- 3:15 PM **Presentation of Case Study**  
Case Presenter: Megan Coylewright
- 3:20 PM **TAVI: The Heart Team IC Perspective**  
Lecturer: Martyn R. Thomas
- 3:35 PM **TAVI: The Heart Team Surgery Perspective**  
Lecturer: Vinayak N. Bapat
- 3:50 PM **TAVI: The Heart Team Imaging Perspective**
- 4:05 PM **Roundtable Discussion With Audience QA**

4:25 PM - 4:35 PM

### Break

4:35 PM - 5:55 PM

### Endovascular Team

Moderators: Dmitriy N. Feldman  
Discussants: Matthew T. Menard, Aman B. Patel, Frank J. Veith, Christopher J. White

- 4:35 PM **Presentation of Case Study**  
Case Presenter: Stephen W. Waldo
- 4:40 PM **Neurovascular Team IC Perspective**  
Lecturer: William A. Gray
- 4:55 PM **Neurovascular Team Neurosurgery Perspective**  
Lecturer: Aman B. Patel
- 5:10 PM **CLI Vascular Team IC Perspective**  
Lecturer: Christopher J. White
- 5:25 PM **CLI Vascular Team Vascular Surgery Perspective**  
Lecturer: Frank J. Veith
- 5:40 PM **Roundtable Discussion With Audience QA**

5:55 PM - 6:00 PM

### Conclusion

Discussant: Matthew J. Daniels, Dmitriy N. Feldman

THURSDAY, SEPTEMBER 26, 2019

2:30 PM - 3:30 PM

Presentation Theater 2

2:30 PM - 3:30 PM

### Japan Endovascular Treatment (JET) @ TCT

Moderators: Osamu Iida, Masato Nakamura  
Discussants: Masahiko Fujihara, Lawrence A. Garcia, Daizo Kawasaki, Tatsuya Nakama, Sahil A. Parikh, Yoshimitsu Soga

- 2:30 PM **Introduction**  
Lecturer: Masato Nakamura
- 2:31 PM **Intravascular Ultrasound Supported Endovascular Therapy in SFA Disease: 12 Months Results From the IVORY Study**  
Lecturer: Osamu Iida
- 2:38 PM **Mortality Risk Following Application of Paclitaxel Coated Devices in Femoropopliteal Lesion: Results From the CAROOT Study**  
Lecturer: Yoshimitsu Soga
- 2:45 PM **Roundtable Discussion With Audience QA**
- 2:50 PM **New Crossing Techniques for Complex Femoropopliteal Disease**  
Lecturer: Makoto Utsunomiya
- 2:57 PM **New Crossing Techniques for Complex Below the Knee Disease**  
Lecturer: Tatsuya Nakama
- 3:04 PM **Roundtable Discussion With Audience QA**
- 3:09 PM **Optimal Vessel Preparation Evaluated by Multimodality Imaging: Results From IGNITE**  
Lecturer: Masahiko Fujihara
- 3:16 PM **One Year Late Lumen Loss With a Polymer Coated Paclitaxel Eluting Stent and a Polymer Free Paclitaxel Coated Stent for Femoropopliteal Disease: Study Results**  
Lecturer: Daizo Kawasaki
- 3:23 PM **Roundtable Discussion With Audience QA**

## OCT GUIDING IN IN-STENT RESTENOSIS (ISR), PRESENTED BY THE NORDIC-BALTIC-BRITISH STUDY GROUP FOR INTERVENTIONAL CARDIOLOGY

OCT Guiding in In-Stent Restenosis (ISR), Presented by the Nordic-Baltic-British Study Group for Interventional Cardiology

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 5:06 PM  
Room 203

## JAPAN ENDOVASCULAR TREATMENT (JET) @ TCT

Japan Endovascular Treatment (JET) @ TCT

4:00 PM - 5:06 PM

### International Session: OCT Guiding in In-Stent Restenosis (ISR)

Moderators: Evald H. Christiansen, Simon J. Walsh  
Discussants: Andrejs Erglis, Peter O'Kane, James C. Spratt

- 4:00 PM **Introduction**
- 4:02 PM **Case 1: OCT Guided Lesion Preparation in ISR**  
Case Presenter: Indulis Kumsars
- 4:09 PM **Case 2: ISR Requires Stepwise OCT Guiding**  
Case Presenter: Jacob Odenstedt
- 4:16 PM **Case 3: Same Strategy With or Without OCT in ISR**  
Case Presenter: Colm Hanratty
- 4:23 PM **Case 4: OCT Guided Laser Therapy in ISR**  
Case Presenter: Peter O'Kane
- 4:30 PM **Case 5: OCT Requires Careful Evaluation in ISR**  
Case Presenter: Lisette Okkels
- 4:37 PM **Case 6 I Used OCT in this Calcified ISR**  
Case Presenter: Peep Laanmets
- 4:44 PM **Case 7 Stent or Drug Coated Balloon in ISR Use OCT**
- 4:51 PM **Case 8 Vein Graft ISR. Findings by OCT**  
Case Presenter: Mette Gitz Charlot
- 4:58 PM **Case 9 ISR: Make a Guess or Get Informed by OCT**  
Case Presenter: Stuart Watkins
- 5:05 PM **Case 10 Take Home Messages**  
Lecturer: Evald H. Christiansen

## INTERNATIONAL COMPLEX CASE SESSION I: FEATURED STRUCTURAL HEART DISEASE CASES

### International Complex Case Session I: Featured Structural Heart Disease Cases

THURSDAY, SEPTEMBER 26, 2019

8:30 AM - 10:30 AM

Presentation Theater 1

8:30 AM - 10:30 AM

### Featured Structural Heart Disease Cases

Moderators: David W.M. Muller, Wojtek Wojakowski  
Discussants: Mohamed Karim Abdelghany, Wacim Buddhari, Carlos D. Calderas, Jose Armando Mangione, Maksym Sokolov, Wei-Hsian Yin

- 8:30 AM **Introduction**  
Lecturer: David W.M. Muller
- 8:35 AM **Slovenia Presents: VIV Treatment of Degenerated Bio Bentall With TAVI**  
Case Presenter: Matjaz Bunc
- 8:45 AM **Roundtable Discussion With Audience QA**
- 8:50 AM **Argentina Presents: Percutaneous Transcatheter Closure of Prosthetic Mitral Paravalvular Leak**

Case Presenter: Anibal A. Damonte

- 9:00 AM **Roundtable Discussion With Audience QA**
- 9:05 AM **Australia Presents: Third Times the Charm An Unusual Interaction**  
Case Presenter: Robert Gooley
- 9:15 AM **Roundtable Discussion With Audience QA**
- 9:20 AM **Austria Presents: TAVR In a Patient With Anomalous Right Coronary Artery Origin From the Left Aortic Sinus**  
Case Presenter: Guy J. Friedrich
- 9:30 AM **Roundtable Discussion With Audience QA**
- 9:35 AM **Hong Kong Presents: TAVR In a Patient With Very Low Ejection Fraction**  
Case Presenter: Kam-Tim Chan
- 9:45 AM **Roundtable Discussion With Audience QA**
- 9:50 AM **Italy Presents: Challenging Transcatheter Pulmonary Valve Implantation Achieved With Innovative Venous Wire Loop Snare Technique**  
Case Presenter: Giuseppe Tarantini
- 10:00 AM **Roundtable Discussion With Audience QA**
- 10:05 AM **Republic of Korea Presents: Thoracic Aorta Dissection by Sheath Catheter of Sapien 3 during TAVI Stabilized By Conservative Measure**  
Case Presenter: Hyo-Soo Kim
- 10:15 AM **Roundtable Discussion With Audience QA**
- 10:20 AM **Final Thoughts**  
Lecturer: Wojtek Wojakowski

## INTERNATIONAL COMPLEX CASE SESSION II: FEATURED COMPLEX CORONARY CASES

### International Complex Case Session II: Featured Complex Coronary Cases

THURSDAY, SEPTEMBER 26, 2019

2:30 PM - 4:00 PM

Presentation Theater 1

2:30 PM - 4:00 PM

### Featured Complex Coronary Cases

Moderators: Jose L. Leiva-Pons  
Discussants: Khalid Al Faraidy, Arturo José Fernandez Murga, Alejandro Goldsmit, José Alfredo Merino Rajme, Marin Postu, Carlos E. Uribe

- 2:30 PM **Introduction**
- 2:35 PM **Colombia Presents: Aortic Valve Trauma as a Complication in Young Patient With Spontaneous Coronary Dissection**  
Case Presenter: Jorge Villegas
- 2:45 PM **Roundtable Discussion With Audience QA**
- 2:50 PM **Germany Presents: Ostium Occlusion of Right Coronary Artery Complex Retrograde Recanalization With Rotablation**



Case Presenter: Jochen Wohrle

- 3:00 PM Roundtable Discussion With Audience QA  
3:05 PM India Presents: Complex Coronary Intervention CTO And Complex Bifurcated Lesions in Two Different Arteries of the Same Patient  
Case Presenter: Rabin dra Nath Chakraborty
- 3:15 PM Roundtable Discussion With Audience QA  
3:20 PM Singapore Presents: Calcified Left Main Stem Bifurcation Angioplasty Using Rotational Arterectomy  
Case Presenter: Paul JL Ong
- 3:30 PM Roundtable Discussion With Audience QA  
3:35 PM Germany Presents: Where Is the Target Lesion  
Case Presenter: Julia Seeger
- 3:45 PM Roundtable Discussion With Audience QA  
3:50 PM Final Thoughts  
Lecturer: Jose L. Leiva-Pons

Case Presenter: Milan A. Nedeljkovic

- 5:00 PM Roundtable Discussion With Audience QA  
5:05 PM Slovenia Presents: Successful Rescue ViV TAVR Procedure in Cardiogenic Shock Patient With Intra Aortic Balloon Pump And Venous Arterial ECMO Support  
Case Presenter: Matjaz Bunc
- 5:15 PM Roundtable Discussion With Audience QA  
5:20 PM Final Thoughts  
Lecturer: Oscar A. Mendiz

## INTERNATIONAL COMPLEX CASE SESSION III: FEATURED STRUCTURAL HEART DISEASE CASES

## CHALLENGING CASES 1

### Challenging Cases 1

Structural: Non-Valve Coronary: Core Coronary: CHIPVascular

THURSDAY, SEPTEMBER 26, 2019

9:15 AM - 10:45 AM

Hall D, Exhibition Level, Moscone South

9:15 AM - 10:45 AM

### Coronary I

Discussant: Khalid Ibrahim Amber, Anthony A. Bavry, Roberto Botelho, Fabio S. Brito Jr., Christopher E. Buller, Warren J. Cantor, Ronald Caputo, Christos Christou, Jorge Cortes Lawrenz, Gregory J. Dehmer, Gerard Finet, Ole Fröbert, Darren Walters, Sung-Han Yoon, Jennifer Yu

- 9:15 AM TCT 1000: 73yo gentleman with NSTEMI. PCI to LMCA after MDT discussion. Admitted for staged PCI to Stubborn calcified ostial RCA. Multiple NC balloon scoreflex and HSRA. IVUS revealed 360 degree calcific napkin ring not yielding. Eventually shockwave intravascular lithotripsy 4.0mm balloon with 80 pulses.  
Presenting Author: Ahmed Mahrous
- 9:15 AM TCT 1001: Off label Use of Peripheral Lithotripsy Device for an Undilatable Coronary Stent due to Severe Coronary Calcification  
Presenting Author: Christine Chung
- 9:15 AM TCT 1002: Successful percutaneous coronary intervention for severe calcified and tortuous functional chronic total occlusion lesion using a novel 0.03 inch semi compliant balloon and rotational atherectomy  
Presenting Author: Daisuke Terashita
- 9:15 AM TCT 1003: Young man with hyperparathyroidism and subtotal heavily calcific LAD D bifurcation lesion done by rotablation  
Presenting Author: Mohammad Shafiq
- 9:15 AM TCT 1004: Rotational atherectomy in a Patient with Acute Right Ventricular Myocardial Infarction and Cardiogenic Shock  
Presenting Author: Monika Durak
- 9:15 AM TCT 1005: Calcified distal left main and intravascular lithotripsy  
Presenting Author: Richard Chang
- 9:15 AM TCT 1006: A successful rotational atherectomy for severely tortuous and calcified lesion with double curves in the left circumflex artery using a 5F child catheter.

### International Complex Case Session III: Featured Structural Heart Disease Cases

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 5:30 PM

Presentation Theater 1

4:00 PM - 5:30 PM

### Featured Structural Heart Disease Cases

Moderators: Oscar A. Mendiz, Armando Perez de Prado  
Discussants: Ricardo A. Costa, Kurt Huber, Martin Hudec, Marco A. Perin, Eun-Seok Shin, Ramiro Trillo

- 4:00 PM Introduction  
Lecturer: Armando Perez de Prado
- 4:05 PM Indonesia Presents: Trans Catheter Mitral Valve In Ring Using MyVal for Treatment Of Severe Mitral Regurgitation After Failed Surgical Ring Annuloplasty  
Case Presenter: Teguh Santoso
- 4:15 PM Roundtable Discussion With Audience QA  
4:20 PM Argentina Presents: Is TAVR an Option for Patients With Bicuspid Aortic Stenosis and Aortic Root Dilatation  
Case Presenter: Anibal A. Damonte
- 4:30 PM Roundtable Discussion With Audience QA  
4:35 PM Portugal Presents: Percutaneous Treatment of Aortic Dissection and Rupture During a Transcatheter Aortic Valve Implantation Procedure  
Case Presenter: Pedro De Araujo Goncalves
- 4:45 PM Roundtable Discussion With Audience QA  
4:50 PM Serbia Presents: A Case of a Patient With Multiple Comorbidities in Setting Limited TAVR Resources

Presenting Author: Ryo Oyama

9:15 AM **TCT 1007: USE OF NOVEL HIGH PRESSURE NC BALLOON FOR CALCIFIC LESIONS**

Presenting Author: Sachin T. Hundekari

9:15 AM **TCT 1008: Brachytherapy And Laser Atherectomy Of Recalcitrant Three Layer In Stent Restenosis In An Anomalous Right Coronary Artery Via Ulnar Access**

Presenting Author: Sameer Nagpal

9:15 AM **TCT 1009: Stuck between a rock and a hard place**

Presenting Author: SAYAH NEILA

9:15 AM **TCT 1010: Changing paradigm for treatment of heavily calcified coronary artery disease: complementary role of rotational atherectomy and intra coronary lithotripsy Shock Wave angioplasty**

Presenting Author: Shana Tehrani

9:15 AM **TCT 1011: Stentablation as a bail out for severe underexpansion of stent due to circumferential calcium**

Presenting Author: Stalin Roy

9:15 AM **TCT 1012: Successful percutaneous extraction of an entrapped rotablation burr during CTO recanalization**

Presenting Author: Tobias Rheude

9:15 AM - 10:45 AM

#### Coronary II

Discussant: Eulogio J. Garcia, Kirk N. Garratt, Alejandro Goldsmit, James A. Goldstein, Tarek Helmy, Borja Ibanez, Yuji Ikari, Ciro Indolfi, Jens R. Jensen, Kee-Sik Kim, Nickolas Nadar Kipshidze, Nick Lakkis, Randall J. Lee

9:15 AM **TCT 1013: 84 YEAR OLD Unstable angina with Calcified vessels and LMCA with Double vessel disease : ROTA with POBA of RCA with LMCA and LAD planned for next sitting**

Presenting Author: Vivek Gupta

9:15 AM **TCT 1014: A Successful CTO Case due to double atherectomy devices in severely calcified lesions.**

Presenting Author: Yamazaki Seiji

9:15 AM **TCT 1015: Challenging LM CX Wiring and Rotablation**

Presenting Author: Zisis Dimitriadis

9:15 AM **TCT 1016: Navigating the Labyrinth: STEMI in a Patient with Complex Congenital Heart Disease.**

Presenting Author: Adam Taleb

9:15 AM **TCT 1017: Acute in-stent thrombosis in a patient who had iron deficiency anemia due to intestinal arteriovenous malformation essential thrombocytosis and acute coronary syndrome treated with bare metal stent and balloon angioplasty**

Presenting Author: Addis Asfaw

9:15 AM **TCT 1018: A Tale Of Two Cases Of In Stent Thrombosis OCT guided management**

Presenting Author: adham almowafy

9:15 AM **TCT 1019: THROMBOASPIRATION WITHOUT STENTING IN PATIENT WITH ANTERIOR STEMI**

Presenting Author: Avtandil Babunashvili

9:15 AM **TCT 1020: Coil embolisation of fistula of left internal mammary artery to pulmonary vasculatures in unstable angina. 1 year follow up.**

Presenting Author: Bartłomiej Guzik

9:15 AM **TCT 1021: Treatment of underexpanded coronary stent 3 years after implantation**

Presenting Author: Bartolini Davide

9:15 AM **TCT 1022: A case of OCT guided bifurcation PCI of dissected coronaries using Double Kissing DK Crush technique in patient with acute coronary syndrome**

Presenting Author: Bhavanadhar Penta

9:15 AM **TCT 1023: Left main intervention in STEMI A bridge too far**

Presenting Author: CHAKRABHAVI KESHAVAMURTHY

9:15 AM **TCT 1024: STEMI: Where the Thrombus Hides**

Presenting Author: Debapria Das

9:15 AM **TCT 1025: Rare case of large and medium size vessel vasculitis with coronary manifestation**

Presenting Author: Fabian Plank

9:15 AM **TCT 1026: Diffuse coronary spasm during diagnostic coronariography: rare case of Kounis syndrome.**

Presenting Author: Francisco Javier Lacunza

9:15 AM - 10:45 AM

#### Coronary III

Discussant: Randall J. Lee, Hung Q. Ly, Jeff Marshall, Ernest L. Mazzaferrri, Jr., Christoph K. Naber, Sandeep Nathan, Marin Postu, Ross Prpic, Expedito E. Ribeiro, Rahul Sakhuja, Kintur A. Sanghvi, Michael P. Savage, Sayan Sen, Guillermo Tearney

9:15 AM **TCT 1027: PATCHING WIRE FRACTURES**

Presenting Author: GAGAN JAIN

9:15 AM **TCT 1028: From spontaneous to iatrogenic coronary artery dissections**

Presenting Author: Giorgio Quadri

9:15 AM **TCT 1029: Coronary Artery Hematoma Treated with Fenestration by Using a Wolverine Cutting Balloon**

Presenting Author: Kanichi Otowa

9:15 AM **TCT 1030: Burrs balloons and happy ends**

Presenting Author: Amr Elfaramawy

9:15 AM **TCT 1031: Challenging Revascularisation of A Subtotal Stenosis on The Left Circumflex Artery Using Drug Eluting Balloons**

Presenting Author: CHAN HO THUM

9:15 AM **TCT 1032: PTCA of LIMA to LAD Graft Using Drug Eluting Balloon**

Presenting Author: Milan Chag

9:15 AM **TCT 1033: SELUTION SLR 014 DEB: A novel sirolimus eluting balloon with sustained release offering a viable option for treating small to very small sidebranches: A successful case treating the 1st Diagonal.**

Presenting Author: MS Hiremath

9:15 AM **TCT 1034: SELUTION SLR 014 DEB: Providing a solution for small to very small vessel disease. A novel Sirolimus Drug Eluting Balloon with sustained limus release for treating a highly occluded RCA**

Presenting Author: Praveen Chandra

9:15 AM **TCT 1035: Managing Bifurcation ISR**

Presenting Author: Rahul Chhabria

9:15 AM **TCT 1036: Far far away**

Presenting Author: Chun-Wei Lee

9:15 AM **TCT 1037: CABG vs PCI in Left Main Associated Multivessel Disease: A Heart Team Discussion**

Presenting Author: Linle Hou

9:15 AM **TCT 1038: Retrograde Recanalization of Ostial Right Coronary Artery Chronic Total Occlusion via Occluded Vein Graft**

Presenting Author: Yuxiang Dai

9:15 AM - 10:45 AM

#### Endovascular I

Discussant: Teresa L. Carman, Alejandro Cherro, Daniel G. Clair, Steve Henao, Khusrow Niazi

9:15 AM **TCT 1039: Renal artery stenting. To whom it can concern**  
Presenting Author: Inna Khasyanova

9:15 AM **TCT 1040: Varying results of intervention in transplant renal artery stenosis**  
Presenting Author: KRISHNAKISHORE GOYAL

9:15 AM - 10:45 AM

#### Structural I

Discussant: Amr E. Abbas, Khalid Ibrahim Amber, Y. S. Chandrashekar, Marek Grygier, Vivek Gupta, Simon Cheung-chi Lam, Vincent J. Pompili, Frank E. Silvestry, Alfredo Trento, Zoltan G. Turi

9:15 AM **TCT 1041: Blood sparing removal technique of extracorporeal membrane oxygenation ECMO circuit in a Jehovahs Witness patient unable to receive blood transfusions**  
Presenting Author: Sang Min Park

9:15 AM **TCT 1042: Single Leaflet Device Attachment Complicating Percutaneous Edge to Edge Repair of the Tricuspid Valve using the MitraClip**  
Presenting Author: So Chak Yu

9:15 AM **TCT 1043: Percutaneous Use of the Angiovac System in Endocarditis Patients Who Are Poor Surgical Candidates**  
Presenting Author: Rudin Gjeka

9:15 AM **TCT 1044: To do or not to do**  
Presenting Author: Puneet Sharma

9:15 AM **TCT 1045: Transcatheter implantation of the Tricento valve for severe tricuspid regurgitation Advanced intraprocedural imaging in a challenging structural case**  
Presenting Author: Paul Werner

9:15 AM **TCT 1046: Tricento transcatheter heart valve for severe tricuspid regurgitation.**  
Presenting Author: Matteo Montorfano

9:15 AM **TCT 1047: Percutaneous transjugular tricuspid valve in valve implantation for degenerated surgical bioprosthetic valve**  
Presenting Author: Marco Ancona

9:15 AM **TCT 1048: The Use of Aspiration Based Tricuspid Valve Endocarditis Debridement: A Case Highlighting Imaging Based Modifications in a High Risk Clinical Scenario**  
Presenting Author: Manesh Parikshak

9:15 AM **TCT 1049: Valve in Ring Transcatheter Heart Valve Implantation for Severe Tricuspid Regurgitation.**  
Presenting Author: Leigh Cummins

9:15 AM **TCT 1050: One Last Effort Transcatheter Debulking of a Bioprosthetic Tricuspid Valve Endocarditis**  
Presenting Author: Amir Eslami

9:15 AM **TCT 1051: Left atrial appendage closure in a patient with cor triatriatum**

Presenting Author: Jorge Palazuelos

9:15 AM **TCT 1052: Minimally invasive transesophageal echocardiography for left atrial appendage occlusion with a last generation micro probe.**  
Presenting Author: Gustavo Jimenez

9:15 AM **TCT 1053: CHOICE OF SUITABLE NET BENEFIT IN A PATIENT WITH ISCHEMIC AND BLEEDING CONCERNS: A PERCUTANEOUS APPROACH**  
Presenting Author: Cristiano Guedes Bezerra

9:15 AM - 10:45 AM

#### Structural II

Discussant: Carla Agatiello, Martine Gilard, Matthias Götzberg, Pranav Loyalka, Antonio Mangieri, Michael J. Mullen, Vivian G. Ng, Brad Oldemeyer, Goran K. Olivecrona, Ali Oto, Jorge Palazuelos, Mehul Patel

9:15 AM **TCT 1054: Catch of the day A report of joined forces for catching an embolized left atrial appendage device**  
Presenting Author: Christian Ukena

9:15 AM **TCT 1055: Percutaneous left atrial appendage occlusion in the presence of thrombus**  
Presenting Author: Apostolos Tzikas

9:15 AM **TCT 1056: Valve in Valve with Allegra Device and Left Main Stent: To Deliver or Not to Deliver.**  
Presenting Author: Ariana González

9:15 AM **TCT 1057: The first reported case of an Evolut Pro valve used to rescue an embolized Sapien3 valve in aortic arch**  
Presenting Author: Ashequl Islam

9:15 AM **TCT 1058: Aortic valve in valve a challenging case**  
Presenting Author: Babu Ezhumalai

9:15 AM **TCT 1059: Femoral Gore Tex Graft is Not a Contraindication to Large Bore Access: A Successful Transcatheter Aortic Valve Replacement via a Aorto bifemoral Bypass Graft.**  
Presenting Author: Bradley Deere

9:15 AM **TCT 1060: Snuffbox approach for aortic stenosis**  
Presenting Author: Carlo Tumscitz

9:15 AM **TCT 1061: 87 years old female planned for valve in valve TAVI procedure**  
Presenting Author: Christian Roguelov

9:15 AM **TCT 1062: The Importance of Pre Transcatheter Aortic Valve Implantation Coronary Revascularization: A Case of ST Elevations Due to Obstruction of the Left Internal Mammary Artery During Axillary Transcatheter Aortic Valve Implantation**  
Presenting Author: Clive Goulbourne

9:15 AM **TCT 1063: Mechanical Circulatory Support for Acute Severe Prosthetic Aortic Regurgitation: A Short Term Bridge to TAVR**  
Presenting Author: Craig Tucker

9:15 AM **TCT 1064: Successful Conservative Management of Left Ventricular Perforation During Transcatheter Aortic Valve Replacement**  
Presenting Author: Daniele Di Stefano

9:15 AM **TCT 1065: BASILICA for a failed transcatheter balloon expandable valve**  
Presenting Author: Danny Dvir

9:15 AM **TCT 1066: Utilizing a Goose Neck Snare to Direct a Valve in Valve TAVR**

*Presenting Author: David G. Rizik*

9:15 AM **TCT 1067: Implantation of 29mm Edwards Sapien 3 valve inside 26mm Sapien 3 valve to treat severe paravalvular leak**

*Presenting Author: Anthony Pisaniello*

## CHALLENGING CASES 2

### Challenging Cases 2

Structural: Valve Coronary: CHIP Coronary: Core Structural: Non-Valve

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:30 PM

Hall D, Exhibition Level, Moscone South

2:00 PM - 3:30 PM

#### Coronary IV

*Discussant: Sergey A. Abugov, Sanjeev Kumar Agarwal, Yu Bo, Zening Jin, Samuel K. Mathew, Awad AA Mohamed, Pedro R. Moreno, Toshiya Muramatsu, Ganesan R. Nambirajan, Holger M. Nef, Eugenia Nikolsky, Husam Noor, Andrzej J. Ochala, Keith G. Oldroyd, Harun Otieno, Anita Paggi, Manotosh Panja, Amit N. Patel*

2:00 PM **TCT 1068: SSO2 Therapy STEMI Case Studies**

*Presenting Author: amir lotfi*

2:00 PM **TCT 1069: a case of spontaneous dissection of LAD leading to acute anterior wall STEMI and post thrombolytic therapy management of the dissection by stenting. Bibhash R Nath MBBS MD FCSI India AMRI Salt Lake Hospital Kolkata India**

*Presenting Author: Bibhash R. Nath*

2:00 PM **TCT 1070: Which way is the right one**

*Presenting Author: David Baghdasaryan*

2:00 PM **TCT 1071: Post MI Ventricular Septal Rupture DEVICE CLOSURE**

*Presenting Author: Ramakrishna Chengala Damadara*

2:00 PM **TCT 1072: Inferior wall STEMI in a patient affected by anomalous origin of RCA from LMCA and subsequent coursing between Aorta and Pulmonary Artery Trunk: steep angles and deep dives.**

*Presenting Author: Filippo Zilio*

2:00 PM **TCT 1073: Cardiogenic shock after primary PCI**

*Presenting Author: GOUTAM DATTA*

2:00 PM **TCT 1074: Left main coronary artery thrombosis with acute global myocardial ischemia: a challenge in patient management**

*Presenting Author: Guenter Klappacher*

2:00 PM **TCT 1075: Pre and Post Stenting Manual Aspiration for Heavy Thrombus Loaded Vessel in Primary PCI via Trans Radial Artery Approach with Sheathless 7Fr Normal Guiding Catheter System: A case report**

*Presenting Author: Hung Ngo*

2:00 PM **TCT 1076: Salvage of Simultaneous Acute Coronary Closure and Access Bleeding Using Venous Arterial Extracorporeal Membrane Oxygenation and Chronic Total Occlusion Percutaneous Coronary Intervention Techniques in a Patient With ST Segment Elevation Myocardial Infarction**

*Presenting Author: Iosif Xenogiannis*

2:00 PM **TCT 1077: Successful Coronary Intervention for An Acute Myocardial Infarction as a Result of Spontaneous Left Main Coronary Artery Dissection**

*Presenting Author: Ji Su Mok*

2:00 PM **TCT 1078: Left Main V Stenting during Primary PTCA**

*Presenting Author: JINESH THOMAS*

2:00 PM **TCT 1079: Gadolinium based coronary angiography in a patient with prior known anaphylaxis to iodine based dye.**

*Presenting Author: Rahul Vasudev*

2:00 PM **TCT 1080: When aspirin may be a bridge in patients undergoing non cardiac surgery.**

*Presenting Author: Roberta Rossini*

2:00 PM **TCT 1081: Looking into the Future: Optical Coherence Tomography for the Assessment of Cardiac Allograft Vasculopathy**

*Presenting Author: Amit Alam*

2:00 PM **TCT 1082: Epicardial coronary spasm due to endothelial dysfunction after spontaneous coronary artery dissection**

*Presenting Author: Valérie E. Stegehuis*

2:00 PM - 3:30 PM

#### Coronary V

*Discussant: Robert J. Gil, Xuebo Liu, Massimo Mancone, Hitoshi Matsuo, Lampros Michalis, Michael Mooney, Graham Nichol, James C. Spratt, Jack Wei Chieh Tan, Xiao Wang, William C. Wijns, Bernhard Witzensbichler, Yoshito Yamamoto, Yuejin Yang, Luiz F. Ybarra, Chris Zambikides, Feng Zhang, Qi Zhang*

2:00 PM **TCT 1083: How to Perform Ostial Coronary Stenting Without Contrast Administration in a Patient With Severe Renal Failure**

*Presenting Author: Jerzy Sacha*

2:00 PM **TCT 1084: Successful use of Bi Pella mechanical circulatory support and IABP in a patient with STEMI biventricular failure and cardiogenic shock.**

*Presenting Author: Abdisamad Ibrahim*

2:00 PM **TCT 1085: High Risk PCI with Mechanical Circulatory Support from Alternate Access Site for Cardiogenic Shock**

*Presenting Author: Abhishek C. Sawant*

2:00 PM **TCT 1086: Demonstration of Loss of Arterial Pulsatility in Cardiogenic Shock in Atrial Flutter with Rapid Ventricular Response**

*Presenting Author: ahmed souka*

2:00 PM **TCT 1087: ECMO bridge between vascular disaster and rescue**

*Presenting Author: Andrey Sidorenko*

2:00 PM **TCT 1088: Emergent Placement of a Transcaval Impella CP in patient with Cardiac Arrest following an Anterior STEMI**

*Presenting Author: Charles Cui*

2:00 PM **TCT 1089: A case of spontaneous coronary artery rupture treated with coil embolization**

*Presenting Author: Fujimoto Daichi*

2:00 PM **TCT 1090: Unrevascularized inferior MI what lies in the aorta**

*Presenting Author: Eben Eno*

2:00 PM **TCT 1091: Bi ventricular support with oxygenator as alternative to VA ECMO in cases refractory cardiopulmonary failure**

Presenting Author: HASSAN ALKHAWAM

2:00 PM **TCT 1092: Primary PCI through Puncture of VAECMO circuit followed by contralateral iliac stenting for IABP for LV venting**

Presenting Author: Ivan Wong

2:00 PM **TCT 1093: Double trouble: a dramatic case with a fortunate ending**

Presenting Author: Joel Monteiro

2:00 PM **TCT 1094: Peripartum Cardiomyopathy: An Ominous New Beginning**

Presenting Author: Karim Abdur Rehman

2:00 PM **TCT 1095: Successful Treatment of the Left Main Coronary Artery with Impella CP Circulatory Mechanical Support and Rotational Atherectomy: When Optical Coherence Tomography Changes the Strategy**

Presenting Author: Luis Augusto Palma Dallan

2:00 PM **TCT 1096: Percutaneous Transcatheter Closure of a Large SVG Aneurysm with Amplatzer Vascular Plug**

Presenting Author: Cihan Cevik

2:00 PM **TCT 1097: Unexplained Vascular Anomaly Arising from a Left Internal Mammary Artery Graft**

Presenting Author: Joel Lardizabal

2:00 PM - 3:30 PM

### Coronary VI

Discussant: Shams Munwar, Gregory W. Serrao, Dmitry P. Stolyarov, Nadia R. Sutton, Ernesto M. Torresani, Freek Verheugt, George J. Vlachojannis, Stephen W. Waldo, Jian'an Wang, Tracy Y. Wang, Zhao Wang, Mark W.I. Webster, Hadley Wilson, Junqing Yang, Wei-Hsian Yin, Alexandre C. Zago

2:00 PM **TCT 1098: Two culprit vessels a case of primary PCI in STEMI**

Presenting Author: LI ZHOU

2:00 PM **TCT 1099: Chronic Total Occlusion in Transplanted Heart is Not a Catastrophe.**

Presenting Author: Nikolai Strygo

2:00 PM **TCT 1100: Ultrasound guided vascular access**

Presenting Author: Ahmed Amro

2:00 PM **TCT 1101: Use of VCD for Faster and Safer Ambulation: A Case**

Presenting Author: Jaspal Singh Arneja

2:00 PM **TCT 1102: Fill two needs with one deed Percutaneous coronary intervention through the Impella system sheath. A new strategy to limit number of access sites in high risk patients.**

Presenting Author: TAHA AHMED

2:00 PM **TCT 1104: Successful intravascular ultrasonogram IVUS guided percutaneous coronary intervention PCI for intramural hematoma in left main stem followed by stenting in proximal and mid left anterior descending artery LAD in patient with multivessel disease**

Presenting Author: Seung Uk Lee

2:00 PM **TCT 1105: Radial Access and CHIP Are They Compatible**

Presenting Author: Shahela Nasrin

2:00 PM **TCT 1106: Extracorporeal Membrane Oxygenation Assisted Left Main Percutaneous Coronary Intervention in a High risk patient**

Presenting Author: Shahrukh Hashmani

2:00 PM **TCT 1107: Intervention of Hemodynamically significant stenosis of a diffusely diseased coronary artery not amenable to bypass surgery**

Presenting Author: Shareez Peerbhai

2:00 PM **TCT 1108: IVUS and Calcification Guided PCI With Minimal Contrast For LMT and LAD Lesions**

Presenting Author: Shinichiro Yamada

2:00 PM **TCT 1109: A case of long RCA CTO lesion with double 360 loops**

Presenting Author: Shoko Doi

2:00 PM **TCT 1110: Complete revascularization with three PCI sessions could bail the patient out of critical situation The case report**

Presenting Author: Shota Naniwa

2:00 PM **TCT 1111: Mission possible: a case of anomalous RCTO**

Presenting Author: shunming zhu

2:00 PM **TCT 1112: Combined technique of rotational atherectomy and intravascular lithotripsy for treatment of a very calcified coronary lesion.**

Presenting Author: Simone Muraglia

2:00 PM **TCT 1113: LADD1 bifurcation by DK Crush Technique in acute MI setting**

Presenting Author: SM Mostafa Zaman

2:00 PM - 3:30 PM

### Endovascular II

Discussant: Hitoshi Matsuo, Asif Qasim, Sheila Sahni, Ricardo Sanz-Ruiz, Marcello Sena, Abdullah Shehab, Joao Brum Silveira, Ramesh Singh, A.J. Conrad C. Smith, Bradley H. Strauss, Holger Thiele, Daniela Trabattoni, Yasunori Ueda, Imre Ungi, Glenn Van Langenhove

2:00 PM **TCT 1103: Iliopsoas muscle pseudoaneurysm following Impella supported left main PCI in patient with cardiogenic shock**

Presenting Author: Zoran Lasic

2:00 PM **TCT 1166: When all hope vanishes an archaic procedure revisited**

Presenting Author: Abraham Paul

2:00 PM **TCT 1167: 3D fusion guided endovascular repair of iatrogenic common iliac artery aneurysm**

Presenting Author: Anton Khilchuk

2:00 PM **TCT 1168: TRANSCATHETER DEVICE CLOSURE OF LARGE SINUS OF VALSALVA ANEURYSM WITH STORMY POSTOPERATIVE PERIOD.**

Presenting Author: ATUL PATIL

2:00 PM **TCT 1169: Percutaneous Revascularization of occluded abdominal aorta and bilateral iliac disease.**

Presenting Author: Christos Christou

2:00 PM **TCT 1170: VANISHING GRADIENTS AN UNUSUAL CASE OF TEVAR IN A YOUNG MALE WITH COARCTATION OF AORTA WITH THORACIC SACULAR ANEURYSM WITH HFREF.**

Presenting Author: DHEERAJ GANDOTRA

2:00 PM **TCT 1171: TAVI and double TEVAR for aortic aneurism and type A aortic dissection: case management and 18 month clinical and imaging follow up**

Presenting Author: Gabriele Pesarini

2:00 PM **TCT 1172: Traumatic aortic pseudoaneurysm intervention with an endovascular graft Should we or should we not**



Presenting Author: GURBHEJ SINGH

- 2:00 PM **TCT 1173: Repair Of Juxtarenal Type I Endoleak Post EVAR With Extension Of Abdominal Aortic Stent Graft And Placement Of Bilateral Renal Chimney Grafts.**  
Presenting Author: Harinder K. Bali
- 2:00 PM **TCT 1174: Percutaneous Exclusion of A Giant Ascending Aortic Pseudoaneurysm**  
Presenting Author: Harsh Agrawal
- 2:00 PM **TCT 1175: Endovascular repair of tandem saccular abdominal aortic aneurysms with fenestrated endografts amp treatment of complications at follow up.**  
Presenting Author: Harsha Perla
- 2:00 PM **TCT 1176: Rescue Snorkel Technique in a Giant Ruptured Thoracic Aortic Aneurysm with TEVAR Failure. A Succesful repair Case Report.**  
Presenting Author: Hector Malvaez
- 2:00 PM **TCT 1177: Successful EVAR for patients with anatomical unsuitable abdominal aortic aneurysm**  
Presenting Author: Hun-Tae Kim
- 2:00 PM **TCT 1178: Total Endovascular Repair of a Rare Case of Type II Thoracoabdominal Aneurysm due to Takayasu Arteritis**  
Presenting Author: JENA ANUPAM

2:00 PM - 3:30 PM

#### Coronary VII

Discussant: John J. Lopez, Ayman Abou El Magd, Abdullah Al Shafi Majumder, Kambis Mashayekhi, Marco G. Mennuni, Bilal Mohyadin, Yoshinobu Murasato, Alfredo E. Rodriguez, Roberta Rossini, Jamil Abdalla Saad, Adam C. Salisbury, Yader Sandoval, Elias Sanidas, Erick Schampaert, Makoto Sekiguchi, Nagendra Boopathy Senguttuvan, Lee Seung-Whan

- 2:00 PM **TCT 1114: Primary PCI with a secondary shock..always expect the unexpected.**  
Presenting Author: SOUMEN CHAKRABORTY
- 2:00 PM **TCT 1115: Between a rock and a hard place**  
Presenting Author: Sreenivasa Rao Kondapally Seshasai
- 2:00 PM **TCT 1116: In stent restenosis due to underexpanded stent successfully treated with IntraVascular Lithotripsy Shock wave and Drug coated balloon: OCT evaluation**  
Presenting Author: Stefano Galli
- 2:00 PM **TCT 1117: DEFORMED STENT FOLLOWUP**  
Presenting Author: Subburaja T
- 2:00 PM **TCT 1118: Post IVL complication in heavily Calcified plaque**  
Presenting Author: Subramanya Upadhyaya
- 2:00 PM **TCT 1119: A Stubborn Undilatable CTO**  
Presenting Author: Suleman Muhammad
- 2:00 PM **TCT 1120: LMCA TO LAD Inferior wall MI Mild LV Disfunction HTN Recurrent Angina with ECG changes Severe PVD with BL Femoral Right Brachial and aortic Obstruction History of Craniotomy for SDH 15yrs ago AKI acute Kidney Injury CAG: Calcified coronaries LMCA Disease with Severe TVD PCI done with LT Radial Access**  
Presenting Author: Surya Prakash Gulla
- 2:00 PM **TCT 1121: A Troublesome Case of Recurrent In stent Restenosis of Calcified Right Coronary Artery: Treatment by Rotablation and Bioabsorbable Vascular Scaffold**

Presenting Author: TAILI LIU

- 2:00 PM **TCT 1122: P.PCI followed by Bifurcation Lesion Treated with DK Crush**  
Presenting Author: Tawfiq Shahriar Huq
- 2:00 PM **TCT 1123: Late presenting MI with a twist**  
Presenting Author: Tora Leong
- 2:00 PM **TCT 1124: WHICH IS MAIN BRANCH IN LEFT MAIN BIFURCATION STENTING**  
Presenting Author: VASUDEVA CHETTY PAKALA
- 2:00 PM **TCT 1125: Successful PCI for Intra Stent Chronic Total Occlusion Assisted by IVUS guided Active Antegrade True Lumen Seeking Technique**  
Presenting Author: Yi Xu
- 2:00 PM **TCT 1126: A Case of Both Left and Right Coronary Ostial Occlusions with Coronary Aorta Bypass Graft Failure**  
Presenting Author: Yoshinobu Murasato
- 2:00 PM **TCT 1127: LAD CTO PCI: Staged Treatment**  
Presenting Author: YOU JIEYUN
- 2:00 PM **TCT 1128: Extremely unusual complication: Aortic perforation in a young CTO patient**  
Presenting Author: Berglind Libungan

2:00 PM - 3:30 PM

#### Coronary VIII

Discussant: Aakriti Gupta, Yoshiaki Ito, Young-Hak Kim, Spencer B. King III, Prathap Kumar, Jens Flensted Lassen, Faisal Latif, Shahar Lavi, David P. Lee, Amir Lerman, Eli I. Lev, Chunjian Li, Amir Lotfi, Jianfang Luo, Matthias Lutz, Sara C. Martinez, Nish Patel, Jan J. Piek, Sunil V. Rao

- 2:00 PM **TCT 1129: Compartment syndrome of left forearm late onset complication of radial angiography during thrombolytic treatment**  
Presenting Author: Beytullah Çakal
- 2:00 PM **TCT 1130: MULTIPLE UNEXPECTED TRAGEDIES TO TACKLE IN SINGLE INTERVENTION**  
Presenting Author: bhavidra ramkumar
- 2:00 PM **TCT 1131: Bail Out of A Disaster by A Broken Stent Delivery Catheter Stuck in Proximal Left Anterior Coronary Artery**  
Presenting Author: Bong-Ki Lee
- 2:00 PM **TCT 1132: Tackling a tight loop in right brachial artery: A nightmare**  
Presenting Author: C M Shaheen Kabir
- 2:00 PM **TCT 1133: Broken Wire Retrieve During RCA CTO Recanalization**  
Presenting Author: Cheng-Yen Chuang
- 2:00 PM **TCT 1134: Management of a complication during Rotational Atherectomy**  
Presenting Author: Christian Backhouse
- 2:00 PM **TCT 1135: How long can a stent be or how long can a stent be stretched**  
Presenting Author: Davide Sala
- 2:00 PM **TCT 1136: Longitudinal stent compression of proximal RCA**  
Presenting Author: Dhinesh David
- 2:00 PM **TCT 1137: Making a brand new start of the last occluded artery**



Presenting Author: Dmitriy Ognerubov

- 2:00 PM **TCT 1138: Total Bilateral Coronary Artery Occlusion: Impella to the Rescue**  
Presenting Author: Enrique Campos
- 2:00 PM **TCT 1139: A Simple Case That Became a Nightmare: Iatrogenic Left Main Dissection With Left Main Occlusion and Retrograde Dissection to the Sinus of Valsalva and Ascending Aorta During a Simple Percutaneous Coronary Intervention**  
Presenting Author: Fábio Augusto Pinton
- 2:00 PM **TCT 1140: Nightmare Never Comes Alone**  
Presenting Author: Farhana Ahmed
- 2:00 PM **TCT 1141: A Case of Stent Deployment into an Iatrogenic Dissection**  
Presenting Author: Fiorella Llanos-Chea
- 2:00 PM **TCT 1142: Type III Left Anterior Descending artery perforation and magical absence of a cardiac tamponade.**  
Presenting Author: Firdavs B. Shukurov
- 2:00 PM **TCT 1143: A midsummer night... mare**  
Presenting Author: Francesco Cassano

2:00 PM - 3:30 PM

#### Coronary IX

Discussant: Mauro Carlino, Angela Hoyer, Martin Hudec, Adam Janas, Michael C. C. Kim, Lloyd W. Klein, Bernardo Kremer Diniz Gonçalves, Sampath Kumar, Joo Myung Lee

- 2:00 PM **TCT 1144: Involuntary Grendoplasty during calcific LAD PCI resulting in Intramural Hematoma of trifurcated Left Main**  
Presenting Author: Francesco Lavarra
- 2:00 PM **TCT 1145: BAIL OUT UNEXPANDED STENT IMPLANTATION IN ACUTE LEFT MAIN DISSECTION TREATED WITH INTRA CORONARY LITHOTRIPSY: A CASE REPORT**  
Presenting Author: Gabriele Tumminello
- 2:00 PM **TCT 1146: A novel approach for percutaneous retrieval of entrapped broken balloon catheter**  
Presenting Author: Geili Abdalla
- 2:00 PM **TCT 1147: Case report Complication**  
Presenting Author: Georgios Triantis
- 2:00 PM **TCT 1148: Coronary Atherectomy Perforation Loss of Pulsatile Arterial Flow and Successful Percutaneous Treatment: When Impella Support Prevents Catastrophe**  
Presenting Author: Graham Peigh
- 2:00 PM **TCT 1149: Successful retrieval of a migrated coronary stent floating in the ascending aorta**  
Presenting Author: Hyunsu Kim
- 2:00 PM **TCT 1150: Stent dislodge during right coronary artery intervention**  
Presenting Author: I Made Junior Rina Artha
- 2:00 PM **TCT 1151: Management of Mycotic aneurysm of LAD a very rare post PCI complication**  
Presenting Author: Imran Iftikhar
- 2:00 PM **TCT 1152: Intracranial Bleed Rare and Forgotten Complication of PCI**  
Presenting Author: Imran Tarrar
- 2:00 PM **TCT 1153: Dont Discount The Side Branch Right Ventricular Branch amp Side Branch Occlusions Following Percutaneous Coronary Intervention Complicated by Isolated Right Ventricular Infarct Leading to Right Ventricular Failure amp Cardiogenic Shock that was Rescued with Temporary RVAD Support**

Presenting Author: Isaac Tea

- 2:00 PM **TCT 1154: SVG aneurysm**  
Presenting Author: Itshac Itsik Ben-dor
- 2:00 PM **TCT 1155: A Case of Catheter Kinking: Management of a Complication of Radial Coronary Angiography**  
Presenting Author: Jesse Kane
- 2:00 PM **TCT 1156: ACUTE AND CHRONIC RADIATION INJURY FOLLOWING COMPLEX CTO PCI**  
Presenting Author: Jihoon Ahn
- 2:00 PM **TCT 1157: A Series of FFR Complications**  
Presenting Author: John Lawrence

2:00 PM - 3:30 PM

#### Coronary X

Discussant: Venita Chandra, Costantino Del Giudice, Roger Gammon, Roberto Gandini, Jon George, Scott Geraghty, Karthik R. Gujja, Seiichi Hiramori, Matthew Koch, Sanjiv Lakhnani, Jun Nakazato, Alexander Nikanorov, Mahmood K. Razavi, Umar Sadat, Darren B. Schneider, Kazuo Shimamura, Akhilesh K. Sista

- 2:00 PM **TCT 1158: Thrombus withdrawal in coronary bifurcation through a neurovascular thrombectomy device**  
Presenting Author: Alexandre C. Zago
- 2:00 PM **TCT 1159: Complex revascularization of the superior mesenteric artery and right coronary artery thromboembolism from a bioprosthetic aortic valve in a patient presenting with simultaneous acute mesenteric ischemia and myocardial infarction**  
Presenting Author: Amir Naderi
- 2:00 PM **TCT 1160: Superior vena cava SVC syndrome jailed away**  
Presenting Author: Roberto Martinez-Parachini
- 2:00 PM **TCT 1161: Endovascular extraction of hepatocellular carcinoma tumor thrombus in the inferior vena cava and right atrium by AngioVac aspiration device**  
Presenting Author: Jason Cuomo
- 2:00 PM **TCT 1162: Restoring valve competency with mechanical thrombectomy for deep vein thrombosis**  
Presenting Author: Luay Sayed
- 2:00 PM **TCT 1163: NSTEMI in a 16 year old due to thromboembolism. Should you stent**  
Presenting Author: Stephen Wilkinson
- 2:00 PM **TCT 1164: Bailout procedure may be the only option for patient survival in critical situations**  
Presenting Author: Tamer Alashkar
- 2:00 PM **TCT 1165: Acute Myocardial Infarction in a Patient with End Stage Heart Failure on Permanent Left Ventricular Assist Device: Not a Serious Worry**  
Presenting Author: Wladyslaw Dabrowski

2:00 PM - 3:30 PM

#### Structural III

Discussant: Peter C. Block, Matjaz Bunc, Sanjay Kaul, Saib Khogali, Jamie Kim, Jean-Claude Laborde, Antoine Lafont, Jonathon A. Leipsic, Reginald I. Low, Doff B. McElhinney, Issam D. Moussa, Jose Luis Navia, Christoph A. Nienaber, Mark Osten, Jai-Wun Park, Ruth M. Starzyk, Daniel H. Steinberg, S. Chiu Wong

- 2:00 PM **TCT 1179: First Case Report of the Cordella PA Pressure Sensor Implant Procedure**  
Presenting Author: Faisal Sharif

2:00 PM **TCT 1180: Successful intracoronary lithotripsy and balloon aortic valvuloplasty through left trans ulnar access in a low EF patient with severe aortic stenosis**  
*Presenting Author: Konstantinos Kalogeras*

2:00 PM **TCT 1181: Venous arterial pulmonary connection as an alternative to venous arterial venous connection in cases with North South Syndrome and right ventricular failure on venous arterial ECMO**  
*Presenting Author: Stephanie Windish*

2:00 PM **TCT 1182: FROM WEANING TO WINNING**  
*Presenting Author: MARIA MONTEAGUDO VELA*

2:00 PM **TCT 1183: External Compression of an LVAD Outflow Graft: Percutaneous Management**  
*Presenting Author: David Cohen*

2:00 PM **TCT 1184: Persistence and distortion of electrical activity in the left atrial appendage five years after endovascular occlusion**  
*Presenting Author: Rohit Kharbanda*

2:00 PM **TCT 1185: Percutaneous management of incomplete surgical left atrial appendage closure. Definition of incomplete surgical closure Risk Management Percutaneous Closure If High Bleeding Risk .How to select the appropriate Percutaneous closure device post incomplete surgical ligation.**  
*Presenting Author: safwan kassas*

2:00 PM **TCT 1186: Parallel balloon assisted tracking technique to overcome a severe calcified and tortuous aortic arch during Evolut R implantation**  
*Presenting Author: Juan M. Valle Raleigh*

2:00 PM **TCT 1187: Successful bailout of ventricular septal defect after transcatheter aortic valve implantation by a second prosthesis valve implantation**  
*Presenting Author: Kazumasa Yamasaki*

2:00 PM **TCT 1188: A case of TAVR for the patient with low flow low gradient severe AS severe MR and two vessel chronic total occlusion lesion**  
*Presenting Author: Kazuya Sasaki*

2:00 PM **TCT 1189: The Use of TAVR in TAVR Upsizing for Bioprosthetic Valve Stenosis in a High Risk Patient**  
*Presenting Author: Keem Patel*

2:00 PM **TCT 1190: Successful transcatheter aortic valve implantation in a patient with bicuspid aortic valve with the large annulus and severe left ventricular systolic dysfunction.**  
*Presenting Author: Kiwamu Kamiya*

2:00 PM **TCT 1191: Shall I deploy the stent**  
*Presenting Author: KL Chui*

2:00 PM **TCT 1192: When the Valve Folds In Instead of Popping Out: A Challenging TAVR Implant**  
*Presenting Author: Laurie Bossory*

2:00 PM **TCT 1193: Old meets new Valve in valve TAVI for the Enable dysfunction first in human sutureless aortic valve.**  
*Presenting Author: Magdalena Bryndza*

2:00 PM **TCT 1194: Antegrade transvenous transseptal wiring of a degenerated Mitroflow bioprosthesis which could not be crossed retrogradely for Valve in Valve procedure.**  
*Presenting Author: Magdalena Cuman*

2:00 PM - 3:30 PM

#### Structural IV

*Discussant: Eric Kirker, Karel T. Koch, Joerg Seeburger, Pinak B. Shah, Alok Sharma, Edgar L. Tay, Konstantinos Toutouzas, Eric Van Belle, Vimalkumar Veerappan Kandasamy, Paul Vermeersch, Pedro A. Villablanca, Neil J. Weissman, Masanori Yamamoto, Futoshi Yamanaka, Sung-Han Yoon*

2:00 PM **TCT 1195: Concomitant Transcatheter Aortic Valve Replacement and Left Main Coronary Intervention in the Era of Mechanical Support**  
*Presenting Author: Majid Asawaer*

2:00 PM **TCT 1196: Use of an Arteriovenous Loop to Facilitate Transcatheter Aortic Valve Alignment in a Patient with Giant Ascending Aortic Aneurysm.**  
*Presenting Author: Marco Hernández Enríquez*

2:00 PM **TCT 1197: Transaxillary Valve in valve VIV Transcatheter Aortic Valve Replacement TAVR followed by Bioprosthetic Valve Fracture**  
*Presenting Author: Markus Florian Krackhardt*

2:00 PM **TCT 1198: Urgent TAVR in the Setting of Severe Aortic Valve Disease Complicated by Cardiogenic Shock in a Patient at Extreme Risk for Surgery**  
*Presenting Author: Marvin Kaji*

2:00 PM **TCT 1199: Edge to Edge MitraClip Repair in the Setting of Acute Myocardial Infarction and Papillary Muscle Rupture: A Multidisciplinary Heart Team Approach**  
*Presenting Author: David G. Rizik*

2:00 PM **TCT 1200: Transcatheter mitral valve replacement in a patient with elevated risk for LVOT obstruction**  
*Presenting Author: Elvis Cami*

2:00 PM **TCT 1201: A MitraClip Conundrum: Flow Matters and Gradient Trumps Area**  
*Presenting Author: Geoffrey Bergman*

2:00 PM **TCT 1202: Paravalvular leak after transcatheter valve implantation in mitral annular calcification: a percutaneous closure with Amplatzer Vascular Plugs III occluders.**  
*Presenting Author: Guillaume Leurent*

2:00 PM **TCT 1203: Transcatheter Therapy for Residual MR and Iatrogenic ASD after MitraClip and ASD closure**  
*Presenting Author: Hiroki Niikura*

2:00 PM **TCT 1204: Balloon Mitral Valvuloplasty for High Risk Post SAVR Tricuspid Valve Plasty Patient**  
*Presenting Author: Hirotsugu Mitsuhashi*

2:00 PM **TCT 1205: Antegrade LAMPOON to facilitate TMVR**  
*Presenting Author: John Cyril Lisko DUPE*

2:00 PM **TCT 1206: Mitral valve in valve in a patient with bioprosthetic mitral valve infective endocarditis using Emboliner vascular protection.**  
*Presenting Author: Yee Sen Chan*

2:00 PM **TCT 1207: Percutaneous Mitral Paravalvular Leak Closure Facilitated by Periprocedural three dimensional transesophageal echocardiography**  
*Presenting Author: Jorge Guareña*

2:00 PM **TCT 1208: Transcatheter mitral valve in bioprosthesis implantation When crossing of the interatrial septum is not possible advantages and challenges of the Sapien 3 Ultra system**

Presenting Author: Julia Mascherbauer

- 2:00 PM **TCT 1209: treatment of paravalvular leak of mechanical mitral valve via apical approach after failure of doing intraatrial septum puncture due to very thick ias as patient had 5 th valve redos so percutaneous direct apical puncture under xray guidance**  
Presenting Author: khalid osman

Presenting Author: femi philip

- 9:15 AM **TCT 858: Post Cardiac Arrest Syndrome PCAS Feasibility Study. Impact of Multi Organ Failure After Out of Hospital Cardiac Arrest on Early Prognosis.**  
Presenting Author: Katarzyna Czerwinska-Jelonkiewicz
- 9:15 AM **TCT 859: Clinical implications of longer procedure time during chronic total occlusion intervention**  
Presenting Author: Jin-Ho Kim
- 9:15 AM **TCT 860: A Retrospective Cohort Study Comparing Longterm Outcomes of Provisional Stenting Versus Double Stent Strategy for True Bifurcation Lesions and Outcomes of Side Branch Compromise Stent Jail Related to Main Vessel Stenting.**  
Presenting Author: Chakradhar Pedada
- 9:15 AM **TCT 861: Treating complex calcified coronary bifurcation lesions with orbital atherectomy: Feasibility safety and outcomes.**  
Presenting Author: Hamza Ansari

## POSTER ABSTRACTS I

### Poster Abstracts I

Coronary: CHIP Coronary: Core Vascular Structural: Valve Structural: Non-Valve

THURSDAY, SEPTEMBER 26, 2019

9:15 AM - 10:45 AM

Hall D, Exhibition Level, Moscone South

9:15 AM - 10:45 AM

#### Coronary I

Discussant: Samer Abbas, Tayo A. Addo, Sanjeev Kumar Agarwal, Waqar H. Ahmed, Jose A. Alvarez, Michalis Hamilos, Stefan Harb, Akram W. Ibrahim

- 9:15 AM **TCT 850: Nonagenarians and Myocardial Infarction with ST Elevation: Incidence Management and Outcomes.**  
Presenting Author: Eduardo Flores
- 9:15 AM **TCT 851: Assessment of radial artery perforation after transradial coronary intervention by optical coherence tomography**  
Presenting Author: Jincheng Guo
- 9:15 AM **TCT 852: Long term prognosis comparison among Non ST Elevation Acute Coronary Syndrome patients with Three vessel Disease undergoing Percutaneous Coronary Intervention Coronary Artery Bypass Grafting and Medical Therapy**  
Presenting Author: Sida Jia
- 9:15 AM **TCT 853: Comparison of Real World Bleeding and Ischemic Event Rate in P2Y12 Inhibitors After Percutaneous Coronary Intervention: Analysis of Korean National Insurance Claims Data**  
Presenting Author: Young-Hyo Lim
- 9:15 AM **TCT 854: Impact of high sensitivity C reactive protein on disease severity and long term outcomes in patients with acute coronary syndromes**  
Presenting Author: Yue Liu
- 9:15 AM **TCT 855: In Hospital Outcomes of Acute Coronary Syndrome in Patients With and Without Polysubstance Abuse**  
Presenting Author: Vishnu Priya Mallipeddi

9:15 AM - 10:45 AM

#### Coronary II

Discussant: Tiziana Claudia Aranzulla, Julia Baron, Sukhdeep Singh Basra, Otavio Berwanger, Patricia J. Best, Prathap Kumar

- 9:15 AM **TCT 856: Using Artificial Intelligence to Match Culprit Lesions in Acute Coronary Syndrome with Turbulent Flow Caused by Collision of Antegrade and Retrograde Coronary Flow**  
Presenting Author: Khoa Nguyen Dang Le
- 9:15 AM **TCT 857: Interaction between choice of anticoagulation antiplatelet therapy and access site on mortality and bleeding after percutaneous coronary intervention: Insights from the Kaiser Permanente PCI Registry.**

9:15 AM - 10:45 AM

#### Coronary III

Discussant: Leszek Bryniarski, Quang T. Bui, Adriano Caixeta, Hiteshi K.C. Chauhan, Michael J. Cowley, Michal J. Hawranek

- 9:15 AM **TCT 862: Adjunctive Coronary Calcium Modification: The Bournemouth Experience of Shockwave Intravascular Lithotripsy.**  
Presenting Author: Peter O'Kane
- 9:15 AM **TCT 863: Procedural Outcomes of the New Generation Orbital Atherectomy System: Classic Crown With Glide Assist and ViperWire Advance FlexTip**  
Presenting Author: Yutaka Tanaka
- 9:15 AM **TCT 864: The Outcomes of Percutaneous Coronary Intervention and Coronary Artery Bypass Graft Among Human Immunodeficiency Virus Infected Patients with Multi vessel Coronary Artery Disease**  
Presenting Author: HASSAN ALKHAWAM
- 9:15 AM **TCT 865: The Incidence of Paradoxical Septal Motion After Robotic versus Non Robotic Coronary Artery Bypass Graft Surgery.**  
Presenting Author: Shunsuke Aoi
- 9:15 AM **TCT 866: A Meta analysis of Percutaneous Coronary Intervention in Small Vessel Coronary Artery Disease using Drug coated Balloon DCB versus Drug eluting Stent DEB**  
Presenting Author: Kifah Hussain
- 9:15 AM **TCT 867: Comparison of prognosis between drug coated balloon DCB and drug eluting stent DES for small vessel lesions**  
Presenting Author: Toshihiko Kishida

9:15 AM - 10:45 AM

#### Coronary IV

Discussant: Donald Cutlip, Debabrata Dash, Rajesh M. Dave, Steffen Desch, Hosam Hasan, Angela Hoye, John J. Lopez, Jamil Abdalla Saad

- 9:15 AM **TCT 868: Long term clinical outcomes for all comers denovo coronary artery lesions treated with paclitaxel coated balloons.**  
Presenting Author: Nhung Nguyen Nguyen
- 9:15 AM **TCT 869: Arterial Response to Drug Coated Balloon in Acute Coronary Syndrome: Insights From Serial Angiographic and Optical Frequency Domain Imaging Analysis**

Presenting Author: Kota Nishida

9:15 AM **TCT 870: Predictors of In hospital Mortality Among Patients with Cardiogenic Shock Treated with Extracorporeal Membrane Oxygenation ECMO The United States Experience 2007 - 2014**

Presenting Author: Samson Alliu

9:15 AM **TCT 871: Complications and Mortality of IABP VS Impella in Patients Presenting with STEMI**

Presenting Author: Saad Amin

9:15 AM **TCT 872: A Single Center Experience with the Tandem ProtekDuo Device for Right Ventricular Failure Leading to Cardiogenic Shock**

Presenting Author: brian butera

9:15 AM **TCT 873: Manual Hemostasis of Percutaneous Axillary Artery Access following Intra Aortic Balloon Pump IABP Insertion**

Presenting Author: Michael Divita

9:15 AM - 10:45 AM

#### Coronary V

Discussant: Ranil De Silva, Walter Desmet, Nabil Dib, Amir Lerman, Frank Litvack, Philip A. McCarthy, Ayman Abou El Magd, Julian Strange

9:15 AM **TCT 874: Improving Outcomes in Women with Cardiogenic Shock: Results from the INOVA Shock Registry**

Presenting Author: Kelly C. Epps

9:15 AM **TCT 875: Potential Benefit of Early Impella support in Acute Myocardial Infarction complicated by Cardiogenic Shock**

Presenting Author: Veemal Hemradj

9:15 AM **TCT 876: De Ritis ratio are associated with death in the intensive care unit after cardiac arrest**

Presenting Author: Zheng Ri Lu

9:15 AM **TCT 877: Clinical indications of Impella short term mechanical circulatory support in a quaternary centre.**

Presenting Author: MARIA MONTEAGUDO VELA

9:15 AM **TCT 878: When in Shock is it Right to Catheterize the Right Trends of Right Heart Catheterization Utilization and Outcomes in Cases of Cardiogenic Shock Secondary to Acute Myocardial Infarction**

Presenting Author: Armaghan Soomro

9:15 AM **TCT 879: Transradial Coronary Angiography and Intervention in Acute Myocardial Infarction Complicated by Cardiogenic Shock: Insights from the INOVA SHOCK Registry**

Presenting Author: Behnam Tehrani

9:15 AM - 10:45 AM

#### Coronary VI

Discussant: Jose Guillermo Diez, Christophe Dubois, Yutaka Hikichi, Adam Janas, David F. Kong, Bernardo Kremer Diniz Gonçalves, Alfredo Marchese, Bradley H. Strauss, Carl L. Tommaso

9:15 AM **TCT 880: Comparing the efficacy and safety of long term and short term dual antiplatelet therapy: A meta analysis of comparison between Asian and non Asian**

Presenting Author: You Jeong Ki

9:15 AM **TCT 881: Midkine as an early biomarker of contrast induced acute kidney injury in patients undergoing percutaneous coronary interventions for acute coronary syndrome**

Presenting Author: Ahmed Mowafy

9:15 AM **TCT 882: Impact of Calcified Plaque Angulation on Clinical Outcomes Following Bioresorbable Vascular Scaffold Implantation: Insights from ABSORB III and ABSORB Japan**

Presenting Author: Shinji Imura

9:15 AM **TCT 883: Safety and Performance analysis of the single center routine clinical use of the Fantom Sirolimus Eluting Bioresorbable Scaffold. Sirolimus Eluting Bioresorbable Coronary Scaffold**

Presenting Author: Matthias Lutz

9:15 AM **TCT 884: Relationship between technical characteristics of drug eluting stent and clinical events: insight from meta regression analysis comprising 43 randomized controlled trials**

Presenting Author: Akira Saito

9:15 AM **TCT 885: Twenty year trends in clinical outcome of randomized controlled trial for coronary intervention: systematic review and meta regression analysis of 46 trials**

Presenting Author: Taku Asano

9:15 AM **TCT 886: The impact of the completeness of percutaneous coronary revascularization on mid term outcome. An emergent country experience.**

Presenting Author: Marouane Boukhris

9:15 AM - 10:45 AM

#### Coronary VII

Discussant: Ariel Duran, Vladimir Dzavik, Karim El Chilali, Ahmed Elghamaz, Michael C. C. Kim, Heitor Medeiros, Marco G. Mennuni, Bilal Mohydin, Thomas Schmitz

9:15 AM **TCT 887: Safety and Efficacy of Polymer Free Biolimus A9 Eluting Stent In Patients With And Without Chronic Kidney Disease: Insights From The RUDI FREE Registry**

Presenting Author: Mauro Chiarito

9:15 AM **TCT 888: Safety and Performance of the Worlds First Tapered Coronary Stent for Long Coronary Lesions: Six month Experience in Real World Settings**

Presenting Author: Deepak Davidson

9:15 AM **TCT 889: Long Term Outcome of Treatment of Ostial De Novo Left Anterior Descending Coronary Artery Lesions with Drug Eluting Stents DES.**

Presenting Author: Seigo Iwane

9:15 AM **TCT 890: Biodegradable Polymer Biolimus Eluting Stents Versus Durable Polymer Everolimus and Zotarolimus Eluting Stents in Patients With Acute Coronary Syndrome : Results From the SMART DATE Randomized Trial**

Presenting Author: Woo Jin Jang

9:15 AM **TCT 891: A Real World Multi center Registry Evaluating Safety and Clinical Performance of Biodegradable Polymer Coated Ultra Thin Everolimus Eluting Stents: One year Results From the PERFORM EVER Registry**

Presenting Author: sanjeev kumar

9:15 AM **TCT 892: Safety and Performance of Everolimus eluting Stents Comprising of Biodegradable Polymers With Ultrathin Stent Platforms**

Presenting Author: RAGHAVA SARMA POLAVARAPU

9:15 AM **TCT 920: Relationship between prognosis of lower limbs and peripheral artery calcification among patients with peripheral artery disease.**

Presenting Author: Tatsunori Noto

9:15 AM - 10:45 AM

#### Structural and Vascular I

Presenting Author: Emrie Tomaiko

- 9:15 AM **TCT 899: Transcatheter Aortic Valve Replacement in Low risk Patients: a Meta analysis of Randomized Controlled Trials**  
*Presenting Author: Ahmad Al-Abdouh*
- 9:15 AM **TCT 900: Quantification of True Lumen Helicity in Type B Dissections**  
*Presenting Author: Johan Bondesson*
- 9:15 AM **TCT 901: Budget Impact of Mechanically Expanded Versus Self expanding Transcatheter Aortic Valve Replacement in High risk Patients with Aortic Stenosis: A Medicare Perspective**  
*Presenting Author: David G. Rizik*
- 9:15 AM **TCT 916: The Late Response to Renal Denervation in Patients With Suspected Secondary Aldosteronism**  
*Presenting Author: Ying-Hsiang Lee*
- 9:15 AM **TCT 917: In hospital Outcomes and Trends of Intra aortic Balloon Pump and Percutaneous Ventricular Assist Device Use in Patients with Peripheral Artery Disease**  
*Presenting Author: Homam Moussa Pacha*
- 9:15 AM **TCT 918: MicroNET Covered Self EXpandable STent in High Risk Vascular Lesions Beyond The cArotid bifurcation: TheEXTRA GUARD Study**  
*Presenting Author: Piotr Musialek*
- 9:15 AM **TCT 919: Directional Atherectomy Versus Optical Coherence Tomography Guided Directional Atherectomy in the Lower Extremities**  
*Presenting Author: Mitul Patel*
- 9:15 AM **TCT 921: Proof of Concept Intravascular Magnetic Navigation Guided Peripheral Procedures.**  
*Presenting Author: Jean-François Dorval*

9:15 AM - 10:45 AM

#### Structural I

*Discussant: John P. Breinholt, Jan Harnek, Massimo Napolitano, Katia Orvin, Neal Sawlani, Ruth M. Starzyk, Carl L. Tommaso*

- 9:15 AM **TCT 893: Retrograde Transcatheter Closure Of Perimembranous Aneurysmal Ventricular Septal Defects Using Amplatzer Vascular Plug II**  
*Presenting Author: Rania Abushokka*
- 9:15 AM **TCT 894: Pressure Sensor Devices in Congestive Heart Failure: An Insight from the Nationwide Readmission Data**  
*Presenting Author: Kristina Giffit*
- 9:15 AM **TCT 895: Left Ventricular Assist Device Use in Hypertrophic or Restrictive Cardiomyopathy: A Systematic Review**  
*Presenting Author: Jayakumar Sreenivasan*
- 9:15 AM **TCT 896: Elderly Patients gt 70 Years Old Have Comparable Survival to Younger Patients on Impella 5.0 Support for Cardiogenic Shock**  
*Presenting Author: Leslie Ammabel Ynalvez*
- 9:15 AM **TCT 897: Racial Disparities in Implantation of Left Atrial Appendage Closure Device in patients with Nonvalvular Atrial fibrillation: Analysis of national sample database**  
*Presenting Author: Setri Fugar*
- 9:15 AM **TCT 898: Surgical Left Atrial Appendage Exclusion: High Anatomical And Clinical Failure Rate By Follow Up Transesophageal Echocardiogram**

9:15 AM - 10:45 AM

#### Structural II

*Discussant: Ramesh Adiraju, Matjaz Bunc, Adriano Caixeta, Vijay Iyer, Saib Khogali, Edward J. McNulty*

- 9:15 AM **TCT 902: Minimally Invasive Allograft Implantation in Elective Aortic Valve Surgery: Aortic Homograft New Implantation Technique and Ministernotomy Ross Procedure.**  
*Presenting Author: Miklos Bitay*
- 9:15 AM **TCT 903: Outcomes of Urgent Transcatheter Aortic Valve Replacement in Patients With Acute Decompensated Heart Failure A Single Center Experience**  
*Presenting Author: Kai Chen*
- 9:15 AM **TCT 904: Impact of Left Bundle Branch Block and Permanent Pacemaker Implantation on Transcatheter Aortic Valve Replacement Outcome**  
*Presenting Author: SEYED HOSSEIN AALAEI-ANDABILI*
- 9:15 AM **TCT 905: Comparison of Outcomes in Patients Undergoing Transcatheter Aortic Valve Replacement: Reduced Ejection Fraction vs Mid Range Ejection Fraction**  
*Presenting Author: Mohammad Al-Akchar*
- 9:15 AM **TCT 906: A Non Invasive Approach for Assessment the Severity of Paravalvular Leakage and Transvalvular Energy Loss using Echocardiography**  
*Presenting Author: Mohammad Barakat*
- 9:15 AM **TCT 907: Predictors of short and mid term outcomes after TAVR in low flow low gradient aortic stenosis**  
*Presenting Author: FERNANDO LUIZ L. BERNARDI*

9:15 AM - 10:45 AM

#### Structural III

*Discussant: Joseph A. Hill, Jamie Kim, Philip A. MacCarthy, Alfredo Marchese, Alexander Grigorievich Osiev, Bernhard Reimers, Daniel H. Steinberg*

- 9:15 AM **TCT 908: Outcomes of Transcatheter Aortic Valve Replacement TAVR in Octo nonagenarians Using a National Cohort**  
*Presenting Author: Mario Cale*
- 9:15 AM **TCT 909: 30 Day Outcome and Safety Data from Portico™ TAVI System Over One Year at an Australian Centre.**  
*Presenting Author: Leigh Cummins*
- 9:15 AM **TCT 910: Non invasive measurement of carotid waveform and heart sounds to quantify aortic stenosis before and after transcatheter aortic valve replacement**  
*Presenting Author: Sam Dawkins*
- 9:15 AM **TCT 911: Comparison of Clinical Events of Two New Generation Supra annular Self expanding Transcatheter Aortic Valves Allegra versus ACURATE neo.**  
*Presenting Author: Ariana González*
- 9:15 AM **TCT 912: Prognostic Impact of the Clinical Frailty Scale after Balloon Aortic Valvuloplasty**  
*Presenting Author: TOMOYO HAMANA*
- 9:15 AM **TCT 913: Experience of Implantation of New Generation Self expandable Transcatheter Aortic Valve Implantation in Patients with Low Surgical Risk.**  
*Presenting Author: Harol Hernandez*

9:15 AM - 10:45 AM

#### Structural IV



- 9:15 AM **TCT 914: In TAVI the Less Antibiotics the Best**  
*Presenting Author: Ioannis Iakovou*
- 9:15 AM **TCT 915: Optimal Sizing Algorithm using Multidetector Computed Tomography for Transcatheter Aortic Valve Replacement with the SAPIEN 3 valve.**  
*Presenting Author: Do-yeon Kang*
- 9:15 AM **TCT 922: Improvement in pulmonary vascular resistance and haemodynamic markers of right ventricular function with balloon pulmonary angioplasty for residual CTEPH after pulmonary endarterectomy**  
*Presenting Author: Katherine Kearney*
- 9:15 AM **TCT 923: Balloon pulmonary angioplasty for patients with symptomatic chronic thromboembolic disease without pulmonary hypertension**  
*Presenting Author: Yoichiro Matsuoka*

- 10:00 AM - 10:15 AM  
**Didactic Session**  
*Training Pavilion Faculty: Ziad A. Ali, Kevin J. Croce, Allen Jeremias, Vamsi Krishna, R. Jay Widmer*
- 10:15 AM - 11:30 AM  
**Hands-On Activity Guided by Five Case Scenarios: Utilizing a Wet Model to Perform RFR and FFR**  
*Training Pavilion Faculty: Ziad A. Ali, Kevin J. Croce, Allen Jeremias, Vamsi Krishna, R. Jay Widmer*

## NOW THAT I SEE IT, I KNOW HOW TO TREAT IT! A HANDS-ON OCT SKILLS LAB

### Now That I See It, I Know How To Treat It! A Hands-On OCT Skills Lab

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 8:20 AM

#### OCT: Now That I See It - Presentation

*Training Pavilion Faculty: Ziad A. Ali, Bassem Chehab, Kevin J. Croce, Jonathan M. Hill, Ethan C. Korngold, Aziz Maksoud, Emile Mehanna, Bimal Padaliya, Richard Shlofmitz, Gabriel Tensol, Catalin Toma, Armando Vergara-Martel, Nick E. J. West*

8:20 AM - 9:30 AM

#### Hands-On Sessions

*Training Pavilion Faculty: Ziad A. Ali, Bassem Chehab, Kevin J. Croce, Jonathan M. Hill, Ethan C. Korngold, Aziz Maksoud, Emile Mehanna, Bimal Padaliya, Richard Shlofmitz, Gabriel Tensol, Catalin Toma, Armando Vergara-Martel, Nick E. J. West*

8:20 AM **Virtual Reality Interactive OCT Session**

8:20 AM **OCT Workstation Measurements Assessments and Procedure Planning**

8:20 AM **Image Acquisition With a Wet Model Practice**

## PHYSIOLOGY SIMPLIFIED: A HANDS-ON RFR SKILLS LAB

### Physiology Simplified: A Hands-On RFR Skills Lab

THURSDAY, SEPTEMBER 26, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

## LARGE-BORE ACCESS TO CLOSE: WHAT YOU WANT (AND NEED) TO KNOW

### Large-Bore Access To Close: What You Want (and Need) To Know

THURSDAY, SEPTEMBER 26, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 12:20 PM

#### Introduction - Access Planning and Management of Complications Review

*Training Pavilion Faculty: Adhir Shroff, Rajiv Tayal*

12:20 PM - 1:30 PM

#### Hands-On Device Deployment

*Training Pavilion Faculty: Adhir Shroff, Rajiv Tayal*

## NOW THAT I SEE IT, I KNOW HOW TO TREAT IT! A HANDS-ON OCT SKILLS LAB

### Now That I See It, I Know How To Treat It! A Hands-On OCT Skills Lab

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 2:20 PM

#### OCT: Now That I See It - Presentation

*Training Pavilion Faculty: Ziad A. Ali, Michael Chan, Bassem Chehab, Matheen Khuddas, Ethan C. Korngold, Aziz Maksoud, Emile Mehanna, Bimal Padaliya, Gabriel Tensol, Catalin Toma, Armando Vergara-Martel*

2:20 PM - 3:30 PM

#### Hands-On Sessions

*Training Pavilion Faculty: Ziad A. Ali, Hiram G. Bezerra, Michael Chan, Bassem Chehab, Matheen Khuddas, Ethan C. Korngold, Aziz Maksoud, Emile Mehanna, Bimal Padaliya, Gabriel Tensol, Catalin Toma, Armando Vergara-Martel*



- 2:20 PM **Virtual Reality Interactive OCT Session**
- 2:20 PM **OCT Workstation Measurements Assessments and Procedure Planning**
- 2:20 PM **Image Acquisition With a Wet Model Practice**

## THE IMPACT OF DESIGN ON CORONARY GUIDEWIRE PERFORMANCE: A HANDS-ON EXPERIENCE

### The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience

**THURSDAY, SEPTEMBER 26, 2019**

**4:00 PM - 5:30 PM**

Training Pavilion, Hall F

**4:00 PM - 5:30 PM**

#### The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience

*Training Pavilion Faculty: Andrea Gagnor, Jack Hall, Duane S. Pinto, Robert F. Riley, Jason Wollmuth*

- 4:00 PM **Introduction**
- 4:05 PM **Didactic on Guidewire Building Blocks and WH wires**
- 4:15 PM **Hands on Workhorse Wires Activity**
- 4:30 PM **Polymer Jacketed Wires Overview and Hands on Activity**
- 4:50 PM **Extra Support Specialty wires Overview and Hands on Activity**
- 5:10 PM **TurnTrac Wire Overview and Hands on Activity**

## OPTIMIZING PCI: WHEN TO USE WHAT IN CORONARY PHYSIOLOGY AND IMAGING: CASE REVIEW AND HANDS-ON

### Optimizing PCI: When to Use What in Coronary Physiology and Imaging: Case Review and Hands-On

**THURSDAY, SEPTEMBER 26, 2019**

**8:00 AM - 9:30 AM**

Training Pavilion, Hall F

**8:00 AM - 9:30 AM**

#### Optimizing PCI: When to Use What in Coronary Physiology and Imaging: Case Review and Hands-On

*Training Pavilion Faculty: Allen Jeremias, Arnold Seto*

- 8:00 AM **Introduction**
- 8:05 AM **When to Use What to Optimize PCI**
- 8:35 AM **Hands On Rotations**

## ROTAPRO™ FOR PLAQUE MODIFICATION AND VESSEL PREP

### ROTAPRO™ for Plaque Modification and Vessel Prep

**THURSDAY, SEPTEMBER 26, 2019**

**10:00 AM - 11:30 AM**

Training Pavilion, Hall F

**10:00 AM - 11:30 AM**

#### ROTAPRO™ for Plaque Modification and Vessel Prep

*Training Pavilion Faculty: Ramy Badawi, Wissam Jaber*

- 10:00 AM **Introduction**
- 10:05 AM **ROTAPRO Rotational Atherectomy System: 25 Years of Proven Clinical Safety and Efficacy**
- 10:35 AM **Hands On Rotations**

## CTO: TEACHING OLD DOGS NEW TECHNIQUES

### CTO: Teaching Old Dogs New Techniques

**THURSDAY, SEPTEMBER 26, 2019**

**12:00 PM - 1:30 PM**

Training Pavilion, Hall F

**12:00 PM - 1:30 PM**

#### CTO: Teaching Old Dogs New Techniques

*Training Pavilion Faculty: Robert F. Riley, Anthony J. Spaedy*

- 12:00 PM **Introduction**
- 12:05 PM **CTO Teaching Old Dogs New Techniques**
- 12:35 PM **Hands On Rotations**

## STREAMLINING THE LAAC PATIENT EDUCATION CONVERSATION FOR ALLIED HEALTH PROVIDERS

### Streamlining the LAAC Patient Education Conversation for Allied Health Providers

**THURSDAY, SEPTEMBER 26, 2019**

**2:00 PM - 3:30 PM**

Training Pavilion, Hall F

2:00 PM - 3:30 PM

Streamlining the LAAC Patient Education Conversation for Allied Health Providers

- 2:00 PM Introduction
- 2:05 PM Data Overview Patient Examples and Overview of Available Patient Education Tools
- 3:10 PM Hands On Rotations

## TAVR: AN INTERACTIVE EXPERIENCE WITH SENTINEL CPS

### TAVR: An Interactive Experience With Sentinel CPS

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

TAVR: An Interactive Experience With Sentinel CPS

Training Pavilion Faculty: James Harvey, Amar Krishnaswamy

- 4:00 PM Introduction
- 4:05 PM ProductData Overview and Case Reviews
- 4:45 PM Hands On Rotations

## TAVR CLINIC FOUNDATIONS FOR VALVE PROGRAM COORDINATOR NEW TO TAVR

### TAVR Clinic Foundations for Valve Program Coordinator New to TAVR

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

TAVR Clinic Foundations for Valve Program Coordinator New to TAVR

Training Pavilion Faculty: Martina Kelly Kelly Speight

- 8:00 AM Introduction
- 8:05 AM A Journey Through the Care Continuum
- 8:45 AM Rotation 1 Simulation Imaging Hands On
- 9:05 AM Rotation 2 Simulation Imaging Hands On
- 9:25 AM Adjourn

## TAVR FOUNDATIONS FOR THE NEW TO TAVR IMPLANTER

### TAVR Foundations for the New to TAVR Implanter

THURSDAY, SEPTEMBER 26, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

TAVR Foundations for the New to TAVR Implanter

Training Pavilion Faculty: George S. Chrysant

- 10:00 AM Introduction
- 10:05 AM Product Procedural Overview and Key Imaging Considerations
- 10:35 AM Rotation 1 Simulation Imaging Hands On
- 11:00 AM Rotation 2 Simulation Imaging Hands On
- 11:25 AM Adjourn

## SPYRAL HTN ON MED, OFF MED, WHAT NEXT?

### SPYRAL HTN ON MED, OFF MED, What Next?

THURSDAY, SEPTEMBER 26, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 1:30 PM

SPYRAL HTN ON MED, OFF MED, What Next?

Training Pavilion Faculty: Pedro De Araujo Goncalves, David E. Kandzari, Felix Mahfoud, Joachim Weil

- 12:00 PM Update on the SPYRAL HTN Program
- 12:20 PM Real World Data in Renal Denervation
- 12:40 PM Audience Interaction and Discussion
- 12:50 PM Latest Advances in RDN Procedure
- 1:00 PM Hands On with RDN

## THE LATEST IN CTO PCI: OPTIMIZING OUTCOMES IN THESE COMPLEX PATIENTS

### The Latest in CTO PCI: Optimizing Outcomes in These Complex Patients

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

**Day 1 Workshop 4**

Training Pavilion Faculty: Salvatore F. Mannino, Mitul Patel, nadeem rizvi, Robert W. Yeh

## OPTIMIZING OUTCOMES IN PATIENTS WITH BIFURCATION LESIONS

### Optimizing Outcomes in Patients with Bifurcation Lesions

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

**Optimizing Outcomes in Patients with Bifurcation Lesions**

Training Pavilion Faculty: Jens Flensted Lassen, Goran Stankovic

4:00 PM **Introduction**

4:05 PM **Bifurcation Techniques with Integrated Visible Heart Laboratories Footage**

4:45 PM **Hands On Simulation**

## ACCESS AND CLOSURE

### Access and Closure

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 8:10 AM

**Introduction**

Training Pavilion Faculty: Amir Kaki, Adhir Shroff, Rajiv Tayal

8:10 AM - 9:30 AM

**Breakout Rotations**

Training Pavilion Faculty: Amir Kaki, Adhir Shroff, Rajiv Tayal

8:10 AM **Insertion with Impella Trainer**

8:10 AM **Ultrasound Siemens**

8:10 AM **Closure Manta**

8:10 AM **Access Shockwave**

### Access and Closure

THURSDAY, SEPTEMBER 26, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 10:10 AM

**Introduction**

Training Pavilion Faculty: Paul D. Mahoney, Duane S. Pinto, Jason Wollmuth

10:10 AM - 11:30 AM

**Breakout Rotations**

Training Pavilion Faculty: Paul D. Mahoney, Duane S. Pinto, Jason Wollmuth

10:10 AM **Insertion with Impella Trainer**

10:10 AM **Ultrasound Siemens**

10:10 AM **Closure Manta**

10:10 AM **Access Shockwave**

## TEACH HRPCI

### TEACH HRPCI

THURSDAY, SEPTEMBER 26, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 12:20 PM

**Didactic Session**

Training Pavilion Faculty: M Chadi Alraies, Hiram G. Bezerra, Jason Moreland, Rajan A. Patel, Jon Robken

12:20 PM - 1:30 PM

**Breakout Rotations**

Training Pavilion Faculty: M Chadi Alraies, Hiram G. Bezerra, Jason Moreland, Rajan A. Patel, Jon Robken

12:20 PM **Position Sim**

12:20 PM **Position Sim**

12:20 PM **HARVi App**

12:20 PM **HARVi App**

## SHOCK SYSTEMS OF CARE: BEST PRACTICES FROM INOVA AND NCSI

## MULTIMODALITY IMAGING FOR TRANSSEPTAL CROSSING AND LAAC

### Shock Systems of Care: Best Practices from INOVA and NCSI

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 2:40 PM

#### Didactic Sessions

Training Pavilion Faculty: Mir Babar Basir, Michael J. Lim, Alexander George Truesdell

2:40 PM - 3:30 PM

#### Breakout Rotations

Training Pavilion Faculty: Mir Babar Basir, Michael J. Lim, Alexander George Truesdell

2:40 PM Position Sim

2:40 PM Position Sim

2:40 PM HARVi App

2:40 PM HARVi App

## TEACH CGS

### TEACH CGS

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 4:20 PM

#### Didactic Session

Training Pavilion Faculty: Sanjog Kalra, Dennis Lynn Morris, William W. O'Neill, Alexander George Truesdell

4:20 PM - 5:30 PM

#### Breakout Rotations

Training Pavilion Faculty: Sanjog Kalra, Dennis Lynn Morris, William W. O'Neill, Alexander George Truesdell

4:20 PM ICU Sim

4:20 PM ICU Sim

4:20 PM HARVi App

4:20 PM HARVi App

### Multimodality Imaging for Transseptal Crossing and LAAC

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

#### Multimodality Imaging for Transseptal Crossing and LAAC

Training Pavilion Faculty: Brij Maini, Rahul Prakash Sharma, Torsten P. Vahl

8:00 AM Introduction Step by Step Technique

8:10 AM Instructional Video

8:20 AM The Role of 4D Volume ICE for Transseptal Crossing

8:30 AM Hands on Education Rotations Through Simulators

## IMAGING FOR THE FORGOTTEN VALVE: TECHNIQUES FOR VISUALIZING THE TRICUSPID

### Imaging for the Forgotten Valve: Techniques for Visualizing the Tricuspid

THURSDAY, SEPTEMBER 26, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

#### Imaging for the Forgotten Valve: Techniques for Visualizing the Tricuspid

Training Pavilion Faculty: Scott Lim, Carlos E. Sanchez

10:00 AM Introduction Techniques for Diagnosis and Procedural Planning

10:10 AM Case Demonstrations for Interventional Guidance

10:20 AM Role of 4D Volume ICE for Visualization

10:30 AM Hands on Education Rotations Through Simulators

## MULTIMODALITY IMAGING FOR TRANSSEPTAL CROSSING AND LAAC

### Multimodality Imaging for Transseptal Crossing and LAAC

THURSDAY, SEPTEMBER 26, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

4:20 PM **The Role of 4D Volume ICE for Transseptal Crossing**  
4:30 PM **Hands on Education Rotations Through Simulators**

12:00 PM - 1:30 PM

**Multimodality Imaging for Transseptal Crossing and LAAC**

*Training Pavilion Faculty: Chad Kliger, Carlos E. Sanchez, Gagan D. Singh*

- 12:00 PM **Introduction Step by Step Technique**
- 12:10 PM **Instructional Video**
- 12:20 PM **The Role of 4D Volume ICE for Transseptal Crossing**
- 12:30 PM **Hands on Education Rotations Through Simulators**

## IMAGING FOR THE FORGOTTEN VALVE: TECHNIQUES FOR VISUALIZING THE TRICUSPID

### Imaging for the Forgotten Valve: Techniques for Visualizing the Tricuspid

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

**Imaging for the Forgotten Valve: Techniques for Visualizing the Tricuspid**

*Training Pavilion Faculty: Francesco Maisano, Christopher U. Meduri, Gagan D. Singh*

- 2:00 PM **Introduction Techniques for Diagnosis and Procedural Planning**
- 2:10 PM **Case Demonstrations for Interventional Guidance**
- 2:20 PM **Role of 4D Volume ICE for Visualization**
- 2:30 PM **Hands on Education Rotations Through Simulators**

## MULTIMODALITY IMAGING FOR TRANSEPTAL CROSSING AND LAAC

### Multimodality Imaging for Transseptal Crossing and LAAC

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

**Multimodality Imaging for Transseptal Crossing and LAAC**

*Training Pavilion Faculty: Robert Burke, William A. Gray*

- 4:00 PM **Introduction Step by Step Technique**
- 4:10 PM **Instructional Video**

## ADVANCING ALTERNATIVE ACCESS FOR THE TREATMENT OF PAD AND CLI

### Advancing Alternative Access for the Treatment of PAD and CLI

THURSDAY, SEPTEMBER 26, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

**Advancing Alternative Access for the Treatment of PAD and CLI**

- 8:00 AM **Introduction and Faculty Review**
- 8:20 AM **Hands On Rotations**
- 9:20 AM **Debrief**

### Advancing Alternative Access for the Treatment of PAD and CLI

THURSDAY, SEPTEMBER 26, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

**Advancing Alternative Access for the Treatment of PAD and CLI**

## COMPLICATIONS MANAGEMENT (CORONARY STENT RETRIEVAL)

### Complications Management (Coronary Stent Retrieval)

THURSDAY, SEPTEMBER 26, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 1:30 PM

**Complications Management (Coronary Stent Retrieval)**

*Training Pavilion Faculty: Amir Kaki, Binita Shah*

- 12:00 PM **Introduction**

**Complications Management (Coronary Stent Retrieval)**

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

**Complications Management (Coronary Stent Retrieval)**

Training Pavilion Faculty: Amir Kaki, Binita Shah

2:00 PM Introduction

2:05 PM Simulation Stations

**Complications Management (Coronary Stent Retrieval)**

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

**Complications Management (Coronary Stent Retrieval)**

Training Pavilion Faculty: Amir Kaki, Adhir Shroff

4:00 PM Introduction

4:05 PM Simulation Stations

**ASSESSMENT OF PATIENTS WITH AORTIC STENOSIS OR AORTIC INSUFFICIENCY - 1****Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 1**

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

9:30 AM - 10:30 AM

The Moscone Center

9:30 AM - 10:30 AM

**Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 1**

Moderators: Robert T. Pyo Discussants: Michael A. Borger, Omar K. Khaliq, Jose L. Leiva-Pons, Catherine M. Otto

9:30 AM **TCT 134: Current Management and Disparities in Care for Patients With Symptomatic Severe Aortic Regurgitation**

Presenting Author: Vinod H. Thourani

9:37 AM Discussion

9:40 AM **TCT 135: The Impact of Baseline Aortic Regurgitation on the Degree of Left Ventricular Remodeling After Transcatheter Aortic Valve Implantation**

Presenting Author: Abdalla Hassan

9:47 AM Discussion

9:50 AM **TCT 136: Validation of Surgical Risk Scores EuroSCORE EuroSCORE II and STS and the Power to Predict Mortality After TAVI**

Presenting Author: Javier Lopez-Pais

9:57 AM Discussion

10:00 AM **TCT 137: Dose Dependent Effects of Angiotensin Converting Enzyme Inhibitors and Angiotensin II Receptor Blockers on Clinical and Echocardiographic Outcomes After Transcatheter Aortic Valve Replacement**

Presenting Author: Brent Klinkhammer

10:07 AM Discussion

10:10 AM **TCT 138: The Immediate Physiological Impact of Transcatheter Aortic Valve Replacement on Central Aortic Pressure in Patients With Severe Aortic Stenosis**

Presenting Author: Michael Michail

10:17 AM Discussion

10:20 AM **TCT 139: Patients With Aortic Stenosis Exhibit Early Improved Endothelial Function Following Aortic Valve Replacement**

Presenting Author: Andrea Comella

10:27 AM Discussion

**INTRAVASCULAR IMAGING - 1****Intravascular Imaging - 1**

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

9:30 AM - 10:30 AM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

**Intravascular Imaging - 1**

Moderators: Atul Abhyankar, Peter H. Stone Discussants: Joost Daemen, Roberto Diletti, Vasim Farooq

9:30 AM **TCT 340: IVUS Guided PSP Technique of Drug Eluting Stents in Complex Coronary Lesions**

Presenting Author: Han-bit Park

9:37 AM Discussion

9:40 AM **TCT 341: Clinical Significance of Post Stent Intravascular Ultrasound for Chronic Total Occlusion Percutaneous Coronary Intervention With Drug Eluting Stents**

Presenting Author: Sang-Cheol Cho

9:47 AM Discussion



- 9:50 AM **TCT 342: DeepIVUS: A Machine Learning Platform for Fully Automatic IVUS Segmentation and Phenotyping**  
*Presenting Author: David Molony*
- 9:57 AM **Discussion**
- 10:00 AM **TCT 343: Diagnostic Accuracy and Reproducibility of Optical Coherence Tomography Based Fractional Flow Reserve for Functional Evaluation of Coronary Stenosis**  
*Presenting Author: Shengxian Tu*
- 10:07 AM **Discussion**
- 10:10 AM **TCT 344: Impact of OCT Guided PCI Using a Specific Stent Optimization Strategy on Clinical Outcomes in Comparison Between Patients With and Without Diabetes Mellitus**  
*Presenting Author: Masaru Kuroda*
- 10:17 AM **Discussion**
- 10:20 AM **TCT 345: Impact of Myocardial Bridging on Long Term Outcomes After Heart Transplantation: Risk Stratification With IVUS Determined Anatomical Properties**  
*Presenting Author: Kozo Okada*
- 10:27 AM **Discussion**

- 10:00 AM **TCT 433: Redo Mitral Valve Replacement Versus Transcatheter Mitral Valve in Ring in Patients With Failed Mitral Valve Repair: A Single Center Experience**  
*Presenting Author: Philipp Kiefer*
- 10:07 AM **Discussion**
- 10:10 AM **TCT 434: Venous Thromboembolism in Patients Undergoing Transcatheter Mitral Valve Replacement: Analysis of the National Inpatient Sample Databases**  
*Presenting Author: Juan Del Cid Fratti*
- 10:17 AM **Discussion**
- 10:20 AM **TCT 435: LVOT Obstruction Cannot Be Reliably Predicted by the Swine Model Testing of Transcatheter Mitral Valve Replacement TMVR Technologies**  
*Presenting Author: Marco Ferrone*
- 10:27 AM **Discussion**

## NATURAL HISTORY AND MANAGEMENT OF MITRAL AND TRICUSPID VALVE DISEASE - 1

### Natural History and Management of Mitral and Tricuspid Valve Disease - 1

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

9:30 AM - 10:30 AM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

#### Natural History and Management of Mitral and Tricuspid Valve Disease - 1

Moderators: Frederick G. St. Goar Discussants: Paolo Denti, Robert L. Smith

- 9:30 AM **TCT 430: Comparison of Tricuspid Annulus Measurements By 2D Transthoracic and Transesophageal Echocardiography and 3D Automated Transesophageal Echocardiography with CT Annulus Measurements in Patients with Severe Tricuspid Regurgitation Being Evaluated for Transcatheter Intervention**  
*Presenting Author: Shawn Reginald*
- 9:37 AM **Discussion**
- 9:40 AM **TCT 431: Impact of Tricuspid Regurgitation on TAVR Patient Outcomes**  
*Presenting Author: Stephan Haussig*
- 9:47 AM **Discussion**
- 9:50 AM **TCT 432: The Economic Impact of Clinically Significant Tricuspid Regurgitation**  
*Presenting Author: Patrick Verta*
- 9:57 AM **Discussion**

## OUTCOMES AFTER PRIMARY PCI - 1

### Outcomes After Primary PCI - 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

9:30 AM - 10:30 AM

The Moscone Center

9:30 AM - 10:30 AM

#### Outcomes After Primary PCI - 1

Moderators: Michael A. Kutcher, Tak W. Kwan Discussants: Pablo Lamelas, Massoud A. Leesar, Michel R. Le May

- 9:30 AM **TCT 483: Influence of Multivessel Disease and Impact of Complete Revascularization in Left Ventricular Function Recovery Following STEMI**  
*Presenting Author: Luis Ortega-Paz*
- 9:37 AM **Discussion**
- 9:40 AM **TCT 484: Prognostic Impact of Subclinical Hemoglobin Descents in Patients Undergoing Primary Angioplasty**  
*Presenting Author: Alfredo Redondo Dieguez*
- 9:47 AM **Discussion**
- 9:50 AM **TCT 485: Does the Time of Day of Primary PCI Influence Infarct Size and Prognosis in Patients With Acute STEMI Analysis From an Individual Patient Data Pooled Database of Randomized Trials**  
*Presenting Author: Shmuel Chen*
- 9:57 AM **Discussion**
- 10:00 AM **TCT 486: Critical Role of Stakeholders in STEMI Networks**  
*Presenting Author: Sameer Mehta*
- 10:07 AM **Discussion**
- 10:10 AM **TCT 487: Heart Failure in ST Segment Elevation Myocardial Infarction Predictors and Prognostic Impact: Insights From the TOTAL Trial**

Presenting Author: Elie Akl

Presenting Author: Hak Seung Lee

- 10:17 AM Discussion
- 10:20 AM **TCT 488: Time to Telemedicine Diagnosis TTD a New Metric in STEMI Interventions**  
Presenting Author: Sameer Mehta
- 10:27 AM Discussion

- 10:27 AM Discussion

## REVASCULARIZATION IN THE ELDERLY AND THE FRAIL - 1

## REVASCULARIZATION IN PATIENTS WITH DIABETES - 1

### Revascularization in Patients With Diabetes - 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

9:30 AM - 10:30 AM

The Moscone Center

9:30 AM - 10:30 AM

#### Revascularization in Patients With Diabetes - 1

Moderators: Waleed El Awady, James Flaherty  
Discussants: Norman E. Lepor, Ahmed Magdy, Duk-Woo Park, Anand Prasad

9:30 AM **TCT 627: Novel Sirolimus Eluting Stent With Fusion Coating Technology to Address the Diabetes Issue: Two Year Results of the en ABL e Registry**  
Presenting Author: Luca Testa

9:37 AM Discussion  
9:40 AM **TCT 628: Long Term Outcomes After Percutaneous Coronary Intervention Relative to Bypass Surgery in Diabetic Patients With Multivessel Coronary Artery Disease According to Clinical Presentation**  
Presenting Author: Yong-Joon Lee

9:47 AM Discussion  
9:50 AM **TCT 629: Impact of Diabetes Mellitus on One Year Clinical Outcomes of Ultra Thin Strut 60 m Biodegradable Polymer Coated Sirolimus Eluting Coronary Stents**  
Presenting Author: POTHINENI RAMESH BABU

9:57 AM Discussion  
10:00 AM **TCT 630: The Impact of Diabetes Mellitus in Patients Undergoing Percutaneous Coronary Intervention With a Drug Eluting Stent for Unprotected Left Main Stenosis**  
Presenting Author: Anastasios Roumeliotis

10:07 AM Discussion  
10:10 AM **TCT 631: Comparison Between the Use of Overlapping Stents and Very Long Stents in the Diabetic Population With Diffuse Coronary Artery Disease: A Real Life Study**  
Presenting Author: IGNACIO SANCHEZ PEREZ

10:17 AM Discussion  
10:20 AM **TCT 632: Complete Revascularization of Multivessel Coronary Artery Disease Does Not Improve Clinical Outcomes in ST Segment Elevation Myocardial Infarction Patients With Diabetes Mellitus**

### Revascularization in the Elderly and the Frail - 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

9:30 AM - 10:30 AM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

#### Revascularization in the Elderly and the Frail - 1

Moderators: William E. Boden, Mark B. Effron  
Discussants: James C. Blankenship, Ariel Finkelstein, Sudhir Rathore, Bernadette S. Speiser

9:30 AM **TCT 639: Early Invasive Versus Initial Conservative Management Among Older Patients With Non ST Elevation Acute Coronary Syndrome**  
Presenting Author: Qais Radaideh

9:37 AM Discussion  
9:40 AM **TCT 640: Clinical Outcomes After Percutaneous Coronary Intervention in Very Old Patients With Acute Coronary Syndrome: An Analysis From Interventional Cardiology Research Incooperation Society Drug Eluting Stents IRIS DES Registry**  
Presenting Author: Sangwoo Park

9:47 AM Discussion  
9:50 AM **TCT 641: Comparison of Long Term Outcomes of Medical Therapy and Successful Recanalization for Coronary Chronic Total Occlusions in Elderly Patients**  
Presenting Author: Lei Guo

9:57 AM Discussion  
10:00 AM **TCT 642: PARIS Risk Score Stratified Analysis of Clinical Outcomes Among Elderly Patients Aged 75 Years Treated With 23 Month Ticagrelor Monotherapy Following 1 Month DAPT After PCI in the GLOBAL LEADERS Trial**  
Presenting Author: Mariusz Tomaniak

10:07 AM Discussion  
10:10 AM **TCT 643: The Appropriate Duration of Dual Antiplatelet Therapy for Elderly Patients Treated With Percutaneous Coronary Intervention**  
Presenting Author: Hiroyoshi Yokoi

10:17 AM Discussion  
10:20 AM **TCT 644: The Effects of Frailty on Mortality and Complications Following Percutaneous Coronary Interventions**  
Presenting Author: Josef Madrigal

10:27 AM Discussion

## STROKE AND STROKE PREVENTION

## Stroke and Stroke Prevention

### Vascular

THURSDAY, SEPTEMBER 26, 2019

9:30 AM - 10:30 AM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

### Stroke and Stroke Prevention

Moderators: Alex Chebl, David R. Holmes Jr. Discussants: J. Michael Bacharach, Jan Kovac, Aman B. Patel, David E. Thaler

9:30 AM **TCT 667: Role of the Type of Carotid Stent and Cerebral Protection on Cerebral Microembolization During Carotid Artery Stenting: A Randomized Study Comparing Wallstent vs. Roadsaver Stent and Distal vs. Proximal Cerebral Protection**

Presenting Author: Stefano Galli

9:37 AM **Discussion**

9:40 AM **TCT 668: Computational Fluid Dynamics Study of a Novel Embolic Protection Device**

Presenting Author: Udi Nussinovitch

9:47 AM **Discussion**

9:50 AM **TCT 669: Predictors of the Long Term Antihypertensive Effect of Carotid Artery Stenting**

Presenting Author: Firdavs B. Shukurov

9:57 AM **Discussion**

10:00 AM **TCT 670: Worse Prognosis in Old Thrombi Related Large Vessel Occlusion Stroke**

Presenting Author: Martijn Meuwissen

10:07 AM **Discussion**

10:10 AM **TCT 671: The Results of Endovascular Treatment in Patients With Ischemic Stroke Both Older and Younger Than 70 Years**

Presenting Author: Andrey Sidorenko

10:17 AM **Discussion**

10:20 AM **TCT 672: Usefulness of Soluble ST2 in Evaluating Severity of Cerebral Cardiac Syndrome**

Presenting Author: Pei-Hsun Sung

10:27 AM **Discussion**

9:30 AM - 10:30 AM

### Vascular Access and Closure in PCI - 1

Moderators: Robert J. Applegate Discussants: Sanjay Kumar Chugh, Christopher J. Cooper, Ian C. Gilchrist, Steven Goldberg

9:30 AM **TCT 777: Prevention of Radial Artery Occlusion: Comparison of Three Hemostatic Methods in Transradial Intervention**

Presenting Author: Jesus Reyes

9:37 AM **Discussion**

9:40 AM **TCT 778: Evaluation of Railway Sheathless Access System for Transradial Coronary and Peripheral Intervention**

Presenting Author: Courtney Walsh Krathen

9:47 AM **Discussion**

9:50 AM **TCT 779: An Updated Meta Analysis of Radial vs. Femoral Access for Percutaneous Intervention in the Context of Aggressive Bleeding Avoidance Strategies**

Presenting Author: Kirstin Hesterberg

9:57 AM **Discussion**

10:00 AM **TCT 780: Randomized Comparison of Hemostasis Times Following Transradial Access With a Kaolin Based Hemostatic Pad QuikClot Radial vs. Mechanical Compression TR Band**

Presenting Author: Jonathan Roberts

10:07 AM **Discussion**

10:10 AM **TCT 781: The Quest for a Radial Lounge: StatSeal Reduces Transradial Coronary Angiography Turnaround Time and Cost**

Presenting Author: Victor Galusko

10:17 AM **Discussion**

10:20 AM **TCT 782: Slender Distal Transradial Access for Complex Percutaneous Coronary Intervention: A Case Matched Comparison With Classical Radial Approach**

Presenting Author: Gregory Sgueglia

10:27 AM **Discussion**

## BIORESORBABLE SCAFFOLDS - 1

### Bioresorbable Scaffolds - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

10:30 AM - 11:30 AM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

### Bioresorbable Scaffolds - 1

Moderators: Salvatore Cassese, Jun-Jack Cheng Discussants: Stephen G. Ellis, Vasim Farooq, Guy J. Friedrich

10:30 AM **TCT 164: Clinical Outcomes at 3 Years of the Absorb Bioresorbable Vascular Scaffold Versus XIENCE Drug Eluting Metallic Stent in Patients With or Without Acute Coronary Syndrome AIDA Trial Substudy**

## VASCULAR ACCESS AND CLOSURE IN PCI - 1

### Vascular Access and Closure in PCI - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

9:30 AM - 10:30 AM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

Presenting Author: Ruben Tijssen

- 10:37 AM Discussion
- 10:40 AM **TCT 165: 5 Year Clinical Results of a Randomized Trial Evaluating the Absorb Bioresorbable Vascular Scaffold vs. Metallic Drug Eluting Stents in De Novo Native Coronary Artery Lesions: Data From the ABSORB Japan Trial**  
*Presenting Author: Ken Kozuma*
- 10:47 AM Discussion
- 10:50 AM **TCT 166: Optimal Vessel Sizing for Bioresorbable Scaffold Implantation and the Incidence of Scaffold Thrombosis: Insights From the COMPARE ABSORB Trial**  
*Presenting Author: CHUN CHIN CHANG*
- 10:57 AM Discussion
- 11:00 AM **TCT 167: Clinical Outcomes of the Absorb Everolimus Eluting Bioresorbable Scaffold: Final 5 Year Results From the ABSORB III Trial**  
*Presenting Author: Stephen G. Ellis*
- 11:07 AM Discussion
- 11:10 AM **TCT 168: Vessel Remodeling Mechanisms After Bioresorbable Scaffold Implantation**  
*Presenting Author: Nikolai Strygo*
- 11:17 AM Discussion
- 11:20 AM **TCT 169: Early Scaffold Strut Coverage in Ultra High Molecular Weight Amorphous PLLA Sirolimus Eluting Bioresorbable Scaffolds: Impact of Strut Thickness Assessed in Normal Porcine Coronary Arteries**  
*Presenting Author: Pawel P. Gasiot*
- 11:27 AM Discussion

## DRUG-ELUTING STENT STUDIES - 1

### Drug-Eluting Stent Studies - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

10:30 AM - 11:30 AM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Drug-Eluting Stent Studies - 1

Moderators: J. Dawn Abbott, Andrea Abizaid Discussants: Joseph P. Carrozza Jr, Eliano Pio Navarese, Kyung Woo (KW) Park

- 10:30 AM **TCT 276: Individual Patient Data Analysis of the BIOFLOW Study Program Comparing Safety and Efficacy of a Bioresorbable Polymer Sirolimus Eluting Stent to a Durable Polymer Everolimus Eluting Stent**  
*Presenting Author: Gert Richardt*
- 10:37 AM Discussion
- 10:40 AM **TCT 277: Global Differences in Predictors of Long Term Outcomes After Percutaneous Coronary Intervention: Insights From the XIENCE Pooled Registry**

Presenting Author: Rishi Chandiramani

- 10:47 AM Discussion
- 10:50 AM **TCT 278: Clinical Outcomes of All Comer Patients Presenting With Acute Coronary Syndrome Treated With the COMBO Stent: From the MASCOT and REMEDEE Registries**  
*Presenting Author: Vera de Winter*
- 10:57 AM Discussion
- 11:00 AM **TCT 279: Safety and Efficacy of Sirolimus Eluting Stent System in All Comers Real World Population With Coronary Artery Stenosis: The MILES Global Study**
- 11:07 AM Discussion
- 11:10 AM **TCT 280: BIOFLOW VI: Biotronik Safety and Clinical Performance of the Drug Eluting Orsiro Stent in the Treatment of Subjects With De Novo Coronary Artery Lesions VI: 2 Year Clinical Results**  
*Presenting Author: Yue jin Yang*
- 11:17 AM Discussion
- 11:20 AM **TCT 281: Efficacy and Safety of the Ultrathin Strut Biodegradable Polymer Sirolimus Eluting Stents in Routine Clinical Practice: Data From the IRIS DES Registry**  
*Presenting Author: Junghoon Lee*
- 11:27 AM Discussion

## EXCEL TRIAL CLINICAL SUBSTUDIES - 1

### EXCEL Trial Clinical Substudies - 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

10:30 AM - 11:30 AM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### EXCEL Trial Clinical Substudies - 1

Moderators: Magdy Abdelhamid Discussants: Sorin J. Brener, Pawel E. Buszman, Habib Gamra

- 10:30 AM **TCT 306: Association Between Prediabetes and Clinical Outcomes After Left Main Coronary Artery Revascularization by PCI or CABG: Analysis From the EXCEL Trial**  
*Presenting Author: Bjorn Redfors*
- 10:37 AM Discussion
- 10:40 AM **TCT 307: Vascular Closure Device Use After PCI for Left Main Disease: Analysis From the EXCEL Trial**  
*Presenting Author: Toshiki Kuno*
- 10:47 AM Discussion
- 10:50 AM **TCT 308: Impact of Periprocedural Major Adverse Events After PCI and CABG on Long Term Outcomes in Patients With Left Main Disease: The EXCEL Trial**  
*Presenting Author: Sneha Jain*
- 10:57 AM Discussion

- 11:00 AM **TCT 309: Incidence and Clinical Impact of Major Infections Following PCI or CABG for Left Main Disease: Insights From the EXCEL Trial**  
*Presenting Author: Rodrigo Modolo*
- 11:07 AM **Discussion**
- 11:10 AM **TCT 310: Outcomes in Patients With Peripheral Vascular Disease After PCI Versus CABG for Left Main Coronary Artery Disease: A Substudy From the EXCEL Trial**  
*Presenting Author: Masahiko Noguchi*
- 11:17 AM **Discussion**
- 11:20 AM **TCT 311: Four Year Clinical Outcomes in High Bleeding Risk Patients After Surgical or Percutaneous Left Main Coronary Artery Revascularization: The EXCEL Trial**  
*Presenting Author: Bimmer E. Claessen*
- 11:27 AM **Discussion**

- 11:10 AM **TCT 327: Feasibility of IVUS Derived FFR as a Novel Technique to Estimate Functional Severity of Coronary Stenosis**  
*Presenting Author: Kuninobu Kashiya*
- 11:17 AM **Discussion**
- 11:20 AM **TCT 328: Diagnostic Performance of Quantitative Flow Ratio from Angiography Versus Fractional Flow Reserve From Computed Tomography**  
*Presenting Author: Hiroki Emori*
- 11:27 AM **Discussion**

## IMAGING-DERIVED PHYSIOLOGIC LESION ASSESSMENT - 1

### Imaging-Derived Physiologic Lesion Assessment - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

10:30 AM - 11:30 AM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Imaging-Derived Physiologic Lesion Assessment - 1

*Moderators: Elmir Omerovic, Miodrag C. Ostojic*  
*Discussants: Robert D. Safian, Arnold Seto, Daniel I. Simon, Eric Van Belle*

- 10:30 AM **TCT 323: Angiography Derived Contrast Fractional Flow Reserve From a Specially Designed Computational Fluid Dynamic Method**  
*Presenting Author: YUNLONG HUO*
- 10:37 AM **Discussion**
- 10:40 AM **TCT 324: Diagnostic Performance of Angiogram Derived Fractional Flow Reserve: A Pooled Analysis of Five Prospective Cohort Studies**  
*Presenting Author: Guy Witberg*
- 10:47 AM **Discussion**
- 10:50 AM **TCT 325: Quantitative Flow Ratio for Assessment of Nonculprit Coronary Lesions in Patients With ST Segment Elevation Myocardial Infarction**  
*Presenting Author: Hidekuni Kirigaya*
- 10:57 AM **Discussion**
- 11:00 AM **TCT 326: Diagnostic Performance of Angiography Based Quantitative Flow Ratio With Respect To Fractional Flow Reserve Derived From Computed Tomography Angiography: Insight From the SYNTAX III Trial**  
*Presenting Author: Kuniaki Takahashi*
- 11:07 AM **Discussion**

## LARGE-BORE VASCULAR ACCESS AND CLOSURE

### Large-Bore Vascular Access and Closure

Vascular

THURSDAY, SEPTEMBER 26, 2019

10:30 AM - 11:30 AM

The Moscone Center

10:30 AM - 11:30 AM

#### Large-Bore Vascular Access and Closure

*Moderators: Tony Das, Gary Gershony*  
*Discussants: Itshac Itsik Ben-dor, Prakash Krishnan, Oscar A. Mendiz, Sanjum S. Sethi*

- 10:30 AM **TCT 364: The Closer Large Bore Vascular Sealing System: First in Man In Hospital and Long Term Experience**  
*Presenting Author: S. Chiu Wong*
- 10:37 AM **Discussion**
- 10:40 AM **TCT 365: Results of the Frontier IV Study With the PerQseal Vivasure Medical Ltd. Fully Absorbable Patch Based Large Hole Vascular Closure Device.**  
*Presenting Author: Arne G. Schwindt*
- 10:47 AM **Discussion**
- 10:50 AM **TCT 366: Novel Direct Visualization Technique Facilitates Safe and Reproducible Closure Post Large Bore Sheath Removal: The FAST MANTA Pilot Study**  
*Presenting Author: Janarthanan Sathanathan*
- 10:57 AM **Discussion**
- 11:00 AM **TCT 367: Large Bore Vascular Access Training With the CardioSkills Smart Puncture Simulator: A Training Tool and Concept for Avoiding Vascular Access Site Complications**  
*Presenting Author: Andreas Norbert Meissner*
- 11:07 AM **Discussion**
- 11:10 AM **TCT 368: Axillary Artery Access in the Setting of Cardiogenic Shock and Severe Peripheral Arterial Disease**  
*Presenting Author: M Chadi Alraies*
- 11:17 AM **Discussion**
- 11:20 AM **TCT 369: Efficacy and Safety of Figure of Eight Suture vs. Manual Pressure for Venous Access Closure: A Meta Analysis**

## NATURAL HISTORY AND MANAGEMENT OF MITRAL AND TRICUSPID VALVE DISEASE - 2

### Natural History and Management of Mitral and Tricuspid Valve Disease - 2

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

10:30 AM - 11:30 AM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Natural History and Management of Mitral and Tricuspid Valve Disease - 2

Moderators: Francesco Saia Discussants: Karl-Heinz Kuck, Alexander Lauten, Helge Möllmann, Luigi Salemme

10:30 AM **TCT 436: Transcatheter Versus Surgical Mitral Valve Repair in Patients With Prior CABG: A Nationwide Analysis**  
Presenting Author: Syed Zaid

10:37 AM Discussion

10:40 AM **TCT 437: Characteristics and Outcomes of Patients With Normal Left Atrial Pressure Undergoing Transcatheter Mitral Valve Repair**  
Presenting Author: Jason Sims

10:47 AM Discussion

10:50 AM **TCT 438: Prognosis of MitraClip Combined With Optimal Medical Therapy vs. Optimal Medical Therapy Alone in the Treatment of Functional Mitral Regurgitation: A Meta Analysis of Randomized Controlled Trials and Propensity Score Matching Cohorts**  
Presenting Author: Jakrin Kewcharoen

10:57 AM Discussion

11:00 AM **TCT 439: Procedural and 30 Day Outcomes of Patients Undergoing Transcatheter Aortic and Mitral Valve Replacements**  
Presenting Author: Alan Zajarias

11:07 AM Discussion

11:10 AM **TCT 440: A More Efficient Method of Patient Evaluation for TMVR: Planning for Best and Worst Case Position**  
Presenting Author: Clare Ward

11:17 AM Discussion

11:20 AM **TCT 441: Effects of Frailty on Postprocedural Outcomes in Patients Receiving Transcatheter Mitral Valve Repair**  
Presenting Author: Nathaniel Christian-Miller

11:27 AM Discussion

## OUTCOMES AFTER PRIMARY PCI - 2

### Outcomes After Primary PCI - 2

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

10:30 AM - 11:30 AM

The Moscone Center

10:30 AM - 11:30 AM

### Outcomes After Primary PCI - 2

Moderator: Michael Kang-Yin Lee

10:30 AM **TCT 489: Base Camp to Mount Everest Milestones in Advancing a Single Lead for STEMI Detection**  
Presenting Author: Sameer Mehta

10:37 AM Discussion

10:40 AM **TCT 490: Myocardial Infarction Due to Acute Left Circumflex LCx Occlusion: Electrocardiographic Parameters Infarct Size Reperfusion Delay Average Hospital Stay and Cardiovascular Mortality**  
Presenting Author: IGNACIO SANCHEZ PEREZ

10:47 AM Discussion

10:50 AM **TCT 491: A Novel Risk Score to Predict 24 Month Postdischarge Death for Patients With Non ST Segment Elevation Myocardial Infarction**  
Presenting Author: Guofeng Gao

10:57 AM Discussion

11:00 AM **TCT 492: Impact of Hemoglobin Concentration on Infarct Size in Patients With STEMI Undergoing PCI: Patient Level Pooled Analysis From Two Randomized Trials**  
Presenting Author: Fotis Gkargkoulas

11:07 AM Discussion

11:10 AM **TCT 493: Epidemiology of In Hospital Cardiac Arrest Complicating Non ST Elevation Myocardial Infarction Receiving Early Coronary Angiography**  
Presenting Author: Saraschandra Vallabhajosyula

11:17 AM Discussion

11:20 AM **TCT 494: PFT Based Antiplatelet Therapy Reduces Cardiovascular Events in Post AMI Patients With Left Ventricular Dysfunction After Percutaneous Coronary Intervention**  
Presenting Author: YOU JIEYUN

11:27 AM Discussion

## PACEMAKERS AND CONDUCTION ABNORMALITIES IN PATIENTS WITH TAVR - 1

### Pacemakers and Conduction Abnormalities in Patients With TAVR - 1

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

10:30 AM - 11:20 AM

The Moscone Center



10:30 AM - 11:20 AM

### Pacemakers and Conduction Abnormalities in Patients With TAVR - 1

Moderators: Philippe Pibarot Discussants: Hyo-Soo Kim, David W.M. Muller

10:30 AM **TCT 525: Predictors of Permanent Pacemaker Implantation After Transcatheter Aortic Valve Replacement in Patients With Very Large Annuli: Data From the 34mm Self Expanding CoreValve Evolut R Prospective Multicenter Registry**  
Presenting Author: Victor Alfonso Jimenez Dias

10:37 AM **Discussion**

10:40 AM **TCT 526: Impact of Pre Existing Conduction Abnormalities on Permanent Pacemaker Requirement and Survival in Patients Undergoing Transcatheter Aortic Valve Replacement With the SAPIEN 3 Valve**  
Presenting Author: Yasser Sammour

10:47 AM **Discussion**

10:50 AM **TCT 527: Site Level Variation and Predictors of Post TAVR Permanent Pacemaker Implantation in the Evolut Low Risk Trial**  
Presenting Author: Hemal Gada

10:57 AM **Discussion**

11:00 AM **TCT 528: Novel Predictors of New Permanent Pacemaker Implantation After Evolut TAVR**  
Presenting Author: Syed Zaid

11:07 AM **Discussion**

11:10 AM **TCT 529: Novel Predictors New Persistent Left Bundle Branch Block After Evolut TAVR**  
Presenting Author: Syed Zaid

11:17 AM **Discussion**

Presenting Author: Lei Song

11:47 AM **Discussion**

11:50 AM **TCT 172: Hemodynamic Analysis of New Version Mirage Bioresorbable Scaffold and Metallic Ultimaster Stent: A New Era Begins With Shear Stress Analysis in Stent Assessment**  
Presenting Author: ERHAN TENEKECIOGLU

11:57 AM **Discussion**

12:00 PM **TCT 173: The ABSORB II and ABSORB Japan Trials: Final Intravascular Ultrasound Results**  
Presenting Author: Yasuhiro Honda

12:07 PM **Discussion**

12:10 PM **TCT 174: Overexpansion of Thin Strut BRS in a Lesion Model: In Vitro Insights on Recoil and Mechanical Integrity**  
Presenting Author: Ang Huiying

12:17 PM **Discussion**

12:20 PM **TCT 175: A First in Man Study of the Bioheart Sirolimus Eluting Bioresorbable Scaffold in Patients With Coronary Artery Disease: 2 Year Clinical and Imaging Outcomes**  
Presenting Author: Md Misbahul Ferdous

12:27 PM **Discussion**

## EXCEL TRIAL CLINICAL SUBSTUDIES - 2

### EXCEL Trial Clinical Substudies - 2

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

11:30 AM - 12:30 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### EXCEL Trial Clinical Substudies - 2

Moderators: Daniel Chamie Discussants: Jun-Jack Cheng, Kenneth Chin, Kalpa De Silva

11:30 AM **TCT 312: Spontaneous Myocardial Infarction After Revascularization in Left Main Disease: Analysis From the EXCEL Trial**  
Presenting Author: Mahesh V. Madhavan

11:37 AM **Discussion**

11:40 AM **TCT 313: Incidence and Impact of Major Bleeding Events After PCI or CABG for Left Main Coronary Artery Disease: The EXCEL Trial**  
Presenting Author: Gennaro Giustino

11:47 AM **Discussion**

11:50 AM **TCT 314: Inpatient vs. Outpatient PCI in Patients With Left Main Disease: Analysis From the EXCEL Trial**  
Presenting Author: Prakriti Gaba

11:57 AM **Discussion**

## BIORESORBABLE SCAFFOLDS - 2

### Bioresorbable Scaffolds - 2

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

11:30 AM - 12:30 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### Bioresorbable Scaffolds - 2

Moderators: Olivier F. Bertrand, Bill D. Gogas Discussants: Stephen P. Hoole, Vincent On-Hing Kwok, Detlef G. Mathey

11:30 AM **TCT 170: Endothelial Shear Stress and Vascular Remodeling in Bioresorbable Scaffold and Metallic Stent**  
Presenting Author: ERHAN TENEKECIOGLU

11:37 AM **Discussion**

11:40 AM **TCT 171: A First in Man Study of the Firesorb Sirolimus Target Eluting Bioresorbable Vascular Scaffold in Patients With Coronary Artery Disease FUTURE I: 3 Year Clinical and Imaging Outcomes**

- 12:00 PM **TCT 315: White Blood Cell Count and 4 Year Clinical Outcomes After Left Main Coronary Artery Revascularization: Insights From the EXCEL Trial**  
*Presenting Author: Bimmer E. Claessen*
- 12:07 PM **Discussion**
- 12:10 PM **TCT 316: Clinical Outcomes After Left Main Coronary Artery Revascularization by PCI or CABG in Current Former and Never Smokers: Analysis From the EXCEL Trial**  
*Presenting Author: Bahira Shahim*
- 12:17 PM **Discussion**
- 12:20 PM **TCT 317: Impact of Coronary Artery Dominance on Prognosis After PCI and CABG for Unprotected Left Main Disease: Analysis From the EXCEL Trial**  
*Presenting Author: Eisuke Usui*
- 12:27 PM **Discussion**

- 12:10 PM **TCT 446: Sex Related Differences in In Hospital Outcomes of Transcatheter Mitral Valve Repair: Perspectives From a National Database**  
*Presenting Author: Ayman Elbadawi*
- 12:17 PM **Discussion**
- 12:20 PM **TCT 447: MitraClip Compared to Surgical Mitral Valve Repair in Octogenarians A Nationwide Analysis 2012 2015**  
*Presenting Author: Syed Zaid*
- 12:27 PM **Discussion**

## NATURAL HISTORY AND MANAGEMENT OF MITRAL AND TRICUSPID VALVE DISEASE - 3

## OUTCOMES AFTER PRIMARY PCI - 3

### Outcomes After Primary PCI - 3

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

11:30 AM - 12:30 PM  
The Moscone Center

11:30 AM - 12:30 PM

### Outcomes After Primary PCI - 3

*Moderators: Jose L. Leiva-Pons, Manel Sabate*  
*Discussants: Michael Maeng, Ahmed Magdy*

11:30 AM **TCT 495: Global Health Telemedicine Guided AMI Management**  
*Presenting Author: Sameer Mehta*

11:37 AM **Discussion**

11:40 AM **TCT 496: Impact of Body Mass Index on Infarct Size and Clinical Outcomes Following Primary PCI: Patient Level Analysis From 6 Randomized Trials**  
*Presenting Author: Bahira Shahim*

11:47 AM **Discussion**

11:50 AM **TCT 497: A Novel Risk Stratification System Angiographic GRACE Score Is Useful for Predicting In Hospital Mortality of Patients With Acute Myocardial Infarction: From K Active Registry**  
*Presenting Author: Takanobu Mitarai*

11:57 AM **Discussion**

12:00 PM **TCT 498: Final Results of the Optimal Timing of Coronary Intervention in Unstable Angina 2 OPTIMA 2 Trial**  
*Presenting Author: Nick Fagel*

12:07 PM **Discussion**

12:10 PM **TCT 499: App Based Remote Monitoring and Virtual Review Following ST Elevation Myocardial Infarction STEMI**  
*Presenting Author: Debashish Das*

12:17 PM **Discussion**

12:20 PM **TCT 500: Association Between Microvascular Dysfunction and Diastolic Dysfunction in ST Segment Elevation Myocardial Infarction With Preserved Ejection Fraction**

### Natural History and Management of Mitral and Tricuspid Valve Disease - 3

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

11:30 AM - 12:30 PM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### Natural History and Management of Mitral and Tricuspid Valve Disease - 3

*Moderators: Scott Lim, Igor F. Palacios*  
*Discussants: Robert J. Lederman, Stephen H. Little, David W.M. Muller*

11:30 AM **TCT 442: The Volume Outcomes Relationship Between Mitral Valve Surgery and MitraClip Procedure in a US Registry**  
*Presenting Author: Jad Omran*

11:37 AM **Discussion**

11:40 AM **TCT 443: Mitraclip Outcomes in Patients With Coronary Artery Disease**  
*Presenting Author: Obai Abdullah*

11:47 AM **Discussion**

11:50 AM **TCT 444: Left Ventricular Thinning and Distension to Mimic Heart Failure and Functional Mitral Regurgitation in Swine Hearts: A Platform to Test New Transcatheter Mitral and Heart Failure Devices**  
*Presenting Author: Elorm Agra*

11:57 AM **Discussion**

12:00 PM **TCT 445: Incidence of Cardiogenic Shock Between Transcatheter and Surgical Mitral Valve Repair in the United States: Insights From the Nationwide Inpatient Sample**  
*Presenting Author: Richard Hajjar*

12:07 PM **Discussion**

12:27 PM Discussion

## PACEMAKERS AND CONDUCTION ABNORMALITIES IN PATIENTS WITH TAVR - 2

### Pacemakers and Conduction Abnormalities in Patients With TAVR - 2

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

11:30 AM - 12:20 PM

The Moscone Center

11:30 AM - 12:20 PM

#### Pacemakers and Conduction Abnormalities in Patients With TAVR - 2

Moderators: Jan Kovac, Pablo Lamelas Discussants: Michael Kang-Yin Lee, Stamatiou Lerakis, Grayson H. Wheatley

11:30 AM **TCT 530: Late Onset of New Conduction Disturbances Requiring Permanent Pacemaker Implantation Following Transcatheter Aortic Valve Implantation**

Presenting Author: Martijn S. van Mourik

11:37 AM Discussion

11:40 AM **TCT 531: Risk Factors Associated With Permanent Pacemaker Implantation in Patients Receiving a Balloon Expandable Transcatheter Aortic Valve Prosthesis Results From Retrospective International Multicenter CONDUCT Registry**

Presenting Author: Michal Droppa

11:47 AM Discussion

11:50 AM **TCT 532: Impact of New Pacemakers in Patients Undergoing TAVR: A Report From the National SWENTRY and Swedish ICD and Pacemaker Registries**

Presenting Author: Oskar Angerås

11:57 AM Discussion

12:00 PM **TCT 533: New Permanent Pacemaker Implantation Does Not Affect Survival After Transcatheter Aortic Valve Replacement With SAPIEN 3 Valve**

Presenting Author: Yasser Sammour

12:07 PM Discussion

12:10 PM **TCT 534: Outcomes After Pacemaker Implantation in Patients With New Onset Left Bundle Branch Block After Transcatheter Aortic Valve Replacement**

Presenting Author: Michael Megaly

12:17 PM Discussion

11:30 AM - 12:30 PM

### Physiologic Lesion Assessment - 1

Discussant: Felix Bohm, Joseph P. Carrozza Jr, Jeff Chambers, Carlos Collet

11:30 AM **TCT 575: Outcomes With Deferred vs. Performed Revascularization of Coronary Lesions With Fractional Flow Reserve Values in the Grey Zone**

Presenting Author: Michael Megaly

11:37 AM Discussion

11:40 AM **TCT 576: Clinical Outcome of Fractional Flow Reserve FFR and Its Associated Alternate Indices During Practical Routine Clinical Procedures PRESSUREwire Registry**

Presenting Author: Colin Berry

11:47 AM Discussion

11:50 AM **TCT 577: Intensive Training and Real Time Quality Control by a Core Laboratory Substantially Improves Physiology Measurements: Lessons From DEFINE PCI**

Presenting Author: Mitsuaki Matsumura

11:57 AM Discussion

12:00 PM **TCT 578: Contrast Mediated FFR Plus Intracoronary Injection of Nitroglycerine: A Sumaximal Hyperemic Adenosine Free Index That Accurately Predicts FFR**

Presenting Author: LIVIA LUCIANA GHEORGHE

12:07 PM Discussion

12:10 PM **TCT 579: 2 Year Outcomes After Deferral of Revascularization Based on Fractional Flow Reserve: The J CONFIRM Registry**

Presenting Author: Shoichi Kuramitsu

12:17 PM Discussion

12:20 PM **TCT 580: Prognostic Value of the Index of Microcirculatory Resistance Over Serum Biomarkers in Light Chain Cardiac Amyloidosis**

Presenting Author: Ki Hong Choi

12:27 PM Discussion

## REVASCULARIZATION IN THE ELDERLY AND THE FRAIL - 2

### Revascularization in the Elderly and the Frail - 2

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

11:30 AM - 12:30 PM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

#### Revascularization in the Elderly and the Frail - 2

Moderators: Bernhard Meyer, Gilles Montalescot Discussants: John McB. Hodgson, Eliano Pio Navarese, Cheryl Pegus, John A. Spertus

11:30 AM **TCT 645: The Importance of Coronary Revascularization and Guideline Directed Medical Therapy GDMT in Elderly With Non ST Elevation Acute Coronary Syndrome NSTE ACS**

## PHYSIOLOGIC LESION ASSESSMENT - 1

### Physiologic Lesion Assessment - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

11:30 AM - 12:30 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

Presenting Author: Jonathan Fang

- 11:37 AM Discussion  
11:40 AM TCT 646: Markers of Frailty Predict Conservative Management in Very Elderly 85 Years Patients Presenting With Non ST Elevation Myocardial Infarction NSTEMI  
Presenting Author: Alexandra Murphy
- 11:47 AM Discussion  
11:50 AM TCT 647: Long Term Clinical Outcomes of Elderly Korean Patients With Multivessel Disease Undergoing Percutaneous Coronary Intervention With Drug Eluting Stents  
Presenting Author: Karim Abdelshafi
- 11:57 AM Discussion  
12:00 PM TCT 648: Clinical Outcomes of Bivalirudin vs. Heparin in Elderly Patients Undergoing Percutaneous Coronary Intervention: A Systematic Review and Meta Analysis of Randomized Controlled Trials  
Presenting Author: Lei Guo
- 12:07 PM Discussion  
12:10 PM TCT 649: Long Term Prognosis of Elderly Patients With Additional High Bleeding Risk Factors: A Pooled Analysis From Four Post Approval XIENCE Studies  
Presenting Author: Rishi Chandiramani
- 12:17 PM Discussion  
12:20 PM TCT 650: Economic Outcomes for Older Adults With Acute Myocardial Infarction Treated With PCI  
Presenting Author: Abdulla Damluji
- 12:27 PM Discussion

Presenting Author: Barbara Zvarova

- 11:57 AM Discussion  
12:00 PM TCT 682: Percutaneous Coronary Intervention and Transcatheter Aortic Valve Replacement Within the Same Admission  
Presenting Author: Konstantinos Voudris
- 12:07 PM Discussion  
12:10 PM TCT 683: Variation in the Timing of Percutaneous Coronary Intervention and Outcomes in Patients Undergoing Transcatheter Aortic Valve Replacement  
Presenting Author: Tomoki Ochiai
- 12:17 PM Discussion  
12:20 PM TCT 684: Treatment Strategies in Patients with Stable Obstructive Coronary Artery Disease and Severe Aortic Valve Stenosis Who Underwent TAVR  
Presenting Author: Mahmoud Ali
- 12:27 PM Discussion

## OUTCOMES AFTER PRIMARY PCI - 4

### Outcomes after Primary PCI - 4

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

12:30 PM - 1:30 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

12:30 PM - 1:30 PM

### Outcomes after Primary PCI - 4

Moderators: Talib Majwal, Robert T. Pyo  
Discussants: Ganesh Manoharan, Samer Mansour, Ruben A. Piraino, Gary L. Schaer

- 12:30 PM TCT 501: Forging Partnerships for Constructing a Telemedicine Guided Nationwide STEMI Program for Mexico  
Presenting Author: Sameer Mehta
- 12:37 PM Discussion  
12:40 PM TCT 502: One Year Outcomes of Supersaturated Oxygen Therapy in Acute Anterior Myocardial Infarction: The IC HOT Study  
Presenting Author: Shmuel Chen
- 12:47 PM Discussion  
12:50 PM TCT 503: KAsH Score: A New Tool to Predict in Hospital Death in Patients With Myocardial Infarction  
Presenting Author: Joel Monteiro
- 12:57 PM Discussion  
1:00 PM TCT 504: The Effect of Timing of Percutaneous Coronary Intervention Following Thrombolytic Therapy on the Outcome of Patients Presenting With Anterior ST Elevation Myocardial Infarction  
Presenting Author: Ahmad Alkonnaisi
- 1:07 PM Discussion

## TAVR AND CORONARY ARTERY DISEASE - 1

### TAVR and Coronary Artery Disease - 1

THURSDAY, SEPTEMBER 26, 2019

11:30 AM - 12:30 PM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### TAVR and Coronary Artery Disease - 1

Moderators: Bernard R. Chevalier, James Cockburn  
Discussants: Talib Majwal, John C. Messenger, Rajeev Narayan

- 11:30 AM TCT 679: Outcomes of Combined Transcatheter Aortic Valve Replacement and Percutaneous Coronary Interventions  
Presenting Author: Tariq Enezate
- 11:37 AM Discussion  
11:40 AM TCT 680: Validation of Virtual to Coronary Distance in Native Transcatheter Aortic Valve Replacement  
Presenting Author: Michael Fuery
- 11:47 AM Discussion  
11:50 AM TCT 681: In Hospital and Short Term TAVR Outcomes in Patients With and Without Unrevascularized Coronary Artery Disease

- 1:10 PM **TCT 505: Impact of Gender and Door to Balloon Times on Long Term Mortality in Patients Presenting With ST Elevation Myocardial Infarction STEMI**  
*Presenting Author: Alexandra Murphy*
- 1:17 PM **Discussion**
- 1:20 PM **TCT 506: LATIN STEMI Prototype for Developing Countries**  
*Presenting Author: Sameer Mehta*
- 1:27 PM **Discussion**

## PACEMAKERS AND CONDUCTION ABNORMALITIES IN PATIENTS WITH TAVR - 3

### Pacemakers and Conduction Abnormalities in Patients With TAVR - 3

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

12:30 PM - 1:20 PM

The Moscone Center

12:30 PM - 1:20 PM

#### Pacemakers and Conduction Abnormalities in Patients With TAVR - 3

*Moderators: Arnold Seto, Marco Zimarino*  
*Discussants: Kimberly Skelding, Giuseppe Tarantini, Apostolos Tzikas, Robert C. Welsh*

- 12:30 PM **TCT 535: Impact of Rapid Ventricular Pacing on Outcomes in Patient With Heart Failure After Transcatheter Aortic Valve Replacement A Retrospective Analysis at a Community Hospital**  
*Presenting Author: Eduardo Venegas*
- 12:37 PM **Discussion**
- 12:40 PM **TCT 536: Impact of Transcatheter Aortic Valve Replacement on His Ventricular Interval**  
*Presenting Author: Christian Ukena*
- 12:47 PM **Discussion**
- 12:50 PM **TCT 537: Electrophysiologic Complications With Transcatheter vs. Surgical Aortic Valve Replacement in Low Risk Patients: Evidence From a Meta Analysis of Randomized Controlled Trials**  
*Presenting Author: Amartya Kundu*
- 12:57 PM **Discussion**
- 1:00 PM **TCT 538: Can an Entirely Extracardiac Minimally Invasive Pacing System Be Helpful in TAVR Patients**  
*Presenting Author: Martin Burke*
- 1:07 PM **Discussion**
- 1:10 PM **TCT 539: Novel Predictors of New Persistent Left Bundle Branch Block After Edwards SAPIEN 3 TAVR**  
*Presenting Author: Syed Zaid*
- 1:17 PM **Discussion**

## RENAL INSUFFICIENCY AND CONTRAST NEPHROPATHY - 1

### Renal Insufficiency and Contrast Nephropathy - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

12:30 PM - 1:30 PM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

12:30 PM - 1:30 PM

#### Renal Insufficiency and Contrast Nephropathy - 1

*Moderators: Norman E. Lepor, Jihad A. Mustapha*  
*Discussants: Graham A. Cassel, Anand Prasad, C. Venkata S. Ram, George W. Vetrovec*

- 12:30 PM **TCT 609: Use of Iso Osmolar Contrast Media in High AKI Risk Patients Undergoing Endovascular Abdominal Aortic Aneurysm Repair EVAR Is Associated With Lower Incidence of Major Adverse Renal or Cardiac Events MARCE**  
*Presenting Author: Amit Amin*
- 12:37 PM **Discussion**
- 12:40 PM **TCT 610: Impact of Baseline Renal Function on the Long Term Clinical Outcomes After PCI: Insights From a Prespecified Subgroup Analysis of the Randomized GLOBAL LEADERS Trial**  
*Presenting Author: Mariusz Tomaniak*
- 12:47 PM **Discussion**
- 12:50 PM **TCT 611: Influence of Renal Dysfunction for Ischemic Stroke and Major Bleeding in Patients With Atrial Fibrillation Undergoing Percutaneous Coronary Intervention**  
*Presenting Author: Ko Yamamoto*
- 12:57 PM **Discussion**
- 1:00 PM **TCT 612: Poor Prognosis of Contrast Induced Nephropathy Was Observed More Than Ten Years Follow Up**  
*Presenting Author: TAILI LIU*
- 1:07 PM **Discussion**
- 1:10 PM **TCT 613: Preventive Intravascular Volume Expansion Strategies for Contrast Induced Acute Kidney Injury in Patients Receiving Intraarterial Contrast Media**  
*Presenting Author: Omar Sheikh*
- 1:17 PM **Discussion**
- 1:20 PM **TCT 614: Predictive and Prognostic Value of Serum Neutrophil Gelatinase Associated Lipocalin for Contrast Induced Acute Kidney Injury and Long Term Clinical Outcomes After Percutaneous Coronary Intervention**  
*Presenting Author: Ik Jun Choi*
- 1:27 PM **Discussion**

## STENT THROMBOSIS AND RESTENOSIS - 1

### Stent Thrombosis and Restenosis - 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

12:30 PM - 1:20 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

12:30 PM - 1:20 PM

### Stent Thrombosis and Restenosis - 1

Moderators: Detlef G. Mathey, Pieter R. Stella  
Discussants: Elmira Omerovic, Robert S. Schwartz, Jean-François Tanguay, Ron S. Waksman

12:30 PM **TCT 657: Comparison of Subsequent Neoatherosclerotic Findings at Mid Term Follow Up Optical Coherence Tomography Between Second and Third Generation Drug Eluting Stent Implantation**  
Presenting Author: Toshiya Miura

12:37 PM **Discussion**

12:40 PM **TCT 658: Severe Acute Stent Malapposition After Drug Eluting Stent Implantation: Effects on Long Term Clinical Outcomes**  
Presenting Author: Seung-Yul Lee

12:47 PM **Discussion**

12:50 PM **TCT 659: Intravascular Ultrasound Analysis of Calcified Neoatherosclerosis Causing In Stent Restenosis and Its Clinical Implication: From IRIS DES and DEB Registry**  
Presenting Author: Sang-Cheol Cho

12:57 PM **Discussion**

1:00 PM **TCT 660: Repeat Vascular Brachytherapy for Recurrent In Stent Restenosis in Patients With Failed Intracoronary Radiation Therapy**  
Presenting Author: Yuefeng Chen

1:07 PM **Discussion**

1:10 PM **TCT 661: Angiographic Results of Everolimus Eluting Stents for the Treatment of In Stent Restenosis**  
Presenting Author: Jens Wiebe

1:17 PM **Discussion**

2:07 PM **Discussion**

2:10 PM **TCT 141: C Reactive Protein/Albumin Ratio in Patients Undergoing Transcatheter Aortic Valve Replacement**  
Presenting Author: Derk Frank

2:17 PM **Discussion**

2:20 PM **TCT 142: Clinical Characteristics and Outcomes of Patients Undergoing Transcatheter Aortic Valve Replacement with STS PROM of 3**  
Presenting Author: Jackson King

2:27 PM **Discussion**

2:30 PM **TCT 143: Changes in Quality of Life in Patients With Low Flow Aortic Stenosis Undergoing Transcatheter Aortic Valve Replacement**  
Presenting Author: Aisha Ahmed

2:37 PM **Discussion**

2:40 PM **TCT 144: Impact of Diastolic Dysfunction on Mortality and Quality of Life After Transcatheter Aortic Valve Replacement**  
Presenting Author: Mahesh Anantha Narayanan

2:47 PM **Discussion**

2:50 PM **TCT 145: Invasive Corroboration of Echocardiographic Low Stroke Volume Index in Aortic Stenosis and Its Impact on Transaortic Gradient and Aortic Valve Area**  
Presenting Author: Ramy Mando

2:57 PM **Discussion**

## DRUG-ELUTING BALLOONS AND LOCAL DRUG DELIVERY - 1

### Drug-Eluting Balloons and Local Drug Delivery - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:00 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

### Drug-Eluting Balloons and Local Drug Delivery - 1

Moderators: Robert M. Bersin  
Discussants: Marianne Brodmann, Salvatore Cassese, Jihad A. Mustapha

2:00 PM **TCT 259: Drug Coated Balloon Versus Drug Eluting Stent for the Treatment of Small Vessel Disease: 2 Year Clinical Outcomes of the RESTORE SVD China Randomized Trial**  
Presenting Author: Jian Tian

2:07 PM **Discussion**

2:10 PM **TCT 260: Procedural Optimization Improved the Clinical Outcome of Drug Coated Balloons for DES ISR Proposal of the DCB 4 Factors**  
Presenting Author: Jeehoon Kang

2:17 PM **Discussion**

## ASSESSMENT OF PATIENTS WITH AORTIC STENOSIS OR AORTIC INSUFFICIENCY - 2

### Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 2

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:00 PM

The Moscone Center

2:00 PM - 3:00 PM

### Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 2

Moderators: Pedro A. Lemos  
Discussants: Blase A. Carabello, Petra Poliacikova, Stephen R. Ramee

2:00 PM **TCT 140: Impact of Left Ventricular Mass Regression on Long Term Clinical Outcomes After Transcatheter Aortic Valve Replacement: An Analysis of the PARTNER 1 and 2 Trials and Registries**  
Presenting Author: Katherine Chau



- 2:20 PM **TCT 261: Identifying Conditions for Very Late Tissue Retention of Paclitaxel: Insights From Mechanistic Computational Modeling**  
*Presenting Author: Abraham Tzafiri*
- 2:27 PM **Discussion**
- 2:30 PM **TCT 262: Use of Sirolimus Coated Balloon in Small Vessel De Novo Lesions: Mid Term Follow Up From a Single Center Registry**  
*Presenting Author: Sandeep Basavarajaiah*
- 2:37 PM **Discussion**
- 2:40 PM **TCT 263: To Assess the Safety and Efficacy of Novel Drug Coated Balloon in All Comers Real World Population**  
*Presenting Author: Sameer Dani*
- 2:47 PM **Discussion**
- 2:50 PM **TCT 264: Clinical Outcome Post Sirolimus Coated Balloon Angioplasty in Patients With De Novo Lesions Located in Small Vessel Arteries 2.75 mm: 2 Year Results From Prospective Study**  
*Presenting Author: Bernardo Cortese*
- 2:57 PM **Discussion**

- 2:30 PM **TCT 285: Stent Diameter and Clinical Outcomes After PCI: From the COMBO MASCOT and REMEDDEE Collaboration.**  
*Presenting Author: Doreen Zeebregts*
- 2:37 PM **Discussion**
- 2:40 PM **TCT 286: Efficacy and Safety of the Newer generation Zotarolimus eluting stent in Routine Clinical Practice: Data from the IRIS DES Registry**  
*Presenting Author: Ju Hyeon Kim*
- 2:47 PM **Discussion**
- 2:50 PM **TCT 287: Impact of Eligibility Criteria on Clinical Outcomes of Firehawk and XIENCE Coronary Drug Eluting Stent in an All Comers Randomized Trial**  
*Presenting Author: Yuichi Saito*
- 2:57 PM **Discussion**

## DRUG-ELUTING STENT STUDIES - 2

### Drug-Eluting Stent Studies - 2

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:00 PM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### Drug-Eluting Stent Studies - 2

*Moderators: Roberto Diletti, R. Stefan Kiesz Discussants: Stephen G. Ellis, David Erlinge, Duk-Woo Park*

- 2:00 PM **TCT 282: Predictors of Clinical Outcomes After Implantation of Novel Sirolimus Eluting Stent in Real World Patient Population**  
*Presenting Author: Sameer Dani*
- 2:07 PM **Discussion**
- 2:10 PM **TCT 283: Ten Year Clinical Outcomes from a Trial of Three Limus Eluting Stents With Different Polymer Coatings in Diabetic Patients with Coronary Artery Disease: Results from the ISAR TEST 4 Randomized Trial**  
*Presenting Author: Erion Xhepa*
- 2:17 PM **Discussion**
- 2:20 PM **TCT 284: Latest Update of the Worldwide Everyday Practice Registry Assessing the Xposition S Self apposing Stent in Challenging Lesions with Vessel Diameter Variance SIZING Registry**  
*Presenting Author: Steffen Schnupp*
- 2:27 PM **Discussion**

## MANAGEMENT OF ANTIPLATELET THERAPY AND ANTICOAGULATION IN PATIENTS UNDERGOING PCI - 1

### Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:00 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 1

*Moderators: Mark B. Effron Discussants: Sigmund Silber, Robert C. Welsh*

- 2:00 PM **TCT 394: Differential Effects of Prolonged Dual Antiplatelet Therapy After Percutaneous Coronary Intervention in Patients Presenting With Versus Without Acute Myocardial Infarction**  
*Presenting Author: Kim Jihoon*
- 2:07 PM **Discussion**
- 2:10 PM **TCT 395: Clinical Usefulness of PRECISE DAPT Score for Predicting Bleeding and Ischemia in Patients with Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention: An Analysis from the SMART DATE Randomized Trial**  
*Presenting Author: Young Bin Song*
- 2:17 PM **Discussion**
- 2:20 PM **TCT 396: A UK Time Trends Analysis of Dual Antiplatelet Therapy DAPT use and Bleeding in Patients with Acute Coronary Syndrome ACS Undergoing Percutaneous Coronary Intervention PCI**  
*Presenting Author: Kalaivani Mahadevan*
- 2:27 PM **Discussion**
- 2:30 PM **TCT 397: A Meta analysis Comparing Shorter It3months versus Longer duration 12 Months Dual Antiplatelet Therapy Following New generation Drug eluting Stents**

Presenting Author: Kirstin Hesterberg

- 2:37 PM Discussion  
2:40 PM TCT 398: Impact of Long term Ticagrelor Monotherapy Following One month Dual Antiplatelet Therapy in Patients Who Underwent Complex Percutaneous Coronary Intervention: Insights From the Global Leaders Trial  
Presenting Author: Patrick W. Serruys  
2:47 PM Discussion  
2:50 PM TCT 399: Long Term Cardiovascular Outcomes According to the Antiplatelet Agent Discontinued After Coronary Stenting: Insights From Four Xience V Post Approval Studies  
Presenting Author: Davide Cao  
2:57 PM Discussion

## NATURAL HISTORY AND MANAGEMENT OF MITRAL AND TRICUSPID VALVE DISEASE - 4

### Natural History and Management of Mitral and Tricuspid Valve Disease - 4

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:00 PM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### Natural History and Management of Mitral and Tricuspid Valve Disease - 4

Moderators: Sammy Elmariah Discussants: Victoria Delgado, Alexander Lauten, Ulrich Schäfer

- 2:00 PM TCT 448: Left Ventricular Meridional Systolic Wall Stress Predicts Heart Failure Readmissions in Patients Undergoing Transcatheter Mitral Valve Repair  
Presenting Author: Srilekha Sridhara  
2:07 PM Discussion  
2:10 PM TCT 449: Transcatheter Mitral Valve Replacement: New Strategies  
Presenting Author: Georg Lutter  
2:17 PM Discussion  
2:20 PM TCT 450: Impact of Atrial Fibrillation on Short Term Outcomes In Patients Undergoing Percutaneous Mitral Valve Repair.  
Presenting Author: Mohamed M. Gad  
2:27 PM Discussion  
2:30 PM TCT 451: Trends in Inpatient Complications and Readmissions with Transcatheter Surgical Mitral Valve Repair from 2012 to 2016  
Presenting Author: poonam bhyan  
2:37 PM Discussion  
2:40 PM TCT 452: Septal Correction to Prevent Iatrogenic Left Ventricular Outflow Tract Obstruction SCORPION prior to Transcatheter Mitral Valve Replacement

Presenting Author: John Lisko

- 2:47 PM Discussion  
2:50 PM TCT 453: Does Obesity Impact In hospital Outcomes After Transcatheter Mitral Valve Replacement Insights From the National Inpatient Sample  
Presenting Author: Kranthi Sitammagari  
2:57 PM Discussion

## PHYSIOLOGIC LESION ASSESSMENT - 2

### Physiologic Lesion Assessment - 2

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:00 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### Physiologic Lesion Assessment - 2

Moderators: Kalpa De Silva Discussants: Frederick Feit, Peter J. Fitzgerald, Guy J. Friedrich, Ian C. Gilchrist

- 2:00 PM TCT 581: Jailed pressure wire to assess the side branch result for bifurcation lesions treated by provisional stenting strategy: iFR as a new index.  
Presenting Author: Manuel D. Pan  
2:07 PM Discussion  
2:10 PM TCT 582: Multi center Clinical Evaluation of a MEMS sensor equipped Rapid exchange Pressure Microcatheter System for Fractional Flow Reserve Measurement SUPREME study  
Presenting Author: chenguang li  
2:17 PM Discussion  
2:20 PM TCT 583: Predictors of Functional Significance of Coronary Bifurcation Stenoses Importance of Lesion Characteristics and SYNTAX score Analysis from FIESTA Registry Database ClinicalTrials.gov Identifier: NCT01724957  
Presenting Author: Kiril Karamfiloff  
2:27 PM Discussion  
2:30 PM TCT 584: Assessment of Interference Between Pressure Wire and Coronary Stents Deployed in the Side Branch: Insights From a Bench Test  
Presenting Author: Takayuki Warisawa  
2:37 PM Discussion  
2:40 PM TCT 585: Prognostic Implications of Coronary Physiologic Indices in Deferred Coronary Artery Lesions with Diabetes Mellitus  
Presenting Author: Doyeon Hwang  
2:47 PM Discussion  
2:50 PM TCT 586: Association between Renal Function and Fractional Flow Reserve : Data From a Prospective IRIS FFR Registry Interventional Cardiology Research Incooperation Society Fractional Flow Reserve

## RENAL INSUFFICIENCY AND CONTRAST NEPHROPATHY - 2

### Renal Insufficiency and Contrast Nephropathy - 2

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:00 PM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### Renal Insufficiency and Contrast Nephropathy - 2

Moderators: William T. Abraham, Barry F. Uretsky Discussants: Nirat Beohar, Deepak L. Bhatt, YunDai Chen

- 2:00 PM **TCT 615: A Supervised Machine Learning Approach for Predicting Acute Kidney Injury following Percutaneous Coronary Intervention**  
*Presenting Author: Rayji Tsutsui*
- 2:07 PM Discussion
- 2:10 PM **TCT 616: Midkine as an early biomarker of contrast induced acute kidney injury in patients undergoing percutaneous coronary interventions for acute coronary syndrome**  
*Presenting Author: Mohamed Ahmed*
- 2:17 PM Discussion
- 2:20 PM **TCT 617: Clinical and Economic Outcomes of a Comprehensive Clinical Quality Initiative for Reducing Acute Kidney Injury in Chronic Kidney Disease Patients Undergoing Coronary Angiography**  
*Presenting Author: Robert Kutschman*
- 2:27 PM Discussion
- 2:30 PM **TCT 618: A Feasibility Study of the DyeVertPlus Contrast Reduction System to Reduce Contrast Media in Optical Coherence Tomography guided Percutaneous Coronary Interventions**  
*Presenting Author: Vlad Zimin, MD, PhD*
- 2:37 PM Discussion
- 2:40 PM **TCT 619: Clinical Impact of Renal Impairment in Diabetic Patients Underwent Percutaneous Coronary Intervention**  
*Presenting Author: Sangwoo Park*
- 2:47 PM Discussion
- 2:50 PM **TCT 620: The association between long term worsening renal function and mortality after transcatheter aortic valve replacement in patients with chronic kidney disease**  
*Presenting Author: Derek Phan*
- 2:57 PM Discussion

## TAVR AND CORONARY ARTERY DISEASE - 2

### TAVR and Coronary Artery Disease - 2

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

2:00 PM - 3:00 PM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### TAVR and Coronary Artery Disease - 2

Moderators: Mirvat Alasnag Discussants: Pavel Cervinka, Gert Richardt, Ashok Seth, Alan C. Yeung

- 2:00 PM **TCT 685: Coronary Stenosis Before TAVR Are Not Necessarily Associated With Poorer One Year Prognosis and May Be Medically Managed**  
*Presenting Author: Cécile Cazé*
- 2:07 PM Discussion
- 2:10 PM **TCT 686: The Impact of Coronary Artery Disease and Pre procedural PCI on the Short and Long term Mortality after TAVR**  
*Presenting Author: Thomas van den Boogert*
- 2:17 PM Discussion
- 2:20 PM **TCT 687: Outcomes in Patients Undergoing Transcatheter Aortic Valve Replacement With or Without Percutaneous Coronary Intervention: A Systematic Review and Meta Analysis**  
*Presenting Author: NASER YAMANI*
- 2:27 PM Discussion
- 2:30 PM **TCT 688: The Need for Future Coronary Access Following Aortic Valve Replacement: A Retrospective Database Analysis of Five Year Angiogram and Percutaneous Coronary Interventions PCI Rates in the Medicare Population**  
*Presenting Author: Kimberly Moore*
- 2:37 PM Discussion
- 2:40 PM **TCT 689: Does Orienting Sapien 3 during Crimping in TAVR Affect Final Orientation to Coronaries to Impact TAV in TAV and Coronary Reaccess A Pilot Study**  
*Presenting Author: Gilbert Tang DUPE*
- 2:47 PM Discussion
- 2:50 PM **TCT 690: Initial Deployment Orientation of ACURATE neo THV and Final Commissural Alignment: A Pilot Study on Optimizing Post Procedural Coronary Access**  
*Presenting Author: Andreas Fuchs*
- 2:57 PM Discussion

## DRUG-ELUTING BALLOONS AND LOCAL DRUG DELIVERY - 2

### Drug-Eluting Balloons and Local Drug Delivery - 2

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

3:00 PM - 4:00 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

### Drug-Eluting Balloons and Local Drug Delivery - 2

Moderators: Kenneth Chin, Bimmer E. Claessen Discussants: Armando Perez de Prado, Sudhir Rathore, Robert S. Schwartz

3:00 PM **TCT 265: Percutaneous coronary interventions with drug coated balloons or drug eluting stents for the treatment of small native vessel coronary artery disease: a meta analysis of randomized trials.**  
Presenting Author: Jorge Sanz Sanchez

3:07 PM Discussion

3:10 PM **TCT 266: Long Term Clinical Follow up of Small Coronary De Novo Lesions Treated with a Novel Second Generation Paclitaxel Coated Balloon Catheter**  
Presenting Author: Javier Benezet Mazuecos

3:17 PM Discussion

3:20 PM **TCT 267: A Multicenter Registry to Evaluate Drug Coated Balloon Angioplasty after Directional Coronary Atherectomy for Coronary Bifurcation Lesions**  
Presenting Author: Shunsuke Kitani

3:27 PM Discussion

3:30 PM **TCT 268: Mid Term Clinical Outcomes Post Sirolimus Coated Balloon Angioplasty in Patients with Coronary Artery Disease: Single Centre Experience**  
Presenting Author: Sandeep Basavarajaiah

3:37 PM Discussion

3:40 PM **TCT 269: The efficacy of Drug Coated Balloon angioplasty DCB for de novo small coronary artery disease**  
Presenting Author: Yoriyasu Suzuki

3:47 PM Discussion

3:50 PM **TCT 270: Incidence and outcomes of bailout stenting following use of Sirolimus drug coated balloon**  
Presenting Author: A D S P K Athukorala

3:57 PM Discussion

Presenting Author: Tatsuhiro Fujimura

3:07 PM Discussion

3:10 PM **TCT 347: Frequency of Incomplete Stent Apposition at Side branch Ostium After Kissing Balloon Inflation Predicted From Preoperative Appearance of Coronary Artery Bifurcation on Three dimensional Optical Coherence Tomograms**  
Presenting Author: Takashi Nishimura

3:17 PM Discussion

3:20 PM **TCT 348: Comparison of stent expansion between OCT guided rotational atherectomy and IVUS guided rotational atherectomy for calcified coronary lesion**  
Presenting Author: Norihiro Kobayashi

3:27 PM Discussion

3:30 PM **TCT 349: Delineation of Ambiguous Coronary Lesions in Patients Undergoing Coronary Angiography for Acute Coronary Syndrome: Results from an Optical Coherence Tomography Study**  
Presenting Author: Klio Konstantinou

3:37 PM Discussion

3:40 PM **TCT 350: Intravascular Ultrasound Optical Coherence Tomography and Fractional Flow Reserve Use in Acute Myocardial Infarction: An 11 Year National Perspective**  
Presenting Author: Saraschandra Vallabhajosyula

3:47 PM Discussion

3:50 PM **TCT 351: Diagnostic Performance of Post Stenting 3 Dimensional Quantitative Coronary Angiography to Predict Underexpansion as Measured by Optical Coherence Tomography**  
Presenting Author: Armando Vergara-Martel

3:57 PM Discussion

## MANAGEMENT OF ANTIPLATELET THERAPY AND ANTICOAGULATION IN PATIENTS UNDERGOING PCI - 2

## INTRAVASCULAR IMAGING - 2

### Intravascular Imaging - 2

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

3:00 PM - 4:00 PM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

### Intravascular Imaging - 2

Moderators: Jose de Ribamar Costa Jr, Kevin J. Croce Discussants: John McB. Hodgson

3:00 PM **TCT 346: Pseudo Stent Strut Protrusion Into Side Branch. An Intravascular Ultrasound Observation From the EXCEL Trial**

### Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 2

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

3:00 PM - 4:00 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

### Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 2

Moderators: Daniel Aradi, Pascal Vranckx Discussants: David L. Fischman, Efrain Gaxiola, Kurt Huber, Francesco Pelliccia

3:00 PM **TCT 400: Platelet Reactivity and Risk of Stent Thrombosis After Coronary Drug Eluting Stent Implantation in Patients Treated with Oral Anticoagulation: The ADAPT DES Study**  
Presenting Author: Gennaro Giustino

3:07 PM Discussion

- 3:10 PM **TCT 401: Long Term Efficacy of Extended Dual Antiplatelet Therapy After Left Main Coronary Artery Bifurcation Stenting**  
*Presenting Author: Sungsoo Cho*
- 3:17 PM **Discussion**
- 3:20 PM **TCT 402: Optimal Duration of Antiplatelet therapy after Drug eluting stent implantation based on PRECISE DAPT and DAPT Scores**  
*Presenting Author: Ji-Yong Jang*
- 3:27 PM **Discussion**
- 3:30 PM **TCT 403: Dual Antithrombotic Therapy is Safe and Effective in Patients with Atrial Fibrillation undergoing Percutaneous Coronary Intervention: Updated Systematic Review and Meta Analysis**  
*Presenting Author: Shahrukh Bakar*
- 3:37 PM **Discussion**
- 3:40 PM **TCT 404: Benefit and Risks of Aspirin on Top of Ticagrelor in Acute Coronary Syndromes: Insights From the Randomized GLOBAL LEADERS Trial**  
*Presenting Author: Mariusz Tomaniak*
- 3:47 PM **Discussion**
- 3:50 PM **TCT 405: The Fading Role of Triple Therapy in Patients with Atrial Fibrillation and Acute Coronary Syndrome: A Bayesian Network Meta analysis**  
*Presenting Author: Mohammed Osman*
- 3:57 PM **Discussion**

*Presenting Author: Nidhi Kanwar*

- 3:17 PM **Discussion**
- 3:20 PM **TCT 456: Preexisting Atrial fibrillation is Associated with Increased Risk of Midterm and Long Term Mortality in Transcatheter Mitral Valve Repair: Systemic review and Meta analysis**  
*Presenting Author: Narut Prasitlumkum*
- 3:27 PM **Discussion**
- 3:30 PM **TCT 457: Severe Mitral Stenosis in Patients with Severe Mitral Annular Calcification: An Area of Unmet Need**  
*Presenting Author: Rayji Tsutsui*
- 3:37 PM **Discussion**
- 3:40 PM **TCT 458: In Hospital Outcomes of Transcatheter Mitral Valve Repair in Rheumatic Mitral Valve Disease**  
*Presenting Author: Ayman Elbadawi*
- 3:47 PM **Discussion**
- 3:50 PM **TCT 459: Transcatheter Mitral Valve in Valve Replacement for Failed Bioprostheses: A Systematic Review**  
*Presenting Author: Kais Hyasat*
- 3:57 PM **Discussion**

## NATURAL HISTORY AND MANAGEMENT OF MITRAL AND TRICUSPID VALVE DISEASE - 5

### Natural History and Management of Mitral and Tricuspid Valve Disease - 5

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

3:00 PM - 4:00 PM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

### Natural History and Management of Mitral and Tricuspid Valve Disease - 5

*Moderators: Neil P. Fam Discussants: Stamatios Lerakis, Paul D. Mahoney, Konstantinos Spargias*

- 3:00 PM **TCT 454: Characteristics and Outcomes of Patients who Are Denied From a Percutaneous Edge to Edge Mitral Valve Repair After Being Referred to a Transcatheter Mitral Valve Program: Impact of a Dedicated Multidisciplinary Mitral Heart Team Approach**  
*Presenting Author: Frederic Beaupre*

3:07 PM **Discussion**

- 3:10 PM **TCT 455: Right Ventricular Remodeling Reduces Heart Failure Readmissions in Patients Undergoing Transcatheter Mitral Valve Repair**

## NON-ATHEROSCLEROTIC CAD (SCAD, MINOCA, ETC.) - 1

### Non-Atherosclerotic CAD (SCAD, MINOCA, etc.) - 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

3:00 PM - 4:00 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

### Non-atherosclerotic CAD (SCAD, MINOCA, etc.) - 1

*Moderators: Elmir Omerovic Discussants: William T. Abraham, Deepak L. Bhatt, Michael A. Kutcher, Marysia S. Tweet*

- 3:00 PM **TCT 466: Clopidogrel plus Aspirin Use is Associated with Poor Long Term Outcomes but Aspirin Use Alone is Safe in Patients with Vasospastic Angina: Results from VA Korea Registry A Prospective Multi Center Cohort**  
*Presenting Author: Sang-Ho Jo*

3:07 PM **Discussion**

- 3:10 PM **TCT 467: In Hospital and Long term Outcomes among Patients with Spontaneous Coronary Artery Dissection presenting with Ventricular Tachycardia/Fibrillation**  
*Presenting Author: Christopher Cheung*

3:17 PM **Discussion**

- 3:20 PM **TCT 468: Clinical Features Sex Differences and Outcomes of Myocardial Infarction With Non Obstructive Coronary Arteries MINOCA: A Multi Center International Registry Analysis**  
*Presenting Author: Richard Jung*

- 3:27 PM Discussion  
 3:30 PM **TCT 469: Percutaneous Coronary Intervention performance in Spontaneous Coronary Artery Dissection: insight from an Italian Multicenter Registry**  
*Presenting Author: Giorgio Quadri*
- 3:37 PM Discussion  
 3:40 PM **TCT 470: Acute management of patients with Spontaneous Coronary Artery Dissection. The DISCO Dissezioni Spontanee COronariche Italian Registry.**  
*Presenting Author: Giorgio Quadri*
- 3:47 PM Discussion  
 3:50 PM **TCT 471: Prognosis and Predictors of Mortality in Patients Suffering Myocardial Infarction with Non Obstructive Coronary Arteries**  
*Presenting Author: You-Hong Lee*
- 3:57 PM Discussion

- 3:40 PM **TCT 556: Analysis of clinical outcomes between endovascular repair and surgical repair for abdominal aortic aneurysm**  
*Presenting Author: Mohammad Mehdi Ansari*
- 3:47 PM Discussion

## PERIPHERAL VASCULAR INTERVENTION - 1

### Peripheral Vascular Intervention - 1

Vascular

THURSDAY, SEPTEMBER 26, 2019

3:00 PM - 3:50 PM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 3:50 PM

#### Peripheral Vascular Intervention - 1

*Moderators: Leif Thuesen*  
*Discussants: Carlos I. Mena-Hurtado, Nicolas W. Shammas, Mitchell Weinberg*

- 3:00 PM **TCT 551: Sex Differences and Impact on Peripheral Artery Disease Intervention Outcomes From a Nationwide Data: More Significant Than We Think**  
*Presenting Author: Abdalla Hassan*
- 3:07 PM Discussion  
 3:10 PM **TCT 552: Drug Coated Balloon versus Plain Old Balloon Angioplasty in Femoropopliteal Disease A Meta analysis of Randomized Controlled Trials**  
*Presenting Author: Mahesh Anantha Narayanan*
- 3:17 PM Discussion  
 3:20 PM **TCT 554: Laser Atherectomy and Drug Coated Balloons for the Treatment of Femoropopliteal In Stent Restenosis: 2 Year Outcomes.**  
*Presenting Author: Damianos G. Kokkinidis*
- 3:27 PM Discussion  
 3:30 PM **TCT 555: The Association of Health Related Quality of Life Scores with Cardiovascular and Limb Outcomes in Patients with Symptomatic Peripheral Artery Disease: Insights from the EUCLID Trial**  
*Presenting Author: Jennifer Rymer*
- 3:37 PM Discussion

## VENTRICULAR ASSIST AND MANAGEMENT OF CARDIOGENIC SHOCK - 1

### Ventricular Assist and Management of Cardiogenic Shock - 1

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

3:00 PM - 4:00 PM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

#### Ventricular Assist and Management of Cardiogenic Shock - 1

*Moderators: Kalpa De Silva, James Flaherty*  
*Discussants: Rajiv Jauhar*

- 3:00 PM **TCT 811: BALANCED BIVENTRICULAR ASSIST VERSUS EXTRACORPOREAL MEMBRANE OXYGENATION IN CARDIAC ARREST**  
*Presenting Author: Erik Packer*
- 3:07 PM Discussion  
 3:10 PM **TCT 812: Modified SCAI Classification for Cardiogenic Shock is Associated with Increasing In Hospital Mortality:A Report from the Cardiogenic Shock Working Group Registry**  
*Presenting Author: Navin K. Kapur*
- 3:17 PM Discussion  
 3:20 PM **TCT 813: Culprit vessel Versus Multi vessel Percutaneous Coronary Intervention in Cardiogenic Shock. Insights from The National Cardiogenic Shock Initiative**  
*Presenting Author: Alejandro Lemor*
- 3:27 PM Discussion  
 3:30 PM **TCT 814: Inflammation as a predictor of outcomes in patients with cardiogenic shock supported by a percutaneous mechanical support device**  
*Presenting Author: Nikolaos Diakos*
- 3:37 PM Discussion  
 3:40 PM **TCT 815: Does addition of percutaneous left ventricular decompression therapy with Impella affect clinical outcomes in Cardiogenic Shock patients on Venoarterial extracorporeal membrane oxygenation A Nationwide Analysis**  
*Presenting Author: Syed Zaid*
- 3:47 PM Discussion  
 3:50 PM **TCT 816: The Optimal Timing of Mechanical Circulatory Support in Acute Myocardial Infarction Patients with Refractory Cardiogenic Shock**  
*Presenting Author: Ki Hong Choi*
- 3:57 PM Discussion



## DRUG-ELUTING BALLOONS AND LOCAL DRUG DELIVERY - 3

### Drug-Eluting Balloons and Local Drug Delivery - 3

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 4:50 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 4:50 PM

#### Drug-Eluting Balloons and Local Drug Delivery - 3

Moderators: Eric J. Dippel, Jorge F. Saucedo Discussants: Anvar Babaev, Franz X. Kleber, Farrell O. Mendelsohn, Bruno Scheller

4:00 PM **TCT 271: Drug Coated Reflow Temporary Spur Systems: Inhibition of Neointimal Proliferation in Porcine Peripheral Arteries**  
Presenting Author: Nadia Brunacci

4:07 PM Discussion

4:10 PM **TCT 272: Incidence and Outcomes of Bailout Stenting Following Use of Drug Coated Balloon**  
Presenting Author: A D S P K Athukorala

4:17 PM Discussion

4:20 PM **TCT 273: Randomized Comparison of Two Different Drug Coated Balloons in In Stent Restenosis: The PROPAX Trial**  
Presenting Author: Jiasheng Yin

4:27 PM Discussion

4:30 PM **TCT 274: A prospective multicenter study to assess the long term safety and efficacy of Sirolimus coated Balloon in treatment of inStent restenosis in unselected real world patients**  
Presenting Author: Azeem Latib

4:37 PM Discussion

4:40 PM **TCT 275: Results of Percutaneous Coronary Intervention with Second Generation Drug Coated Balloons in Diabetic Patients at a Long Term Follow Up.**  
Presenting Author: IGNACIO SANCHEZ PEREZ

4:47 PM Discussion

## NON-ATHEROSCLEROTIC CAD (SCAD, MINOCA, ETC.) - 2

### Non-Atherosclerotic CAD (SCAD, MINOCA, etc.) - 2

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 4:50 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 4:50 PM

#### Non-atherosclerotic CAD (SCAD, MINOCA, etc.) - 2

Moderators: Christos Bourantas, Jae K. Oh Discussants: Yu Bo, Jaya Chandrasekhar, Michael H. Crawford, Anthony DeMaria

4:00 PM **TCT 472: Distribution of Coronary Flow Capacity is Different Among the Groups by Abnormal CFRHMR in Non Obstructive Coronary Artery Disease Patients.**  
Presenting Author: Jin-Sin Koh

4:07 PM Discussion

4:10 PM **TCT 473: Microvascular Resistance and Absolut Coronary Blood Flow Quantification in Takosubo Cardiomyopathy**  
Presenting Author: LIVIA LUCIANA GHEORGHE

4:17 PM Discussion

4:20 PM **TCT 474: Impact of clinical and hemodynamic factors on coronary flow reserve and invasive coronary flow capacity in non obstructed coronary arteries A patient level pooled analysis of the DEBATE and ILIAS studies**  
Presenting Author: Valérie E. Stegehuis

4:27 PM Discussion

4:30 PM **TCT 475: Diagnostic and Prognostic Role of Nitroglycerin Induced Dilation In Patients With Suspected Vasospastic Angina Comparison With Ergonovine Provocation Test**  
Presenting Author: Seung Hwan Han

4:37 PM Discussion

4:40 PM **TCT 476: Coronary Slow Flow Phenomenon: Evidence for Disseminated Microvascular Spasm**  
Presenting Author: Hetal Mehta

4:47 PM Discussion

## PCI VS. MEDICAL THERAPY AND INSIGHTS INTO TRIAL DESIGN

### PCI vs. Medical Therapy and Insights Into Trial Design

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 4:50 PM

The Moscone Center

4:00 PM - 4:50 PM

#### PCI vs. Medical Therapy and Insights Into Trial Design

Moderators: William E. Boden, Frederick Feit Discussants: Stefan Anker, Gennaro Giustino, Mark Goldberger, Robert L. Wilensky

4:00 PM **TCT 546: Temporal Trends in Characteristics and Outcomes of Patients With Stable Ischemic Heart Disease Treated With and Without Percutaneous Coronary Intervention**  
Presenting Author: Taku Inohara

4:07 PM Discussion

4:10 PM **TCT 547: Sham Controlled Trials of Invasive Cardiovascular Interventions: A Systematic Review and Meta Analysis**

Presenting Author: Lucas Lauder

- 4:17 PM Discussion
- 4:20 PM **TCT 548: Clinical and Angiographic Lesion Characteristics Associated With Lack of Angina Relief After PCI: Insights From the RIVER PCI Trial**  
Presenting Author: Akiko Fujino
- 4:27 PM Discussion
- 4:30 PM **TCT 549: The Me amp My Heart eMocial study A randomized evaluation of a new smartphone based support tool to increase therapy adherence of ACS patients**  
Presenting Author: Markus Florian Krackhardt
- 4:37 PM Discussion
- 4:40 PM **TCT 550: Novel application of a bias reduction methodology for the sample size estimation design of in randomized controlled trials**  
Presenting Author: Cheng Zhang
- 4:47 PM Discussion

Presenting Author: Daria Feshenko

- 4:37 PM Discussion
- 4:40 PM **TCT 603: Long term Outcomes of Percutaneous Intervention for Pulmonary Vein Stenosis Secondary to Atrial Fibrillation Ablation**  
Presenting Author: Madeline Mahowald
- 4:47 PM Discussion

## PULMONARY ARTERY AND PULMONARY VENOUS INTERVENTION

### Pulmonary Artery and Pulmonary Venous Intervention

Vascular

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 4:50 PM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 4:50 PM

#### Pulmonary Artery and Pulmonary Venous Intervention

Moderators: Harsimran Sachdeva Singh Discussants: Saif Anwaruddin, Paolo Denti, Frank F. Ing, Daniel S. Levi, Sanjum S. Sethi

- 4:00 PM **TCT 599: Exercise right heart catheterization before and after balloon pulmonary angioplasty in inoperable patients with chronic thromboembolic pulmonary hypertension**  
Presenting Author: Christoph Liebetrau
- 4:07 PM Discussion
- 4:10 PM **TCT 600: Trends on therapeutic approach for acute pulmonary embolism and change in outcomes: analysis of nationwide inpatient sample**  
Presenting Author: Rabih Tabet
- 4:17 PM Discussion
- 4:20 PM **TCT 601: Concomitant Renal Sympathetic Denervation with Pulmonary Vein Isolation vs Pulmonary Vein Isolation Alone Among Patients with Drug resistant Atrial Fibrillation and Hypertension: a Meta analysis**  
Presenting Author: Mark Terence Mujer
- 4:27 PM Discussion
- 4:30 PM **TCT 602: Comparison of Radiofrequency Ablation vs Cryodenervation in Patients with Pre capillary Pulmonary Hypertension**

## TAVR: PATIENT-PROSTHESIS MISMATCH

### TAVR: Patient-Prosthesis Mismatch

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 4:40 PM

The Moscone Center

4:00 PM - 4:40 PM

#### TAVR: Patient-Prosthesis Mismatch

Moderators: Stephen J.D. Brecker, Stanley J. Chetcuti Discussants: Harold L. Dauerman, Ioannis Iakovou, Hasan Jilaihawi, Tsuyoshi Kaneko

- 4:00 PM **TCT 751: Prevalence and severity of prosthesis patient mismatch after transcatheter aortic valve replacement defined by computed tomography vs transthoracic echocardiography**  
Presenting Author: Miho Fukui
- 4:07 PM Discussion
- 4:10 PM **TCT 752: Incidence and Outcomes of Patient Prosthesis Mismatch Following Self Expanding Transcatheter Aortic Valve Replacement: An Analysis from the STSACC TVT Registry**  
Presenting Author: Gilbert H.L. Tang
- 4:17 PM Discussion
- 4:20 PM **TCT 753: Prosthesis patient Mismatch Following Transcatheter Aortic Valve Replacement With Supra annular and Intra annular Prosthesis**  
Presenting Author: Taishi Okuno
- 4:27 PM Discussion
- 4:30 PM **TCT 754: Transcatheter aortic valve replacement in very large annuli with the 34mm self expanding CoreValve Evolut R: prospective multicentre registry**  
Presenting Author: Victor Alfonso Jimenez Dias
- 4:37 PM Discussion

## TAVR: VALVE-IN-VALVE - 1

### TAVR: Valve-in-Valve - 1

Structural: Valve

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 4:50 PM

The Moscone Center

4:00 PM - 4:50 PM

**TAVR: Valve-in-Valve - 1**

Discussant: Francesco Bedagni, Peter C. Block, Joseph P. Carrozza Jr

4:00 PM **TCT 755: Prevalence of impaired coronary accessibility after valve in valvetranscatheter aortic valve replacement**  
Presenting Author: Mark Tuttle

4:07 PM **Discussion**

4:10 PM **TCT 756: Incidence of Patient Prosthesis Mismatch following Native and Valve in Valve Transcatheter Aortic Valve Replacement Based on indexed Aortic Valve Area Compared to Energy Loss Index**  
Presenting Author: Ramy Mando

4:17 PM **Discussion**

4:20 PM **TCT 757: Feasibility of Repeat Transcatheter Aortic Valve Replacement TAVR after Sapien 3 TAVR TAV in TAV: A Pilot Angiographic Study**  
Presenting Author: Syed Zaid

4:27 PM **Discussion**

4:30 PM **TCT 758: Assessment of Bioprosthetic Valve Leaflet Displacement During Valve in valve TAVI an Ex vivo Bench Study**  
Presenting Author: Mark Hensey

4:37 PM **Discussion**

4:40 PM **TCT 759: Invasive versus Echocardiographic Evaluation of Suboptimal Valve Hemodynamics and Procedural Futility Following Valve in Valve Transcatheter Aortic Valve Replacement**  
Presenting Author: Amr E. Abbas

4:47 PM **Discussion**

4:07 PM **Discussion**

4:10 PM **TCT 818: Clinical Outcomes of Awake Extracorporeal Membrane Oxygenation as Bridge to Heart Transplantation**  
Presenting Author: Taeho Youn

4:17 PM **Discussion**

4:20 PM **TCT 819: Safety and Efficacy of Mechanical Circulatory Support with Impella or Intra Aortic Balloon Pump for High Risk Percutaneous Coronary Intervention and/or Cardiogenic Shock: Insights from a Network Meta Analysis**  
Presenting Author: Toshiki Kuno

4:27 PM **Discussion**

4:30 PM **TCT 820: Systematical Review and Meta Analysis on the Use of Inotropes and Vasopressors in Cardiogenic Shock: Time to Close the Gap Between Current Clinical Practice and Evidence**  
Presenting Author: Mina Karami

4:37 PM **Discussion**

4:40 PM **TCT 821: Incidence and Implications of Vascular Complications Among Patients With Cardiogenic Shock: Insight From A Large US National Database**  
Presenting Author: Mohit Pahuja

4:47 PM **Discussion**

## VENTRICULAR ASSIST AND MANAGEMENT OF CARDIOGENIC SHOCK - 2

### Ventricular Assist and Management of Cardiogenic Shock - 2

Coronary: CHIP

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 4:50 PM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 4:50 PM

### Ventricular Assist and Management of Cardiogenic Shock - 2

Moderators: Dharam J. Kumbhani, Michael J. Lim Discussants: Amirali Masoumi, Maurizio Menichelli, Amit N. Patel

4:00 PM **TCT 817: Changes in right atrial pressure are associated with outcomes in patients with cardiogenic shock receiving acute mechanical circulatory support devices: Insights from the Cardiogenic Shock Working Group**  
Presenting Author: Carlos Davila

## VULNERABLE PLAQUES AND HIGH RISK PATIENTS - 1

### Vulnerable Plaques and High Risk Patients - 1

Coronary: Core

THURSDAY, SEPTEMBER 26, 2019

4:00 PM - 5:00 PM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 5:00 PM

### Vulnerable Plaques and High Risk Patients - 1

Moderators: David Erlinge, Massoud A. Leesar Discussants: Pedro A. Lemos, Jun Li, Pedro R. Moreno, Asif Qasim

4:00 PM **TCT 827: Relationship between hemoglobin A1C and coronary plaque vulnerability in patients undergoing percutaneous coronary intervention: an optical coherence tomography study**  
Presenting Author: Keisuke Yasumura

4:07 PM **Discussion**

4:10 PM **TCT 828: Quantitative Validation of the Coronary Angioscopic Yellow Plaque by Lipid Core Burden Index Assessed by Intra coronary Near infrared Spectroscopy**  
Presenting Author: Takashi Omatsu

4:17 PM **Discussion**

4:20 PM **TCT 829: Intensity of Lipid Lowering Therapy Among Patients with Prior or New Revascularization: Insights from the GOULD Registry**

Presenting Author: Benjamin Peterson

- 4:27 PM **Discussion**  
4:30 PM **TCT 830: Efficacy of PCSK 9 Inhibitors on Coronary Lipid Rich Plaque Assessed by Serial Near Infrared Spectroscopy**  
*Presenting Author: Hiroyuki Omori*
- 4:37 PM **Discussion**  
4:40 PM **TCT 831: Identification of High Risk Plaques by Coronary Angiography: Confirmation of Computational Fluid Dynamics by Optical Coherence Tomography**  
*Presenting Author: Keisuke Yasumura*
- 4:47 PM **Discussion**  
4:50 PM **TCT 832: Detection Ability of Optical Coherence Tomography for Cholesterol Crystal: Histopathological Validation Study**  
*Presenting Author: Yosuke Katayama*
- 4:57 PM **Discussion**

- 9:30 AM **Perspective: The Case Against Ongoing Use of Drug Eluting Technologies for PAD**  
*Lecturer: Konstantinos Katsanos*
- 9:37 AM **Perspective: The Case for Ongoing Use of Drug Eluting Technologies for PAD**  
*Lecturer: William A. Gray*
- 9:44 AM **Moderated Panel Discussion**  
*Lecturer: William A. Gray*

10:00 AM - 10:15 AM  
**Innovation Award and Presentation**  
*Award Presenter: Juan F. Granada*

- 10:00 AM **Innovation Winner**  
10:10 AM **Award Presentation**  
*Moderator: Juan F. Granada*

10:15 AM - 10:30 AM  
**TCT 2019 Geoffrey O. Hartzler Master Operator Award**  
*Moderators: Martin B. Leon, Gregg W. Stone*  
*Award Recipients: Shigeru Saito*

- 10:15 AM **Geoffrey O. Hartzler Master Operator Award Presentation**  
*Lecturer: Martin B. Leon*

10:30 AM - 11:30 AM  
**Late-Breaking Trials 2, Co-Sponsored by Journal of the American Medical Association**  
*Moderators: Martin B. Leon*  
*Discussants: Jeroen J. Bax, Philipp Blanke, Jonathon A. Leipsic, Michael J. Mack, Thomas Modine, Philippe Pibarot, Craig R. Smith, Dee Dee Wang, Olaf Wendler*  
*Co-Moderators: Robert O. Bonow*

- 10:30 AM **SCOPE I: A Randomized Trial of the ACURATE Neo vs. the SAPIEN 3 Bioprosthesis in Patients With Severe Aortic Stenosis**  
*Lecturer: Jonas Lanz*
- 10:42 AM **Roundtable Discussion With Audience QA**  
10:50 AM **PORTICO: A Randomized Trial of Portico vs. Commercially Available Transcatheter Aortic Valves in Patients With Severe Aortic Stenosis**  
*Lecturer: Gregory P. Fontana*
- 11:02 AM **Roundtable Discussion With Audience QA**  
11:10 AM **PARTNER 3 Low Risk Computed Tomography Substudy: Subclinical Leaflet Thrombosis in Transcatheter and Surgical Bioprosthetic Valves**  
*Lecturer: Raj Makkar*
- 11:22 AM **Roundtable Discussion With Audience QA**

11:30 AM - 12:15 PM  
**Live Cases #4**  
*Live Case Moderators: Sahil A. Parikh*  
*Live Case Co-Moderators: Ehrin J. Armstrong*  
*Live Case Discussants: Herbert D. Aronow, Dmitriy N. Feldman, Lawrence A. Garcia, Prakash Krishnan, Tak W. Kwan, Carlos I. Mena-Hurtado, Jihad A. Mustapha, Virendra I. Patel, Peter A. Schneider, Christopher J. White, Thomas Zeller*

- 11:30 AM **OhioHealthRiverside Methodist Hospital Columbus OH Endo**  
*Live Case Operator: Gary M. Ansel, Charles F. Botti, Jr., Christopher Huff, Michael Jolly, John Phillips, Mitchell J. Silver*

## FRIDAY, SEPTEMBER 27, 2019

### MAIN ARENA II, FRIDAY, SEPT. 27

#### Main Arena II, Friday, Sept. 27

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 1:15 PM

Main Arena

8:00 AM - 9:30 AM

#### Live Cases #3

*Live Case Moderators: Gregg W. Stone*  
*Live Case Co-Moderators: Junbo Ge*  
*Live Case Discussants: J. Dawn Abbott, Ziad A. Ali, Keith B. Allen, Alaide Chieffo, Justin E. Davies, William F. Fearon, Runlin Gao, Philippe Genereux, Ganesh Manoharan, Gary S. Mintz, Alan C. Yeung*

- 8:00 AM **Fu Wai Hospital Beijing China Cor**  
*Live Case Operator: Kefei Dou, Jie Qian, Guangyuan Song, Jiande Wang, Yongjian Wu, dong yin*
- 8:45 AM **NYPHColumbia University Medical Center New York NY SHD**  
*Live Case Operator: Vinayak N. Bapat, Isaac George, Rebecca T. Hahn, Nadira Hamid, Dimitri Karpaliotis, Omar K. Khalique, Susheel K. Kodali, Torsten P. Vahl*

9:30 AM - 10:00 AM

#### Main Arena Special Session on Drug-Eluting Technologies for PV Interaction

*Moderators: Michael R. Jaff, Sahil A. Parikh*  
*Discussants: William A. Gray, Osamu Iida, David E. Kandzari, Mitchell W. Krucoff, Krishna J. Rocha-Singh, Eric A. Secemsky, Frank J. Veith, Christopher J. White, Bram D. Zuckerman*

- 9:30 AM **Session I. Peripheral Drug Eluting Technologies at a Crossroad**

12:15 PM - 1:15 PM

**Late-Breaking Science 2, Co-Sponsored by European Heart Journal**

Moderators: Thomas F. Luscher Discussants: Blase A. Carabello, Alaide Chieffo, Danny Dvir, Khalil Fattouch, James S. Gammie, Saibal Kar, Ulf Landmesser, Francesco Maisano, Chet Rihal, Jason H. Rogers Co-Moderators: Jeroen J. Bax

- 12:15 PM **Mitral Valve in Valve: 1 Year Outcomes of Transcatheter Mitral Valve Replacement for Degenerated Mitral Bioprotheses**  
Lecturer: Mayra Guerrero
- 12:25 PM **Roundtable Discussion With Audience QA**
- 12:30 PM **STSACC TVT Registry: MitraClip Operator Volume Outcome Relationship in the United States**  
Lecturer: Adnan K. Chhatriwalla
- 12:40 PM **Roundtable Discussion With Audience QA**
- 12:45 PM **STS Registry: Mitral Valve Surgery Institutional Volume Outcome Relationship in the United States**  
Lecturer: Vinay Badhwar
- 12:55 PM **Roundtable Discussion With Audience QA**
- 1:00 PM **A Propensity Score Matched Analysis of Transcatheter Tricuspid Valve Treatment vs. Medical Treatment in Patients With Severe Tricuspid Regurgitation**  
Lecturer: Maurizio Taramasso
- 1:10 PM **Roundtable Discussion With Audience QA**

## LIVE CASE TRANSMISSION THEATER III, FRIDAY, SEPT. 27

### Live Case Transmission Theater III, Friday, Sept. 27

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 12:00 PM  
Live Case Theater

8:00 AM - 9:30 AM

**Session I. Live Cases: Endovascular**

Live Case Moderators: Tony Das Live Case Co-Moderators: Peter A. Schneider Live Case Discussants: Ali F. Aboufares, Mark C. Bates, Tyrone J. Collins, Philip Green, Vishal Kapur, R. Stefan Kiesz, Zvonimir Krajcer, Michael Kang-Yin Lee, Luigi Salemm, Peter A. Soukas, Jose M. Wiley, Yoshito Yamamoto

- 8:00 AM **Ballad Health System CVA Heart Institute Kingsport TN**  
Live Case Operator: Mark Aziz, D. Christopher Metzger
- 8:45 AM **OhioHealthRiverside Methodist Hospital Columbus OH**  
Live Case Operator: Gary M. Ansel, Charles F. Botti, Jr., Christopher Huff, Michael Jolly, John Phillips, Mitchell J. Silver

9:30 AM - 11:15 AM

**Session II. Live Cases: SHD**

Live Case Moderators: Nicolas M. Van Mieghem Live Case Co-Moderators: Horst Sievert Live Case Discussants: Federico M. Asch, Vasilis Babaliaras, Itshac Itsik Ben-dor, Steven F. Bolling, Stephen J.D. Brecker, Blase A. Carabello, John D. Carroll, Mao Chen, George S. Hanzel, Michael Haude, Georg Nickenig

- 9:30 AM **Fu Wai Hospital Beijing China**  
Live Case Operator: Kefei Dou, Jie Qian, Guangyuan Song, Jiande Wang, Yongjian Wu, dong yin
- 10:30 AM **NYPHColumbia University Medical Center**  
Live Case Operator: Vinayak N. Bapat, Isaac George, Rebecca T. Hahn, Nadira Hamid, Omar K. Khalique, Susheel K. Kodali, Torsten P. Vahl

11:15 AM - 12:00 PM

**Session III. Live Case: Endovascular**

Live Case Moderators: Craig M. Walker Live Case Co-Moderators: Stephen R. Ramee Live Case Discussants: Marianne Brodmann, Daniel G. Clair, Eric J. Dippel, Bryan T. Fisher, Philip Green, Steve Henao, Richard R. Heuser, Amit Kakkar, Robert D. Safian, Sanjum S. Sethi, Ramon L. Varcoe

- 11:15 AM **Ballad Health System CVA Heart Institute Kingsport TN**  
Live Case Operator: Mark Aziz, D. Christopher Metzger

## LIVE CASE TRANSMISSION THEATER IV, FRIDAY, SEPT. 27

### Live Case Transmission Theater IV, Friday, Sept. 27

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 6:00 PM  
Live Case Theater

2:00 PM - 4:15 PM

**Session I. Live Cases: SHD**

Live Case Moderators: Mark Reisman Live Case Co-Moderators: Nir Uriel Live Case Discussants: Jeroen J. Bax, Anthony DeMaria, Paolo Denti, Olaf Franzen, Hemal Gada, Kentaro Hayashida, Ulrich P. Jorde, Petr Neuzil, Brian K. Whisenant, Mathew Williams

- 2:00 PM **NYPHColumbia University Medical Center New York NY**  
Live Case Operator: Vinayak N. Bapat, Isaac George, Rebecca T. Hahn, Nadira Hamid, Omar K. Khalique, Susheel K. Kodali, Torsten P. Vahl
- 2:45 PM **McGill University Health Center Montreal Canada**  
Live Case Operator: Nicolo Piazza
- 3:30 PM **Cleveland Clinic Cleveland OH**  
Live Case Operator: Serge C. Harb, Samir R. Kapadia, Rhonda Miyasaka

4:15 PM - 6:00 PM

**Session II. Live Cases: LM/Bifurcation and Coronary**

Live Case Moderators: Giora Weisz Live Case Co-Moderators: Jean FAJADET Live Case Discussants: Alaide Chieffo, Lampson Fan, Franz X. Kleber, Massoud A. Leeser, Jacek Legutko, Marie-Claude Morice, Yoshinobu Murasato, Holger M. Nef, Tullio Palmerini, Duk-Woo Park, John D. Puskas, Manel Sabate

- 4:15 PM **McGill University Health Center Montreal Canada**  
Live Case Operator: Stéphane Rinfret
- 5:00 PM **Cleveland Clinic Cleveland OH**  
Live Case Operator: Serge C. Harb, Samir R. Kapadia, Amar Krishnaswamy, Rhonda Miyasaka

# METALLIC DES PART 2: HIGH-RISK PATIENTS AND REVASCULARIZATION FAILURES

## Metallic DES Part 2: High-risk Patients and Revascularization Failures

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019  
8:00 AM - 10:00 AM  
Room 152/154

8:00 AM - 8:38 AM

### Session I: DES in Specific Lesion and Patient Subsets

Moderators: Emmanouil S. Brilakis, Jean FAJADET Discussants: Colin Berry, Seung-Jung Park, Duane S. Pinto, Gert Richardt, Corrado Tamburino, Robert W. Yeh

8:00 AM **Revascularization in Stable CAD: What Do the New ESC Guidelines 2019 Recommend**  
Lecturer: William C. Wijns

8:07 AM **Preview From the Upcoming Ischemia Trial**  
Lecturer: David J. Maron

8:14 AM **PCI Versus CABG in Multivessel Disease With and Without Diabetes: Latest Clinical Trial Data**  
Lecturer: Patrick W. Serruys

8:22 AM **Elective High Risk PCI and Hemodynamic Support: Evidence Based and Experience Based Recommendations**  
Lecturer: Divaka Perera

8:30 AM **Roundtable Discussion With Audience QA**

8:38 AM - 10:00 AM

### Session II: Diagnosis and Management of Coronary Revascularization Failures

Moderators: Robert A. Byrne, Stephan Windecker Discussants: Adrian P. Banning, Creighton W. Don, Javier Escaned, Farouc A. Jaffer, Duk-Woo Park, Giulio Stefanini

8:38 AM **Root Causes of Thrombosis and Restenosis With Contemporary Metallic DES: Pathologic Insights**  
Lecturer: Michael Joner

8:45 AM **Root Causes of Thrombosis and Restenosis With Contemporary Metallic DES: Intravascular Imaging Insights**  
Lecturer: Giulio Guagliumi

8:52 AM **Very Late Stent Failure: Frequency and Predictive Factors**  
Lecturer: Mahesh V. Madhavan

8:59 AM **How to Treat Stent Thrombosis: A Case Based Vignettes of Different Approaches**  
Case Presenter: Anthony H. Gershlick

9:07 AM **Flash Debate: Drug Coated Balloons are the Best Treatment for ISR and Avoids Further Stent Layers**  
Lecturer: Paul JL Ong

9:12 AM **Flash Debate: Repeat DES Is Most Effective Treatment for ISR and Should Be the Preferred Option**  
Lecturer: Jose P.S. Henriques

9:17 AM **Alternative Approaches for In Stent Restenosis: Laser Brachytherapy Lithotripsy.**

Lecturer: George D. Dangas

9:25 AM **To Prevent Stent Failure: Optimal Device Deployment Technique Is the Key**

Lecturer: Joanna J. Wykrzykowska

9:33 AM **Roundtable Discussion with Audience QA**

9:41 AM **Acute Post Op Graft Failure: Incidence and Management**

Lecturer: Mohamad Adnan Alkhoul

9:48 AM **Late Coronary Bypass Graft Failure: Rational Approaches**

Lecturer: Emmanouil S. Brilakis

9:55 AM **Roundtable Discussion with Audience QA**

# PFO CLOSURE: EVIDENCE, INDICATIONS, AND DEVICES

## PFO Closure: Evidence, Indications, and Devices

Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 10:00 AM  
Room 156/158

8:00 AM - 9:00 AM

### Session I: The Debates and "Rules of the Road" for PFO Closure in Secondary Stroke Prevention

Moderators: David E. Thaler Discussants: Eric Horlick, Matthew J. Price, Peter B. Sick, Christian Spies, Jonathan M. Tobis, Apostolos Tzikas

8:00 AM **PFO Closure for Stroke: The Debate Is Over**  
Lecturer: Stephen J.D. Brecker

8:08 AM **PFO Closure for Primary Prevention: The Debate Has Started A Case Example and a Clinical Trial Proposal**  
Case Presenter: Fabian Nietlispach

8:16 AM **The Heart Brain Team: PFO Closure Should Require the Approval of a Neurologist**  
Lecturer: Andrew Michael Goldsweig

8:24 AM **What Do the Neurologists Say: The 2019 American Academy of Neurology Practice Advisory PFO and Secondary Stroke Prevention**  
Lecturer: Peter B. Sick

8:34 AM **Who Should Perform PFO Closure and Where The SCAI Expert Consensus Statement**  
Lecturer: Clifford J. Kavinsky

8:44 AM **What is a High Risk PFO and Should it Affect the Decision to Close**  
Lecturer: Jonathan M. Tobis

8:52 AM **Roundtable Discussion With Audience QA**

9:00 AM - 10:00 AM

### Session II: Clinical Issues in PFO Closure

Moderators: Thomas K. Jones, Jeffrey L. Saver Discussants: Elliott Michael Groves, Kishore J. Harjai, Frank F. Ing, John F. Rhodes, Kolja Sievert, Zachary Steinberg



- 9:00 AM **To Close or Not to Close the PFO: Incorporation of Patient Preferences and Shared Decision Making**  
*Lecturer: Suzanne J. Baron*
- 9:08 AM **Is PFO Closure Only Beneficial in Large Shunts**  
*Lecturer: Srihari S. Naidu*
- 9:16 AM **The Minimalist Approach to PFO Closure: The Toronto Experience With Fluoroscopic Guidance Alone**  
*Lecturer: Eric Horlick*
- 9:24 AM **The Minimalist Approach to PFO Closure: The Chinese Experience With Fluoroscopic Guidance Alone**  
*Lecturer: Xiangbin Pan*
- 9:32 AM **Complications of PFO Closure: Just the Facts Maam**  
*Lecturer: Jacqueline Saw*
- 9:40 AM **The Antiplatelet Drug Test to Determine Responsivity and the Next Generation PFO Closure Migraine Trial**
- 9:48 AM **Roundtable Discussion With Audience QA**

*Lecturer: Yoshinobu Onuma*

- 11:00 AM **Approach to Patients With Acute Coronary Syndromes Including SCAD and Thrombotic Lesions Using Intravascular Imaging: Does Everyone Need a Stent**  
*Lecturer: Tej Sheth*
- 11:10 AM **Roundtable Discussion With Audience QA**

11:27 AM - 12:00 PM

**Session II: Case Presentations From Former CRF Intravascular Imaging Fellows — Part 2**

*Moderators: John McB. Hodgson, Gary S. Mintz*  
*Discussants: Fernando Alfonso, Jingbo Hou, Ulf Landmesser, Erick Schampaert, Junya Shite, Evan Shlofmitz*

- 11:27 AM **True Lumen Seeking After Angiography Induced RCA Occlusion in a Patient With Spontaneous Coronary Intramural Hematoma**  
*Case Presenter: Feng Zhang*
- 11:34 AM **Roundtable Discussion With Audience QA**
- 11:38 AM **PCI or Not in a Young Woman With Acute Myocardial Infarction**  
*Case Presenter: Zhijing Zhao*
- 11:45 AM **Roundtable Discussion With Audience QA**
- 11:49 AM **Multiple Coronary Lumens: Differential Diagnosis**  
*Case Presenter: Xuebo Liu*
- 11:56 AM **Roundtable Discussion With Audience QA**

## INTRAVASCULAR IMAGING STENT GUIDANCE: PART 2 — THE DETAILS

### Intravascular Imaging Stent Guidance: Part 2 — The Details

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

10:00 AM - 12:00 PM

Room 152/154

10:00 AM - 11:27 AM

**Session I: Patient-Specific and Lesion-Specific Approaches to IVUS and OCT-Guided Stent Implantation**

*Moderators: Ziad A. Ali, Giulio Guagliumi*  
*Discussants: Hector M. Garcia-Garcia, Bill D. Gogas, Jacek Legutko, Evelyn Regar, Nick E. J. West*

- 10:00 AM **Intravascular Imaging Guided IVUS/OCT Treatment of Calcified Lesions: Step by Step**  
*Lecturer: Jonathan M. Hill*
- 10:10 AM **Intravascular Imaging Guided IVUS/OCT Treatment of Left Main Lesions Including LM Bifurcations: Step by Step**  
*Lecturer: Daniel Chamie*
- 10:20 AM **Intravascular Imaging Guided Treatment of CTOs: Application in AWE ADR and Retrograde Approaches**  
*Lecturer: Lei Ge*
- 10:30 AM **Treating Patients With Renal Insufficiency: Zero Contrast PCI**  
*Lecturer: Ziad A. Ali*
- 10:40 AM **Assessment and Treatment of ISR and Stent Thrombosis Lesions Using Intravascular Imaging Including Neoatherosclerosis**  
*Lecturer: Christos Bourantas*
- 10:50 AM **Very Late IVUS/OCT Follow Up After Stent Implantation: From Malapposition to Stent Healing**

## TAVR TECHNOLOGY AND ASSOCIATED DEVICES

### TAVR Technology and Associated Devices

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

10:00 AM - 12:28 PM

Room 155/157

10:00 AM - 11:00 AM

**Session I: Technology Forum, Part 1— New TAVR Systems**

*Moderators: Michael J. Reardon, John G. Webb*  
*Discussants: Dean J. Kereiakes, Ganesh Manoharan, Thomas Pilgrim, Didier Tchetché, Vinod H. Thourani, Stephen G. G. Worthley*

- 10:00 AM **The TAVR NEXT Comers: Snapshots**
- 10:00 AM **Program Update: The LOTUS EDGE TAVR System**  
*Lecturer: Christopher U. Meduri*
- 10:08 AM **Program Update: The ACURATE NEO TAVR System**  
*Lecturer: Colin M. Barker*
- 10:16 AM **Program Update: The PORTICO TAVR System**  
*Lecturer: Gregory P. Fontana*

- 10:24 AM **Roundtable Discussion with Audience QA**  
*Lecturer: Gregory P. Fontana*
- 10:30 AM **The TAVR NEW Comers: Snapshots**
- 10:30 AM **The Self Expanding Single Operator CENTERA TAVR System**  
*Lecturer: Markus Albert Kasel*
- 10:36 AM **The Anatomically Correct Transfemoral JenaValve TAVR System**  
*Lecturer: Hendrik Treede*
- 10:42 AM **The Venus A and A Plus TAVR System**  
*Lecturer: Horst Sievert*
- 10:48 AM **The Repositionable and Retrievable HLT Meridian TAVR System**  
*Lecturer: Mathew Williams*
- 10:54 AM **Roundtable Discussion with Audience QA**  
*Lecturer: Mathew Williams*

- 11:58 AM **Roundtable Discussion with Audience QA**  
*Lecturer: Tamim M. Nazif*
- 12:00 PM **A Novel Pre Shaped LV Pacing Guidewire for TAVR**  
*Lecturer: John G. Webb*
- 12:08 PM **The Pi Cardia Leaflex Aortic Valve Remodeling System**  
*Lecturer: Philippe Genereux*
- 12:16 PM **Roundtable Discussion with Audience QA**  
*Lecturer: Philippe Genereux*
- 12:18 PM **The Bay Labs AIDL Point of Care Echo Acquisition and Interpretation System**  
*Lecturer: Randolph P. Martin*
- 12:26 PM **Roundtable Discussion with Audience QA**  
*Lecturer: Randolph P. Martin*

11:00 AM - 12:28 PM

**Session II: Technology Forum, Part 2 — Access and Closure Alternatives, Innovation Gone Wild**

*Moderators: Adam B. Greenbaum, Azeem Latib*  
*Discussants: Yaron Almagor, Saif Anwaruddin, Kendra J. Grubb, Jean-Claude Laborde, Helge Möllmann, Tamim M. Nazif*

- 11:00 AM **When Transfemoral Is NOT an Option for TAVR I Prefer...**
- 11:00 AM **Transcaval TAVR: A Brief Tutorial**  
*Lecturer: Toby Rogers*
- 11:08 AM **Percutaneous Transaxillary TAVR: A Brief Tutorial**  
*Lecturer: Amir Kaki*
- 11:16 AM **Open Transcatheter TAVR: A Brief Tutorial**  
*Lecturer: Keith B. Allen*
- 11:24 AM **Roundtable Discussion with Audience QA**  
*Lecturer: Keith B. Allen*
- 11:28 AM **Novel Large Hole Access Closure Devices**
- 11:28 AM **Large Hole Transfemoral Closure I: The PerQseal Device**  
*Lecturer: Jeffrey J. Popma*
- 11:33 AM **Large Hole Transfemoral Closure II: The InSeal Device**  
*Lecturer: Ran Kornowski*
- 11:38 AM **Large Hole Transfemoral Closure III: The MANTA Device**  
*Lecturer: David A. Wood*
- 11:46 AM **Roundtable Discussion with Audience QA**  
*Lecturer: David A. Wood*
- 11:50 AM **Innovation Gone Wild**
- 11:50 AM **Next Generation TRIGUARD Cerebral Embolic Protection During TAVR: Technology Review and Status of Ongoing Clinical Trials**  
*Lecturer: Tamim M. Nazif*

## LEFT ATRIAL APPENDAGE CLOSURE, PART 2: UNANSWERED QUESTIONS, FUTURE DIRECTIONS

### Left Atrial Appendage Closure, Part 2: Unanswered Questions, Future Directions

Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:45 PM  
Room 156/158

2:00 PM - 2:45 PM

#### Session I: Issues After LAA Closure

*Moderators: Martin W. Bergmann, Saibal Kar*  
*Discussants: Steven L. Almany, Andrew Michael Goldsweig, Reda Ibrahim, Petr Kala, Ramon Quesada, Teguh Santoso*

- 2:00 PM **Device Related Thrombus: Mechanisms Management and Implications for Device Design**  
*Lecturer: Josep Rodés-Cabau*
- 2:08 PM **Critical Appraisal of Post LAA Closure Pharmacology and DRT**  
*Lecturer: Martin W. Bergmann*
- 2:16 PM **Optimal Timing for Surveillance Imaging After LAAC**  
*Lecturer: Vivek Y. Reddy*
- 2:24 PM **Residual Leak and Ischemic Stroke After LAA Closure: Whether to Close and if So How**  
*Lecturer: George S. Hanzel, Jacqueline Saw*
- 2:32 PM **Roundtable Discussion With Audience QA**

2:45 PM - 3:45 PM

#### Session II: LAA Closure — Device Selection

*Moderators: Jacqueline Saw*  
*Discussants: Philippe Garot, Elliott Michael Groves, Hüseyin Ince, Issam D. Moussa, Apostolos Tzikas, Dee Dee Wang*

- 2:45 PM **Keynote Lecture: The Spectrum of LAA Closure Technology Current and Emerging Devices**  
*Lecturer: Horst Sievert*

- 3:00 PM **Case Based Device Selection: Matching the Device With the Anatomy**  
*Lecturer: Reda Ibrahim*
- 3:10 PM **Roundtable Discussion With Audience QA**
- 3:20 PM **Utility of CT for Pre Procedural Planning and Device Selection**  
*Lecturer: Michael Rinaldi*
- 3:27 PM **ICE Guidance as the Primary Strategy for LAA Closure: Technique and Data**  
*Lecturer: Mohamad Adnan Alkhouli*
- 3:34 PM **Roundtable Discussion With Audience QA**

*Case Presenter: Giulio Stefanini*

- 3:07 PM **Perioperative Antiplatelet Management: What Do the Guidelines Say**  
*Lecturer: Subhash Banerjee*
- 3:15 PM **Atherothrombotic Events After Noncardiac Surgery: Whats Driving the Risk and When Do They Occur**  
*Lecturer: Roberta Rossini*
- 3:23 PM **Noncardiac Surgery in ACS and After PCI: Role of Bridging and Timing to Restart Antiplatelet Therapy**  
*Lecturer: Dominick J. Angiolillo*
- 3:31 PM **Is Troponin Elevation After Noncardiac Surgery an Indication to Antithrombotic Treatment**  
*Lecturer: Francesco Franchi*
- 3:39 PM **Case Resolution: How I Treated a Patient Requiring Urgent Noncardiac Surgery After Recent Stent Implantation**  
*Case Presenter: Giulio Stefanini*
- 3:44 PM **Roundtable Discussion With Audience QA**

## PCI PHARMACOTHERAPY: PART 2

### PCI Pharmacotherapy: Part 2

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 4:00 PM  
Room 152/154

2:00 PM - 3:04 PM

#### Antithrombotic Therapy in Patients With Atrial Fibrillation Undergoing PCI

*Moderators: Dominick J. Angiolillo, Renato D. Lopes*  
*Discussants: Dmitriy N. Feldman, Christopher B. Granger, Roxana Mehran, Matthew J. Price, Marco Valgimigli, Robert C. Welsh*

2:00 PM **Debate: Dual Therapy OACSAPT Should Be the Default Therapy at Discharge in Most Patients**

2:00 PM **Pro: Dual Therapy OACSAPT Should Be the Default Therapy at Discharge in Most Patients**

*Lecturer: Renato D. Lopes*

2:08 PM **Con: Beware of Ischemic Complications Not Ready to Drop DAPT Yet**

*Lecturer: Robert A. Byrne*

2:16 PM **PCI in Patients Requiring OAC: Which OAC and in Whom**

*Lecturer: Christopher B. Granger*

2:24 PM **AFib Patients at High Ischemic Risk Post PCI: Role of Triple Therapy or Potent P2Y12 Inhibition**

*Lecturer: Renato D. Lopes*

2:32 PM **When and How to Switch to OAC Alone After PCI**

2:40 PM **Reversal Strategies for Warfarin and NOACs: The Essentials**  
*Lecturer: Teresa L. Carman*

2:48 PM **Roundtable Discussion With Audience QA**

3:04 PM - 4:00 PM

#### Noncardiac Surgery Post-PCI: A Practical Approach

*Moderators: Roberta Rossini, Freek Verheugt*  
*Discussants: Faisal Bakaeen, Otavio Berwanger, Mark B. Efron, Mary Hawn, Rafael Honikman, Matthew Levin*

3:04 PM **Case Introduction: A Patient Requiring Urgent Noncardiac Surgery After Recent Stent Implantation**

## TAVR SPECIAL SITUATIONS (VIV, BICUSPID, AR, LOW-FLOW, OTHER)

### TAVR Special Situations (VIV, Bicuspid, AR, Low-Flow, Other)

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 4:00 PM  
Room 155/157

2:00 PM - 2:40 PM

#### Session I: TAVR "Real-World Complex Case Scenarios" — Clinical Corner

*Moderators: Keith B. Allen, Raj Makkar*  
*Discussants: Philipp Blanke, Bruce Bowers, Mao Chen, Charles J. Davidson, Hasan Jilaihawi, Fayaz Shawl*

2:00 PM **TAVR and Concomitant Atrial Fibrillation: Case Presentation**  
*Case Presenter: Fabian Nietlispach*

2:07 PM **Roundtable Discussion With Audience QA**

2:10 PM **Extreme Aortic Valve Complex Calcification Creating High Risk for TAVR Complications Rupture or PVR: Case Presentation and Procedural Decision Making**  
*Case Presenter: Thomas Walther*

2:17 PM **Roundtable Discussion With Audience QA**

2:20 PM **TAVR for Bioprosthetic Aortic Valve Failure 1: To Crack or Not to Crack Case Presentation and Update on the Role of Fracturing Bioprosthetic Valves During VIV Procedures**  
*Lecturer: Adnan K. Chhatrwalla*

2:27 PM **Roundtable Discussion With Audience QA**

2:30 PM **TAVR for Bioprosthetic Aortic Valve Failure 2: To Split or Not to Split Case Presentation and Update on the Role of BASILICA to Reduce the Risk of Coronary Obstruction During VIV Procedures**

Lecturer: Adam B. Greenbaum

2:37 PM Roundtable Discussion With Audience QA

2:40 PM - 4:00 PM

**Session II: The Best of the Rest — TAVR Controversies and Debates**

Moderators: Martin B. Leon, Craig R. Smith Discussants: Vasilis Babaliaros, David J. Cohen, Linda D. Gillam, Howard C. Herrmann, Fabian Nietlispach

2:40 PM PointCounterpoint: Provocative Views 1 Minimalist TAVR Gone Viral

2:40 PM Minimalist TAVR for Everyone: Safe Efficient and Cost Effective  
Lecturer: David A. Wood

2:45 PM Minimalism Yes. Rapid Ambulation and Discharge Yes But GA and TEE to Optimize Outcomes in Selected Cases  
Lecturer: Philippe Genereux

2:50 PM Roundtable Discussion With Audience QA  
Lecturer: Philippe Genereux

3:00 PM PointCounterpoint: Provocative Views 2 TAVR Case Volume Requirements Should Be Increased

3:00 PM Volume Threshold Increases Are Needed to Improve Clinical Outcomes  
Lecturer: John D. Carroll

3:05 PM Volume Thresholds Distort Clinical Practice and Are Poorly Correlated With Outcomes Direct Quality Metrics Should Be the Priority  
Lecturer: Mark J. Russo

3:10 PM Roundtable Discussion With Audience QA  
Lecturer: Mark J. Russo

3:20 PM Choosing the Right TAVR System for Your Patients: A Multi Device Anatomy Specific Approach  
Lecturer: Howard C. Herrmann

3:30 PM Roundtable Discussion With Audience QA

3:35 PM Perspectives on Real World Economics in the Modern Era of TAVR  
Lecturer: Suzanne V. Arnold

3:45 PM Roundtable Discussion With Audience QA

3:49 PM Should We Anticoagulate All Bioprosthetic Aortic Valves Rationale Ongoing Studies and Recent Trends  
Lecturer: Tarun Chakravarty

3:57 PM Roundtable Discussion With Audience QA

2:00 PM - 3:02 PM

**Session I: LM Bifurcation PCI — When?**

Moderators: Marie-Claude Morice, David G. Rizik Discussants: Anthony H. Gershlick, Kendra J. Grubb, Annapoorna Kini, Joseph F. Sabik, Alfredo Trento, Stephen W. Waldo

2:00 PM Excel: Extended Follow Up and Most Important Substudies  
Lecturer: Patrick W. Serruys

2:08 PM Noble: Extended Follow Up and Substudies  
Lecturer: Evald H. Christiansen

2:14 PM Roundtable Discussion With Audience QA

2:20 PM Heart Team Case Discussions for 2 Patients With Left Main Bifurcation Disease  
Case Presenter: Matthew Cavender

2:44 PM Flash Debate: DAPT Duration for LM PCI

2:44 PM LM PCI: The Default Is Prolonged DAPT 1 year  
Lecturer: Robert W. Yeh

2:50 PM LM PCI: One Year of DAPT Is Enough and Sometimes Even Less Is More  
Lecturer: Davide Capodanno

2:56 PM Roundtable Discussion With Audience QA

3:02 PM - 4:00 PM

**Session II: LM Bifurcation PCI — How?**

Moderators: Jean FAJADET, John A. Ormiston Discussants: Francesco Burzotta, Pawel E. Buszman, Carlo Di Mario, Seung-Jung Park, Nadia R. Sutton, David Taggart

3:02 PM The Left Main Is a Different Bifurcation: Specific Technique Considerations  
Lecturer: Hyeon-Cheol Gwon

3:09 PM How to Approach LM Trifurcation Disease  
Lecturer: Jean FAJADET

3:16 PM When and How to Debulk a Left Main Lesion  
Lecturer: Shigeru Nakamura

3:23 PM When and How to Use Hemodynamic Support for Left Main Lesions  
Lecturer: Jeffrey W. Moses

3:30 PM Intravascular Imaging in the Left Main: IVUS or OCT and Is It Always Necessary  
Lecturer: Giulio Guagliumi

3:37 PM Platform Related Issues Overexpansion Compression etc.  
Lecturer: John A. Ormiston

3:44 PM Roundtable Discussion With Audience QA

## THE LEFT MAIN AND BIFURCATION SUMMIT: PART 2

### The Left Main and Bifurcation Summit: Part 2

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 4:00 PM

Room 151/153

## PHYSIOLOGIC LESION ASSESSMENT AND INTERVENTIONAL PLANNING, PART 2: NEW DEVELOPMENTS IN CORONARY PHYSIOLOGY

### Physiologic Lesion Assessment and Interventional Planning, Part 2: New Developments in Coronary Physiology

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 6:02 PM

Room 152/154

4:00 PM - 5:02 PM

**Session I: Flash Clinical Trial Update and Practical Approach to Coronary Physiology**

Moderators: Justin E. Davies, Nils Johnson Discussants: Bina Ahmed, Nick Curzen, Matthias Götzberg, Allen Jeremias, Gary S. Mintz, Andrew Sharp

4:00 PM **2 Year Outcome Data From DEFINE FLAIR and Swedeheart: A Critical Appraisal**

Lecturer: Matthias Götzberg

4:07 PM **Long Term Outcomes With Physiology Guidance: Increased Risk for MI Among Patients Treated Medically**

Lecturer: Nils Johnson

4:14 PM **Pitfalls of Coronary Physiology Measurements**

Lecturer: Bina Ahmed

4:21 PM **Roundtable Discussion With Audience QA**4:27 PM **The Case for Functional Not Anatomic Complete Revascularization: Preview of FAME 3**

Lecturer: William F. Fearon

4:34 PM **Post PCI Physiology: Insights From DEFINE PCI and Other Studies**

Lecturer: Allen Jeremias

4:41 PM **Resting Indices vs. Hyperemic Evaluation of Physiology in ACS: What Did We Learn From DEFINE FLAIR and Swedeheart**

Lecturer: Christopher Cook

4:48 PM **Physiology and Coronary Imaging: When to Use Either Both or Neither**

Lecturer: Andreas Baumbach

4:55 PM **Roundtable Discussion With Audience QA**

5:02 PM - 6:02 PM

**Session II: Wireless Assessment of Coronary Physiology**

Moderators: Bon-Kwon Koo, Manesh R. Patel Discussants: William F. Fearon, Niels R. Holm, James K. Min, Bjarne Linde Norgaard, Tim P. Van de Hoef, Bo Xu

5:02 PM **Back to Basics: Deriving FFR From CTA and Invasive Angiography**

Lecturer: Koen Nieman

5:10 PM **FFR CT State of the Art Clinical Study Evidence and Ongoing Planned Trials**

Lecturer: Manesh R. Patel

5:18 PM **Roundtable Discussion With Audience QA**5:23 PM **Angiography Derived FFR: State of the Art Study Summary**

Lecturer: Yuhei Kobayashi

5:31 PM **Debating Wireless Physiology: Invasive Assessment of Coronary Physiology Is Obsolete**

Lecturer: Nick Curzen

5:39 PM **Debating Wireless Physiology: Invasive Assessment of Coronary Physiology Is Here to Stay**

Lecturer: Ziad A. Ali

5:47 PM **Roundtable Discussion With Audience QA**5:52 PM **The Future of Coronary Physiology: Virtual Reality and Other Developments****PULMONARY HYPERTENSION AND ACUTE AND CHRONIC PULMONARY EMBOLI THERAPIES: PART 2****Pulmonary Hypertension and Acute and Chronic Pulmonary Emboli Therapies: Part 2**

Vascular

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 6:00 PM

Room 156/158

4:00 PM - 5:02 PM

**Session I: Pulmonary Hypertension Overview and CTEPH**

Moderators: Ori Ben-Yehuda, Ehtisham Mahmud Discussants: Matthew D. Bacchetta, Riyaz Bashir, Michael M. Madani, Hiromi Matsubara, Victor Pretorius, Alex M. K. Rothman

4:00 PM **Classification of Pulmonary Hypertension and Overview of CTEPH**  
Lecturer: Ori Ben-Yehuda4:08 PM **Pulmonary Thromboendarterectomy: Experience With Over 4000 Cases at UCSF**

Lecturer: Michael M. Madani

4:18 PM **Balloon Pulmonary Angioplasty for CTEPH I: Current Technique and Outcomes**

Lecturer: Ehtisham Mahmud

4:26 PM **Balloon Pulmonary Angioplasty for CTEPH II: Patient Selection and Complications**

Lecturer: Vikas Aggarwal

4:34 PM **Balloon Pulmonary Angioplasty for CTEPH III: Registry Data From Europe**

Lecturer: Irene Marthe Lang

4:42 PM **Roundtable Discussion With Audience QA**4:50 PM **Case 1: Balloon Pulmonary Angioplasty**

Case Presenter: Ehtisham Mahmud

4:56 PM **Case 2: Balloon Pulmonary Angioplasty**

Case Presenter: Irene Marthe Lang

5:02 PM - 6:00 PM

**Session II: Pulmonary Artery Denervation and Other PHTN Approaches**

Moderators: Shao-Liang Chen, Irene Marthe Lang Discussants: Ori Ben-Yehuda, Daniel Burkhoff, Biswajit Kar, Alex M. K. Rothman, Sanjum S. Sethi, Thomas M. Tu

5:02 PM **Introduction to Pulmonary Artery Denervation: Rationale**  
Lecturer: Ori Ben-Yehuda5:10 PM **Pulmonary Artery Denervation I: Radiofrequency Ablation**  
Lecturer: Shao-Liang Chen5:20 PM **Pulmonary Artery Denervation II: Ultrasound Based Therapy**  
Lecturer: Alex M. K. Rothman

- 5:30 PM **Aria: A Passive Device to Improve Pulmonary Compliance**  
*Lecturer: Irene Marthe Lang*
- 5:38 PM **Inter Atrial Shunts for Pulmonary Hypertension Group I and Group II**  
*Lecturer: Daniel Burkhoff*
- 5:46 PM **Roundtable Discussion With Audience QA**

- 5:17 PM **Management Strategies in Cardiac Arrest Without ROSC: Heroic or Conservative**  
*Lecturer: Christian M. Spaulding*
- 5:24 PM **Roundtable Discussion With Audience QA**
- 5:30 PM **Out on a Limb: Vascular Access Management With ECMO and Impella**  
*Lecturer: Farouc A. Jaffer*
- 5:37 PM **Defining Futility in Cardiogenic Shock: When to Say Enough**  
*Lecturer: David A. Morrow*
- 5:44 PM **Case Presentation: Intraoperative Arrest During Primary PCI**  
*Case Presenter: Srihari S. Naidu*
- 5:51 PM **Roundtable Discussion With Audience QA**

## STEMI, CARDIAC ARREST, AND CARDIOGENIC SHOCK: PART 2

### STEMI, Cardiac Arrest, and Cardiogenic Shock: Part 2

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 6:00 PM

Room 151/153

4:00 PM - 5:00 PM

#### Session III: Cardiogenic Shock — Are We Making Progress?

*Moderators: Arthur Garan, Thomas F. Luscher*  
*Discussants: Carla Agatiello, David A. Baran, Mir Babar Basir, Francisco Fernandez-Aviles, Vijay Kunadian, Alexander George Truesdell*

- 4:00 PM **Acute Cardiogenic Shock: The Number One Unresolved Challenge in Cardiovascular Disease**  
*Lecturer: William W. O'Neill*
- 4:08 PM **Classification Schemes for Cardiogenic Shock**  
*Lecturer: Amir Lotfi*
- 4:15 PM **Mechanical Support in Acute Cardiogenic Shock: State of the Evidence and Future Directions**  
*Lecturer: E. Magnus Ohman*
- 4:23 PM **While Awaiting More Clinical Trial Data: Real World Approaches to Cardiogenic Shock and Hemodynamic Support**  
*Lecturer: Alexander George Truesdell*
- 4:31 PM **The Case for Left and Right Sided Impella in Acute Cardiogenic Shock**  
*Lecturer: Nima Aghili*
- 4:39 PM **The Case for ECMO in Acute Cardiogenic Shock**  
*Lecturer: Daniela Trabattoni*
- 4:46 PM **Roundtable Discussion With Audience QA**

5:00 PM - 6:00 PM

#### Session IV: Cardiac Arrest

*Moderators: David A. Morrow*  
*Discussants: Larry Alexander Allen, Sonya Burgess, Haval Chweich, Christian M. Spaulding, Sean Van Diepen, Niels van Royen*

- 5:00 PM **The Relationship Between Cardiogenic Shock and Cardiac Arrest**  
*Lecturer: Timothy D. Henry*
- 5:07 PM **Management Strategies in Cardiac Arrest With ROSC With or Without Coma: Hypothermia Cath Decisions and More**  
*Lecturer: Niels van Royen*

## TRANSCATHETER MITRAL VALVE REPAIR – BEYOND THE MITRACLIP

### Transcatheter Mitral Valve Repair – Beyond the MitraClip

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 6:10 PM

Room 155/157

4:00 PM - 4:27 PM

#### Session I: From Surgery to Transseptal Techniques

*Moderators: Scott Lim, Francesco Maisano*  
*Discussants: David H. Adams, Patrick M. McCarthy, Thomas Modine, Nishtha Sodhi, Molly Szerlip, Didier Tchetché*

- 4:00 PM **Surgical Mitral Valve Repair State of the Art: How Can TMVR Compete With DMR And FMR Is There Still a Role for Surgery**  
*Lecturer: Anelechi Anyanwu*
- 4:10 PM **Transseptal Puncture for TMVR: Approaches for Simple and Complex Cases**  
*Lecturer: Steven J. Yakubov*
- 4:16 PM **New Transseptal Technology**  
*Lecturer: Anita Asgar*
- 4:22 PM **Roundtable Discussion With Audience QA**

4:27 PM - 5:12 PM

#### Session II: Emerging TMVR Devices — Part 1: Leaflet Technologies and Chordal Replacement

*Moderators: Scott Lim, Francesco Maisano*  
*Discussants: David H. Adams, Patrick M. McCarthy, Thomas Modine, Nishtha Sodhi, Molly Szerlip, Didier Tchetché*

- 4:27 PM **Leaflet Technologies and Chordal Replacement: Surgical Lessons Learned**  
*Lecturer: Marc Gillinov*
- 4:33 PM **Leaflet Technologies I: Pascal Device Description Results and Ongoing Studies**  
*Lecturer: Scott Lim*



- 4:40 PM **Leaflet Technologies II: MitraStitch and Valve Clamp Device Description Results and Ongoing Studies**  
*Lecturer: Mao Chen*
- 4:45 PM **Roundtable Discussion With Audience QA**
- 4:51 PM **Chordal Replacement Transapical: Neochord and Harpoon Device Description Results and Ongoing Studies**  
*Lecturer: James S. Gammie*
- 4:59 PM **Chordal Replacement Transseptal: Pipeline Chordart and CardioMech Device Description Results and Ongoing Studies**  
*Lecturer: Gorav Ailawadi*
- 5:06 PM **Roundtable Discussion With Audience QA**

5:12 PM - 6:10 PM

**Session III: Emerging TMVR Devices — Part 2: Annuloplasty and Others**

*Moderators: Mark Reisman, Joachim Schofer*  
*Discussants: Steven F. Bolling, Creighton W. Don, Karl-Heinz Kuck, Georg Nickenig, Josep Rodés-Cabau, Jason H. Rogers*

- 5:12 PM **Annuloplasty: Surgical Lessons Learned**  
*Lecturer: Patrick M. McCarthy*
- 5:17 PM **Direct Annuloplasty: Cardioband and Millipede Device Description Results and Ongoing Studies**  
*Lecturer: Brian K. Whisenant*
- 5:24 PM **Basal Ventriculoplasty: Ancora Device Description Results and Ongoing Studies**  
*Lecturer: Kendra J. Grubb*
- 5:31 PM **Indirect Annuloplasty: Carillon Device Description Results and Ongoing Studies**  
*Lecturer: Horst Sievert*
- 5:38 PM **Indirect Annuloplasty: ARTO Device Description Results and Ongoing Studies**
- 5:45 PM **Indirect Annuloplasty: Cerclage Device Description Results and Ongoing Studies**  
*Lecturer: Robert J. Lederman*
- 5:51 PM **Posterior Leaflet Repair and Replacement: Polares and Sutra Device Description Results and Ongoing Studies**  
*Lecturer: Jason H. Rogers*
- 5:57 PM **Roundtable Discussion With Audience QA**

- 8:00 AM **Levoatrial To Coronary Sinus Shunting As A Novel Strategy For Symptomatic Heart Failure: First In Human Experience**  
*Lecturer: Trevor Simard*
- 8:07 AM **Rapid Fire QA**
- 8:10 AM **Endovascular Renal Sympathetic Denervation To Improve Heart Failure With Reduced Ejection Fraction: The IMPROVE HF I Study**  
*Lecturer: Joost Daemen*
- 8:17 AM **Rapid Fire QA**
- 8:20 AM **External Support of the Cardiac Base Addresses Functional Mitral Regurgitation: Results of the BACE CE Mark Trial**  
*Lecturer: Jai Raman*
- 8:27 AM **Rapid Fire QA**
- 8:30 AM **Alcohol Mediated Renal Denervation: One Year and Final Results from the Peregrine Post Market Study**  
*Lecturer: Felix Mahfoud*
- 8:37 AM **Moderated Discussion**

8:47 AM - 9:34 AM

**Session II. Emerging Drug Coated Balloon Technologies**

*Moderators: Bruno Scheller, Pieter R. Stella*  
*Discussants: Robert M. Bersin, Bernardo Cortese, Jose de Ribamar Costa Jr, Sudhir Rathore, Bo Xu*

- 8:47 AM **Absence Of Risk Of Death After Coronary Paclitaxel Coated Balloons: Systematic Review And Meta Analysis Of Randomized Trials**  
*Lecturer: Bruno Scheller*
- 8:54 AM **Rapid Fire QA**
- 8:57 AM **Clinical Outcome At 6 Months Between Paclitaxel Coated Balloon Versus Sirolimus Coated Balloon In De Novo Coronary Lesions**  
*Lecturer: Sandeep Basavarajiah*
- 9:04 AM **Rapid Fire QA**
- 9:07 AM **EASTBOURNE Registry: 1 Year Follow Up Of A Broad Population Treated With A Sirolimus Coated Balloon For Coronary Artery Disease**  
*Lecturer: Bernardo Cortese*
- 9:14 AM **Rapid Fire QA**
- 9:17 AM **SELUTION SLR: A Sustained Limus Release Drug Eluting Balloon: First Human Data From A Multicenter Coronary Trial**  
*Lecturer: SHIRISH HIREMATH*
- 9:24 AM **Moderated Discussion**

9:34 AM - 10:30 AM

**Session XVI: DES and Other Emerging Coronary Technologies**

*Moderators: Grzegorz L. Kaluza, John A. Ormiston*  
*Discussants: Kenneth Chin, Donald Cutlip, Suzanne de Waha-Thiele, J. Aaron Grantham*

- 9:34 AM **One Year Clinical Outcomes of Worlds Thinnest 50 microns Biodegradable Polymer Coated Everolimus Eluting Coronary Stent in Patients with Coronary Artery Disease**

## TCT INNOVATION V. KEYNOTE INNOVATION INTERVENTIONAL STUDIES

### TCT Innovation V. Keynote Innovation Interventional Studies

Innovation

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 12:00 PM

Innovation & Keynote Theater

8:00 AM - 8:47 AM

**Session XV: Interventional Heart Failure and Hypertension Therapies**

Lecturer: K. Sivaprasad

- 9:41 AM **One Year Clinical Results Of Real Life Registry Of Angiolite Cobalt Chromium Sirolimus Eluting Stent Rango Registry**  
Lecturer: Armando Perez de Prado
- 9:48 AM **DynamX Bioadaptor An Innovative Device That Adapts To Patients Physiology For PCI Treatment Of Coronary Artery Disease 12 Month Clinical And Imaging Results**  
Lecturer: Stefan Verheye
- 9:55 AM **Moderated Discussion**
- 10:00 AM **SOS PK Papyrus an Observational Study of Patients with Covered PK Papyrus Stent**  
Lecturer: Loic Belle
- 10:07 AM **Controlled Flow Infusion: Novel method for Diagnosis and Therapy of Microvascular Obstruction in Real Time**  
Lecturer: Robert S. Schwartz
- 10:14 AM **Efficacy and Safety of The Novacross Microcatheter For Chronic Total Occlusions: An Expanded Safety Study**  
Lecturer: Simon J. Walsh
- 10:21 AM **Moderated Discussion**

10:30 AM - 11:07 AM

#### Session XVIII: Peripheral Vascular Innovation

Moderators: Jihad A. Mustapha  
Discussants: Lawrence A. Garcia, Farrell O. Mendelsohn, Krishna J. Rocha-Singh, Dierk Scheinert, Peter A. Schneider

- 10:30 AM **Twelve Month Clinical Outcomes Of Sirolimus Eluting Bioresorbable Peripheral Scaffold System In Arteries Below The Knee**  
Lecturer: Vimal Someshwar
- 10:37 AM **Rapid Fire QA**
- 10:40 AM **Clinical Randomized Trial Evaluating Novel Microcrystalline And Biocompatible Polymer Paclitaxel Coated Balloon For The Treatment Of Femoro Popliteal Occlusive Disease: 3 Year Clinical And Ambulatory Outcome**  
Lecturer: Piotr P. Buszman
- 10:47 AM **Rapid Fire QA**
- 10:50 AM **Sustained Limus Release Designed Drug Eluting Balloons: Is This The Solution For The Potential Increased Mortality With Paclitaxel Devices When Treating The SFA**  
Lecturer: Thomas Zeller
- 10:57 AM **Moderated Discussion**

11:07 AM - 12:00 PM

#### Session XIX: Transcatheter Aortic Valve Innovation

Moderators: Wayne B. Batchelor  
Discussants: Haim Danenberg, Hasan Jilaihawi, Manuel D. Pan, Armando Perez de Prado

- 11:07 AM **Cardiac Output and Cerebral Blood Flow Improvement in Patients with Severe Aortic Valve Stenosis Undergoing Transcatheter Aortic Valve Implantation**  
Lecturer: Wieneke Vlastra
- 11:14 AM **A Prospective Single Center Study For Investigation Of A Novel Temporary Pacing Guidewire For Transfemoral Transcatheter Aortic Valve Replacement**  
Lecturer: Mark Hensey
- 11:21 AM **Moderated Discussion**

- 11:26 AM **Prospective Single Arm Clinical Investigation For The Treatment Of Subjects With Severe Symptomatic Aortic Valve Stenosis Using Valvsoft Pulsed Cavitational Ultrasound Therapy PCUT First In Man**  
Lecturer: Emmanuel Messas
- 11:33 AM **Early Experience With A New Generation Retrograde Transcatheter Aortic Valve System: A Multicenter Registry**  
Lecturer: Mark Hensey
- 11:40 AM **30 Day Outcomes From An Early Feasibility Study To Assess The Safety And Effectiveness Of A Novel Transfemoral TAVR System For The Treatment Of Patients With Symptomatic Severe Aortic Regurgitation**  
Lecturer: Vinod H. Thourani
- 11:47 AM **Moderated Discussion**

## HIGH-IMPACT CLINICAL RESEARCH I: PERIPHERAL ARTERIAL DISEASE AND DRUG-COATED BALLOONS

### High-Impact Clinical Research I: Peripheral Arterial Disease and Drug-Coated Balloons

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:00 PM

Innovation & Keynote Theater

2:00 PM - 3:00 PM

#### Peripheral Arterial Disease and Drug-Coated Balloons

Moderators: Kenneth Ouriel, Bruno Scheller  
Discussants: Fernando Alfonso, S. Elissa Altin, Ehrin J. Armstrong, Robert M. Bersin, Peter A. Schneider, Pieter R. Stella

- 2:00 PM **Long Term Safety of Drug Coated Devices for Femoropopliteal Artery Revascularization: Updated Analysis of Medicare Beneficiary Data**  
Lecturer: Eric A. Secemsky
- 2:10 PM **Roundtable Discussion With Audience QA**
- 2:15 PM **LUTONIX BTK Diabetes: Outcomes From a Randomized Trial of a Drug Coated Balloon vs. Standard Angioplasty in Diabetic Patients With Below the Knee Disease**  
Lecturer: Joseph Giorgianni
- 2:25 PM **Roundtable Discussion With Audience QA**
- 2:30 PM **TOBA III: 1 Year Outcomes From a Single Arm Study of Focal Dissection Repair After Drug Coated Balloon Angioplasty of Superficial Femoral And Proximal Popliteal Arteries**  
Lecturer: Marianne Brodmann
- 2:40 PM **Roundtable Discussion With Audience QA**
- 2:45 PM **PICCOLETO II: 6 Month Clinical and Angiographic Findings From a Randomized Trial of Drug Coated Balloons vs. Drug Eluting Stents for Treatment of Small Vessel Coronary Artery Disease**  
Lecturer: Bernardo Cortese
- 2:55 PM **Roundtable Discussion With Audience QA**

## HIGH-IMPACT CLINICAL RESEARCH II: MANAGEMENT OF CARIOGENIC SHOCK

### High-Impact Clinical Research II: Management of Cardiogenic Shock

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

Innovation & Keynote Theater

3:00 PM - 4:00 PM

#### Management of Cardiogenic Shock

Moderators: Jeffrey W. Moses, Manesh R. Patel Discussants: Cindy L. Grines, Biswajit Kar, Arasi Maran, James M. McCabe, Holger Thiele

3:00 PM **Shock Prognosis: Validation of the SCAI Cardiogenic Shock Classification**

Lecturer: Dirk Westermann

3:10 PM **Roundtable Discussion With Audience QA**

3:15 PM **Impact of Right Ventricular Dysfunction in Acute Myocardial Infarction Complicated by Cardiogenic Shock**

Lecturer: Mir Babar Basir

3:25 PM **Roundtable Discussion With Audience QA**

3:30 PM **Multivessel Intervention in Shock: Validation of the CULPRIT SHOCK Trial Outcomes in a National Myocardial Infarction Registry**

Lecturer: Wojtek Wojakowski

3:40 PM **Roundtable Discussion With Audience QA**

3:45 PM **Trends in the Use of Mechanical Circulatory Support in the United States: The 2012 2015 National Inpatient Sample**

Lecturer: Ankur Kalra

3:55 PM **Roundtable Discussion With Audience QA**

## HIGH-IMPACT CLINICAL RESEARCH III: PHARMACOTHERAPY STRATEGIES AND CALCIFIED LESIONS

### High-Impact Clinical Research III: Pharmacotherapy Strategies and Calcified Lesions

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 5:00 PM

Innovation & Keynote Theater

4:00 PM - 5:00 PM

#### Pharmacotherapy Strategies and Calcified Lesions

4:00 PM **GLOBAL LEADERS: Ticagrelor Monotherapy vs. DAPT After PCI in TWILIGHT Like Patients**

Lecturer: Yoshinobu Onuma

4:10 PM **Roundtable Discussion With Audience QA**

4:15 PM **SECURE PCI: 1 Year Outcomes From a Randomized Trial of a Loading Dose of Atorvastatin in Patients With ACS and Planned PCI**

Lecturer: Otavio Berwanger

4:25 PM **Roundtable Discussion With Audience QA**

4:30 PM **TIRATROP: A Double Blind Randomized Trial of Ticagrelor in Patients Undergoing High Speed Rotational Atherectomy**

Lecturer: Thibault Lhermusier

4:40 PM **Roundtable Discussion With Audience QA**

4:45 PM **DISRUPT CAD II: A Single Arm Study of Intravascular Lithotripsy for Treatment of Severely Calcified Coronary Stenoses**

Lecturer: Ziad A. Ali

4:55 PM **Roundtable Discussion With Audience QA**

## FDA TOWN HALL MEETING PART 2: HOT TOPICS

### FDA Town Hall Meeting Part 2: Hot Topics

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 5:45 PM

Room 205-206

2:00 PM - 2:49 PM

#### Session I. Addressing the Need for Heart Failure Devices: Regulatory, Clinical, and Industry Challenges

Moderators: Nicole Ibrahim, JoAnn Lindenfeld Discussants: William T. Abraham, Lori M. Ashby, Lauren S. Baker, Daniel Burkhoff, Mona Fiuzat, Navin K. Kapur, Christopher O'Connor, Ileana L. Pina

2:00 PM **Devices for Heart Failure: FDA Perspectives on Trial Designs and Endpoints**

Lecturer: Bram D. Zuckerman

2:07 PM **ARC Initiative for Heart Failure and Shock: HF ARC Shock ARC and More**

Lecturer: Christopher O'Connor

2:14 PM **Industry View on Controlled Trials for Heart Failure and Shock Devices**

Lecturer: William T. Abraham

2:22 PM **Perspectives on Infarct Size as a Surrogate in STEMI**

Lecturer: Navin K. Kapur

2:29 PM **Roundtable Discussion with Audience QA**

2:49 PM - 3:39 PM

#### Session II. Device Treatment for Shock: Regulatory, Clinical, and Industry Challenges

- 2:49 PM **Devices to Treat Shock: Regulatory Perspectives**  
Lecturer: Fernando Aguel
- 2:56 PM **Industry Perspectives on Controlled Trials for Shock Devices**  
Lecturer: Noam Josephy
- 3:03 PM **Designing Controlled Trials for Shock Devices: Population Targets and Safety and Effectiveness Considerations**  
Lecturer: Anthony H. Gershlick
- 3:11 PM **Reimbursement Pathways for Shock Devices**  
Lecturer: Lori M. Ashby
- 3:19 PM **Roundtable Discussion with Audience QA**

3:39 PM - 4:13 PM

**Session III. High Bleeding Risk Patients: Trial Designs for Novel Stents and Shortened DAPT Duration**

Moderators: Adrian Magee, Roxana Mehran Discussants: Davide Capodanno, C. Michael Gibson, Mitchell W. Krucoff, David J. Moliterno, Marie-Claude Morice, Sunil V. Rao, Philip M. Urban, Stephan Windecker

- 3:39 PM **Defining High Bleeding Risk: HBR ARC**  
Lecturer: Philip M. Urban
- 3:46 PM **Regulatory Considerations for High Bleeding Risk Patients Undergoing PCI**  
Lecturer: Adrian Magee
- 3:53 PM **Roundtable Discussion With Audience QA**

4:13 PM - 5:02 PM

**Session IV. Mitral Repair/Replacement Devices: Evolving Regulatory Considerations**

Moderators: Gregg W. Stone, Changfu Wu Discussants: Lori M. Ashby, Andrew Farb, Ted E. Feldman, Howard C. Herrmann, Nicole Ibrahim, Saibal Kar, Martin B. Leon, Michael J. Mack, Neil E. Moat, Jaime Raben, Kartik Sundareswaran, Eric Vang

- 4:13 PM **Pivotal Transcatheter FMR Device Trials: Future Perspectives One Year After COAPT and MITRA FR**  
Lecturer: Gregg W. Stone
- 4:21 PM **Transcatheter Mitral Valve Repair and Replacement Pivotal Trials: Industry Perspectives**  
Lecturer: Ted E. Feldman
- 4:28 PM **Transcatheter Mitral Valve Repair and Replacement Pivotal Trials: Regulatory Considerations**  
Lecturer: Changfu Wu
- 4:35 PM **Transcatheter Mitral Valve Repair and Replacement Devices: Reimbursement Considerations**  
Lecturer: Lori M. Ashby
- 4:42 PM **Roundtable Discussion With Audience QA**

5:02 PM - 5:45 PM

**Session V. New Applications for TAVR: Controversies in Approval Pathways**

Moderators: Martin B. Leon, Jaime Raben Discussants: Jennifer Bastjanic, Nina Goodheart, Hasan Jilaihawi, A. Pieter Kappetein, Michael J. Mack, Shawn McCarthy, Neil E. Moat, Augusto D. Pichard, Martyn R. Thomas, Vinod H. Thourani, Hendrik Treede, Bernard Vasseur, Larry L. Wood

- 5:02 PM **Regulatory Considerations for New Valves and Adjunctive Devices**

Lecturer: Jennifer Bastjanic

- 5:10 PM **TAVR for Bicuspid Aortic Stenosis: What Is Known and What Is Not**  
Lecturer: Michael J. Mack
- 5:17 PM **TAVR for Aortic Regurgitation: Clinical Device Evaluation Considerations**  
Lecturer: Vinod H. Thourani
- 5:24 PM **Roundtable Discussion with Audience QA**

## CATH LAB RADIATION MANAGEMENT: IN REMEMBRANCE OF CHARLES CHAMBERS

### Cath Lab Radiation Management: In Remembrance of Charles Chambers

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

12:15 PM - 1:45 PM  
Room 203

12:15 PM - 1:45 PM

#### Agenda

Moderators: Stephen Balter, Sanjog Kalra Discussants: Kristin Bottone, Emmanouil S. Brilakis, James A. Goldstein, Edwin M. Leidholdt, Jr., Madan M. Rehani, Sheila Sahni, Cynthia Wilson

- 12:15 PM **Introduction and Basics**  
Lecturer: Stephen Balter
- 12:25 PM **Physician Safety and Emerging Technology Solutions**  
Lecturer: James A. Goldstein
- 12:35 PM **Patient and Staff Safety Considerations**  
Lecturer: Kristin Bottone, Cynthia Wilson
- 12:45 PM **Minimizing Patient Radiation Exposure**  
Lecturer: Sanjog Kalra
- 12:55 PM **Roundtable Discussion With Audience QA**
- 1:05 PM **VA Healthcare Failure Mode Effect Analysis**  
Lecturer: Edwin M. Leidholdt, Jr.
- 1:15 PM **Patient Radiation Tracking and Results**  
Lecturer: Madan M. Rehani
- 1:25 PM **JC Fluoro Requirements**  
Lecturer: Stephen Balter
- 1:30 PM **Roundtable Discussion With Audience QA**

## CLINICAL TRIAL DESIGN, STATISTICS, AND LITERATURE INTERPRETATION: THE EVIDENCE-BASED MEDICINE EXPERT — PART 1

### Clinical Trial Design, Statistics, and Literature Interpretation: The Evidence-Based Medicine Expert — Part 1

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

12:15 PM - 1:45 PM  
Room 201-202

12:15 PM - 1:45 PM

### Clinical Trial Design, Statistics, and Literature Interpretation: The Evidence-Based Medicine Expert

Moderators: *Stuart J. Pocock, Jan G. P. Tijssen* Discussants: *Stefan Anker, Otavio Berwanger, Giuseppe Biondi-Zoccai, David J. Cohen, C. Michael Gibson, Roseann M. White*

- 12:15 PM **Alternatives to Intention to Treat Analysis: Can They Be Trusted**  
Lecturer: *Stuart J. Pocock*
- 12:25 PM **When the Primary Endpoint Is Missed: The CABANA Case Study**  
Lecturer: *Bernard J. Gersh*
- 12:35 PM **Roundtable Discussion With Audience QA**
- 12:45 PM **Metanalysis: Discriminating the Good From the Bad**  
Lecturer: *Umberto Benedetto*
- 12:55 PM **Drug Coated Balloons in the Periphery: Red Alert or Red Herring**  
Lecturer: *Eric A. Secemsky*
- 1:05 PM **Roundtable Discussion With Audience QA**
- 1:15 PM **Balancing Efficacy and Safety in Trial Interpretation**  
Lecturer: *David J. Cohen*
- 1:25 PM **Answers and Questions After AUGUSTUS**  
Lecturer: *Shamir R. Mehta*
- 1:35 PM **Roundtable Discussion With Audience QA**

## DETECTION AND TREATMENT OF VULNERABLE PLAQUES AND VULNERABLE PATIENTS: ARE WE THERE YET?

### Detection and Treatment of Vulnerable Plaques and Vulnerable Patients: Are We There Yet?

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

12:15 PM - 1:45 PM  
Room 213

12:15 PM - 12:25 PM

#### Session I: The Search for the Vulnerable Plaque

Moderator: *James E. Muller, Gregg W. Stone*

- 12:15 PM **Keynote Lecture: The Thirty Year Search for the Vulnerable Plaque Pursuit of the Holy Grail or a Fools Errand**  
Lecturer: *James E. Muller*

12:25 PM - 1:14 PM

#### Session II: Secondary Prevention of Coronary Events Post-PCI by Detection and Treatment of Vulnerable Plaques and Patients

Moderators: *James E. Muller, Gregg W. Stone* Discussants: *Takashi Akasaka, John A. Ambrose, Ranil De Silva, Carlo Di Mario, Habib Samady, Robert L. Wilensky*

- 12:25 PM **IVUS and OCT Imaging for the Detection of Vulnerable Plaque and Patients**

Lecturer: *Francesco Prati*

12:32 PM **Updated Results and Implications of the Lipid Rich Plaque Study of NIR Spectroscopy**

Lecturer: *Ron S. Waksman*

12:39 PM **Detection of Vulnerable Patients by NIRS PROSPECT II and Treatment PROSPECT ABSORB Rationale and Update**

Lecturer: *David Erlinge*

12:45 PM **Treatment of Vulnerable Patients and Plaques: PREVENT Rationale and Update**

Lecturer: *Seung-Jung Park*

12:50 PM **Treatment of Vulnerable Patients and Plaques: PACMAN AMI Rationale and Update**

12:55 PM **PSS vs. ESS vs. WSS: Whats the Difference and Do They Matter**  
Lecturer: *Peter H. Stone*

1:02 PM **Utility of OCT NIRF Molecular Imaging for Vulnerable Plaque Identification**

Lecturer: *Farouc A. Jaffer*

1:09 PM **Roundtable Discussion With Audience QA**

1:14 PM - 1:45 PM

#### Primary Prevention of Coronary Events by Detection of Vulnerable Plaques and Vulnerable Patients

Moderators: *Jagat Narula, Patrick W. Serruys* Discussants: *Jeroen J. Bax, Scott M. Grundy, Charles Hennekens, Paul Knaapen, JoAnn Manson, Joanna J. Wykrzykowska*

1:14 PM **Non Invasive Imaging for the Detection of Vulnerable Plaques and Patients**

Lecturer: *James K. Min*

1:22 PM **Integration of Non Invasive and Invasive Imaging for the Detection of Vulnerable Plaques and Patients**

Lecturer: *Ryan D. Madder*

1:30 PM **Potential of NaF PET Imaging for Vulnerable Plaque and Patient Identification**

Lecturer: *Bon-Kwon Koo*

1:37 PM **Roundtable Discussion With Audience QA**

## DIABETIC DEBATES: REVASCULARIZATION AND MEDICAL THERAPIES

### Diabetic Debates: Revascularization and Medical Therapies

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

12:15 PM - 1:45 PM  
Room 209-210

12:15 PM - 1:45 PM

#### Diabetic Debates: Revascularization and Medical Therapies

Moderators: *Sripal Bangalore, David J. Maron* Discussants: *Frederick Feit, James Flaherty, Norman E. Lepor, Ahmed Magdy, Miodrag C. Ostojic, Craig A. Thompson*

12:15 PM **Debate 1: The Diabetic Patient With Multivessel CAD**

- 12:15 PM **The Case for Optimal Medical Therapy First in Most**  
*Lecturer: William E. Boden*
- 12:22 PM **The Case for CABG in Most**  
*Lecturer: John D. Puskas*
- 12:29 PM **The Case for PCI in Most**  
*Lecturer: Sripal Bangalore*
- 12:36 PM **Roundtable Discussion With Audience QA**
- 12:41 PM **Debate 2: Stent Choice in the Diabetic Patient**
- 12:41 PM **Most Contemporary DES Will Provide Similar Outcomes**  
*Lecturer: Davide Capodanno*
- 12:48 PM **Some Stents Are More Equal Than Others e.g. Ultra Thin**  
*Lecturer: David E. Kandzari*
- 12:55 PM **Discussion With Audience QA**
- 1:00 PM **Debate 3: Pharmacology in the Post Stent Diabetic Patient**
- 1:00 PM **The Case for Long Term 1 Year DAPT**  
*Lecturer: Usman Baber*
- 1:07 PM **The Case for Short Term 1 6 Months DAPT**  
*Lecturer: Anand Prasad*
- 1:14 PM **Dont Forget Anticoagulant Therapy**  
*Lecturer: Sanjit S. Jolly*
- 1:21 PM **Roundtable Discussion With Audience QA**
- 1:26 PM **Debate 4: Who Should Direct the Management of the Diabetic Patient With CAD**
- 1:26 PM **The Cardiologist Should Play a Major Role in Diabetes Management**  
*Lecturer: Matthew Cavender*
- 1:33 PM **Leave It to the Endocrinologist**  
*Lecturer: Sonya Burgess*
- 1:40 PM **Roundtable Discussion With Audience QA**

## TCT ENDOVASCULAR: TREATMENT OF ACUTE PULMONARY EMBOLISM

### TCT Endovascular: Treatment of Acute Pulmonary Embolism

Vascular

FRIDAY, SEPTEMBER 27, 2019  
12:15 PM - 1:45 PM  
Room 211

12:15 PM - 1:45 PM

### Treatment of Acute Pulmonary Embolism

*Moderators: Jay S. Giri, Robert A. Lookstein*  
*Discussants: Riyaz Bashir, S. Jay Mathews, Gregory Piazza, Michael J Rosenberg, Keith Sterling, Thomas M. Tu*

- 12:15 PM **Welcome**  
*Lecturer: Robert A. Lookstein*
- 12:20 PM **Acute PE: Scope of the Problem**  
*Lecturer: Gregory Piazza*
- 12:30 PM **Catheter Directed Thrombolysis for Submassive Acute PE: The New Standard**  
*Lecturer: Keith Sterling*
- 12:45 PM **Large Bore Thromboaspiration Is a Game Changer: The New Kid on the Block**  
*Lecturer: Thomas M. Tu*
- 12:55 PM **Not So Fast: Small Bore Thromboaspiration Is All You Need**  
*Lecturer: Michael J Rosenberg*
- 1:05 PM **A New Technology for Thrombolysis and Thromboectomy**  
*Lecturer: Riyaz Bashir*
- 1:15 PM **PERT is the Only Way to Improve Patient Care and Change the Outcomes**  
*Lecturer: Jay S. Giri*
- 1:25 PM **Roundtable Discussion With Audience QA**  
*Lecturer: Robert A. Lookstein*
- 1:40 PM **Closing Remarks**  
*Lecturer: Jay S. Giri*

## TCT ENDOVASCULAR AND VEITH: AORTIC THERAPIES

### TCT Endovascular and VEITH: Aortic Therapies

Vascular

FRIDAY, SEPTEMBER 27, 2019  
12:15 PM - 1:45 PM  
Room 216

12:15 PM - 1:45 PM

### TCT Endovascular and VEITH: Aortic Therapies

*Moderators: Enrico Ascher, Frank J. Veith*  
*Discussants: Neal S. Cayne, Thomas Maldonado, James F. McKinsey, Virendra I. Patel, Michael Silva, Gilbert R. Upchurch*

- 12:15 PM **Natural History of Asymptomatic Penetrating Aortic Ulcers and Intramural Hematomas of the Thoracic Aorta: When to Treat**  
*Lecturer: Gilbert R. Upchurch*
- 12:21 PM **Newest Cerebral Protection Devices for TEVAR And TAVR**  
*Lecturer: Jeffrey P. Carpenter*
- 12:27 PM **TEVAR as an All Percutaneous Approach Under Local Anesthesia: Tricks and Strategies**



Lecturer: Zvonimir Krajcer

12:33 PM **New Developments in the Management of Acute Uncomplicated TBAD**

Lecturer: Virendra I. Patel

12:39 PM **Mid Term Comparison of Fenestrated vs Parallel Grafts for the Treatment of Juxtarenal Suprarenal and Thoracoabdominal Aneurysms**

Lecturer: James F. McKinsey

12:45 PM **Role of 3D Fusion Imaging and Guidance for Complicated Aortic Reconstructions**

Lecturer: Neal S. Cayne

12:51 PM **Roundtable Discussion With Audience QA Strategies to Solve Unexpected Major Complications During Endo Repair of Thoracoabdominal Aneurysms**

Lecturer: William J. Quinones-Baldrich

1:09 PM **EVAR Explants: Technical Challenges and Outcomes**

Lecturer: Virendra I. Patel

1:15 PM **Real World Multicenter Experience With the Gore Iliac Branched Devices for Unilateral and Bilateral Iliac Aneurysms: Technical Tips and Outcomes**

Lecturer: Thomas Maldonado

1:21 PM **EVAR Advantages for the Repair of Ruptured AAAs: Strategies to Increase Its Feasibility**

Lecturer: Brian G. DeRubertis

1:27 PM **Endovascular Aortobi Iliac Stent Grafting for Juxtarenal Aorto Iliac Disease: Technique Devices and Results**

Lecturer: Michael Silva

1:33 PM **Roundtable Discussion With Audience QA**

12:39 PM **Case Presentation With Discussion: A Transseptal Procedure After a Prior PFO Closure**

Case Presenter: Apostolos Tzikas

12:47 PM **Case Presentation With Discussion: Residual Shunts After PFO Closure**

Case Presenter: Jonathan M. Tobis

12:55 PM **Case Presentation With Discussion: Stitch It Closed and Leave No Device Behind**

Case Presenter: Gennaro Sardella

1:03 PM **Case Presentation With Discussion: Are Bioabsorbable Devices Back**

Case Presenter: Horst Sievert

1:11 PM **Case Presentation With Discussion: Closure of Long Tunnel PFO**

Case Presenter: Mark Reisman

1:19 PM **Case Presentation With Discussion: Managing a Lipomatous Septum Secundum and Aneurysmal Septum Primum**

Case Presenter: Eric Horlick

1:27 PM **Case Presentation With Discussion: Transseptal Puncture for PFO Occlusion**

Case Presenter: Reda Ibrahim

1:35 PM **Roundtable Discussion With Audience QA**

## TRANSCATHETER CARDIOVASCULAR INNOVATIONS IN THE UNDERSERVED: CURRENT CHALLENGES AND OPPORTUNITIES — SPONSORED BY THE ASSOCIATION OF BLACK CARDIOLOGISTS

## TECHNIQUES AND CASE STUDIES IN PFO CLOSURE

### Techniques and Case Studies in PFO Closure

Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

12:15 PM - 1:45 PM

Room 207

12:15 PM - 1:45 PM

### Techniques and Case Studies in PFO Closure

Moderators: John D. Carroll, Mark Reisman  
Discussants: Elliott Michael Groves, Matthew J. Price, Jacqueline Saw, Zachary Steinberg, Jonathan M. Tobis, Brian K. Whisenant

12:15 PM **Case Presentation With Discussion: Your Patient Is on the Table for PFO Closure but No PFO Is Found**

Case Presenter: Eric Horlick

12:23 PM **Case Presentation With Discussion: PFO Closure When the Good Becomes the Ugly**

Case Presenter: Carey D. Kimmelstiel

12:31 PM **Case Presentation With Discussion: PFO Closure in Hypoxemic Syndrome**

Case Presenter: Harsimran Sachdeva Singh

### Transcatheter Cardiovascular Innovations in the Underserved: Current Challenges and Opportunities — Sponsored by the Association of Black Cardiologists

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

12:15 PM - 1:45 PM

Room 215

12:15 PM - 1:00 PM

### Session I: Diversity Within the Interventional Cardiology Workforce — What Matters and Why?

Moderators: Wayne B. Batchelor, Clyde W. Yancy  
Discussants: Oluseun Alli, Uzoma Ibebuogu, Mina Madan, A.J. Conrad C. Smith, Jennifer A. Tremmel, Karol Watson

12:15 PM **Diversity in Medicine: Charting a Path Forward**

Lecturer: Clyde W. Yancy

12:25 PM **Roundtable Discussion With Audience QA**

12:30 PM **The Cardiology Workforce: Current Status and Future Needs**

Lecturer: Quinn Capers

12:40 PM **Roundtable Discussion With Audience QA**

12:45 PM **Women in Interventional Cardiology: How to Make It Work**

## 12:55 PM Roundtable Discussion With Audience QA

1:00 PM - 1:45 PM

**Session II: Unique Challenges in Achieving Equity in Care and Outcomes**

Moderators: Wayne B. Batchelor, Marianne Brodmann  
 Discussants: Mirvat Alasnag, Angeles Alonso Garcia, Quinn Capers, Ioanna Kosmidou, Amisha Patel, Celina M. Yong

- 1:00 PM **Minority Women Undergoing PCI: Optimizing Outcomes in the New High Risk PCI Cohort**  
 Lecturer: Kelly C. Epps
- 1:10 PM **PCI in the Alaskan Native American Indian Population: Unique Challenges and Potential Solutions**  
 Lecturer: George S. Chrysant
- 1:20 PM **Diagnostic and Treatment Disparities in Valvular Heart Disease: Implications for Structural Heart Programs**  
 Lecturer: Aaron Horne, Jr.
- 1:30 PM **Going Out on a Limb: A Call to Action for Critical Limb Ischemia in the Underserved**  
 Lecturer: Lee Kirksey
- 1:40 PM **Roundtable Discussion With Audience QA**

## ENDOVASCULAR CARDIAC COMPLICATIONS (ECC) 2019: PREVENTION IS THE BEST TREATMENT FOR COMPLICATIONS

### Endovascular Cardiac Complications (ECC) 2019: Prevention Is The Best Treatment For Complications

FRIDAY, SEPTEMBER 27, 2019

9:00 AM - 10:30 AM  
Room 216

9:00 AM - 10:30 AM

**Endovascular Cardiac Complications (ECC) 2019: Prevention Is The Best Treatment For Complications**

Discussant: Merida Cardenas Manilla, Morton J. Kern, Jack Wei Chieh Tan, Aaron Wong Sung Lung

- 9:00 AM **Introduction**  
 Lecturer: Michael Haude
- 9:05 AM **Till Death Do Tear Us Apart**  
 Lecturer: Aaron Wong Sung Lung
- 9:20 AM **Roundtable Discussion With Audience QA**
- 9:25 AM **No Reflow After Balloon Angioplasty**
- 9:40 AM **Roundtable Discussion With Audience QA**
- 9:45 AM **Unusual Situation During Transradial Intervention**  
 Lecturer: Purich Surunchuakorn
- 10:00 AM **Roundtable Discussion With Audience QA**
- 10:05 AM **Unexpected Shock: Where Does It Come From**  
 Lecturer: Merida Cardenas Manilla

## TCT INDIA SESSION

## TCT India Session

FRIDAY, SEPTEMBER 27, 2019

9:00 AM - 10:30 AM

Presentation Theater 2

9:00 AM - 10:30 AM

**TCT India**

Chairs: Pravin K. Goel, Yasha Sharma  
 Panelists: V RAJASEKHAR, Anand M. Rao, KMK Reddy, Bhuyan Chandra Tiwari

9:00 AM **Opening Remarks**

Lecturer: Pravin K. Goel, Yasha Sharma

9:05 AM **Session I. Coronary Complications**9:05 AM **Stent Migration Embolisation**

Lecturer: Viveka Kumar

9:12 AM **Discussion**

Lecturer: Viveka Kumar

9:15 AM **Coronary Aneurysms Post DES Traumatic**

Lecturer: Subhash Chandra

9:22 AM **Discussion**

Lecturer: Subhash Chandra

9:25 AM **Coronary Perforation Tamponade**

Lecturer: Pravin Agarwal

9:32 AM **Discussion**

Lecturer: Pravin Agarwal

9:47 AM **Session II. Structural Heart Intervention Complications**9:47 AM **My Worst TAVR Complication**

Lecturer: Pravin K. Goel

9:54 AM **Discussion**

Lecturer: Pravin K. Goel

9:57 AM **My Repair Techniques Mitra Clip Complications How to Avoid Them With Case EGS**

Lecturer: Pravin K. Goel

10:04 AM **Discussion**

Lecturer: Pravin K. Goel

- 10:07 AM **LAO Complications Tips to Avoid Them With Case EGS**  
Lecturer: Ranjan Shetty
- 10:14 AM **Discussion Concluding Remarks**  
Lecturer: Ranjan Shetty

Award Presenter: Wojtek Wojakowski

4:58 PM **Roundtable Discussion With Audience QA**

5:05 PM - 5:30 PM

**Session III. My Most Challenging Case - Fellows Committee**

Moderators: Mirvat Alasnag Discussants: Pedro De Araujo Goncalves, Afzalur Rahman, Mohamed Ahmed Sobhy, Wojtek Wojakowski

5:05 PM **Complication During TAVI Procedure**

Case Presenter: Pedro De Araujo Goncalves

5:12 PM **TBD**

Case Presenter: Carlos D. Calderas

5:17 PM **Roundtable Discussion With Audience QA**

## INTERNATIONAL FELLOWS CHALLENGING CASE SESSION

### International Fellows Challenging Case Session

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 5:30 PM

Room 216

4:00 PM - 4:33 PM

**Session I. Top Three International Fellows Cases**

Discussant: Carlos D. Calderas, Pedro De Araujo Goncalves, Afzalur Rahman, Wojtek Wojakowski

4:00 PM **Introduction of Top 3 Selected Winners**

Lecturer: Ori Ben-Yehuda

4:05 PM **First Place Winner Case : A Novel and Simple Percutaneous Technique to Treat a Complex Pseudoaneurysm of Post Aortic Coarctation Patch Aortoplasty**

Case Presenter: Virginia Pascual-Tejerina

4:12 PM **Second Place Winner Case: Nightmare in a Cardioband Transcatheter Tricuspid Annuloplasty**

Case Presenter: Mizuki Miura

4:19 PM **Third Place Winner Case: Calcium Does Not Always Win the Battle**

Case Presenter: Rosa Alba Abellas Sequeiros

4:26 PM **Roundtable Discussion With Audience QA**

4:33 PM - 5:05 PM

**Session II. Fellows Got Talent – Case Competition!**

Moderators: Wojtek Wojakowski Discussants: Mirvat Alasnag, Pedro De Araujo Goncalves, Afzalur Rahman, Mohamed Ahmed Sobhy

4:33 PM **Case 1 A: A Case of Stent Shaft Fracture During PCI and Retrieval With Trapping Balloon Method**

Case Presenter: Wei Tso Chen

4:38 PM **Case 2 B: Percutaneous Closure of a Blalock Taussig Shunt a Systemic Pulmonary Collateral and Closure of a Cavo Atrial Fenestration in a Single Procedure**

Case Presenter: Jesus Omar Hernandez Marquez

4:43 PM **Case 3 C: Iatrogenic Left Internal Mammary Artery to Great Cardiac Vein Fistula Successfully Treated With Vascular Plug**

Case Presenter: Gibran Bhering Nascif

4:48 PM **Case 4 D Pulmonary Valve Replacement With Venus P Valve**

Case Presenter: SAYAH NEILA

4:53 PM **Voting Commences Winner Announced TCT Poll App Question: Please Vote On The Case You Found Most Challenging Answers: A B C or D**

## INTERNATIONAL COMPLEX CASE SESSION IV: CORONARY THROMBUS MANAGEMENT AND OTHER SPECIAL PCI SITUATIONS

### International Complex Case Session IV: Coronary Thrombus Management and Other Special PCI Situations

FRIDAY, SEPTEMBER 27, 2019

8:30 AM - 10:30 AM

Presentation Theater 1

8:30 AM - 10:30 AM

**Coronary Thrombus Management and Other Special PCI Situations**

Moderators: Graham A. Cassel, Efrain Gaxiola Discussants: Magdy Abdelhamid, Pablo D. Charry-Amaya, Mohamed Chettibi, Giuseppe Musumeci, Ivo Petrov, Li-Wah Tam

8:30 AM **Introduction**

Lecturer: Efrain Gaxiola

8:35 AM **Croatia Presents: Complex LMCALADRI PCI in NSTEMI**

Case Presenter: Eduard Margetic

8:45 AM **Roundtable Discussion With Audience QA**

8:50 AM **Colombia Presents: Left Main Coronary Thrombus in a Young Women Treated With Catheter Thrombectomy**

Case Presenter: Jorge Villegas

9:00 AM **Roundtable Discussion With Audience QA**

9:05 AM **Algeria Presents: Acute Stent Thrombosis An Allergic Cause**

Case Presenter: Mohamed Abed Bouraghda

9:15 AM **Roundtable Discussion With Audience QA**

9:20 AM **Belgium Presents: A Case of Cardiogenic Shock Caused by Spontaneous Coronary Artery Dissection of The Left Main**

Case Presenter: Walter Desmet

9:30 AM **Roundtable Discussion With Audience QA**

9:35 AM **Germany Presents: Overlapping Covered Stent Implantation for Treatment of Large Aneurysm in Proximal Left Anterior Descending Artery**

Case Presenter: Jochen Wohrle

- 9:45 AM Roundtable Discussion With Audience QA  
9:50 AM Romania Presents: Complex Left Main Trifurcation PCI in a Patient With Left Circumflex and Right Coronary Artery CTO  
Case Presenter: Marin Postu
- 10:00 AM Roundtable Discussion With Audience QA  
10:05 AM Switzerland Presents: When What You Always Fear Happens  
Case Presenter: Stephane Noble
- 10:15 AM Roundtable Discussion With Audience QA  
10:20 AM Final Thoughts  
Lecturer: Graham A. Cassel

Case Presenter: Habib Gamra

- 3:45 PM Roundtable Discussion With Audience QA  
3:50 PM Final Thoughts  
Lecturer: Mirvat Alasnag

## INTERNATIONAL COMPLEX CASE SESSION V: FEATURED COMPLEX CORONARY CASES

### International Complex Case Session V: Featured Complex Coronary Cases

FRIDAY, SEPTEMBER 27, 2019

2:30 PM - 4:00 PM

Presentation Theater 1

2:30 PM - 4:00 PM

#### Featured Complex Coronary Cases

Moderators: Mirvat Alasnag, Mohamed Ahmed Sobhy  
Discussants: Roberto Botelho, Alejandro Cherro, Christos Christou, Dan Eugen Deleanu, Sherif Mohamed Fayek ElTobgi, Viliam Fridrich

- 2:30 PM Introduction  
Lecturer: Mohamed Ahmed Sobhy
- 2:35 PM Bangladesh Presents: LAD Ostial PCI by an Innovative Technique  
Case Presenter: Afzalur Rahman
- 2:45 PM Roundtable Discussion With Audience QA  
2:50 PM Bulgaria Presents: Complete Revascularization in Patient With Complex Coronary Artery Disease  
Case Presenter: Valery Gelev
- 3:00 PM Roundtable Discussion With Audience QA  
3:05 PM Germany Presents: Complex Retrograde Recanalization of a Chronic Total Occluded Proximal LAD  
Case Presenter: Julia Seeger
- 3:15 PM Roundtable Discussion With Audience QA  
3:20 PM South Africa Presents: Complex Triple Vessel Disease Treated by Rotablator and Staged Intervention  
Case Presenter: Graham A. Cassel
- 3:30 PM Roundtable Discussion With Audience QA  
3:35 PM Tunisia Presents: An Unusual Etiology of Stent Thrombosis

## INTERNATIONAL COMPLEX CASE SESSION VI: FEATURED COMPLEX CORONARY CASES

### International Complex Case Session VI: Featured Complex Coronary Cases

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 5:30 PM

Presentation Theater 1

4:00 PM - 5:30 PM

#### Featured Complex Coronary Cases

Moderators: Rabin dra Nath Chakraborty, Jorge Cortes Lawrenz  
Discussants: Carlos Cabrera, Adel M kamal El Etriby, Andrzej J. Ochala, Anwar Santoso

- 4:00 PM Introduction  
Lecturer: Rabin dra Nath Chakraborty
- 4:05 PM Taiwan Presents: Re Wipe the RCA CTO  
Case Presenter: Jun-Jack Cheng
- 4:15 PM Roundtable Discussion With Audience QA  
4:20 PM Germany Presents: A Protected Complex Left Main Using the Impella Device  
Case Presenter: Julia Seeger
- 4:30 PM Roundtable Discussion With Audience QA  
4:35 PM Netherlands Presents: PCI Of Calcified Lesions With Novel Calcium Modulating Techniques: Rock Roll or Rock Roll  
Case Presenter: Rik Hermanides
- 4:45 PM Roundtable Discussion With Audience QA  
4:50 PM Slovenia Presents: Multimodal Treatment of Refractory Angina Pectors With CFR Coronary Flow Reducer Implantation  
Case Presenter: Matjaz Bunc
- 5:00 PM Roundtable Discussion With Audience QA  
5:05 PM Spain Presents: LIMA Grafts Are Life Long Warranted Sometimes  
Case Presenter: Armando Perez de Prado
- 5:15 PM Roundtable Discussion With Audience QA  
5:20 PM Final Thoughts  
Lecturer: Jorge Cortes Lawrenz

## CHALLENGING CASES 3

### Challenging Cases 3

Structural: ValveCoronary; CHIPCoronary; CoreVascular

9:15 AM - 10:45 AM

**Coronary XI**

*Discussant: Peter Barlis, Liang Dong, Vladimir Dzavik, Nieves Gonzalo, Jincheng Guo, Michalis Hamilos, Colm Hanratty, Stefan Harb, Hosam Hasan, Yutaka Hikichi, Jingbo Hou, Rongchong Huang, Dipti Itchhaporia, Aaron V. Kaplan, Yoshiaki Kawase, David F. Kong*

- 9:15 AM **TCT 1210: A Coronary Masquerade: Spontaneous Coronary Artery Dissection Presenting as an Acute Coronary Syndrome**  
*Presenting Author: Kara Stout*
- 9:15 AM **TCT 1211: Streamlined Reverse Wire Technique for the Treatment of Complex Bifurcated Lesions**  
*Presenting Author: Katsuyuki Hasegawa*
- 9:15 AM **TCT 1212: The Efficacy of Directional Coronary Atherectomy for Non ST segment Elevation Myocardial Infarction**  
*Presenting Author: Kohei Yoneda*
- 9:15 AM **TCT 1213: Acute Coronary Syndrome in a Nonagenarian Clinical Ethical and Procedural challenges. Is there sufficient evidence based knowledge to guide us**  
*Presenting Author: Krishna Tummalapalli*
- 9:15 AM **TCT 1214: Multiple Vessel Spontaneous Coronary Artery Dissection causing NSTEMI**  
*Presenting Author: Lance Alquran*
- 9:15 AM **TCT 1215: The most critical lesion in the most critical scenario**  
*Presenting Author: Maged Ramses*
- 9:15 AM **TCT 1216: Challenging CTO intervention in a patient with single coronary artery**  
*Presenting Author: Manu Rajendran*
- 9:15 AM **TCT 1217: Acute coronary syndrome: severely under expanded stent treated with Shockwave IVL**  
*Presenting Author: Marco Boccalatte*
- 9:15 AM **TCT 1218: Successful Staged Percutaneous Coronary Intervention for Spontaneous Coronary Artery Dissection using Retrograde Approach**  
*Presenting Author: Masatsugu Nozoe*
- 9:15 AM **TCT 1219: Missing Left Main: How Did I Treat**  
*Presenting Author: Gholam Azam*
- 9:15 AM **TCT 1220: How to Overcome Tortuous and Angulated Lesion at RCA STEMI**  
*Presenting Author: Kim Minwoong*
- 9:15 AM **TCT 1221: Congenital Anomaly of the Left Main Coronary Artery Presenting as a Myocardial Infarction in a Young Female**  
*Presenting Author: Mohammed Al-Sadawi*
- 9:15 AM **TCT 1222: Left Ventricular Unloading during 1:3 Pulsatile Mechanical Circulatory Support in Ischemic Cardiomyopathy**

*Presenting Author: Marcelo Bastos*

- 9:15 AM **TCT 1223: IMPELLA CP AS A BRIDGE TO SURGERY FOR ANTERIOR POST ISCHEMIC SEPTAL RUPTURE**

*Presenting Author: Marco Moccetti*

- 9:15 AM **TCT 1224: A Case of Acute Renal Failure with Hemolysis Caused by Impella**

*Presenting Author: Masao Takigami*

9:15 AM - 10:45 AM

**Coronary XII**

*Discussant: Tarun Chakravarty, Nabil Dib, Lampson Fan, Guosheng Fu, Arthur Garan, Ingibjorg J. Gudmundsdottir, Abdul Hakeem*

- 9:15 AM **TCT 1225: The interventional therapy of post infarction ventricular septal defect with cardiogenic shock**  
*Presenting Author: Minglian Gong*
- 9:15 AM **TCT 1226: Cardiogenic Shock Complicated by Diffuse Alveolar Hemorrhage DAH: Simultaneous use of an Impella CP and Veno Venous VV Extracorporeal Membranous Oxygenation ECMO in a case of ST Elevation Myocardial Infarction STEMI requiring tissue Plasminogen Activator tPA**  
*Presenting Author: Navneet Sharma*
- 9:15 AM **TCT 1227: A Case of Immune Checkpoint Inhibitor related Fulminant Myocarditis with Cancer**  
*Presenting Author: Satoshi Matsuoka*
- 9:15 AM **TCT 1228: The Case of the Migrating Axillary Balloon Pump.**  
*Presenting Author: Stephanie El-Hajj*
- 9:15 AM **TCT 1229: Management of Refractory Cardiac Arrests with Veno Arterial Extra Corporeal Membranous Oxygenation VA ECMO and Left Ventricular Venting Enabling Complex Percutaneous Coronary Interventions**  
*Presenting Author: Talha Ahmed*
- 9:15 AM **TCT 1230: Transgender Patient Receiving Cross Sex Hormone Therapy presenting as Simultaneous LM and RCA Plaque Rupture complicated by Cardiogenic Shock with Successful Acute Unloading of the LV followed by Complete Revascularization**  
*Presenting Author: Vishal Dahya*
- 9:15 AM **TCT 1231: Successful Resuscitation of Acute Cardiogenic Shock Presenting as Ventricular Fibrillation via Bipella Approach.**  
*Presenting Author: Yashwant Agrawal*
- 9:15 AM **TCT 1232: Dismantling of Partially Covered Magnesium Bioresorbable Scaffold Assessed with Optical Coherence Tomography**  
*Presenting Author: Christian Oliver Fallesen*
- 9:15 AM **TCT 1233: OCT and IVUS guided treatment of restenosis in a new generation magnesium based bioresorbable scaffolds due to significant collapse**  
*Presenting Author: Hongbo Yang*
- 9:15 AM **TCT 1234: Treatment of long tapering LAD lesion with a distal tapering and another proximal scaffold with inadvertent overlap**  
*Presenting Author: Vijayakumar Subban*

9:15 AM - 10:45 AM

**Endovascular III**

- 9:15 AM **TCT 1235: A case of refractory right heart failure due to traumatic rig**  
*Presenting Author: Chakradhar Pedada*
- 9:15 AM **TCT 1236: Rescue Intervention in Acute Complicated Type B Aortic Dissection**  
*Presenting Author: Chih Hung Lai*
- 9:15 AM **TCT 1237: Pedal arch reconstruction in a patient with a poorly healing surgical wound following trans metatarsal amputation.**  
*Presenting Author: Christopher Regan*
- 9:15 AM **TCT 1238: A case of VIABAHN VBX subacute occlusion implanted for in stent occlusion of Leriche syndrome with severe calcification.**  
*Presenting Author: Fujimoto Daichi*
- 9:15 AM **TCT 1239: PTA of popliteal artery through Fem Pop bypass**  
*Presenting Author: Dejan Mancevski*
- 9:15 AM **TCT 1240: Initial experience of Removing Calcified Plaque by Intentional Crosser Bias Control with Angled Support Catheter REIWA Technique**  
*Presenting Author: GO TAKENOUCI*
- 9:15 AM **TCT 1241: Dislodged renal stent retrieved and deployed in good position.**  
*Presenting Author: Hady Lichaa*
- 9:15 AM **TCT 1242: Cutted Coronary Balloon Embolisation Novel Technique for Right Hepatic Artery Rupture Bleeding**  
*Presenting Author: Harun Kilic*
- 9:15 AM **TCT 1243: A unique and challenging May Thurner Syndrome Like case**  
*Presenting Author: Juan Manuel Telayna*
- 9:15 AM **TCT 1244: Successful Catheter Intervention for Active Bleeding from Giant Multiple Renal Artery Aneurysms.**  
*Presenting Author: Kota Komiyama*
- 9:15 AM **TCT 1245: Successful Endovascular Therapy for Acute Limb Ischemia Utilizing Proximal Protection Catheter via Popliteal Retrograde Approach**  
*Presenting Author: KOTARO MIYASHITA*

9:15 AM - 10:45 AM

#### Endovascular IV

*Discussant: Christopher J. Cooper, Beau Hawkins, Michel Camille Henry, J. Stephen Jenkins, Schuyler Jones, Zaza Kavteldadze, Lee Kirksey, Charles Matouk, Matthew T. Menard*

- 9:15 AM **TCT 1246: Endovascular Treatment of Chronic Total Occlusion of Left Subclavian Artery Tips and Tricks**  
*Presenting Author: Kusum Lata*
- 9:15 AM **TCT 1247: A New Approach to Management of Superficial Femoral Artery CTO: A Novel Hybrid Score and Algorithm**  
*Presenting Author: Luai Tabaza*
- 9:15 AM **TCT 1248: COMPLEX BELOW THE KNEE VASCULAR INJURY: TRANSCOLATERAL EXCLUSION OF A GIANT PSEUDOANEURYSM AND REVASCULARIZATION WITH CORONARY TECHNIQUE**  
*Presenting Author: Maria Rosa Aymat*
- 9:15 AM **TCT 1249: Proximal balloon occlusion to prevent downstream embolization and thus reduce systemic adverse effects of drug coated balloons**

*Presenting Author: Masayoshi Kimura*

- 9:15 AM **TCT 1250: Case of Renal Artery Stent Thrombosis**  
*Presenting Author: Matthew Finn*
- 9:15 AM **TCT 1251: Double Barrel Bilateral Iliac Artery Stenting Using Bilateral Radial Artery Access**  
*Presenting Author: Mike Gorenchtein*
- 9:15 AM **TCT 1252: Iliac Vein Chronic Total Occlusion Percutaneous Management**  
*Presenting Author: Nayan Agarwal*
- 9:15 AM **TCT 1253: Percutaneous Transluminal Intervention for Treatment of Critical Hand Ischemia**  
*Presenting Author: Onur Erdogan*
- 9:15 AM **TCT 1254: Percutaneous use of the INARI ClotTrier thrombectomy device with veoplasty and stenting as a management strategy for iatrogenic obstructive Deep Venous Thrombosis.**  
*Presenting Author: Osama Abdel-Hafez*
- 9:15 AM **TCT 1255: PICKING Technique as Lithotripsy for Multiple Extremely Calcified Lesions in the Crural Artery**  
*Presenting Author: Osami Kawarada*
- 9:15 AM **TCT 1256: Is the qualification for limb amputation always final**  
*Presenting Author: Przemek Nowakowski*
- 9:15 AM **TCT 1257: Endovascular Management of a Large Common Carotid Artery Iatrogenic Pseudoaneurysm**  
*Presenting Author: Sameer Nagpal*

9:15 AM - 10:45 AM

#### Structural V

*Discussant: YONG HE, Uzoma Ibebuogu, Vijay Iyer, Biswajit Kar, Elvin Kedhi, Roger J. Laham, Daniel S. Levi, Marco A. Perin, Rishi Puri, Bernhard Reimers, Henrique B. Ribeiro, Neal Sawlani, Gerhard C. Schuler, Amit Segev*

- 9:15 AM **TCT 1258: First experience using a Minimalist Approach to Transcatheter Mitral Valve Replacement with Intracardiac Echocardiography**  
*Presenting Author: Abdullah Sarkar*
- 9:15 AM **TCT 1259: Percutaneous transluminal mitral Valvuloplasty in Giant Left atrium. Patient presented with severe mitral stenosis and repeated episodes of pulmonary edema. Conventional entry from left atrium to left ventricle was not possible despite repeated attempts. Reverse loop also failed.**  
*Presenting Author: ANIL KUMAR*
- 9:15 AM **TCT 1260: MitraClip Implantation to Treat Postoperative Systolic Anterior Motion after Surgical Mitral Valve Repair for Barlow Disease**  
*Presenting Author: Apurva Patel*
- 9:15 AM **TCT 1261: A Tragic End or an Expected Destiny A rare case of a Flash Pulmonary Edema due to Sewing Ring Dehiscence of Bio Prosthetic Mitral Valve**  
*Presenting Author: Bader Abu Ghalyoun*
- 9:15 AM **TCT 1262: Transcatheter Management of MitraClip Single Leaflet Detachment with Placement of an Additional Clip and Amplatzer Vascular Plug**  
*Presenting Author: Chetan Huded*
- 9:15 AM **TCT 1263: Prophylactic Left Ventricular Outflow Tract Septal Ablation Prior to Transcatheter Mitral Valve Replacement Using an Edwards 3 Sapien Heart Valve**



Presenting Author: Kris Kumar

9:15 AM **TCT 1264: Closure of perivalvular leaks after transapical mitral valve in valve replacement.**

Presenting Author: Kunal Jha

9:15 AM **TCT 1265: Acute mitral regurgitation complicated with cardiogenic shock and treated successfully with double mitraclip implantation**

Presenting Author: Luigi Salemm

9:15 AM **TCT 1266: Transcatheter mitral valve implantation in mitral annular calcification after transcatheter aortic valve implantation**

Presenting Author: Mani Arsalan

9:15 AM **TCT 1267: MitraClip XTR implantation in a patient with subaortic membrane and severe mitral regurgitation**

Presenting Author: Mehul Patel

9:15 AM - 10:45 AM

#### Structural VI

Discussant: Teiji Akagi, Joanna Chikwe, Khalil Fattouch, Sachin Goel, Mark J. Goodwin, Paul Gurbel, Jan Harnek, Joseph A. Hill, Katherine Kearney

9:15 AM **TCT 1268: Transcatheter mitral valve repair in congenitally corrected transposition of the great arteries**

Presenting Author: Mizuki Miura

9:15 AM **TCT 1269: Early valve thrombosis after mitral valve in valve procedure.**

Presenting Author: Nadim Geloo

9:15 AM **TCT 1270: Double Valve: Transapical TAVR and Mitral Valve in Valve in a Patient with HIT Using Bivarudin**

Presenting Author: Nicholas J. Ruggiero II, M.D., FACP, FACC, FSCAI, FSVM, FCPP

9:15 AM **TCT 1271: Percutaneous transvenous mitral commissurotomy in ECMO patient the bail out technique for unusual life threatening acute mitral valve bioprosthesis failure.**

Presenting Author: Petr Zdráhal

9:15 AM **TCT 1272: PERCUTANEOUS TRANSVENOUS MITRAL COMMISSUROTOMY IN A TUBULAR HEART**

Presenting Author: Preeti gupta

9:15 AM **TCT 1273: Mitral Valve in Valve: A Challenging Case of TAVR**

Presenting Author: Ravinder Singh Rao

9:15 AM **TCT 1274: Transcatheter Mitral Valve Replacement with the AltaValve: Description of the first case in the United States**

Presenting Author: Sachin Goel

9:15 AM **TCT 1275: Carillon implantation in a heart not suitable for surgical annular reduction with coronary compromise during implantation**

Presenting Author: Steven Goldberg

9:15 AM **TCT 1276: Sequential Valve in Valve Transcatheter Aortic Valve Replacement and Valve in Valve Transcatheter Mitral Valve Replacement in a Patient with Combined Degenerative Bioprosthetic Aortic Valve and Bioprosthetic Mitral Valve with High Surgical Risk**

Presenting Author: Timothy Pow

9:15 AM **TCT 1277: COMBO mitral valve repair using indirect ring annuloplasty and edge to edge leaflet therapy to treat severe secondary mitral regurgitation: new possibilities in transcatheter mitral therapy.**

Presenting Author: Tobias Ruf

9:15 AM **TCT 1278: Severe mitral regurgitation presented at mid term follow up after transcatheter mitral valve implantation in the position of a degenerated mitral ring**

Presenting Author: Vassilis Voudris

9:15 AM **TCT 1279: Transcatheter transeptal Mitral Valve in Valve Replacement and iatrogenic atrial septal defect closure in an unstable patient**

Presenting Author: William Kong

## CHALLENGING CASES 4

### Challenging Cases 4

Structural: Valve Coronary: CHIP Vascular Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:30 PM

Hall D, Exhibition Level, Moscone South

2:00 PM - 3:30 PM

#### Coronary XIII

Discussant: Peter Boekstegers, Leszek Bryniarski, Maurice Buchbinder, Debabrata Dash, Rajesh M. Dave, Larry S. Dean, Ranil De Silva, Walter Desmet, Suzanne de Waha-Thiele, Jose Guillermo Diez, John S. Douglas Jr, Ariel Duran, Ahmed Elghamaz, Mohamed Ali Elsalamony, Nicolas Foin, Omer Goktekin

2:00 PM **TCT 1280: LM Trifurcation treated as Two sequential Bifurcations using two different stent techniques under IVUS guidance**

Presenting Author: dr parminder otaal

2:00 PM **TCT 1281: Treating a Post CABG and Post PCI patient with very complex anatomy**

Presenting Author: Fazila-Tun-Nesa Malik

2:00 PM **TCT 1282: Retrograde PCI of an ostial LAD CTO through a stent implanted from left main to circumflex: rendez vous and chasing wire techniques**

Presenting Author: Felipe Hernandez

2:00 PM **TCT 1283: Mini Crush Technique Using A Guideliner A Heavily Calcific LAD Diagonal Bifurcation Lesion**

Presenting Author: Emad Effat

2:00 PM **TCT 1284: Peri procedural PCI risk optimization in patient with multivessel calcified lesions and severe left ventricle function reduction**

Presenting Author: Enrico Romagnoli

2:00 PM **TCT 1285: Recanalization of ostial RCA CTO with retrograde approach by tortuous epicardial collaterals with MCS.**

Presenting Author: Evandro Martins Filho

2:00 PM **TCT 1286: Mirror mirror on the wall Trans radial multi vessel PCI to RCA OM and CTO LAD in dextrocardia**

Presenting Author: Aaysha Cader

2:00 PM **TCT 1287: Double DoubleKiss Crush: A newer technique for sequential bifurcation lesions**

Presenting Author: Fahad Younas

2:00 PM **TCT 1288: Complex CTO PCI resolved by multiple new technologies of which direct wire pacing device.**

Presenting Author: Benjamin Faurie

- 2:00 PM **TCT 1289: PCI optimization in a complex case**  
Presenting Author: Bhupendra Sihag
- 2:00 PM **TCT 1290: Protected Left Main Rotational Atherectomy and PCI in a Patient with Bilateral Thigh Necrotizing Fasciitis via Radial and Axillary Artery Access**  
Presenting Author: Brian Karahalios
- 2:00 PM **TCT 1291: Repeated antegrade PCI failure for LCX CTO**  
Presenting Author: Cheng Han Lee
- 2:00 PM **TCT 1292: Balloon Assisted Guideliner Reverse CART technique for RCA CTO Intervention in Dual LAD anomaly**  
Presenting Author: Chi Yan Fung
- 2:00 PM **TCT 1293: Ping pongguide catheters to facilitate real time IVUS guided recanalisation of stumpless CTO**  
Presenting Author: Ching-Tang Chang
- 2:00 PM **TCT 1294: Child in Mother Technique to Facilitate Retrograde Microcatheter Advance in CTO Intervention**  
Presenting Author: Ching-Tang Chang

2:00 PM - 3:30 PM

#### Coronary XIV

Discussant: Khaled Almerri, Jose A. Alvarez, Khalid Ibrahim Amber, Tiziana Claudia Aranzulla, Julia Baron, Sukhdeep Singh Basra, Anthony A. Bavry, Patricia J. Best, Fabio S. Brito Jr., Christopher E. Buller, Warren J. Cantor, Ronald Caputo, Nicola Corvaja, Michael J. Cowley, Donald Cutlip, Steffen Desch

- 2:00 PM **TCT 1295: Percutaneous Intervention of Double Chronic Total Occlusions of the Left Circumflex and Right Coronary Arteries Using Anterograde and Retrograde Approach**  
Presenting Author: Chinmaya Mareddy
- 2:00 PM **TCT 1296: REWIPE Retrograde Wiring Into Antegrade Penetration Catheter technique for long RCA CTO lesion with ambiguous proximal cap and bifurcation distal cap**  
Presenting Author: Chun Hung Su
- 2:00 PM **TCT 1297: Overcoming deficiencies in 2 stent LMS bifurcation with optimum lesion preparation with rota shock technique**  
Presenting Author: Claire Raphael
- 2:00 PM **TCT 1298: Super balloon anchoring technique to facilitate guide extension catheter advancement**  
Presenting Author: Daria Feshenko
- 2:00 PM **TCT 1299: Chain reaction Endless nightmares**  
Presenting Author: Dhiman Banik
- 2:00 PM **TCT 1300: No decent native vessels poor lv in acute coronary syndrome presented as pulmonary oedema**  
Presenting Author: Dimitris Tsikaderis
- 2:00 PM **TCT 1301: Retrograde coronary intervention for chronic total occlusion via a Single distal radial artery**  
Presenting Author: Do hoi Kim
- 2:00 PM **TCT 1302: Antegrade PCI for left main ostial CTO**  
Presenting Author: Dong-Kie Kim
- 2:00 PM **TCT 1303: LM 1anomolous left main with 100 cardiogenic shock with CPR and Impella support she was with successful recovery and discharge home 2 8 year old transplant o left main with 90 3 14 year old male had cardiac arrest ressucitate have 90 left main hadLDL 450 xantoma and cholesteromas**

Presenting Author: Ibrahim Fahsah

- 2:00 PM **TCT 1304: Acute Right Coronary Artery Thrombosis Precipitating Severe Left Main Territory Ischemia**  
Presenting Author: Jignesh Patel
- 2:00 PM **TCT 1305: Calcium the enemy of PCI in elderly ACS patients**  
Presenting Author: Johann Auer
- 2:00 PM **TCT 1306: GIANT CORONARY ARTERY ANEURYSM AS A CAUSE OF ACUTE MYOCARDIAL INFARCTION HOW TO TREAT.**  
Presenting Author: eduardo bravo
- 2:00 PM **TCT 1307: Ectatic RCA treated by Stentys Self Apposing stent in the setting of ACS**  
Presenting Author: Mohammed Balghith
- 2:00 PM **TCT 1308: A Challenging Case Of Spontaneous Coronary Artery Dissection In A Male With Unstable Angina**  
Presenting Author: Prashanth Panduranga
- 2:00 PM **TCT 1309: A case of Rotational Atherectomy during Primary Angioplasty**  
Presenting Author: PRAVEEN PAI

2:00 PM - 3:30 PM

#### Coronary XV

Discussant: Peter Boekstegers, Leszek Bryniarski, Maurice Buchbinder, Debabrata Dash, Rajesh M. Dave, Larry S. Dean, Ranil De Silva, Walter Desmet, Suzanne de Waha-Thiele, Jose Guillermo Diez, John S. Douglas Jr, Ariel Duran, Ahmed Elghamaz, Mohamed Ali Elsalamony, Omer Goktekin, Dean J. Kereiakes

- 2:00 PM **TCT 1310: A HIDDEN OSTIALLEFT MAIN IN A PATIENT WITH RECURRENT LVF**  
Presenting Author: Puneet Gupta
- 2:00 PM **TCT 1311: Thrombus storm in leftmainbifurcation the nightmare is happening what should we do next**  
Presenting Author: QUAN NGUYEN MANH
- 2:00 PM **TCT 1312: Acute Coronary Syndrome in an Elderly Male Patient with Isolated Large Left Ventricular Hydatid Cyst Treated by PCI**  
Presenting Author: Raghuram Palaparti
- 2:00 PM **TCT 1313: FAILED CONSERVATIVE TREATMENT OF SPONTANEOUS CORONARY ARTERY DISSECTION**  
Presenting Author: Robert-Jan Van Geuns
- 2:00 PM **TCT 1314: Change of Bifurcation Strategy for a patient with unstable angina from V Stenting to mini crush.**  
Presenting Author: Rohit Mody
- 2:00 PM **TCT 1315: PHARMACOVASIVE APPROACH IN ACS WITH ACUTE THROMBOTIC OCCLUSION OF SVG LAD GRAFT A TOUGH ENEMY TO CONQUER**  
Presenting Author: Rutvik Trivedi
- 2:00 PM **TCT 1316: Acute Inferior STEMI with Cardiogenic Shock A new management algorithm**  
Presenting Author: Sanjeev Kumar Agarwal
- 2:00 PM **TCT 1317: Hyperkalemia The great mimicker.**  
Presenting Author: Sarfaraz Memon
- 2:00 PM **TCT 1318: PCI amp Stenting of LCA originating from Non Coronary Sinus**  
Presenting Author: Saurabh Mehrotra
- 2:00 PM **TCT 1319: Still inotropes and vassopressors can provide adequate hemodynamic support in high risk patients presenting with ACS tight left maincardiogenic shock.**

Presenting Author: Schivan Muhammed

- 2:00 PM **TCT 1320: RE Do PCI in ACS due to intracoronary hematoma**  
Presenting Author: Stefan Mot
- 2:00 PM **TCT 1321: Bifurcation PCI in Acute Coronary Syndrome a challenge for interventionalist**  
Presenting Author: surrender deora
- 2:00 PM **TCT 1322: Acute Non Dominant Right Coronary Artery Occlusion Presented as Anterior ST Elevation Myocardial Infarction**  
Presenting Author: Tanawan Riangwiwat
- 2:00 PM **TCT 1323: A rare case of profound isolated thrombocytopenia early after complex PCI on right and left main coronary artery.**  
Presenting Author: Tania Concetta Silvestri
- 2:00 PM **TCT 1324: Retrieval of two dislodged coronary stents from the ascending aorta with a snare loop**  
Presenting Author: MARIA-ERATO ZYMATOURA

2:00 PM - 3:30 PM

#### Coronary XVI

Discussant: Tarun Chakravarty, Christopher Cook, Nabil Dib, Liang Dong, Vladimir Dzavik, Mohamed Elsayed Elsetiha, Lampon Fan, Anton Farkas, Marc D. Feldman, Guosheng Fu, Arthur Garan, Christoph Dietrich Garlichs, Jorge Gaspar, Dietmar H. Glogar, Nieves Gonzalo, Diego D. Grinfeld, Ingibjorg J. Gudmundsdottir, Abdul Hakeem, Michalis Hamilos, Hosam Hasan

- 2:00 PM **TCT 1325: case presentation Dislodged Stent during bifurcation coronary stenting**  
Presenting Author: ahmed abdallah
- 2:00 PM **TCT 1326: AV fistula and early arterialization of the vein after a radial approach PCI**  
Presenting Author: Ali Elsharkawi
- 2:00 PM **TCT 1327: Post Myocardial Infarction Ventricular Septal Defect Closure**  
Presenting Author: ali Farooq
- 2:00 PM **TCT 1328: When things are not what they seem: Stent assisted coil embolization of an ostio proximal LAD coronary artery aneurysm with subsequent total occlusion of a tortuous ostial LCX after coil herniation**  
Presenting Author: Andre Lawrence Tojino
- 2:00 PM **TCT 1329: Management of calcified coronary perforation after LM Bifurcation PCI with Rota ablation**  
Presenting Author: Ankush Gupta
- 2:00 PM **TCT 1330: Emergent Distal Vessel Re entry Technique for Iatrogenic Coronary Artery Dissection**  
Presenting Author: Anthony Ea
- 2:00 PM **TCT 1331: Broken Undeatable and Stuck Stent Balloon**  
Presenting Author: ASHISH JHA
- 2:00 PM **TCT 1332: CASE WE NEARLY LOST SAVED BY STENT ABLATION**  
Presenting Author: ASHISH SINGHAL
- 2:00 PM **TCT 1333: The bifurcation that I will never forget**  
Presenting Author: Azzouz Abdelmalek
- 2:00 PM **TCT 1334: Learning Points of a Retrograde Percutaneous Coronary Intervention of a Chronic Total Occlusion with a Life Threatening Complication**  
Presenting Author: Judit Karacsonyi

- 2:00 PM **TCT 1335: Hanging by a Thread Successful Retrieval of a Completely Fractured Coronary Wire**  
Presenting Author: Kartik Kumar
- 2:00 PM **TCT 1336: Double Guiding Management for Coronary Perforation**  
Presenting Author: Kazumasa Fujita
- 2:00 PM **TCT 1337: How to Retrieve an Undeatable 5.0mm Balloon in the Left Main by Transradial Access Site: a Simple yet Effective Technique.**  
Presenting Author: Kenneth De Wilder
- 2:00 PM **TCT 1338: SANDWICH STENT AS AN ALTERNATIVE TO COVERED STENT**  
Presenting Author: Kesavamoorthy Bhoopalan
- 2:00 PM **TCT 1339: Radial First ..... Think Twice**  
Presenting Author: Khaled Mansour

2:00 PM - 3:30 PM

#### Coronary XVII

Discussant: Peter Barlis, Pravin K. Goel, Jincheng Guo, Colm Hanratty, Stefan Harb, Jose P.S. Henriques, Yutaka Hikichi, Jingbo Hou, Angela Hoye, Rongchong Huang, Thomas A. Ischinger, Dipti Itchhaporia, Adam Janas, Jun Jiang, Aaron V. Kaplan, Yoshiaki Kawase, David F. Kong, Bernardo Kremer Diniz Gonçalves, Joo Myung Lee

- 2:00 PM **TCT 1340: Successful Management Of Dislodged Stent In Distal Left Main**  
Presenting Author: Khatira Zaheen
- 2:00 PM **TCT 1341: A case with Kounis syndrome after Optical Coherence Tomography OCT with Dextran**  
Presenting Author: Kotaro Kagiya
- 2:00 PM **TCT 1342: Dislodged Left Main Coronary Artery Stent into Left Deep Femoral Artery**  
Presenting Author: Kulin Shah
- 2:00 PM **TCT 1343: Predicted Coronary Occlusion and Impella Bailout in Valve Transcatheter Aortic Valve Replacement: The Importance of Optimal Procedure Planning**  
Presenting Author: Luis Dallan
- 2:00 PM **TCT 1344: Successful use of ECMO CPR during PCI complicated with peri procedural dissection and heart arrest**  
Presenting Author: Luka Lipar
- 2:00 PM **TCT 1345: Acute in underexpanded stent thrombosis resulted in STEMI treated successfully with in stentrotablation**  
Presenting Author: Lukasz Tekieli
- 2:00 PM **TCT 1346: Delayed Consequences of Coronary Dissection Identified by OCT with IVUS Guided Management**  
Presenting Author: Luke Peters
- 2:00 PM **TCT 1347: An odd appearance in the middle of an ultra thin strut stent soon after deployment What is it and how do we manage**  
Presenting Author: Baskar Sekar
- 2:00 PM **TCT 1348: Exercise induced coronary spasm after everolimus eluting stent implantation**  
Presenting Author: Kais OUEGHY
- 2:00 PM **TCT 1349: LMS Left Main Stem bifurcation angioplasty memorable case**  
Presenting Author: Kumail Khan
- 2:00 PM **TCT 1350: Everolimus eluting Stent causing coronary artery aneurysm in 7 days 3D OCT findings and management**

Presenting Author: Prafull Sharma

2:00 PM **TCT 1351: Calcified LADD1 Bifurcation DK Crush to culotte technique**  
Presenting Author: PREETI SHARMA

2:00 PM **TCT 1352: OCT Guided Bifurcation Stenting to LMLAD and RAMUS**  
Presenting Author: SELVAMANI SETHURAMAN

2:00 PM **TCT 1353: Serial Angioscopic Evaluation of Arterial Repair After the Implantation of Drug Coated Stent at the Culprit of Acute Coronary Syndrome**  
Presenting Author: Shumpei Kosugi

2:00 PM **TCT 1354: A case of successful treatment for chronic total occlusion using the rendezvous technique with a single guiding catheter.**  
Presenting Author: Takahisa Tanaka

2:00 PM - 3:30 PM

#### Endovascular V

Discussant: Roberto Gandini, Jon George, Scott Geraghty, Karthik R. Gujja, Seiichi Hiramori, Matthew Koch, Sanjiv Lakhnani, Jun Nakazato, Alexander Nikanorov, Mahmood K. Razavi, Umar Sadat, Darren B. Schneider, Kazuo Shimamura, Akhilesh K. Sista

2:00 PM **TCT 1355: Transfemoral Transcatheter Aortic Valve Replacement in High risk Tortuous Aorta**  
Presenting Author: Jian Liang Tan

2:00 PM **TCT 1356: Staged Hybrid Transcatheter Thoracic Endovascular Aortic Repair TEVAR with Total Debranching of Supra aortic Trunks.**  
Presenting Author: Jonald Lucero

2:00 PM **TCT 1357: ENDOVASCULAR TREATMENT OF A CHRONIC OCCLUDED ABDOMINAL AORTA**  
Presenting Author: Jorge Bluguermann

2:00 PM **TCT 1358: A case of humongous Thoracic Aortic Aneurysm with chest wall Erosion and Impending Rupture managed successfully by Thoracic Endo Vascular Aneurysm Repair**  
Presenting Author: KESHAVAMURTHY G

2:00 PM **TCT 1359: Successful Percutaneous Trapping of an Anomalous Splenic Artery Aneurysm**  
Presenting Author: KUNAL MAHAJAN

2:00 PM **TCT 1360: Third Time is The Charm**  
Presenting Author: Maryna Popp

2:00 PM **TCT 1361: Bad Luck Comes in Threes. TAVI complicated by aortic dissection complete heart block and anterior myocardial infarct. A Case Report.**  
Presenting Author: Mena Salib

2:00 PM **TCT 1362: Pt presents with ascending aortic pseudoaneurysm between the origins of 2 SVG supplying the D and LCx both native CTO. Staged procedure. CTO recanalization of D and Lcx then ascending TEVAR covering SVGs with retrograde coiling of endoleak from SVG to OM**  
Presenting Author: Michael Rinaldi

2:00 PM **TCT 1363: Percutaneous closure of multiple subannular PA of aortic root following surgical aortic valve replacement**  
Presenting Author: Oleg Krestyaninov

2:00 PM **TCT 1364: TRAUMATIC FISTULA BETWEEN THE INNOMINATED VEIN AND THE AORTIC ARCH. NOT EVERYTHING IS CORONARY**

Presenting Author: Paulina Cisneros

2:00 PM **TCT 1365: Fully percutaneous aneurysm sac embolization in type 1B endoleak**

Presenting Author: RAMON RAMIREZ KOELLIKER

2:00 PM **TCT 1366: Correction of a Malpositioned Self Expanding Transcatheter Aortic Valve Replacement Using Snare Manoeuvre.**  
Presenting Author: uday ponangi

2:00 PM **TCT 1367: The Dynamic Evolution of Aortic Intramural Haematoma**  
Presenting Author: XUN YUAN

2:00 PM - 3:30 PM

#### Endovascular VI

Discussant: Venita Chandra, Costantino Del Giudice, Roger Gammon, Hugo F. Londero, Rahul S. Patel, Kenneth Rosenfield, Gary S. Roubin, Sergey P. Semitko, Kolja Sievert, Ernesto M. Torresani, Makoto Utsunomiya, Luis R. Virgen Carrillo, Mitchell Weinberg, John Winscott

2:00 PM **TCT 1368: Endovascular coil embolization treatment of a right coronary artery giant aneurysm**  
Presenting Author: Yoshio Kazuno

2:00 PM **TCT 1369: Challenging renal artery intervention perforation and timely escape**  
Presenting Author: Alok K. Ranjan

2:00 PM **TCT 1370: Never ending nightmare at femoral access site**  
Presenting Author: Bhuyan Chandra Tiwari

2:00 PM **TCT 1371: Unexpected use of Proglide in Aortic Arch**  
Presenting Author: daniela benedetto

2:00 PM **TCT 1372: Inadvertent large sheath deep in the proximal common carotid artery Successful removal using Proglide Closure Device**  
Presenting Author: Dimitrios Nikas

2:00 PM **TCT 1373: A Novel Subcutaneous Fat Tissue Embolisation Technique for Renal Hemorrhage Complications**  
Presenting Author: ERHAN TENEKECIOGLU

2:00 PM **TCT 1374: An unusual treatment of peripheral stent dislodgement**  
Presenting Author: Serkan Kahraman

2:00 PM **TCT 1375: Iatrogenic Radial Artery Perforation in Coronary Intervention**  
Presenting Author: Holly Morgan

2:00 PM **TCT 1376: Blood Thrombin Patch Repair of Ruptured Femoral Artery Pseudo Aneurysm**  
Presenting Author: Madhu K. Sreedharan

2:00 PM **TCT 1377: A simple thing can save the life**  
Presenting Author: Fazila-Tun-Nesa Malik

2:00 PM **TCT 1378: the extraction of the Pacing Lead Entrapped by a Eustachian valve**  
Presenting Author: Noriyuki Kawaura

2:00 PM **TCT 1379: Traumatic aorto atrial fistula due to peripheral stent migration.**  
Presenting Author: Sonal Pruthi

2:00 PM **TCT 1380: Bail out from brow out perforation in SFA without stentgraft**

2:00 PM - 3:30 PM

Endovascular VII

Discussant: Christopher J. Cooper, Beau Hawkins, Michel Camille Henry, J. Stephen Jenkins, Shingo Kaneko, Vishal Kapur, Zaza Kavteldaze, Lee Kirksey, Steven Kum, Charles Matouk, Matthew T. Menard, Peter P. Monteleone, Mitul Patel

- 2:00 PM TCT 1381: Temporary PM Implantation in Complete Atrioventricular Block That Led To Endotracheal Intubation
Presenting Author: Yuji Yamashita
2:00 PM TCT 1382: A long journey to save critical limb ischemia of right foot: Endovascular revascularization of both iliac right superficial femoral and anterior tibial arteries
Presenting Author: Taek-Geun Kwon
2:00 PM TCT 1383: A case report of pulmonary vein intervention for pulmonary vein stenosis after radiofrequency ablation for atrial fibrillation.
Presenting Author: TATSUNORI IKEDA
2:00 PM TCT 1384: Three cases of May Thurner syndrome successfully treated by intravascular ultrasound IVUS guided balloon angioplasty and catheter directed thrombolysis through the popliteal vein.
Presenting Author: Tsubasa NODA
2:00 PM TCT 1385: Catheter directed thrombolysis for management of lower extremity acute limb ischemia four days after intracranial hemorrhage
Presenting Author: Valentina Jaramillo
2:00 PM TCT 1386: Sirolimus Eluting BioResorbable Peripheral Scaffold System in Patient With Chronic Kidney Disease and Hypertension
Presenting Author: Vimal Someshwar
2:00 PM TCT 1387: Phlegmasia Cerulea Dolens Secondary to May Turner Syndrome
Presenting Author: Wai Kin Chi
2:00 PM TCT 1388: Successful catheter directed thrombolysis of massive bilateral upper extremity DVT presenting as SVC syndrome
Presenting Author: Dominika Zoltowska
2:00 PM TCT 1389: A case with Leriche syndrome popliteal artery occlusion and chronic venous ulcers Which lesions and when should we treat
Presenting Author: Yuki Matsubara
2:00 PM TCT 1390: CLI after Femoropopliteal Bypass: Endovascular Approach
Presenting Author: Yulanka Castro-Dominguez

2:00 PM - 3:30 PM

Coronary XIX

Discussant: Rabin dra Nath Chakraborty, Jeff Chambers, Kam-Tim Chan, Aakriti Gupta, Martin Hudec, Yuetsu Kikuta, Michael C. C. Kim, Spencer B. King III, Lloyd W. Klein, Sampath Kumar, Amir Lotfi, Matthias Lutz, Nish Patel

- 2:00 PM TCT 1391: The tell tale heart: invasive coronary angiography on normothermic ex vivo perfusion
Presenting Author: Pankaj Jain
2:00 PM TCT 1392: An Unusual case of Severe LVSD Secondary to Spontaneous Dissection in both LAD and RCA in a 29 year old man detected due to CKD

- 2:00 PM TCT 1393: Snowman has come
Presenting Author: Koki Sogame
2:00 PM TCT 1394: Importance of Integrating Coronary Anatomy and Physiology
Presenting Author: Ahmed El Amrawy
2:00 PM TCT 1395: The dPRFFR evaluation case for the Coronary artery Pulmonary artery fistula CAPA fistula who had been suspected as STEMI at first.
Presenting Author: Kyosuke Furuhashi
2:00 PM TCT 1396: A Novel Assessment of Iliac Stenosis in Patients with Anomalous Coronary Arteries
Presenting Author: Lerin McCray
2:00 PM TCT 1397: Use of intracoronary electrocardiogram for identification of the culprit artery in asymptomatic myocardial infarction
Presenting Author: MASAFUMI NAKAYAMA

2:00 PM - 3:30 PM

Structural VII

Discussant: John P. Breinholt, Ralph G. Brindis, Quang T. Bui, Eduardo De Marchena, Robbert J. De Winter, Cameron Dowling, Makram R. Ebeid, Marvin H. Eng, Francisco Fernandez-Aviles, Craig E. Fleishman, Jason Foerst, Christian Frerker

- 2:00 PM TCT 1398: Alcohol Ablation of Extra cardiac Thoracic Tumor
Presenting Author: Nikoloz Shekiladze
2:00 PM TCT 1399: Novel Vascular Access for Percutaneous Transluminal Septal Myocardial Ablation: Case report of Two Patients with Drug refractory Hypertrophic Obstructive Cardiomyopathy Treated Through Bilateral Distal Radial Artery
Presenting Author: Yukio Mizuguchi
2:00 PM TCT 1400: Surgical Explant of TAVR Valves
Presenting Author: James Edelman
2:00 PM TCT 1401: Redo Mitral Valve Surgery after Transcatheter Mitral Valve Replacement for Infective Endocarditis
Presenting Author: Philipp Kiefer
2:00 PM TCT 1402: Third Times the Challenge: Transcatheter mitral valve in valve implantation valve after bioprosthetic mitral valve deterioration
Presenting Author: Pouyan Arman
2:00 PM TCT 1403: CoreValve compression due to exteme Aortic Valve Calcification
Presenting Author: John Ko
2:00 PM TCT 1404: How to cross the valve with Evolut R when the aortic to Prosthetic valve angle is prohibitive and all conventional tricks failed
Presenting Author: Edo Kaluski
2:00 PM TCT 1405: Simultaneous High Risk Multi Vessel Percutaneous Coronary Intervention and Per Axillary Transcatheter Aortic Valve Implantation: Its All About Planning
Presenting Author: Abdalla Hassan
2:00 PM TCT 1406: Balloon Valve Expansion for the Treatment of Paravalvular Regurgitation
Presenting Author: Adib Chaus
2:00 PM TCT 1407: Uncomplicated Balloon Aortic Valvuloplasty in a Patient with Severe Aortic Stenosis and Left Ventricular Thrombus Using Cerebral Embolic Protection Devices



2:00 PM **TCT 1408: Percutaneous closure of Aorto Right Ventricular Fistula and Paravalvular leak after Transcatheter Aortic Valve Implantation**

Presenting Author: Ahmed Alabbady

2:00 PM **TCT 1409: A tailored approach to Valve in Valve.**

Presenting Author: Alessandra Laricchia

2:00 PM - 3:30 PM

### Structural VIII

Discussant: Oluseun Alli, Khalid Ibrahim Amber, Robert J. Applegate, Michael Argenziano, Jorge A. Belardi, Stefan C. Bertog, Giuseppe Biondi-Zoccai, Y. S. Chandrashekar, G. Michael Deeb, Gilles Dreyfus, Mohamed Mohamed Elmaraghi, Marek Grygier, Vivek Gupta

2:00 PM **TCT 1410: Severe Aortic Insufficiency and a Ventricular Septal Defect as a Result of Endocarditis Treated with Valve in Valve TAVR and Ventricular Septal Defect Closure**

Presenting Author: Alina Brener

2:00 PM **TCT 1411: TAVR in TAVR in a surgically replaced aortic valve with a homograft.**

Presenting Author: Fady Marmoush

2:00 PM **TCT 1412: Catastrophic complication of intraprosthetic regurgitation during transcatheter aortic valve implantation**

Presenting Author: Yoshiki Matsuo

2:00 PM **TCT 1413: BILATERAL TRANSRADIAL AORTIC VALVULOPLASTY WITH DOUBLE ANGIOPLASTY BALLOON OUR FIRST EXPERIENCE.**

Presenting Author: Fernando Gómez Peña

2:00 PM **TCT 1414: Transcatheter Aortic Valve Replacement via the Common Carotid Artery A Case Series**

Presenting Author: Giorgio Medranda

2:00 PM **TCT 1415: First Transcaval Transcatheter Aortic Valve Replacement using 14F Axela Sheath and a 26mm Sapien Ultra Valve**

Presenting Author: Hector Alvarez

2:00 PM **TCT 1416: A new era for minimally calcified aortic valves First in human use of the transcatheter Centera valve in pure aortic regurgitation.**

Presenting Author: Hector Alvarez

2:00 PM **TCT 1417: Coronary artery obstruction caused by contained annulus rupture after transcatheter aortic valve replacement**

Presenting Author: Hirofumi Hioki

2:00 PM **TCT 1418: Unorthodox and Unnering A Challenging Para Valvular Leak Closure**

Presenting Author: Imran BAIG

2:00 PM **TCT 1419: When Access is the Issue: Transaxillary Approach for TAVR in a Patient with Peripheral Artery Disease**

Presenting Author: Jacob Grand

2:00 PM **TCT 1420: Challenging transcatheter aortic valve implantation with Myval balloon expandable transcatheter heart valve in a patient with severely calcified bicuspid aortic valve and severe aortic stenosis**

Presenting Author: John E. Jose

2:00 PM **TCT 1421: Stent stabilizing technique for a transcatheter heart valve embolized in the aortic arch.**

## POSTERS ABSTRACTS II

### Posters Abstracts II

Coronary: CHIP Coronary: CoreStructural: Valve

FRIDAY, SEPTEMBER 27, 2019

9:15 AM - 10:45 AM

Hall D, Exhibition Level, Moscone South

9:15 AM - 10:45 AM

### Coronary VIII

Discussant: Mohamed Ali Elsalamony, Mohamed Elsayed Elsetiha, Mohammad El Tahlawi, Spencer B. King III, Ganesan R. Nambirajan, Massimo Napodano, Nish Patel, Marcello Sena

9:15 AM **TCT 924: Abbreviation of Eptifibatid Therapy Improves Safety in STEMI Patients Undergoing Primary Percutaneous Coronary Intervention**

Presenting Author: Florian Fischer

9:15 AM **TCT 925: Hourly Weekly and Annual Variation of Incidence of Myocardial Infarction and Cardiogenic Shock in Central Europe. Results From Multicenter Registry.**

Presenting Author: Bartlomiej Gora

9:15 AM **TCT 926: Association Between Renal Function Impairment and Multivessel Involvement in Patients With Acute ST Elevation Myocardial Infarction**

Presenting Author: How-Ran Guo

9:15 AM **TCT 927: Association Between Duration of Beta blocker Therapy and Clinical Outcomes in Acute Myocardial Infarction Patients Without Heart Failure**

Presenting Author: Joo-Yong Hahn

9:15 AM **TCT 928: The Relationship between Culprit Lesions Morphology and Low Density Lipoprotein Cholesterol Levels in the Very Elderly Patients with ST Segment Elevation Myocardial Infarction**

Presenting Author: Yoshikuni Kobayashi

9:15 AM **TCT 929: Aborted myocardial Infarction in patients with STEMI treated Percutaneous Coronary Interventions**

Presenting Author: Łukasz Konarski

9:15 AM - 10:45 AM

### Coronary IX

Discussant: Nabil Farag, Anton Farkas, Marc D. Feldman, Hans R. Figulla, Joo Myung Lee, Edward J. McNulty, Toshiya Muramatsu

9:15 AM **TCT 930: Role of simultaneous positron emission tomography magnetic resonance imaging to detect viable myocardium after acute myocardial infarction**

Presenting Author: Jung-Hee Lee

9:15 AM **TCT 931: Non ST Elevation Myocardial Infarction in Hospitalized Patients With Atrial Fibrillation**

Presenting Author: Pengyang Li

9:15 AM **TCT 932: Recognized Sleep Apnea Patients Have Lower Hospital Mortality When Admitted For Acute Myocardial Infarction Compared To Patients Without Sleep Apnea Across US Hospitals**



Presenting Author: Muhammad Waqar Liaqat

- 9:15 AM **TCT 933: Impact of Extremely Low Wall Shear Stress in Coronary Aneurysm in Patients With ST Segment Elevation Myocardial Infarction in Comparison With Normal Coronary Arteries**  
Presenting Author: Yosuke Miyazaki
- 9:15 AM **TCT 934: Advanced Age and Myocardial Injury in ST segment Elevation Myocardial Infarction: a Cardiac Magnetic Resonance Imaging Study**  
Presenting Author: Ik Hyun Park
- 9:15 AM **TCT 935: Intracoronary Tirofiban Delivered by Controlled Flow Infusion: Marked Reduction of Microvascular Obstruction in a Porcine STEMI Model**  
Presenting Author: Robert S. Schwartz

9:15 AM - 10:45 AM

#### Coronary X

Discussant: Christoph Dietrich Garlichs, Jorge Gaspar, Robert J. Gil, Jun Jiang, Yader Sandoval, Ricardo Sanz-Ruiz

- 9:15 AM **TCT 936: MOCA I Study Microvascular obstruction treatment efficacy measured using dynamic Microvascular Resistance dMVR**  
Presenting Author: Marco Valgimigli
- 9:15 AM **TCT 937: Temporal pattern of neutrophil to lymphocyte ratio in patients with ST elevation myocardial infarction undergoing primary percutaneous coronary intervention**  
Presenting Author: Marco V. Wainstein
- 9:15 AM **TCT 938: Cut the Crap Calcium: We have the app An Education Mobile Application to Learn Tactics of Dealing with Calcified and Undilatable Lesions.**  
Presenting Author: Samit Bhatheja
- 9:15 AM **TCT 939: Mesh Covered Stent Versus DES Implantation in Diseased Saphenous Vein Graft: Comparative Analysis of Short Term Complications**  
Presenting Author: Carlos Cafri
- 9:15 AM **TCT 940: Relative impact of clinical and procedural characteristics on clinical outcomes after Percutaneous Coronary Intervention.**  
Presenting Author: Jeehoon Kang
- 9:15 AM **TCT 941: MAPT Mono Antiplatelet Therapy as regular regimen after Cobra PzF NanoCoated Coronary Stent NCS implantation**  
Presenting Author: Luc Maillard

9:15 AM - 10:45 AM

#### Coronary XI

Discussant: Diego D. Grinfeld, Aakriti Gupta, Thomas A. Ischinger, Neal S. Kleiman, Hidetaka Nishina, Ramesh Singh

- 9:15 AM **TCT 942: Early procedural results and outcomes after chronic total occlusion angioplasty: experience of a treatment program**  
Presenting Author: Vera Marinho
- 9:15 AM **TCT 943: Short term clinical outcomes of percutaneous coronary intervention of unprotected left main coronary disease in cardiogenic shock**  
Presenting Author: Hernan Mejia-Renteria
- 9:15 AM **TCT 944: Excimer Laser Coronary Angioplasty for Stent Underexpansion: Single Center Experience and Outcomes**  
Presenting Author: John Nan

- 9:15 AM **TCT 945: 30 day Readmission Following Revascularization in Patients With Chronic Total Occlusion of Coronary Arteries Presenting With Angina: Insight From Nationwide Readmission Database**  
Presenting Author: Neel Patel

- 9:15 AM **TCT 946: 30 Day and 1 Year Outpatient PCI Outcomes after Same Day Discharge: A Retrospective Single Center VA Experience**  
Presenting Author: Sanket Gokhale

- 9:15 AM **TCT 947: Clinical outcomes at 3 years of the Absorb bioresorbable vascular scaffold versus the Xience drug eluting metallic stent in diabetic or non diabetic patients in routine PCI AIDA trial sub study.**  
Presenting Author: Ruben Tijssen

9:15 AM - 10:45 AM

#### Coronary XII

Discussant: Lloyd W. Klein, Shahar Lavi, Abdullah Al Shafi Majumder, Carlos E. Uribe, Zhao Wang, Jennifer Yu

- 9:15 AM **TCT 948: Treatment of Very Small De Novo Coronary Artery Disease With 2.25 mm Novel Sirolimus Eluting Stent with fusion coating technology**  
Presenting Author: Luca Testa
- 9:15 AM **TCT 949: Causes and predictors of 6 month readmission rate after drug eluting stent in the contemporary era A nationwide analysis**  
Presenting Author: Syed Zaid
- 9:15 AM **TCT 950: Efficacy and Safety of the Bioabsorbable Polymer coated Everolimus eluting coronary stents in Routine Clinical Practice: Data from the IRIS DES Registry**  
Presenting Author: Yujin Yang
- 9:15 AM **TCT 968: Cancer diagnosis in patients undergoing percutaneous coronary intervention**  
Presenting Author: KENJI KANENAWA
- 9:15 AM **TCT 969: Prediction Model for Clinically Relevant Diagonal Branches Based on Anatomical Attributes**  
Presenting Author: Seokhun Yang
- 9:15 AM **TCT 970: Factors Affecting Serum Midkine as an Early Predictor of Contrast Induced Acute Kidney Injury in Acute Coronary Syndrome Patients Undergoing Percutaneous Coronary Interventions**  
Presenting Author: Mohamed Ahmed

9:15 AM - 10:45 AM

#### Coronary XIII

Discussant: Shams Munwar, Shigeru Nakamura, Eugenia Nikolsky, Alexander Grigorievich Osiev, George J. Vlachoianis, Alexandre C. Zago

- 9:15 AM **TCT 971: Zero Contrast Percutaneous Coronary Interventions for Protection of Kidney Function in Patients With Severe Renal Impairment and Hemodialysis Subjects With Residual Diuresis**  
Presenting Author: Jerzy Sacha
- 9:15 AM **TCT 972: Integrating Residual SYNTAX Score to Improve the Predictive Ability of the Age Creatinine and Ejection Fraction ACEF Score for Cardiac Mortality in Percutaneous Coronary Intervention Patients**  
Presenting Author: Guofeng Gao
- 9:15 AM **TCT 973: Postprocedural Radial Artery Compression Time In ChronicAnticoagulated patientsusing StatSeal: The PRACTICAL SEAL FeasibilityStudy**

Presenting Author: Rodrigo Bagur

9:15 AM **TCT 975: Distal Transradial Approach for Primary Percutaneous Coronary Intervention for Patients With Acute Myocardial Infarction: A Multicentre Study**

Presenting Author: Takeshi Yamada

9:15 AM **TCT 976: Relationship Between Sclerostin and Coronary Tortuosity in Postmenopausal Females With Non Obstructive Coronary Artery Disease**

Presenting Author: El Sayed Farag

9:15 AM - 10:45 AM

#### Coronary XIV

Discussant: Akram W. Ibrahim, Jan J. Piek, Alfredo E. Rodriguez, Joao Brum Silveira, Glenn Van Langenhove, Mark W.I. Webster

9:15 AM **TCT 977: Regional disparities in hospitalization rates for ischemic heart diseases in women between the south and southeast regions of Brazil from 2013 to 2018.**

Presenting Author: Marcelo Puzzi

9:15 AM **TCT 952: The Role of In Silico Coronary Arterial Vessel Reconstruction in Determining the Accuracy of Virtual Diagnostic Workflows for Coronary Artery Disease**

Presenting Author: Roshni Solanki

9:15 AM **TCT 953: Reinforcement learning for guidewire navigation in coronary phantom**

Presenting Author: Kyoseok Song

9:15 AM **TCT 954: Impact of Myocardial Bridge on Late Lumen Enlargement in Distal Reference Segments After Recanalization of Chronic Total Occlusion in Left Anterior Descending Artery**

Presenting Author: yoshiyuki okuya

9:15 AM **TCT 955: Coronary Artery Aneurysms Caused by Atherosclerosis or Kawasaki Disease have Different Characteristics by Intravascular Ultrasound and Fractional Flow Reserve**

Presenting Author: Sherif Rizk

9:15 AM **TCT 956: Angiography alone versus angiography plus intracoronary imaging to guide percutaneous coronary intervention: Outcomes from Wakayama Multicenter PCI registry.**

Presenting Author: Kunihiko Shimamura

9:15 AM - 10:45 AM

#### Coronary XV

Discussant: Hadi Abu-Hantash, Nima Aghili, H. Vernon Anderson, Dimitrios Bliagos, Sonya Burgess, Pavel Cervinka, Riccardo Colantonio

9:15 AM **TCT 957: A Comparison of Cardiac Allograft Vasculopathy Plaque Burden Measured by Optical Coherence Tomography and Intravascular Ultrasound: A Potential for Early Diagnosis**

Presenting Author: Sean Smith

9:15 AM **TCT 958: Prognostic Evaluation of Point Of Care Lung Ultrasound and Left Ventricle End Diastolic Pressure in Patients With ST Segment Elevation Myocardial Infarction Submitted to Coronary Angiography**

Presenting Author: Rafael Coimbra Ferreira

9:15 AM **TCT 960: Comparison of Coronary Artery Dimensions Between Asian and Caucasian Subjects Who are Free From Coronary Artery Disease CAD.**

Presenting Author: Jarostaw Skowronski

9:15 AM **TCT 961: Feasibility of Morphological Assessment of Coronary Artery Calcium with Electrocardiogram gated Non contrast Computed Tomography: A Comparative Study with Optical Coherence Tomography**

Presenting Author: Yu Takahashi

9:15 AM **TCT 962: Influence of Side Branches in Computational Fractional Flow Reserve derived from Intravascular Ultrasound**

Presenting Author: Cristiano Guedes Bezerra

9:15 AM **TCT 963: Feasibility and Correlation of Angiogram Derived Vessel Fractional Flow Reserve in a Population Undergoing Percutaneous Coronary Intervention**

Presenting Author: Patricia Ely Pizzato

9:15 AM - 10:45 AM

#### Coronary XVI

Discussant: Anvar Babaev, Gregory Barsness, Theodore A. Bass, Ivo Bernat, Salvatore Brugaletta, Jeff Chambers

9:15 AM **TCT 964: Investigation of the Effect of Age on Instantaneous Wave Free Ratio in Patients with Intermediate Epicardial Artery Disease**

Presenting Author: Yasunori Inoue

9:15 AM **TCT 965: Usefulness of the trans stent fractional flow reserve gradient for predicting clinical outcomes after drug eluting stent implantation.**

Presenting Author: Hyoung-Mo Yang

9:15 AM **TCT 966: Inadequate dosage of intracoronary adenosine predicted higher adverse cardiovascular events**

Presenting Author: Po-Lin Lin

9:15 AM **TCT 967: The Utility of iFR for Predictor of MACE in Stable Angina Pectoris**

Presenting Author: Nao Yasuda

9:15 AM - 10:45 AM

#### Coronary and Structural I

Discussant: Alejandro Cherro, Matthew J. Daniels, Eduardo De Marchena, Robbert J. De Winter, Cameron Dowling, Christophe Dubois, Karel T. Koch, Heitor Medeiros

9:15 AM **TCT 951: Unique computational visualization of a vessel manipulation during large bore transcatheter insertions viewed in virtual reality**

Presenting Author: Mikayle Holm

9:15 AM **TCT 959: Cardiovascular Magnetic Resonance CMR Predictors of Clinical Outcomes in Patients with Hypertrophic Cardiomyopathy**

Presenting Author: bhishma chowdary

9:15 AM **TCT 978: Transcatheter Aortic Valve Implantation for Failing Surgical Aortic Valves: A Single Center Experience**

Presenting Author: Riyad Kherallah

9:15 AM **TCT 979: Acute Changes in Left Ventricular Cardiac Mechanics post Transcatheter Aortic Valve Replacement by Speckle Tracking Echocardiography**

Presenting Author: Stamatios Lerakis

9:15 AM **TCT 980: Coronary Hemodynamics Improvement due to Left Ventricular Reverse Remodeling after Transcatheter Aortic Valve Replacement**

Presenting Author: Kazuki Mizutani

9:15 AM **TCT 981: Distribution of coronary artery disease in patients with low risk transcatheter aortic valve replacement: A computed tomography coronary angiography study from the LRT trial**

9:15 AM - 10:45 AM

**Structural V**

Discussant: Makram R. Ebeid, Karim El Chilali, Mohamed Mohamed Elmaraghi, Mohammad El Tahlawi, Marvin H. Eng, Giovanni Esposito

- 9:15 AM **TCT 982: Structural Analysis of Transcatheter Aortic Valve Replacement in Bicuspid Aortic Valves**  
*Presenting Author: Dong Qiu*
- 9:15 AM **TCT 983: Pre Dilatation Balloon Aortic Valvuloplasty vs. Direct Implantation in Patients Undergoing TAVR: A Meta Analysis**  
*Presenting Author: Shiv Raj*
- 9:15 AM **TCT 984: Combination of Preoperative Frailty Status and Cardiac Biomarkers for Improving Risk Stratification in TAVR**  
*Presenting Author: Francisco José Romeo*
- 9:15 AM **TCT 985: Incidence Predictors and Outcomes of Periprocedural Stroke in Patients Undergoing TAVR: Report from National Inpatient Sample.**  
*Presenting Author: Syed Moinuddin*
- 9:15 AM **TCT 986: Comprehensive Geriatric Assessment CGA for Predicting 1 Year Outcomes in Patients Undergoing Transcatheter Aortic Valve Implantation TAVI Results From the CGA TAVI Multicentre Registry**  
*Presenting Author: M.S. van Mourik*
- 9:15 AM **TCT 987: National Trends in Transcatheter Aortic Valve Replacement in Cardiogenic Shock Patients**  
*Presenting Author: Logan Vincent*
- 9:15 AM **TCT 988: The Effect of Prior Percutaneous Coronary Intervention on Pulmonary Artery Systolic Pressure and Ejection Fraction After Transcatheter Aortic Valve Replacement**  
*Presenting Author: Cecilia Wong*

9:15 AM - 10:45 AM

**Structural VI**

Discussant: Nabil Farag, Craig E. Fleishman, Christian Frerker, George Gellert, James A. Goldstein, Diego D. Grinfeld, Matthias Götzberg

- 9:15 AM **TCT 989: In hospital Outcomes of Transcatheter Aortic Valve Replacement in Patients with Atrial Fibrillation: Nationwide Database Analysis**  
*Presenting Author: FANGCHENG WU*
- 9:15 AM **TCT 990: Incidence Clinical Correlates Timing of Occurrence and Consequences of Acute Thrombus Formation in Patients Undergoing The MitraClip Procedure**  
*Presenting Author: Jerzy Pregowski*
- 9:15 AM **TCT 991: Transcatheter Mitral Valve Position Affects Risk of Valve Thrombosis Following TMVR Procedure**  
*Presenting Author: Saba Ravaghi*
- 9:15 AM **TCT 992: Quantifying Mitral Annular Calcification MAC for Patient Predictive Modeling in the Era of Transcatheter Mitral Valve Replacement TMVR Therapies**  
*Presenting Author: Gilbert H.L. Tang*
- 9:15 AM **TCT 993: Isolated Tricuspid Valve Repair Using MitraClip for Functional Tricuspid Regurgitation in High Surgical Risk Patients**  
*Presenting Author: Marissa Donatelle*

9:15 AM **TCT 994: Transcatheter Treatment of Severe Tricuspid Regurgitation: First Experiences With the Edge to Edge Technique Using the MitraClip**  
*Presenting Author: Sylvia Otto*

9:15 AM **TCT 995: Novel Bioresorbable Closure Device with Biological Scaffold Seal**  
*Presenting Author: David Reuter, MD*

## PHYSIOLOGY SIMPLIFIED: A HANDS-ON RFR SKILLS LAB

### Physiology Simplified: A Hands-On RFR Skills Lab

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 9:30 AM  
Training Pavilion, Hall F

8:00 AM - 8:15 AM

**Didactic Session**

*Training Pavilion Faculty: Kevin J. Croce, Vamsi Krishna, Bruce Samuels, R. Jay Widmer*

8:15 AM - 9:30 AM

**Hands-On Activity Guided by Five Case Scenarios: Utilizing a Wet Model to Perform RFR and FFR**

*Training Pavilion Faculty: Kevin J. Croce, Vamsi Krishna, Bruce Samuels, R. Jay Widmer*

## NOW THAT I SEE IT, I KNOW HOW TO TREAT IT! A HANDS-ON OCT SKILLS LAB

### Now That I See It, I Know How To Treat It! A Hands-On OCT Skills Lab

FRIDAY, SEPTEMBER 27, 2019

10:00 AM - 11:30 AM  
Training Pavilion, Hall F

10:00 AM - 10:20 AM

**OCT: Now That I See It - Presentation**

*Training Pavilion Faculty: Hiram G. Bezerra, Michael Chan, Bassem Chehab, Kevin J. Croce, Matheen Khuddas, Aziz Maksoud, Emile Mehanna, Bimal Padaliya, Richard Shlofmitz, Gabriel Tensol, Catalin Toma, Armando Vergara-Martel*

10:20 AM - 11:30 AM

**Hands-On Sessions**

*Training Pavilion Faculty: Hiram G. Bezerra, Michael Chan, Bassem Chehab, Kevin J. Croce, Matheen Khuddas, Aziz Maksoud, Emile Mehanna, Bimal Padaliya, Richard Shlofmitz, Gabriel Tensol, Catalin Toma, Armando Vergara-Martel*

10:20 AM **Virtual Reality Interactive OCT Session**

10:20 AM OCT Workstation Measurements Assessments and Procedure Planning  
10:20 AM Image Acquisition With a Wet Model Practice

## THE IMPACT OF DESIGN ON CORONARY GUIDEWIRE PERFORMANCE: A HANDS-ON EXPERIENCE

### The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience

FRIDAY, SEPTEMBER 27, 2019  
12:00 PM - 1:30 PM  
Training Pavilion, Hall F

12:00 PM - 1:30 PM  
**The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience**  
*Training Pavilion Faculty: Andrea Gagnor, Jack Hall, Amir Kaki, Robert F. Riley, Jason Wollmuth*

12:00 PM **Introduction**  
12:05 PM **Didactic on Guidewire Building Blocks and WH wires**  
12:15 PM **Hands on Workhorse Wires Activity**  
12:30 PM **Polymer Jacketed Wires Overview and Hands on Activity**  
12:50 PM **Extra Support Specialty wires Overview and Hands on Activity**  
1:10 PM **TurnTrac Wire Overview and Hands on Activity**

## PHYSIOLOGY SIMPLIFIED: A HANDS-ON RFR SKILLS LAB

### Physiology Simplified: A Hands-On RFR Skills Lab

FRIDAY, SEPTEMBER 27, 2019  
2:00 PM - 3:30 PM  
Training Pavilion, Hall F

2:00 PM - 2:15 PM  
**Didactic Session**  
*Training Pavilion Faculty: Ziad A. Ali, Kevin J. Croce, Allen Jeremias, Vamsi Krishna, R. Jay Widmer*

2:15 PM - 3:30 PM  
**Hands-On Activity Guided by Five Case Scenarios: Utilizing a Wet Model to Perform RFR and FFR**  
*Training Pavilion Faculty: Ziad A. Ali, Kevin J. Croce, Allen Jeremias, Vamsi Krishna, R. Jay Widmer*

## LARGE-BORE ACCESS TO CLOSE: WHAT YOU WANT (AND NEED) TO KNOW

### Large-Bore Access To Close: What You Want (and Need) To Know

FRIDAY, SEPTEMBER 27, 2019  
4:00 PM - 5:30 PM  
Training Pavilion, Hall F

4:00 PM - 4:20 PM  
**Introduction - Access Planning and Management Complications Review**  
*Training Pavilion Faculty: Adhir Shroff, Rajiv Tayal*

4:20 PM - 5:30 PM  
**Hands-On Device Deployment**  
*Training Pavilion Faculty: Adhir Shroff, Rajiv Tayal*

## ROTAPRO™ FOR PLAQUE MODIFICATION AND VESSEL PREP

### ROTAPRO™ for Plaque Modification and Vessel Prep

FRIDAY, SEPTEMBER 27, 2019  
8:00 AM - 9:30 AM  
Training Pavilion, Hall F

8:00 AM - 9:30 AM  
**ROTAPRO™ for Plaque Modification and Vessel Prep**  
*Training Pavilion Faculty: Ramy Badawi, Sanjog Kalra*

8:00 AM **Introduction**  
8:05 AM **ROTAPRO Rotational Atherectomy System 25 Years of Proven Clinical Safety and Efficacy**  
8:35 AM **Hands On Rotations**

## COMPLEX LESION ALGORITHMIC APPROACH: PROVEN DEVICES AND NEW APPLICATIONS

### Complex Lesion Algorithmic Approach: Proven Devices and New Applications

FRIDAY, SEPTEMBER 27, 2019  
10:00 AM - 11:30 AM  
Training Pavilion, Hall F

10:00 AM - 11:30 AM  
**Complex Lesion Algorithmic Approach: Proven Devices and New Applications**

10:00 AM **Introduction**  
10:05 AM **Complex Lesion Algorithmic Approach: Proven Devices New Applications**  
10:35 AM **Hands On Rotations**

## TRANSSEPTAL HANDS-ON TRAINING PROGRAM

### Transseptal Hands-On Training Program

FRIDAY, SEPTEMBER 27, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 1:30 PM

**Transseptal Hands-On Training Program**

*Training Pavilion Faculty: Paul D. Mahoney*

12:00 PM **Introduction**

12:05 PM **Video Tutorials**

12:20 PM **Step by Step Transseptal Technique Interventional Tools and Complication Management**

12:40 PM **Hands On Rotations**

## ADVANCED TECHNIQUES FOR LAAC PROGRAMS

### Advanced Techniques for LAAC Programs

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

**Advanced Techniques for LAAC Programs**

*Training Pavilion Faculty: Mohamad Adnan Alkhoul*

2:00 PM **Introduction**

2:05 PM **DataProcedural Overview**

2:35 PM **Case Reviews Workflow Examples**

## TRANSSEPTAL HANDS-ON TRAINING PROGRAM

### Transseptal Hands-On Training Program

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

**Transseptal Hands-On Training Program**

*Training Pavilion Faculty: Paul D. Mahoney*

4:00 PM **Introduction**

4:05 PM **Video Tutorials**

4:20 PM **Step by Step Transseptal Technique Interventional Tools and Complication Management**

4:40 PM **Hands On Rotations**

## WHO IS MY POTENTIAL RDN CANDIDATE? INTERACTIVE DISCUSSION ON RDN CANDIDATE SELECTION

### Who is my Potential RDN Candidate? Interactive Discussion on RDN Candidate Selection

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

**Who is my Potential RDN Candidate? Interactive Discussion on RDN Candidate Selection**

*Training Pavilion Faculty: Chandan Devireddy, Ying-Hsiang Lee, Andrew Sharp, Michael A. Weber, Joachim Weil*

8:00 AM **Welcome Session Objectives**

8:10 AM **Patient 1: Renal Denervation as the First Option**

8:25 AM **Patient 2: Renal Denervation After 1 2 Agents Have Been Tried**

8:40 AM **Patient 3: trHTN is the Ideal Renal Denervation Patient Profile**

8:55 AM **Real World Application: Taiwan Experience**

9:05 AM **Panel Discussion Global Views on Patient Selection**

9:15 AM **Patient Preference and Bringing it All Together**

## OPTIMIZING OUTCOMES IN PATIENTS WITH BIFURCATION LESIONS

### Optimizing Outcomes in Patients with Bifurcation Lesions

FRIDAY, SEPTEMBER 27, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

**Optimizing Outcomes in Patients with Bifurcation Lesions**

Training Pavilion Faculty: Francesco Burzotta, David Hildick-Smith, Jens Flensted Lassen, Goran Stankovic

- 10:00 AM Introduction
- 10:05 AM Bifurcation Techniques with Integrated Visible Heart Laboratories Footage
- 10:45 AM Hands On Simulation

## ONYX ONE: IS THERE AN IDEAL APPROACH TO PCI IN THE PATIENT AT HIGH RISK OF BLEEDING?

### Onyx One: Is There an Ideal Approach to PCI in the Patient at High Risk of Bleeding?

FRIDAY, SEPTEMBER 27, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 1:30 PM

**Onyx One: Is There an Ideal Approach to PCI in the Patient at High Risk of Bleeding?**

Training Pavilion Faculty: Elvin Kedhi, Roxana Mehran, Daniel I. Simon, Stephan Windecker

## TAVR IN BICUSPID AORTIC VALVES

### TAVR in Bicuspid Aortic Valves

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

**TAVR in Bicuspid Aortic Valves**

Training Pavilion Faculty: John K. Forrest

- 2:00 PM Introduction
- 2:05 PM Overview Identification Sizing and Classification of Bicuspid Aortic Valves
- 2:30 PM Procedural Considerations
- 2:45 PM 3Mensio Imaging Review
- 3:00 PM Interactive Case Review and Assessment

## CONTEMPORARY CONSIDERATIONS FOR TAVR HEMODYNAMICS

### Contemporary Considerations for TAVR Hemodynamics

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

**Contemporary Considerations for TAVR Hemodynamics**

Training Pavilion Faculty: G. Burkhard Mackensen, Michael J. Reardon

- 4:00 PM Introduction
- 4:05 PM Importance of TAVR Hemodynamics and Current Data
- 4:30 PM TAVR Imaging Assessments: What Every Implanter Needs to Know
- 5:00 PM Interactive Discussion and Case Reviews

## WAYS TO SEE CLEARLY, GUIDE CONFIDENTLY

### Ways to See Clearly, Guide Confidently

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

**Ways to See Clearly, Guide Confidently**

Training Pavilion Faculty: Karim Al-Azizi, Jasvinder Singh

- 8:00 AM Introduction
- 8:05 AM KTL Presentation: WAZE to See Clearly Guide Confidently Case Based Review
- 8:25 AM Dynamic Roadmap With Simulator
- 8:40 AM IntraSight 7 Physiology Sync
- 8:55 AM IntraSight 7 IVUS Sync
- 9:10 AM Level EX Rotation
- 9:25 AM Closing and Adjourn

## DOTTING THE EYES WITH IFR'S DEFINE PCI

### Dotting the Eyes with iFR's DEFINE PCI

FRIDAY, SEPTEMBER 27, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F



10:00 AM - 11:30 AM

**Dotting the Eyes with iFR's DEFINE PCI**

*Training Pavilion Faculty: Karim Al-Azizi, Christopher Cook*

- 10:00 AM Introduction
- 10:05 AM KTL Presentation: Dotting the Eyes with iFRs DEFINE PCI
- 10:25 AM Dynamic Roadmap with Simulator
- 10:40 AM IntraSight 7 Physiology Sync
- 10:55 AM IntraSight 7 IVUS Sync
- 11:10 AM Level EX Rotation
- 11:25 AM Closing and Adjourn

2:00 PM - 3:30 PM

**Another Notch on Your Complex PCI Tool Belt – A Journey to LASER Competence**

*Training Pavilion Faculty: Sanjog Kalra, Ajay J. Kirtane*

- 2:00 PM Introduction
- 2:05 PM KTL Presentation: Another Notch on Your Complex PCI Tool Belt A Journey to LASER Competence
- 2:25 PM Laser Hands On
- 2:40 PM Simulator 1 ISR Case
- 2:55 PM Simulator 2 CTO Case
- 3:10 PM KTL Doing Cases
- 3:25 PM Closing and Adjourn

## ANOTHER NOTCH ON YOUR COMPLEX PCI TOOL BELT – A JOURNEY TO LASER COMPETENCE

## THE ULTIMATE OUTCOME WITH IVUS

### Another Notch on Your Complex PCI Tool Belt – A Journey to LASER Competence

### The ULTIMATE Outcome with IVUS

FRIDAY, SEPTEMBER 27, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

12:00 PM - 1:30 PM

**Another Notch on Your Complex PCI Tool Belt – A Journey to LASER Competence**

*Training Pavilion Faculty: Kevin J. Croce*

- 12:00 PM Introduction
- 12:05 PM KTL Presentation: Another Notch on Your Complex PCI Tool Belt A Journey to LASER Competence
- 12:25 PM Laser Hands On
- 12:40 PM Simulator 1 ISR Case
- 12:55 PM Simulator 2 CTO Case
- 1:10 PM KTL Doing Cases
- 1:25 PM Closing and Adjourn

4:00 PM - 5:30 PM

**The ULTIMATE Outcome with IVUS**

- 4:00 PM Introduction
- 4:05 PM KTL Presentation: The ULTIMATE Outcome with IVUS
- 4:25 PM Dynamic Roadmap with Simulator
- 4:40 PM IntraSight 7 Physiology Sync
- 4:55 PM IntraSight 7 IVUS Sync
- 5:10 PM Level X Rotation
- 5:25 PM Closing and Adjourn

### Another Notch on Your Complex PCI Tool Belt – A Journey to LASER Competence

### What You Need to Know Regarding the CLASP IID/IIF Pivotal Trial: Novel Mitral Repair System Currently Under Clinical Study in the US

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

## WHAT YOU NEED TO KNOW REGARDING THE CLASP IID/IIF PIVOTAL TRIAL: NOVEL MITRAL REPAIR SYSTEM CURRENTLY UNDER CLINICAL STUDY IN THE US

8:00 AM - 9:30 AM

**What You Need to Know Regarding the CLASP IID/IIF Pivotal Trial: Novel Mitral Repair System Currently Under Clinical Study in the US**  
*Training Pavilion Faculty: Scott Lim, Robert L. Smith*

8:00 AM **Didactic Session: Disease Overview Product Overview and Case Reviews and Clinical Trial Overview**  
8:45 AM **Device Demonstration**

**What You Need to Know Regarding the CLASP IID/IIF Pivotal Trial: Novel Mitral Repair System Currently Under Clinical Study in the US**

FRIDAY, SEPTEMBER 27, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

**What You Need to Know Regarding the CLASP IID/IIF Pivotal Trial: Novel Mitral Repair System Currently Under Clinical Study in the US**  
*Training Pavilion Faculty: Scott Lim, Robert L. Smith*

10:00 AM **Didactic Sessions: Disease Overview Product Overview and Case Reviews and Clinical Trial Overview**  
10:45 AM **Device Demonstration**

## WORLD LAUNCH OF THE EDWARDS BENCHMARK PROGRAM: IMPROVING PATIENT ACCESS AND OUTCOMES WITHOUT COMPROMISING SAFETY - CONSISTENT OUTCOMES, AGNOSTIC OF VOLUME

**World Launch of the Edwards BENCHMARK Program: Improving Patient Access and Outcomes Without Compromising Safety - Consistent Outcomes, Agnostic of Volume**

FRIDAY, SEPTEMBER 27, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 1:30 PM

**World Launch of the Edwards BENCHMARK Program: Improving Patient Access and Outcomes Without Compromising Safety - Consistent Outcomes, Agnostic of Volume**

12:00 PM **Didactic Sessions**  
1:00 PM **Application: Using the App**

**World Launch of the Edwards BENCHMARK Program: Improving Patient Access and Outcomes Without Compromising Safety - Consistent Outcomes, Agnostic of Volume**

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

**World Launch of the Edwards BENCHMARK Program: Improving Patient Access and Outcomes Without Compromising Safety - Consistent Outcomes, Agnostic of Volume**

2:00 PM **Didactic Sessions**  
3:00 PM **Application: Using the App**

## CONSIDERATIONS FOR MANAGING TAVR AND CONCOMMINENT CORONARY ARTERY DISEASE (CAD) IN THIS NEW WORLD

**Considerations for Managing TAVR and Concomminent Coronary Artery Disease (CAD) in This New World**

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

**Considerations for Managing TAVR and Concomminent Coronary Artery Disease (CAD) in This New World**

4:00 PM **Didactic Sessions: Recent Publications**  
4:30 PM **Case Review**

## BE CALCULATED: OPTIMIZING PREPARATION OF CALCIFIED CORONARY LESIONS

**Be Calculated: Optimizing Preparation of Calcified Coronary Lesions**

FRIDAY, SEPTEMBER 27, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

**Be Calculated: Optimizing Preparation of Calcified Coronary Lesions**

*Training Pavilion Faculty: Nirat Beohar, Prashant Kaul, Ashok Kondur, Rajesh V. Swaminathan*

8:00 AM **Introduction**  
8:05 AM **Didactic Including Case Review**  
8:50 AM **Hands On**

**Be Calculated: Optimizing Preparation of Calcified Coronary Lesions**

FRIDAY, SEPTEMBER 27, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

**10:00 AM - 11:30 AM****Be Calculated: Optimizing Preparation of Calcified Coronary Lesions**

Training Pavilion Faculty: Khaldoon F. Alaswad, Rohit Bhatheja, Mitul Patel, George Revtyak

- 10:00 AM **Introduction**
- 10:05 AM **Didactic With Case Review**
- 10:50 AM **Hands On**

## ESSENTIAL GUIDEWIRE AND MICROCATHETER TECHNIQUES FOR COMPLEX PCI

### Essential Guidewire and Microcatheter Techniques for Complex PCI

**FRIDAY, SEPTEMBER 27, 2019****2:00 PM - 3:30 PM**

Training Pavilion, Hall F

**2:00 PM - 3:30 PM****Essential Guidewire and Microcatheter Techniques for Complex PCI**

Training Pavilion Faculty: William Nicholson, Robert F. Riley

- 2:00 PM **Introduction**
- 2:05 PM **Guidewire MC Considerations for Complex PCI**
- 2:30 PM **Case Reviews and Applications of Techniques**
- 2:45 PM **Microcatheter Selection and Proper Use**
- 3:25 PM **Adjourn**

### Essential Guidewire and Microcatheter Techniques for Complex PCI

**FRIDAY, SEPTEMBER 27, 2019****4:00 PM - 5:30 PM**

Training Pavilion, Hall F

**4:00 PM - 5:30 PM****Essential Guidewire and Microcatheter Techniques for Complex PCI**

Training Pavilion Faculty: William Nicholson, Robert F. Riley

- 4:00 PM **Introduction**
- 4:05 PM **Guidewire MC Considerations for Complex PCI**
- 4:30 PM **Case Reviews and Application of Techniques**
- 4:45 PM **Microcatheter Selection and Proper Use**

## LMCA INTERVENTION - 1

### LMCA Intervention - 1

Coronary: **CHIP**

**FRIDAY, SEPTEMBER 27, 2019****9:30 AM - 10:30 AM**

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

**9:30 AM - 10:30 AM****LMCA Intervention - 1**

Moderators: Darshan Doshi, Runlin Gao  
Discussants: Andrejs Erglis, Vasim Farooq, Miroslaw Ferenc, Tim A. Fischell

- 9:30 AM **TCT 382: Technical Issues in Two Stent Distal Left Main Bifurcation Treatment: An EXCEL Trial Intravascular Ultrasound Substudy**  
*Presenting Author: Tatsuhiro Fujimura*
- 9:37 AM **Discussion**
- 9:40 AM **TCT 383: Ten year Clinical Outcomes of Sirolimus Versus Paclitaxel Eluting Stents for Patients With Unprotected Left Main Coronary Artery Disease**  
*Presenting Author: Han-bit Park*
- 9:47 AM **Discussion**
- 9:50 AM **TCT 384: Is Higher Operator Volumes for Unprotected Left Main Stem PCI Associated with Improved Patient Outcomes A Survival analysis of 6748 cases from the British Cardiovascular Intervention Society National Database**  
*Presenting Author: tim kinnaird*
- 9:57 AM **Discussion**
- 10:00 AM **TCT 385: The MADS classification in patients undergoing left main percutaneous coronary intervention: Technique Analysis from the IDEAL LM Trial**  
*Presenting Author: CHUN CHIN CHANG*
- 10:07 AM **Discussion**
- 10:10 AM **TCT 386: Long Term Outcomes After Left Main PCI: An Individual Patient Data Pooled Analysis of 21 Randomized Controlled Trials**  
*Presenting Author: mayank yadav*
- 10:17 AM **Discussion**
- 10:20 AM **TCT 387: Clinical Outcome of Contemporary Unprotected Left Main Percutaneous Coronary Intervention in Patients with Acute Myocardial Infarction**  
*Presenting Author: Hyeon Jeong Kim*
- 10:27 AM **Discussion**

## LEFT ATRIAL APPENDAGE EXCLUSION - 1

### Left Atrial Appendage Exclusion - 1

Structural: Non-Valve

**FRIDAY, SEPTEMBER 27, 2019****9:30 AM - 10:30 AM**

Moderated Posters 5, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

### Left Atrial Appendage Exclusion - 1

Moderators: Krzysztof Bartus, Robert J. Cubeddu Discussants: Francesco Bedogni, Habib Gamra, Jai-Wun Park, Michael Rinaldi

9:30 AM **TCT 370: Clinical Outcomes of Subjects With and Without Prior Gastrointestinal Bleeding in the Amplatzer Amulet Observational Study**

Presenting Author: Jacob Odenstedt

9:37 AM Discussion

9:40 AM **TCT 371: Safety and Feasibility of Same Day Discharge after Left Atrial Appendage Closure**

Presenting Author: Thomas Gilhofer

9:47 AM Discussion

9:50 AM **TCT 372: The Impact of CHA2DS2 VASc and HAS BLED Scores on Clinical Outcomes in the Amplatzer Amulet Observational Study**

Presenting Author: Giuseppe Tarantini

9:57 AM Discussion

10:00 AM **TCT 373: LAA occlusion with the Amplatzer and AMULET devices long term outcomes in a high risk cohort**

Presenting Author: Tobias Tichelbäcker

10:07 AM Discussion

10:10 AM **TCT 374: Residual left atrial appendage patency identified by early computed tomography analysis following percutaneous occlusion: prevalence and impact on outcome**

Presenting Author: Nicolas Amabile

10:17 AM Discussion

10:20 AM **TCT 375: Canadian WATCHMAN Registry for Percutaneous Left Atrial Appendage Closure**

Presenting Author: Jacqueline Saw

10:27 AM Discussion

Presenting Author: Davide Cao

9:37 AM Discussion

9:40 AM **TCT 407: Adherence to dual antiplatelet therapy and long term outcome of drug eluting or bare metal stents: A Korean nationwide longitudinal real world cohort study**

Presenting Author: Jung Min Rosa Choi

9:47 AM Discussion

9:50 AM **TCT 408: Impact of dedicated dual antiplatelet therapy with low dose prasugrel on mid term vascular response after everolimus eluting stent implantation**

Presenting Author: Takayoshi Toba

9:57 AM Discussion

10:00 AM **TCT 409: A Novel Ticagrelor Coated Stent to Eliminate the Need for Dual Anti Platelet Therapy Post PCI**

Presenting Author: Jared Romeo

10:07 AM Discussion

10:10 AM **TCT 410: Assessing Suitability for Short Term DAPT: Thromboresistance Albumin Retention and Endothelial Function in the Resolute Onyx Zotarolimus versus Biofreedom Biolimus Eluting Coronary Stent Systems**

Presenting Author: Hiroyuki Jinnouchi

10:17 AM Discussion

10:20 AM **TCT 411: Predictions for Early Discontinuation of Ticagrelor in Patients with Acute Coronary Syndrome.**

Presenting Author: Sang Hyun Park

10:27 AM Discussion

## MANAGEMENT OF ANTIPLATELET THERAPY AND ANTICOAGULATION IN PATIENTS UNDERGOING PCI - 3

### Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 3

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

9:30 AM - 10:30 AM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

### Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 3

Moderators: Dimitrios Alexopoulos, William J. French Discussants: Gennaro Giustino, Hyo-Soo Kim, Michael A. Kutcher, Gary L. Schaer

9:30 AM **TCT 406: Clinical Impact of DAPT Cessation Within 12 Months of Drug Eluting Stent Implantation in Caucasians and Minorities: Insights From the PLATINUM Diversity and PROMUS Element Plus Post Approval Study**

## NATURAL HISTORY AND MANAGEMENT OF BICUSPID AORTIC VALVE DISEASE

### Natural History and Management of Bicuspid Aortic Valve Disease

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

9:30 AM - 10:20 AM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:20 AM

### Natural History and Management of Bicuspid Aortic Valve Disease

Moderators: Michael A. Borger, Catherine M. Otto Discussants: David R. Holmes Jr., Igor F. Palacios

9:30 AM **TCT 424: Systematic Review and Pooled Analysis of New versus Old Generation Valves for Transcatheter Aortic Valve Replacement in Bicuspid Aortic Stenosis**

Presenting Author: Nausharwan Butt

9:37 AM Discussion

9:40 AM **TCT 426: TAVR vs. SAVR for Bicuspid Aortic Valve**

Presenting Author: John Cyril Lisko DUPE

9:47 AM Discussion

9:50 AM **TCT 427: Metaanalysis Comparing Safety and Outcomes After Transcatheter Aortic Valve Replacement in Bicuspid Aortic Stenosis**

Presenting Author: Srilekha Sridhara

Presenting Author: Muhammad Rashid

- 9:57 AM Discussion
- 10:00 AM **TCT 428: Altered Valve Eccentricity and Hemodynamics in Sievers Type 0 Compared to Type 1 Bicuspid Aortic Valves post Transcatheter Aortic Valve Replacement**  
*Presenting Author: Scott M. Chadderdon*
- 10:07 AM Discussion
- 10:10 AM **TCT 429: Development of moderate or severe aortic stenosis from significant aortic regurgitation: a different path to mixed aortic valve disease**  
*Presenting Author: Li-Tan Yang*
- 10:17 AM Discussion

- 10:27 AM Discussion

## PERIPHERAL VASCULAR INTERVENTION - 2

### Peripheral Vascular Intervention - 2

Vascular

FRIDAY, SEPTEMBER 27, 2019

9:30 AM - 10:30 AM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

### Peripheral Vascular Intervention - 2

Moderators: John Moriarty  
Discussants: Farrell O. Mendelsohn, Ramon L. Varcoe, Ramzan M. Zakir

- 9:30 AM **TCT 557: Clinical outcomes of atherectomy use for the treatment of symptomatic peripheral vascular disease**  
*Presenting Author: Mohammad Mehdi Ansari*

9:37 AM Discussion

- 9:40 AM **TCT 558: Very Long Term Clinical Outcomes After Endovascular Therapy For Peripheral Arterial Disease**  
*Presenting Author: Tomonori Katsuki*

9:47 AM Discussion

- 9:50 AM **TCT 559: In hospital Outcomes and Trends of Endovascular Intervention vs Surgical Revascularization among Octogenarian Patients with Peripheral Artery Disease**  
*Presenting Author: Homam Moussa Pacha*

9:57 AM Discussion

- 10:00 AM **TCT 560: Impact of Infrapopliteal Run off on Clinical Outcomes following Endovascular Intervention in Patients with Iliac and Superficial Femoral Arterial Disease**  
*Presenting Author: Woohyeun Kim*

10:07 AM Discussion

- 10:10 AM **TCT 561: The Lesion and Procedure Characteristics Associated with Easy to Recanalize for Chronic Total Occlusion of the Superficial Femoral Artery in Endovascular Treatment**  
*Presenting Author: Yutaka Tadano*

10:17 AM Discussion

- 10:20 AM **TCT 562: Target lesion revascularization after percutaneous revascularization of lower limb arteries**  
*Presenting Author: Gerardo Nau*

10:27 AM Discussion

## OUTCOMES AFTER PRIMARY PCI - 5

### Outcomes After Primary PCI - 5

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

9:30 AM - 10:30 AM

The Moscone Center

9:30 AM - 10:30 AM

### Outcomes After Primary PCI - 5

Moderators: Maurizio Menichelli, Evgeny V. Merkulov  
Discussants: John C. Messenger, Zuzana Motovska, Alexey A. Protopopov, Richard A. Schatz

- 9:30 AM **TCT 512: Cost Effective AMI Coverage for a Hundred Million Population with Telemedicine Networks**  
*Presenting Author: Sameer Mehta*

9:37 AM Discussion

- 9:40 AM **TCT 507: Network Latency and Long distance Robotic Telesenting: Exploring the Potential Impact of Network Delays on Telesenting Performance**  
*Presenting Author: Paulina Phomvongsa*

9:47 AM Discussion

- 9:50 AM **TCT 508: Telemedicine Without Borders**  
*Presenting Author: Sameer Mehta*

9:57 AM Discussion

- 10:00 AM **TCT 509: Trends in the Management of ST segment Elevation Myocardial Infarction STEMI: Insights from a Regional STEMI Program 2003 2018**  
*Presenting Author: Santiago Garcia*

10:07 AM Discussion

- 10:10 AM **TCT 510: SYNTAX Score II Application for Prediction of Heart Failure Development in Patients with STEMI Undergoing Primary Percutaneous Coronary Intervention**  
*Presenting Author: Fernando Gómez Peña*

10:17 AM Discussion

- 10:20 AM **TCT 511: Baseline Risk and Timing of Invasive Strategy for 137265 Patients Presenting with Non ST Elevation Acute Myocardial Infarction: Level of Compliance with International Guidelines**

## PHYSIOLOGIC LESION ASSESSMENT - 3

### Physiologic Lesion Assessment - 3

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

9:30 AM - 10:30 AM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

### Physiologic Lesion Assessment - 3

Moderators: Upendra Kaul, Michael J. Lim Discussants: Samer Mansour, Oscar A. Mendiz

9:30 AM **TCT 587: Comparison of ticagrelor with clopidogrel on myocardial blood flow measured by N 13 ammonia positron emission tomography in patients with acute coronary syndrome**  
Presenting Author: Kyungil Park

9:37 AM Discussion

9:40 AM **TCT 588: Mid and Long term Clinical Outcomes of Percutaneous Coronary Intervention with Drug Eluting stent Implantation: Fractional Flow Reserve Guided Versus Intravascular Ultrasound Guided**  
Presenting Author: Kounosuke Inoue

9:47 AM Discussion

9:50 AM **TCT 589: Role of the Position of the Pressure Guidewire Sensor Distal to the Coronary Artery Stenosis on Fractional Flow Reserve Measurements**  
Presenting Author: Karl Isaz

9:57 AM Discussion

10:00 AM **TCT 590: The current status of intervention for intermediate coronary stenosis in the Korean Percutaneous Coronary Intervention K PCI Registry**  
Presenting Author: Jin-Ho Kim

10:07 AM Discussion

10:10 AM **TCT 591: A Comparison of Clinical and Coronary Physiology Characteristics in Patients With and Without Type 4a Myocardial Infarction Following High Speed Rotational Atherectomy Assisted Percutaneous Coronary Intervention**  
Presenting Author: Damien Collison

10:17 AM Discussion

10:20 AM **TCT 592: Exercise induced EPC mobilization improved the endothelial dysfunction in PCI patients**  
Presenting Author: Jae Hyoung Park

10:27 AM Discussion

9:30 AM **TCT 633: Impact of Diabetes on the Outcomes of Chronic Total Occlusion Percutaneous Coronary Interventions: An Updated Systematic Review and Meta analysis**  
Presenting Author: Abdelrahman Ali

9:37 AM Discussion

9:40 AM **TCT 634: Trend analysis of In Hospital Outcomes for Patients with Chronic Total Coronary Occlusion with Diabetes Undergoing PCI vs. CABG**  
Presenting Author: Birendra Amgai

9:47 AM Discussion

9:50 AM **TCT 635: Combined and Independent Impact of Diabetes Mellitus and Elevated C Reactive Protein Levels on Risk for Death and MI Following PCI: Insights from a Large Single Center Registry**  
Presenting Author: Usman Baber

9:57 AM Discussion

10:00 AM **TCT 636: Impact of diabetes on the outcomes in patients undergoing contemporary percutaneous coronary intervention: Analysis from the GLOBAL LEADERS study**  
Presenting Author: Ply Chichareon

10:07 AM Discussion

10:10 AM **TCT 637: Influence of diabetes on 1 year Outcome after Revascularization with BioFreedom stent or Orsiro Stents: a SORT OUT IX substudy**  
Presenting Author: Kirstine Hansen

10:17 AM Discussion

10:20 AM **TCT 638: Diabetes Mellitus Confers Worse Clinical Outcomes At 1 Year Compared to Non Diabetes Mellitus In An All Comer Population Implanted With Biodegradable Polymer Everolimus Eluting Stents**  
Presenting Author: Hui Wen Sim

10:27 AM Discussion

## REVASCULARIZATION IN PATIENTS WITH DIABETES - 2

### Revascularization in Patients With Diabetes - 2

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

9:30 AM - 10:30 AM

The Moscone Center

9:30 AM - 10:30 AM

### Revascularization in Patients With Diabetes - 2

Discussant: Mark Goldberger, Michael Maeng, Robert L. Wilensky

## BIORESORBABLE SCAFFOLDS - 3

### Bioresorbable Scaffolds - 3

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

10:30 AM - 11:30 AM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

### Bioresorbable Scaffolds - 3

Moderators: Arif Al Nooryani, Sundeep Mishra Discussants: Salvatore Cassese, Sunao Nakamura, David G. Rizik, Manel Sabate

10:30 AM **TCT 176: Implantation of Thin Strut Sirolimus Eluting Bioresorbable Vascular Scaffold in Patients With de novo Coronary Artery Lesions: Two year Clinical and Six month Imaging Outcomes of the MeRes 1 Extend Trial**  
Presenting Author: Sasko Kedev

10:37 AM Discussion



- 10:40 AM **TCT 177: Long Term Serial Functional Evaluation After Implantation of the Fantom Sirolimus Eluting Bioresorbable Coronary Scaffold: The FANTOM II study**  
*Presenting Author: Yuichi Saito*
- 10:47 AM **Discussion**
- 10:50 AM **TCT 178: Intravascular Ultrasound Predictors of Long term Outcomes Following ABSORB Bioresorbable Scaffold Implantation: A Pooled Analysis of the ABSORB III and ABSORB Japan Trials**  
*Presenting Author: Takeshi Nishi*
- 10:57 AM **Discussion**
- 11:00 AM **TCT 179: The influence of increasing stent length on outcomes in Absorb BVS or Xience EES treated patients in routine clinical PCI practice AIDA trial substudy**  
*Presenting Author: Ruben Tijssen*
- 11:07 AM **Discussion**
- 11:10 AM **TCT 180: Neointimal Tissue Coverage and Characterization Assessment Using Optical Coherence Tomography Surveillance Six Months After Implantation of Bioresorbable Scaffolds Versus Conventional Everolimus Eluting Stents in ISAR Absorb MI Trial**  
*Presenting Author: Himanshu Rai*
- 11:17 AM **Discussion**
- 11:20 AM **TCT 181: 5 year Outcomes of Patients Undergoing Everolimus eluting Bioresorbable Scaffold Implantation during Daily Clinical Routine Final Results from the ISAR Absorb Registry**  
*Presenting Author: Jens Wiebe*
- 11:27 AM **Discussion**

## CHRONIC TOTAL OCCLUSIONS - 1

### Chronic Total Occlusions - 1

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

10:30 AM - 11:30 AM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

### Chronic Total Occlusions - 1

*Moderators: Darshan Doshi, James Sapantis*  
*Discussants: Yasushi Asakura, Waleed El Awady, Miroslaw Ferenc, Alfredo R. Galassi*

- 10:30 AM **TCT 212: Reasonable Recanalization of Chronic Total Occlusion Improves Long Term Clinical Outcomes: Data from 2659 Consecutive Patients**  
*Presenting Author: Lihua Xie*

10:37 AM **Discussion**

- 10:40 AM **TCT 213: Immediate and 5 Year Results of Percutaneous Coronary Intervention in In Stent Restenotic Chronic Total Occlusion: Data from 2659 Consecutive Patients**  
*Presenting Author: tianjie wang*

10:47 AM **Discussion**

- 10:50 AM **TCT 214: Percutaneous Coronary Intervention versus Optimal Medical Therapy for Chronic Total Coronary Occlusions: A Systematic Review and Meta analysis of Randomized Trials**  
*Presenting Author: Anna van Veelen*

10:57 AM **Discussion**

- 11:00 AM **TCT 215: Clinical outcomes of percutaneous coronary intervention for ostial left anterior descending artery chronic total occlusion**  
*Presenting Author: Euihong Ko*

11:07 AM **Discussion**

- 11:10 AM **TCT 216: Contemporary characteristics and outcomes of Percutaneous Coronary Intervention for Chronic Total Occlusion in Japan: Comparison Between Two Major Japanese Multicenter Registries**  
*Presenting Author: Shunsuke Matsuno*

11:17 AM **Discussion**

- 11:20 AM **TCT 217: Predictors for Long term Target Lesion Revascularization of Successful Recanalized Coronary Chronic Total Occlusion Using Drug Eluting Stents**  
*Presenting Author: Lei Song*

11:27 AM **Discussion**

## DRUG-ELUTING STENT STUDIES - 3

### Drug-Eluting Stent Studies - 3

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

10:30 AM - 11:30 AM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

### Drug-Eluting Stent Studies - 3

*Moderators: Philippe E. Gaspard*  
*Discussants: Henning Kelbæk, Young-Hak Kim, Scott Kinlay*

- 10:30 AM **TCT 288: The Use of New Bionanopolymer Stent Coatings for Coronary Stenting**  
*Presenting Author: Dmitry P. Stolyarov*

10:37 AM **Discussion**

- 10:40 AM **TCT 289: Primary Endpoint Results of the World Wide WIN Registry Assessing a Self Apposing Stent for Revascularization of Coronary Arteries in Routine Clinical Practice**  
*Presenting Author: Samer Somi*

10:47 AM **Discussion**

- 10:50 AM **TCT 290: Outcomes after Revascularization with a Polymer Free Biolimus Eluting BioFreedom Stent or a Biodegradable Polymer Ultrathin Strut Sirolimus Eluting Orsiro Stent in Patients with and without Acute Coronary Syndromes. From the SORT OUT IX Trial**

Presenting Author: Christian Oliver Fallesen

- 10:57 AM Discussion
- 11:00 AM **TCT 291: Comparison of Thromboresistance between Everolimus eluting Fluoropolymer Stent and Currently Available Drug Eluting Stent in an Ex Vivo Swine Shunt Model under Only Single Anti platelet Therapy**  
*Presenting Author: Hiroyuki Jinnouchi*
- 11:07 AM Discussion
- 11:10 AM **TCT 292: Five Years Comparison of Vessel Remodeling Between a Thin Strut Non Drug Eluting Bioresorbable Stent and Bare Metal Stent in Porcine Coronary Arteries**  
*Presenting Author: Marco Ferrone*
- 11:17 AM Discussion
- 11:20 AM **TCT 293: Influence of Stent Length on Clinical Outcome in Biodegradable or Durable Polymer Drug Eluting Stent in Patients With Acute Myocardial Infarction**  
*Presenting Author: Hyeon Jeong Kim*
- 11:27 AM Discussion

Presenting Author: Junho Hyun

- 11:07 AM Discussion
- 11:10 AM **TCT 392: In Hospital Outcomes of ST Segment Elevation Myocardial Infarction Involving the Left Main Coronary Artery: Insights from the National Inpatient Sample**  
*Presenting Author: Mohamed Omer*
- 11:17 AM Discussion
- 11:20 AM **TCT 393: A real world registry of patients with left main coronary artery stent restenosis: Clinical angiographic characteristics therapeutic management and long term follow up.**  
*Presenting Author: Luis Marcos Lopez Rojas*
- 11:27 AM Discussion

## LMCA INTERVENTION - 2

### LMCA Intervention - 2

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

10:30 AM - 11:30 AM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### LMCA Intervention - 2

*Moderators: Dietmar H. Glogar, Victor Guetta*  
*Discussants: Ning Guo, Stuart Head, Javaid Iqbal, Sasko Kedev*

- 10:30 AM **TCT 388: Very Long Term 10 Years Safety and Effectiveness of Drug Eluting or Bare Metal Stents for Unprotected Left Main Coronary Disease**  
*Presenting Author: Han-bit Park*
- 10:37 AM Discussion
- 10:40 AM **TCT 389: Prospective Evaluation of the Drug Eluting Self Apposing Stent for the Treatment of Unprotected Left Main Coronary Artery Disease: 2 Year Results of the TRUNC Study**  
*Presenting Author: Corrado Tamburino*
- 10:47 AM Discussion
- 10:50 AM **TCT 390: Impact of SYNTAX Score on Long Term Clinical Outcomes in Patients Treated With New Generation Drug Eluting Stents for Unprotected Left Main Disease**  
*Presenting Author: Takashi Hiromasa*
- 10:57 AM Discussion
- 11:00 AM **TCT 391: 10 Year Clinical Outcomes After Stents versus Coronary Artery Bypass Grafting for Left Main Coronary Artery Disease According to Lesion Location: Results From the MAIN COMPARE registry**

## LEFT ATRIAL APPENDAGE EXCLUSION - 2

### Left Atrial Appendage Exclusion - 2

Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

10:30 AM - 11:30 AM

Moderated Posters 5, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Left Atrial Appendage Exclusion - 2

*Moderators: Jason H. Rogers, Apostolos Tzikas*  
*Discussants: Anibal A. Damonte, Petr Neuzil, David E. Thaler*

- 10:30 AM **TCT 376: Randomized Trial of Conventional Transseptal Needle Versus Radiofrequency Energy Needle Puncture for Left Atrial Access during Cryoballoon Ablation the CRYO LATS Study**  
*Presenting Author: Jason Andrade*
- 10:37 AM Discussion
- 10:40 AM **TCT 377: Use of Novel Oral Anticoagulation Therapy Alone NOAC Versus NOAC in Conjunction with Aspirin for Anticoagulation Following Implantation of the Watchman Left Atrial Appendage Closure Device**  
*Presenting Author: Benita Tjoe*
- 10:47 AM Discussion
- 10:50 AM **TCT 378: Percutaneous Left Atrial Appendage Closure in Female Patients**  
*Presenting Author: Konstantinos Voudris*
- 10:57 AM Discussion
- 11:00 AM **TCT 379: First experience with the ExpanSure Dilation System to streamline transseptal puncture for left atrial appendage closure**  
*Presenting Author: Jacqueline Saw*
- 11:07 AM Discussion
- 11:10 AM **TCT 380: Feasibility of LAMBRE in Occluding Large Left Atrial Appendage**  
*Presenting Author: So Chak Yu*

- 11:17 AM Discussion
- 11:20 AM **TCT 381: TAVR Patients at high Risk for Bleeding Value of LAAO in this special cohort**  
*Presenting Author: Felix Woitek*
- 11:27 AM Discussion

## NATURAL HISTORY AND MANAGEMENT OF MITRAL AND TRICUSPID VALVE DISEASE - 6

### Natural History and Management of Mitral and Tricuspid Valve Disease - 6

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

10:30 AM - 11:30 AM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Natural History and Management of Mitral and Tricuspid Valve Disease - 6

*Moderators: Satya Shreenivas, Wilson Y. Szeto*  
*Discussants: James S. Gammie, Michael J. Lim, Eliano Pio Navarese, Joachim Schofer*

- 10:30 AM **TCT 460: Aorto Mitral Angulation and Neo LVOT in Transcatheter Mitral Valve Replacement**  
*Presenting Author: Georg Lutter*
- 10:37 AM Discussion
- 10:40 AM **TCT 461: Outcomes of Emergent Transcatheter Mitral Valve Repair: A Single Center Experience.**  
*Presenting Author: Chris Kovach*
- 10:47 AM Discussion
- 10:50 AM **TCT 462: Valvular Remodeling and Myocyte Dysfunction at an Early Stage of Ischemic Mitral Regurgitation in a Relevant Translational Pig Model**  
*Presenting Author: Ouafa Hamza*
- 10:57 AM Discussion
- 11:00 AM **TCT 463: Transcatheter Mitral Valve Replacement in a Series of Ten Compassionate Use Cases With Mid Term Follow up**  
*Presenting Author: Sebastian Ludwig*
- 11:07 AM Discussion
- 11:10 AM **TCT 464: The Volume Outcomes for Percutaneous Mitral Valve Repair MitraClip Procedure in a US Registry**  
*Presenting Author: Jad Omran*
- 11:17 AM Discussion
- 11:20 AM **TCT 465: Automatic Identification and Quantification of the Mitral Annulus for Consistent TMVR Planning A Preliminary Study**  
*Presenting Author: Janelle Schrot*
- 11:27 AM Discussion

## OUTCOMES AFTER PRIMARY PCI - 6

### Outcomes After Primary PCI - 6

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

10:30 AM - 11:30 AM

The Moscone Center

10:30 AM - 11:30 AM

#### Outcomes After Primary PCI - 6

*Moderators: Debabrata Mukherjee, Francesco Pelliccia*  
*Discussants: Jorge F. Saucedo, Richard Smalling*

- 10:30 AM **TCT 513: Endovascular Therapeutic Hypothermia is Feasible as an Adjuvant Therapy in Acute ST Segment Elevation Myocardial Infarction Patients Without Delay in Door to Balloon Time**  
*Presenting Author: Luis Dallan*
- 10:37 AM Discussion
- 10:40 AM **TCT 514: LATIN Telemedicine Demonstrates Longitudinal Cost Savings from Avoiding Unnecessary Transfer of Patients**  
*Presenting Author: Sameer Mehta*
- 10:47 AM Discussion
- 10:50 AM **TCT 515: Marked Variability and Regional Constraints: Observations From a Population based and Telemedicine guided STEMI Program**  
*Presenting Author: Sameer Mehta*
- 10:57 AM Discussion
- 11:00 AM **TCT 516: A New Scoring System for Prediction of No Reflow in Patients with ST elevation Myocardial Infarction**  
*Presenting Author: Ivan Bessonov*
- 11:07 AM Discussion
- 11:10 AM **TCT 517: The KAsH Score Predicts Long Term Mortality After Acute Myocardial Infarction**  
*Presenting Author: Joel Monteiro*
- 11:17 AM Discussion
- 11:20 AM **TCT 518: Utility of Troponin and Creatine Kinase in Predicting Myocardial Infarct Size Left Ventricular Dysfunction and Clinical Outcomes After Acute Anterior Myocardial Infarction: The INFUSE AMI Trial**  
*Presenting Author: Bahira Shahim*
- 11:27 AM Discussion

## PERIPHERAL VASCULAR INTERVENTION - 3

### Peripheral Vascular Intervention - 3

Vascular

FRIDAY, SEPTEMBER 27, 2019

10:30 AM - 11:30 AM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

### Peripheral Vascular Intervention - 3

Moderators: Bagrat Alekyan Discussants: Alex Chebl, Tony Das, Peter P. Monteleone, Rahul S. Patel

10:30 AM **TCT 563: Improved Remodelling with TEVAR and Distal Bare Metal Stent PETTICOAT in Patients With Acute Complicated Type B Aortic Dissection 1 year Results of A Multicentre Study in Survivors of Type B Aortic Dissection Undergoing Stenting ASSIST**  
Presenting Author: XUN YUAN

10:37 AM **Discussion**

10:40 AM **TCT 564: Long term clinical outcomes of patients undergoing percutaneous intervention of transplanted renal artery stenosis**  
Presenting Author: Gustavo Feitosa

10:47 AM **Discussion**

10:50 AM **TCT 565: Utility of CO2 Peripheral Angiography in Pre renal Tranplantation Patients.**  
Presenting Author: Twinkle Singh

10:57 AM **Discussion**

11:00 AM **TCT 566: Iliofemoral Vein Compression is Caused by the Pubic Bone Not the Inguinal Ligament**  
Presenting Author: Christopher Cheng

11:07 AM **Discussion**

11:10 AM **TCT 567: Outcomes of Covered Versus Bare Metal Stents in the Treatment of Subclavian Artery Stenosis**  
Presenting Author: David Signarovitz

11:17 AM **Discussion**

11:20 AM **TCT 568: Effectiveness and Safety of Vacuum Assisted Thrombectomy Device AngioVac for Extraction of Vegetations on Intra cardiac Devices and Valves Prior to Device Removal: A Single Center Experience**  
Presenting Author: Priyanka Ghosh

11:27 AM **Discussion**

Presenting Author: Alejandro Lemor

11:37 AM **Discussion**

11:40 AM **TCT 129: Age Stratified Analysis for Patients with Hypertrophic Cardiomyopathy Undergoing Alcohol Septal Ablation or Septal Myectomy.**  
Presenting Author: Alejandro Lemor

Presenting Author: Alejandro Lemor

11:47 AM **Discussion**

11:50 AM **TCT 130: When Can Patients be Safely Discharged After Alcohol Septal Ablation Incidence and Timing of Post Ablation Complete Heart Block and Ventricular Tachycardia**  
Presenting Author: Bassim El-Sabawi

11:57 AM **Discussion**

12:00 PM **TCT 131: Alcohol Septal Ablation in Patients With Obstructive Hypertrophic Cardiomyopathy Leads to Sustained Long Term Benefits: A Single Centre Experience**  
Presenting Author: Micha Dorsch

12:07 PM **Discussion**

12:10 PM **TCT 132: Simultaneous Interventional Treatment of Patients With Hypertrophic Obstructive Cardiomyopathy and Coexisting Coronary Artery Disease**  
Presenting Author: Stanislav Fanta

12:17 PM **Discussion**

12:20 PM **TCT 133: A Novel concept of catheter based radiofrequency ablation for hypertrophic obstructive cardiomyopathy Cerclage RF Ablation: preliminary animal experiments in swine model**  
Presenting Author: Min-Ku Chon

12:27 PM **Discussion**

## CATH LAB OF THE FUTURE - 1

### Cath Lab of the Future - 1

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

11:30 AM - 12:30 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### Cath Lab of the Future - 1

Moderators: Deepak L. Bhatt, Peter J. Fitzgerald Discussants: Sanjay Kumar Chugh, Carlos Collet

11:30 AM **TCT 194: A fully automated classification and segmentation of X ray coronary angiography using deep learning approach**  
Presenting Author: Jihoon Kweon

11:37 AM **Discussion**

11:40 AM **TCT 195: Anatomical Attributes of Myocardial territory of Diagonal Branches Assessed by Coronary Computed Tomography Angiography**  
Presenting Author: Seokhun Yang

## ALCOHOL SEPTAL ABLATION/HOCM

### Alcohol Septal Ablation/HOCM

Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

11:30 AM - 12:30 PM

Moderated Posters 5, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### Alcohol Septal Ablation/HOCM

Moderators: George S. Hanzel, Hubert Seggewiss Discussants: Mayra Guerrero, Igor F. Palacios

11:30 AM **TCT 128: Impact of Gender on Clinical Outcomes of Septal Myectomy vs Alcohol Septal Ablation for Hypertrophic Cardiomyopathy in the United States**

- 11:47 AM Discussion
- 11:50 AM **TCT 196: Automatic Lesion Recognition on Coronary Angiographic Images by Deep Convolutional Neural Network**  
*Presenting Author: Ruolin Yang*
- 11:57 AM Discussion
- 12:00 PM **TCT 197: Impact of Patient Sex on Radiation Doses Received During Coronary Angiography**  
*Presenting Author: Erica Osip*
- 12:07 PM Discussion
- 12:10 PM **TCT 198: Final Results of the IC CATARACT CATaracts Attributed to Radiation in the CaTh Lab Study: Lens Changes Associated with Radiation in the Cardiac Catheterization Laboratory**  
*Presenting Author: Judit Karacsonyi*
- 12:17 PM Discussion
- 12:20 PM **TCT 199: The Newton System: An Innovative Weight Supporting Device for the Prevention of Lead Apron Related Musculoskeletal Injuries**  
*Presenting Author: Marc-Antoine Carrier*
- 12:27 PM Discussion

*Presenting Author: Taishi Hirai*

- 12:07 PM Discussion
- 12:10 PM **TCT 222: Characteristics Procedures and Outcomes of Percutaneous Coronary Intervention for In Stent Chronic Total Occlusion**  
*Presenting Author: Euihong Ko*
- 12:17 PM Discussion
- 12:20 PM **TCT 223: Improvement in Ejection Fraction Post Chronic Total Occlusion Intervention Guided by PET Viability.**  
*Presenting Author: Jonathan Hansen*
- 12:27 PM Discussion

## ROTATIONAL AND ORBITAL ATHERECTOMY, CUTTING/SCORING BALLOONS, AND LITHOTRIPSY

### Rotational and Orbital Atherectomy, Cutting/Scoring Balloons, and Lithotripsy

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

11:30 AM - 12:30 PM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

**Rotational and Orbital Atherectomy, Cutting/Scoring Balloons, and Lithotripsy**  
*Moderators: James Sapontis, Mohamed Ahmed Sobhy*  
*Discussants: Jonathan M. Hill, Petr Kala, Manish A. Parikh, Huay Cheem Tan*

11:30 AM **TCT 651: Superior Crossability of Novel Cutting Balloon for the Preparation of Calcified Lesion SUPERHERO Study**  
*Presenting Author: Takayuki Ishihara*

11:37 AM Discussion

11:40 AM **TCT 652: IntraScular Lithotripsy For the Management of Undilatable Coronary StEnt: The Multicenter SMILE Registry**  
*Presenting Author: Alfonso Ielasi*

11:47 AM Discussion

11:50 AM **TCT 653: Intravascular lithotripsy for lesion preparation in calcified coronary lesions: First data of prospective observational multicenter registry**  
*Presenting Author: Adem Aksoy*

11:57 AM Discussion

12:00 PM **TCT 654: Feasibility and safety of intravascular lithotripsy in severely calcified left main coronary stenoses**  
*Presenting Author: Carlos Salazar*

12:07 PM Discussion

12:10 PM **TCT 655: Adverse Cardiac Events Among Patients Undergoing Coronary Orbital Atherectomy: A Pooled Meta Analysis of 2303 Procedures**  
*Presenting Author: Arnav Kumar*

## CHRONIC TOTAL OCCLUSIONS - 2

### Chronic Total Occlusions - 2

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

11:30 AM - 12:30 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### Chronic Total Occlusions - 2

*Moderators: Khaldoon F. Alaswad*  
*Discussants: Arif Al Nooryani, Parag Barwad, Raja Hatem, Satoru Sumitsuji*

11:30 AM **TCT 218: The Efficacy and Safety of Transradial and Transfemoral Approach in Treatment of Coronary Chronic Total Occlusion: A Systematic Review and Meta Analysis**  
*Presenting Author: Mohamad Soud*

11:37 AM Discussion

11:40 AM **TCT 219: In Hospital Outcomes of Chronic Total Occlusion Treated with Percutaneous Coronary Intervention VS. Coronary Artery Bypass Graft**  
*Presenting Author: FANGCHENG WU*

11:47 AM Discussion

11:50 AM **TCT 220: Temporal Trends in Chronic Total Occlusion Percutaneous Coronary Interventions: Insights From the PROGRESS CTO Registry**  
*Presenting Author: Evangelia Vemmou*

11:57 AM Discussion

12:00 PM **TCT 221: Initial Report of Safety and Feasibility of Robotic Assisted Chronic Total Occlusion Coronary Intervention**

- 12:17 PM Discussion  
 12:20 PM **TCT 656: National Utilization and Outcomes of Patients Undergoing Percutaneous Coronary Intervention with Intracoronary Imaging and Atherectomy**  
*Presenting Author: Fahed Darmoch*  
 12:27 PM Discussion

## TAVR: CLINICAL ACCESS AND COST-EFFECTIVENESS - 1

### TAVR: Clinical Access and Cost-Effectiveness - 1

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

11:30 AM - 12:30 PM  
 The Moscone Center

11:30 AM - 12:30 PM

#### TAVR: Clinical Access and Cost-Effectiveness - 1

*Moderators: Aaron Horne, Jr., Cheryl Pegus*  
*Discussants: Suzanne J. Baron, Robert M. Bersin, Bernadette S. Speiser, Bonnie H. Weiner*

- 11:30 AM **TCT 739: Impact of waiting time from referral to procedural date in patients undergoing transcatheter aortic valve replacement**  
*Presenting Author: Janarthanan Sathananthan*
- 11:37 AM Discussion
- 11:40 AM **TCT 740: Association between surgical risk profiles and total cost or resource utilization after transcatheter aortic valve replacement**  
*Presenting Author: Alexis Okoh*
- 11:47 AM Discussion
- 11:50 AM **TCT 741: Cost Effectiveness of Transcatheter Aortic Valve Replacement in Patients at Low Surgical Risk: Initial Results Based on One year Outcomes From the Evolut Low Risk Trial**  
*Presenting Author: Paul S. Teirstein*
- 11:57 AM Discussion
- 12:00 PM **TCT 742: Comparison of Year Over Year U.S. Hospital Costs Between Transcatheter Aortic Valve Replacement TAVR and Surgical Aortic Valve Replacement SAVR**  
*Presenting Author: Carlos E. Sanchez*
- 12:07 PM Discussion
- 12:10 PM **TCT 743: Comparison of Patient and Clinical Factors Within Echocardiogram Reports to Predict Disparity in Care of Patients With Severe Aortic Stenosis**  
*Presenting Author: Hemal Gada*
- 12:17 PM Discussion
- 12:20 PM **TCT 744: Our Experience With TAVR Accessibility**  
*Presenting Author: Frank Annie*
- 12:27 PM Discussion

## TAVR: VALVE-IN-VALVE - 2

### TAVR: Valve-in-Valve - 2

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

11:30 AM - 12:20 PM  
 The Moscone Center

11:30 AM - 12:20 PM

#### TAVR: Valve-in-Valve - 2

*Moderators: Robert J. Cubeddu, Harold L. Dauerman*  
*Discussants: Chandan Devireddy, Gregory P. Fontana, Kentaro Hayashida, David Hildick-Smith*

- 11:30 AM **TCT 760: 30 day echocardiographic assessment of Self Expanding and Balloon Expandable valves after Valve in Valve Transcatheter Aortic valve replacement in patients with small surgical prostheses.**  
*Presenting Author: Marloe Prince*
- 11:37 AM Discussion
- 11:40 AM **TCT 761: Hemodynamic Performances and Clinical Outcomes In Patients Undergoing Valve in valve Versus Native Transcatheter Aortic Valve Implantation.**  
*Presenting Author: Alexandra MEILHAC*
- 11:47 AM Discussion
- 11:50 AM **TCT 762: Valve in Valve TAVR in Degenerated Aortic Valve Prostheses with Externally Mounted Leaflets**  
*Presenting Author: Magdalena Erlebach*
- 11:57 AM Discussion
- 12:00 PM **TCT 763: Valve in valve transcatheter aortic valve replacement versus redo surgical aortic valve replacement: real world outcomes from the National Inpatient Sample 2013 - 2016**  
*Presenting Author: Grant Kim*
- 12:07 PM Discussion
- 12:10 PM **TCT 764: Comparison of 3rd Generation Self expanding and Balloon expandable Devices in Valve in Valve Treatment of Failing Aortic Valve Bioprostheses**  
*Presenting Author: Felix Woitek*
- 12:17 PM Discussion

## TREATMENT OF CONGENITAL HEART DISEASES - 1

### Treatment of Congenital Heart Diseases - 1

Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

11:30 AM - 12:30 PM  
 Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South



11:30 AM - 12:30 PM

**Treatment of Congenital Heart Diseases - 1**

Discussant: *Doff B. McElhinney, Michael J. Mullen*

11:30 AM **TCT 765: Anatomical correlates of residual left to right shunt after suture based percutaneous closure of patent foramen ovale**  
*Presenting Author: Gregory Sgueglia*

11:37 AM **Discussion**

11:40 AM **TCT 766: Relation of Patent Foramen Ovale to Acute Mountain Sickness**  
*Presenting Author: Preetham Kumar*

11:47 AM **Discussion**

11:50 AM **TCT 767: Safety and Feasibility of Same Day Discharge Using the Vancouver PFOASD Clinical Pathway**  
*Presenting Author: Madeleine Barker*

11:57 AM **Discussion**

12:00 PM **TCT 768: Suture mediated patent foramen ovale closure with NobleStitch: efficacy at three months transesophageal follow up**  
*Presenting Author: Marco Ancona*

12:07 PM **Discussion**

12:10 PM **TCT 769: Aortic Remodeling in Patients Treated with Intravascular Stent Therapy for Coarctation: A Long term Follow Up Single Centre Experience**  
*Presenting Author: Louise Pei*

12:17 PM **Discussion**

12:20 PM **TCT 770: Outcomes after Endograft Facilitated Transcatheter Pulmonary Valve Replacement for Failed Repair: Surgical vs Transcatheter Procedures**  
*Presenting Author: Norihiko Kamioka*

12:27 PM **Discussion**

11:40 AM **TCT 784: Comparison of Simultaneous Radial Artery with Upper Extremity Venous Access and Femoral Artery with Femoral Vein Access in Patients Undergoing Bilateral Heart Catheterization: A Systemic Review and Meta analysis.**  
*Presenting Author: Ahmed Alabbady*

11:47 AM **Discussion**

11:50 AM **TCT 785: Outcomes of Distal Versus Proximal Trans radial Approach for Coronary Angiogram and Percutaneous Coronary Intervention**  
*Presenting Author: Karim Al-Azizi*

11:57 AM **Discussion**

12:00 PM **TCT 786: Examination of the Appropriate Hemostatic Time for Cardiac Catheterization in the Distal Radial Artery Approach**  
*Presenting Author: Yukio Mizuguchi*

12:07 PM **Discussion**

12:10 PM **TCT 787: Trans radial versus trans femoral access for cardiac catheterization: a nationwide survey of training preferences expertise and comfort among cardiovascular fellows and teaching faculty.**  
*Presenting Author: Khalid Changal*

12:17 PM **Discussion**

12:20 PM **TCT 788: Integrative approach following transradial access for coronary angiography yields heparin avoidance ultrafast hemostasis and absolute radial artery patency**  
*Presenting Author: Gregory Sgueglia*

12:27 PM **Discussion**

## VASCULAR ACCESS AND CLOSURE IN PCI - 2

### Vascular Access and Closure in PCI - 2

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

11:30 AM - 12:30 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### Vascular Access and Closure in PCI - 2

Moderators: *Sasko Kedev* Discussants: *Christos Bourantas, Dharam J. Kumbhani, Michael A. Kutcher*

11:30 AM **TCT 783: Feasibility of using radial access and 4Fr catheters for coronary pressure wire measurements**  
*Presenting Author: asma mursleen*

11:37 AM **Discussion**

## ASSESSMENT OF PATIENTS WITH AORTIC STENOSIS OR AORTIC INSUFFICIENCY - 3

### Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 3

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:00 PM

The Moscone Center

2:00 PM - 3:00 PM

### Assessment of Patients With Aortic Stenosis or Aortic Insufficiency - 3

Moderators: *Ganesh Manoharan, Igor F. Palacios* Discussants: *Thomas C. McAndrew, Christoph A. Nienaber, Patrick T. O'Gara, Anna Sonia Petronio*

2:00 PM **TCT 146: Are the three different types of aortic valve stenosis associated with a different level of calcium distribution and localization**  
*Presenting Author: Kerstin Piayda*

2:07 PM **Discussion**

2:10 PM **TCT 147: Stress Aortic Valve Index SAVI with Dobutamine for Low Gradient Aortic Stenosis**

Presenting Author: Jo Zelis

- 2:17 PM Discussion
- 2:20 PM **TCT 148: Does Energy Loss Index Improve the Comparison of Echocardiographic Derived Aortic Valve Area Compared to Invasively Derived Aortic Valve Area Pre TAVR**  
Presenting Author: Rick Gaines
- 2:27 PM Discussion
- 2:30 PM **TCT 149: ARE TROPONINS WORTH CHECKING NATIONWIDE STUDY COMPARING OUTCOMES OF PATIENTS WITH VERSUS WITHOUT TROPONINEMIA POST TRANSCATHETER AORTIC VALVE REPLACEMENT**  
Presenting Author: Hassaan Arshad
- 2:37 PM Discussion
- 2:40 PM **TCT 150: Impact of Physiologic and Molecular Markers on the Progression of Calcific Aortic Valve Stenosis as Measured by Change in Aortic Valve Area: A Meta analysis and Meta regression**  
Presenting Author: Sareena George
- 2:47 PM Discussion
- 2:50 PM **TCT 151: Elective Non cardiac Surgery in Patients with Severe Aortic Stenosis: Observations from the CURRENT AS Registry**  
Presenting Author: Tomohiko Taniguchi
- 2:57 PM Discussion

- 2:30 PM **TCT 191: Feasibility and Mid term Outcomes of Bioabsorbable Magnesium Scaffold Implantation in Acute Coronary Syndromes**  
Presenting Author: LIVIA LUCIANA GHEORGHE
- 2:37 PM Discussion
- 2:40 PM **TCT 192: Late Coronary Healing Assessed with Optical Coherence Tomography after Magnesium Bioresorbable Scaffold Implantation**  
Presenting Author: Christian Oliver Fallesen
- 2:47 PM Discussion
- 2:50 PM **TCT 193: Sustained safety and efficacy of Magmaris bioabsorbable scaffold. A 2 years FU analysis from pooled multicentre italian experience**  
Presenting Author: Stefano Galli
- 2:57 PM Discussion

## BIORESORBABLE SCAFFOLDS - METALLIC

### Bioresorbable Scaffolds - Metallic

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:00 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### Bioresorbable Scaffolds - Metallic

Moderators: Manel Sabate, Pim A.L. Tonino  
Discussants: Bill D. Gogas, Sundeep Mishra, Jean-François Tanguay, Nick E. J. West

- 2:00 PM **TCT 188: Safety and Clinical Performance of the Drug Eluting Absorbable Metal Scaffold in the Treatment of Subjects With de Novo Lesions in Native Coronary Arteries at 36 month Follow up BIOSOLVE II and BIOSOLVE III**  
Presenting Author: Michael Haude
- 2:07 PM Discussion
- 2:10 PM **TCT 189: Magnesium BRS implantation in ACS population midterm follow up**  
Presenting Author: Magdalena Lanocha
- 2:17 PM Discussion
- 2:20 PM **TCT 190: Longterm outcome of magnesium BRS implantation in ACS**  
Presenting Author: Magdalena Lanocha
- 2:27 PM Discussion

## CHRONIC TOTAL OCCLUSIONS - 3

### Chronic Total Occlusions - 3

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:00 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### Chronic Total Occlusions - 3

Moderators: Richard R. Heuser, Jonathan M. Hill  
Discussants: Arun Kalyanasundaram, Samer Mansour, Imre Ungi

- 2:00 PM **TCT 224: High Risk Chronic Total Occlusion Percutaneous Coronary Interventions Assisted with Tandem Heart**  
Presenting Author: Saroj Neupane
- 2:07 PM Discussion
- 2:10 PM **TCT 225: Gender differences in long term outcomes of medical therapy and successful percutaneous coronary intervention for coronary chronic total occlusions**  
Presenting Author: Lei Guo
- 2:17 PM Discussion
- 2:20 PM **TCT 226: ElectroCautery Facilitated Crossing ECFC of Chronic Total Occlusions**  
Presenting Author: Saroj Neupane
- 2:27 PM Discussion
- 2:30 PM **TCT 227: Efficacy of Coronary Sinus Reducer in Patients with non Revascularized Chronic Total Occlusions: a Multicentre Experience**  
Presenting Author: Carlo Zivelonghi
- 2:37 PM Discussion
- 2:40 PM **TCT 228: Impact of Mildly Impaired Renal Function on Clinical Outcomes of Percutaneous Coronary Intervention vs. Medical Therapy for Coronary chronic total occlusions**

Presenting Author: Lei Guo

- 2:47 PM Discussion
- 2:50 PM TCT 229: Outcomes of Investment Procedures in Chronic Total Occlusion Interventions  
Presenting Author: Iosif Xenogiannis
- 2:57 PM Discussion

## CORONARY BIFURCATION INTERVENTION

### Coronary Bifurcation Intervention

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:00 PM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### Coronary Bifurcation Intervention

Moderators: J. Dawn Abbott, Yaron Almagor  
Discussants: Atul Abhyankar, Khaldoun F. Alaswad, Arif Al Nooryani, Vinay K. Bahl, Dimitrios Bliagos

- 2:00 PM TCT 242: Detection and Classification of Coronary Bifurcation Lesions by Using Artificial Intelligence  
Presenting Author: Xuqing Liu
- 2:07 PM Discussion
- 2:10 PM TCT 243: Rotablation approach for bifurcation lesions  
Presenting Author: Jorge Palazuelos
- 2:17 PM Discussion
- 2:20 PM TCT 244: Impact of Different Methods of Lesion Preparation on Side Branches in Calcified Coronary Bifurcations: A Subanalysis of the Randomized PREPARE CALC Trial.  
Presenting Author: Abdelhakim Allali
- 2:27 PM Discussion
- 2:30 PM TCT 245: Contemporary Bifurcation Treatment Practice: What We Can Learn From a Large Global Registry  
Presenting Author: Bernard R. Chevalier
- 2:37 PM Discussion
- 2:40 PM TCT 246: The Efficacy of Modified Jailed Balloon Technique for Bifurcation Lesions in Long term Follow up  
Presenting Author: Koki Shishido
- 2:47 PM Discussion
- 2:50 PM TCT 247: The relationship between Balloon Pressure and Mid term Restenosis in Second generation DES Implantation for Non left Main Trunk Bifurcation Lesions by Culotte Stenting  
Presenting Author: KOYA OKABE
- 2:57 PM Discussion

## IMAGING-DERIVED PHYSIOLOGIC LESION ASSESSMENT - 2

### Imaging-Derived Physiologic Lesion Assessment - 2

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 2:50 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 2:50 PM

#### Imaging-Derived Physiologic Lesion Assessment - 2

Moderators: Tim P. Van de Hoef, Bonnie H. Weiner  
Discussants: John McB. Hodgson, Haibo Jia

- 2:00 PM TCT 329: Full Hemodynamic Characterization Of Intracoronary Physiology: Merging Advanced Grayscale Intravascular Ultrasound With Fractional Flow Reserve  
Presenting Author: Cristiano Guedes Bezerra
- 2:07 PM Discussion
- 2:10 PM TCT 330: Accuracy of virtual coronary stenting using computed tomography derived fractional flow reserve  
Presenting Author: Pepijn van Diemen
- 2:17 PM Discussion
- 2:20 PM TCT 331: Correlation Between 3D QCA Based FFR and Quantitative Lumen Assessment by IVUS for Left Main Coronary Stenoses the FAST Left Main Study  
Presenting Author: Mariusz Tomaniak
- 2:27 PM Discussion
- 2:30 PM TCT 332: Pre op Diagnosis of Silent Coronary Ischemia Using CT derived Fractional Flow Reserve FFRCT may Reduce Post op MI and Death in Patients Undergoing Peripheral Vascular Surgery  
Presenting Author: Dainis K. Krievins
- 2:37 PM Discussion
- 2:40 PM TCT 333: Comparison of Diagnostic Accuracy between Quantitative Flow Ratio QFR Instantaneous Wave free Ratio iFR and DILEMMA score against Fractional Flow Reserve FFR  
Presenting Author: Ojas Mehta
- 2:47 PM Discussion

## SVG INTERVENTION

### SVG Intervention

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:00 PM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

2:00 PM - 3:00 PM

#### SVG Intervention

- 2:00 PM **TCT 673: Retrograde Chronic Total Occlusion Percutaneous Coronary Interventions via Saphenous Vein Grafts**  
*Presenting Author: Iosif Xenogiannis*
- 2:07 PM **Discussion**
- 2:10 PM **TCT 674: In Stent Restenosis in Saphenous Vein Grafts: Insights From the DIVA trial**  
*Presenting Author: Iosif Xenogiannis*
- 2:17 PM **Discussion**
- 2:20 PM **TCT 675: Direct Stenting versus Adjunctive Balloon Angioplasty for Saphenous Vein Graft Percutaneous Coronary Intervention**  
*Presenting Author: Faisal Latif*
- 2:27 PM **Discussion**
- 2:30 PM **TCT 676: Outcomes Following Percutaneous Coronary Intervention PCI in Saphenous Vein Grafts SVG with and without Embolic Protection Device**  
*Presenting Author: Ahmad Shoaib*
- 2:37 PM **Discussion**
- 2:40 PM **TCT 677: Bare Metal Versus Drug Eluting Stents For Saphenous Vein Graft Interventions: A Systematic Review And Meta Analysis**  
*Presenting Author: Muhammad Siddique Pir*
- 2:47 PM **Discussion**
- 2:50 PM **TCT 678: Long Term Outcomes of Revascularization Post Coronary Artery Bypass Surgery**  
*Presenting Author: Novalia Purnama Sidik*
- 2:57 PM **Discussion**

*Presenting Author: Karolina Jaluba*

- 2:17 PM **Discussion**
- 2:20 PM **TCT 747: Transcatheter Aortic Valve Implantation Using Medtronic Evolut R Versus Medtronic CoreValve in Australia. A Model based Cost effectiveness Analysis**  
*Presenting Author: Jan B. Pietzsch*
- 2:27 PM **Discussion**
- 2:30 PM **TCT 748: Nurse Led Sedation: The Clinical and Echocardiographic Outcomes of the 7 Year Emory Experience**  
*Presenting Author: John Lisko*
- 2:37 PM **Discussion**
- 2:40 PM **TCT 749: The Influence of Severe Aortic Valve Stenosis on Five year Economic Outcomes Among Older Medicare Beneficiaries.**  
*Presenting Author: Abdulla Damluji*
- 2:47 PM **Discussion**
- 2:50 PM **TCT 750: Hospital Inpatient Percutaneous Coronary Intervention Volume Does Not Impact Transcatheter Aortic Valve Replacement and MitraClip Outcomes**  
*Presenting Author: Neel Butala*
- 2:57 PM **Discussion**

## TAVR: CLINICAL ACCESS AND COST-EFFECTIVENESS - 2

## TAVR VS. SAVR AND TAVR VS. TAVR - 1

### TAVR: Clinical Access and Cost-Effectiveness - 2

### TAVR vs. SAVR and TAVR vs. TAVR - 1

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

2:00 PM - 3:00 PM

The Moscone Center

2:00 PM - 3:00 PM

### TAVR vs. SAVR and TAVR vs. TAVR - 1

*Moderators: Marc Ruel*  
*Discussants: Carlos E. Ruiz, Ulrich Schäfer, Hiroo Takayama*

- 2:00 PM **TCT 721: Outcomes of Transcatheter versus Surgical Aortic Valve Replacement in Low Risk Patients: A Meta Analysis of Randomized Controlled Trials**  
*Presenting Author: Matias Yudi*
- 2:07 PM **Discussion**
- 2:10 PM **TCT 722: Temporal Trends of 30 Day Readmission for Patients Undergoing Transcatheter or Surgical Aortic Valve Replacement: A Nationwide Cohort Study**  
*Presenting Author: Yasser Al-khadra*
- 2:17 PM **Discussion**
- 2:20 PM **TCT 723: Transcatheter versus Surgical Aortic Valve Replacement in Patients with Severe Aortic Stenosis: A Systematic Review and Meta analysis of Randomized Controlled Trials**  
*Presenting Author: Lian Wang*
- 2:27 PM **Discussion**

2:00 PM - 3:00 PM

### TAVR: Clinical Access and Cost-Effectiveness - 2

*Discussant: Gary Gershony, Cheryl Pegus, Bernadette S. Speiser*

- 2:00 PM **TCT 745: Insights in to Sex Differences in Transfemoral Transcatheter Aortic Valve Implantation from 2007 2018: From the CENTER collaboration a global patient level analysis of 12 381 patients**  
*Presenting Author: Wieneke Vlastra*
- 2:07 PM **Discussion**
- 2:10 PM **TCT 746: Differences in Transcatheter Aortic Valve Replacement TAVR Outcomes by Gender and Race Over Time**

- 2:30 PM **TCT 724: TAVR Versus SAVR on Outcomes in Patients With and Without Atrial Fibrillation**  
*Presenting Author: Kranthi Sitammagari*
- 2:37 PM **Discussion**
- 2:40 PM **TCT 725: Comparative Study of the Hemodynamic Performance of Two Latest Generation Supra annular Self expanding Transcatheter Aortic Valves Allegra versus ACURATE neo.**  
*Presenting Author: Ariana González*
- 2:47 PM **Discussion**
- 2:50 PM **TCT 726: Infolding of Self Expanding Transcatheter Aortic Valve: Diagnosis Management and Outcomes**  
*Presenting Author: Anees Musallam*
- 2:57 PM **Discussion**

*Presenting Author: Ridhima Goel*

- 3:47 PM **Discussion**
- 3:50 PM **TCT 157: Budget Implications of AF Stroke Risk Reduction Strategies to Medicare and Medicare Beneficiaries: An Analysis of Pooled Long term Trial Data**  
*Presenting Author: Vivek Y. Reddy*
- 3:57 PM **Discussion**

## ATRIAL FIBRILLATION IN PATIENTS UNDERGOING CATHETER-BASED INTERVENTION

## INTRAVASCULAR IMAGING - 3

### Intravascular Imaging - 3

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

### Intravascular Imaging - 3

*Moderators: Hector M. Garcia-Garcia, Bill D. Gogas*  
*Discussants: Ning Guo, John McB. Hodgson, Takashi Kubo*

- 3:00 PM **TCT 352: Deep Learning Based Fully Automated Segmentation of IVUS for Quantitative Measurement**  
*Presenting Author: Jing Yang*
- 3:07 PM **Discussion**
- 3:10 PM **TCT 353: Comparison of plaque distribution and wire free functional assessment in the target vessel of patients with stable angina pectoris and non ST elevation myocardial infarction by deoxyribonucleic acid repair activity: An optical coherence tomography and quantitative flow ratio study**  
*Presenting Author: Kazuhiro Dan*
- 3:17 PM **Discussion**
- 3:20 PM **TCT 354: Evaluation of a New Food and Drug Administration Approved Optical Coherence Tomography Method for Stent Expansion in an All Comers Population**  
*Presenting Author: Luis Dallan*
- 3:27 PM **Discussion**
- 3:30 PM **TCT 355: Serial baseline and follow up optical coherence tomography analysis of the causes of stent failure**  
*Presenting Author: mingyou zhang*
- 3:37 PM **Discussion**
- 3:40 PM **TCT 356: Coronary Artery Axial Deformation in Native Compared to Stented Arteries**  
*Presenting Author: Logan Schwarzman*
- 3:47 PM **Discussion**
- 3:50 PM **TCT 357: Incidence and Clinical Impact of Calcified Nodule in Patients with Severely Calcified Lesions Requiring Rotational Atherectomy**  
*Presenting Author: Toru Morofuji*
- 3:57 PM **Discussion**

### Atrial Fibrillation in Patients Undergoing Catheter-Based Intervention

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

The Moscone Center

3:00 PM - 4:00 PM

### Atrial Fibrillation in Patients Undergoing Catheter-Based Intervention

*Moderators: Kurt Huber, Michael A. Kutcher*  
*Discussants: Martin W. Bergmann, Petr Kala, Duk-Woo Park, Ramon Quesada*

- 3:00 PM **TCT 152: Use of the PRECISE DAPT score to predict mortality in patients with atrial fibrillation undergoing percutaneous coronary intervention.**  
*Presenting Author: Anum Asif*
- 3:07 PM **Discussion**
- 3:10 PM **TCT 153: Impact of Atrial Fibrillation on Revascularization Strategies in Patients with Acute Myocardial Infarction**  
*Presenting Author: poonam bhyan*
- 3:17 PM **Discussion**
- 3:20 PM **TCT 154: In hospital Outcome of Endovascular Intervention vs Surgical Revascularization among Patients with Atrial Fibrillation**  
*Presenting Author: Homam Moussa Pacha*
- 3:27 PM **Discussion**
- 3:30 PM **TCT 155: In hospital Outcomes and Trends of Limb Revascularization Procedures in Patients with and without Atrial fibrillation**  
*Presenting Author: Homam Moussa Pacha*
- 3:37 PM **Discussion**
- 3:40 PM **TCT 156: Patterns of Therapy Cessation in Patients with Atrial Fibrillation Undergoing Percutaneous Coronary Intervention: Insights from the AVIATOR 2 International Registry**

## OUT-OF-HOSPITAL ARREST

### Out-of-Hospital Arrest

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

#### Out-of-Hospital Arrest

Moderators: Richard Smalling, Jack Wei Chieh Tan  
Discussants: Thomas D. Stuckey, George W. Vetrovec, Marco V. Wainstein

- 3:00 PM **TCT 519: Impact of Immediate Coronary Angiography on In hospital and Intermediate Term Survival In Patients With Out of Hospital Cardiac Arrest And No ST Segment Elevation: Updated Meta Analysis**  
*Presenting Author: Bhavi Pandya*
- 3:07 PM **Discussion**
- 3:10 PM **TCT 520: Optimal Timing of Coronary Intervention in Patient Survived from Cardiac Arrest Without ST Acute Coronary Syndrome: A Systematic Review and Meta analysis**  
*Presenting Author: mahmoud barbarawi*
- 3:17 PM **Discussion**
- 3:20 PM **TCT 521: Immediate Neurologic Recovery After Out of Hospital Cardiac Arrest is the Only Multivariate Predictor of Survival**  
*Presenting Author: Amir Khan*
- 3:27 PM **Discussion**
- 3:30 PM **TCT 522: Single tertiary center UK experience across 2 large sites for patients presenting as out of hospital cardiac arrests OHCA's**  
*Presenting Author: Sharmaine Thiru*
- 3:37 PM **Discussion**
- 3:40 PM **TCT 523: Rapid Neurological Recovery Predicts Survival in Out Of Hospital Cardiac Arrest OHCA Due to Acute Ischemia Regardless of ECG Pattern**  
*Presenting Author: Amir Khan*
- 3:47 PM **Discussion**
- 3:50 PM **TCT 524: Sex Differences in Survival From Out of Hospital Cardiac Arrest: Insights from the National Inpatient Sample**  
*Presenting Author: Yulanka Castro*
- 3:57 PM **Discussion**

## PERIPHERAL VASCULAR INTERVENTION - 4

### Peripheral Vascular Intervention - 4

Vascular

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

#### Peripheral Vascular Intervention - 4

Moderators: Debabrata Mukherjee  
Discussants: Jan Kovac, Michael S. Lee, Jihad A. Mustapha, Ivo Petrov

- 3:00 PM **TCT 569: Periprocedural Outcomes of Lead Extraction in Patients With or Without Abandoned Leads: A Metanalysis**  
*Presenting Author: Varun Kohli*
- 3:07 PM **Discussion**
- 3:10 PM **TCT 570: Impact of Modified Composite WIFI Score Including Patient Background and Anatomic pattern for Predicting Wound healing on Clinical Outcomes in Chronic Limb Threatening Ischemia Patients after Endovascular Therapy**  
*Presenting Author: Kenji Makino*
- 3:17 PM **Discussion**
- 3:20 PM **TCT 571: Glasgow Prognostic Score Predict the Clinical Outcomes in Critical Limb Ischemia with Tissue Loss after Endovascular Treatment**  
*Presenting Author: Kenji Makino*
- 3:27 PM **Discussion**
- 3:30 PM **TCT 572: Clinical outcomes of critical limb ischemia patients with angiographic dissection after balloon angioplasty for infrapopliteal artery disease.**  
*Presenting Author: TOMOYA FUKAGAWA*
- 3:37 PM **Discussion**
- 3:40 PM **TCT 573: Direct transpedal pressure measurement during transpedal below the knee interventions in critical limb ischemia**  
*Presenting Author: Zoltan Ruzsa*
- 3:47 PM **Discussion**
- 3:50 PM **TCT 574: More Fresh Thrombi in Cardio Embolic Than Vascular Related Acute Vessel Syndromes**  
*Presenting Author: Martijn Meuwissen*
- 3:57 PM **Discussion**

## RESTING PHYSIOLOGIC INDICES

### Resting Physiologic Indices

Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

#### Resting Physiologic Indices

Moderators: Guy J. Friedrich  
Discussants: Felix Bohm, Carlos Collet, Joost Daemen, Peter J. Fitzgerald

- 3:00 PM **TCT 621: Diagnostic performance of resting full cycle ratio as newly developed non hyperemic indices for physiological lesion assessment when directly compared with fractional flow reserve as a reference standard**



Presenting Author: HIROFUMI OHASHI

- 3:07 PM Discussion  
3:10 PM TCT 622: Respiration related variations in PdPa ratio and fractional flow reserve in resting conditions and during intravenous adenosine administration.  
Presenting Author: Rutger Feenstra
- 3:17 PM Discussion  
3:20 PM TCT 623: Objective identification of stenoses inducing myocardial ischemia using sequential iFR FFR and intracoronary flow measurements  
Presenting Author: Valérie E. Stegehuis
- 3:27 PM Discussion  
3:30 PM TCT 624: The Utility of Saline induced Resting Full cycle Ratio Compared with Resting Full cycle ratio and Fractional Flow Reserve  
Presenting Author: Takao Sato
- 3:37 PM Discussion  
3:40 PM TCT 625: Coronary physiologic parameters and discordance between Resting Full cycle Ratio and FFR based decision making on myocardial revascularization  
Presenting Author: Łukasz Niewiara
- 3:47 PM Discussion  
3:50 PM TCT 626: Correlation between fractional flow reserve and resting full cycle ratio RFR in the assessment of the clinical significance of borderline stenosis in patient with stable coronary artery disease  
Presenting Author: Bartłomiej Guzik
- 3:57 PM Discussion

## TAVR COMORBIDITIES AND COMPLICATIONS - 1

### TAVR Comorbidities and Complications - 1

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

Moderated Posters 5, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

#### TAVR Comorbidities and Complications - 1

Moderators: Talib Majwal, Francesco Saia Discussants: Andrzej J. Ochala, Petra Poliacikova, Pinak B. Shah, Alan C. Yeung

- 3:00 PM TCT 691: Clinical Results of Rescue Balloon Valvuloplasty for severe Aortic valve stenosis in patients with severe heart failure and cardiogenic shock in a community hospital without onsite TAVR facility  
Presenting Author: Wolfgang Gerhard Bocksch
- 3:07 PM Discussion  
3:10 PM TCT 692: Cerebral embolization in TAVR: valve type matters  
Presenting Author: Christina Brinkmann

- 3:17 PM Discussion  
3:20 PM TCT 693: Aortic Valve Calcification Volumes and Chronic Brain Infarctions in Patients Undergoing Transcatheter Aortic Valve Implantation  
Presenting Author: Wieneke Vlastra
- 3:27 PM Discussion  
3:30 PM TCT 694: Prognostic Impact of Aortic Valve Calcification in Patients With Low Flow Low Gradient Aortic Stenosis Undergoing Transcatheter Aortic Valve Replacement  
Presenting Author: Sebastian Ludwig
- 3:37 PM Discussion  
3:40 PM TCT 695: Protection against Cerebral embolism during Transcatheter Aortic Valve Replacement: A systematic review and Meta analysis  
Presenting Author: samineh sehatbakhsh
- 3:47 PM Discussion  
3:50 PM TCT 696: Cardiac Output and Cerebral Blood Flow in Patients with Severe Aortic Valve Stenosis undergoing Transcatheter Aortic Valve Implantation  
Presenting Author: Wieneke Vlastra
- 3:57 PM Discussion

## TREATMENT OF CONGENITAL HEART DISEASES - 2

### Treatment of Congenital Heart Diseases - 2

Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

#### Treatment of Congenital Heart Diseases - 2

Discussant: Matthew A. Crystal, Frank F. Ing, Xiangbin Pan, Harsimran Sachdeva Singh

- 3:00 PM TCT 771: Percutaneous device closure of ruptured sinus of Valsalva: feasibility of transthoracic echocardiography assisted procedure  
Presenting Author: Arvind Balaji
- 3:07 PM Discussion  
3:10 PM TCT 772: Lack of thrombosis and other stitch related complication after percutaneous suture mediated closure of patent foramen ovale: a 120000 patient days follow study  
Presenting Author: Gregory Squeglia
- 3:17 PM Discussion  
3:20 PM TCT 773: Percutaneous Closure of Patent Foramen Ovale in Patients With Migraine A Patient Level Meta Analysis of PREMIUM and PRIMA Trials  
Presenting Author: Preetham Kumar
- 3:27 PM Discussion

- 3:30 PM **TCT 774: Percutaneous closure of septum secundum ASD**  
*Presenting Author: Mohammad Mehdi Ansari*
- 3:37 PM **Discussion**
- 3:40 PM **TCT 775: Validation Study of Intra Cardiac Echocardiography in Trans Catheter Closure of Patent Ductus Areteriosus**  
*Presenting Author: KENJI SUDA*
- 3:47 PM **Discussion**
- 3:50 PM **TCT 776: Secondary Prevention of Ischemic Stroke Following Cryptogenic Stroke in Patients With Patent Foramen Ovale: A Meta Analysis of Randomized Controlled Trials**  
*Presenting Author: Babikir Kheiri*
- 3:57 PM **Discussion**

- 3:50 PM **TCT 789: Comparison of Radial With Femoral Access Coronary Angiography in Patients With Previous Coronary Artery Bypass Surgery**  
*Presenting Author: amir orlev*
- 3:57 PM **Discussion**

## CATH LAB OF THE FUTURE - 2

### Cath Lab of the Future - 2

#### Coronary: Core

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 5:00 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 5:00 PM

### Cath Lab of the Future - 2

*Moderators: Steven R. Bailey, William J. French*  
*Discussants: H. Vernon Anderson, David L. Fischman, Manish A. Parikh, George W. Vetrovec*

- 4:00 PM **TCT 200: Reduced Radiation Exposure in the Cardiac Catheterization Laboratory using Combination of both Horizontal and a Novel Vertical Radiation Shield.**  
*Presenting Author: Carmelo Panetta*
- 4:07 PM **Discussion**
- 4:10 PM **TCT 201: Does a Coronary Calcium score Zero reliably rule out coronary artery disease in low to intermediate risk patients A coronary CTA study.**  
*Presenting Author: Gudrun Feuchtnr*
- 4:17 PM **Discussion**
- 4:20 PM **TCT 202: Predicting Revascularization Rate of Positive CT FFR vs Invasive FFR in Elevated Coronary Calcium Score**  
*Presenting Author: Rajbir Sidhu*
- 4:27 PM **Discussion**
- 4:30 PM **TCT 203: The role of CT angiography in a management strategy based on high sensitivity cardiac troponin T for predicting an early prognosis in patients with acute chest pain admitted to the emergency department.**  
*Presenting Author: Jae Gyung Kim*
- 4:37 PM **Discussion**
- 4:40 PM **TCT 204: Evaluation and Validation of the Beckman Coulter ACCESS High Sensitivity Troponin I Assay using a Novel Single Cut Off Strategy for an Early Rule Out Acute Coronary Syndrome Protocol ACS ERP in a Real World Emergency Department Population.**  
*Presenting Author: Kalaivani Mahadevan*
- 4:47 PM **Discussion**
- 4:50 PM **TCT 205: Clinical Management and Primary Prevention in Suspected Coronary Artery Disease Guided by Computed Tomography Angiography**  
*Presenting Author: Fabian Plank*

## VASCULAR ACCESS FOR TAVR - 1

### Vascular Access for TAVR - 1

#### Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

3:00 PM - 4:00 PM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

3:00 PM - 4:00 PM

### Vascular Access for TAVR - 1

*Moderators: Paul D. Mahoney*  
*Discussants: Tsuyoshi Kaneko, Robert J. Lederman, Rajeev Narayan, Andres Pineda*

- 3:00 PM **TCT 801: Vascular complications in Transaxillary TAVI: Incidence and predictors incorporating CTA measurements**  
*Presenting Author: marleen van Wely*
- 3:07 PM **Discussion**
- 3:10 PM **TCT 802: A Novel Ultrasound navigated versus Conventional Vascular Closing Technique using MANTA following Transfemoral Transcatheter Aortic Valve Replacement**  
*Presenting Author: Noriaki Moriyama*
- 3:17 PM **Discussion**
- 3:20 PM **TCT 803: Clinical outcomes after TAVR in patients with and without peripheral arterial disease: Results from the BRAVO 3 Randomized Trial**  
*Presenting Author: Rishi Chandiramani*
- 3:27 PM **Discussion**
- 3:30 PM **TCT 804: Outcomes of Trans Carotid TAVR in a high volume center**  
*Presenting Author: Vishesh Kumar*
- 3:37 PM **Discussion**
- 3:40 PM **TCT 805: Impact of Major Vascular Complications on Outcome following Transfemoral Transcatheter Aortic Valve Replacement**  
*Presenting Author: Noriaki Moriyama*
- 3:47 PM **Discussion**

## CORONARY PERFORATION AND CARDIAC TAMPONADE

### Coronary Perforation and Cardiac Tamponade

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 4:50 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 4:50 PM

#### Coronary Perforation and Cardiac Tamponade

Moderators: Itshac Itsik Ben-dor Discussants: Wacin Buddhari, James Cockburn

4:00 PM **TCT 248: Coronary Artery Perforation During Chronic Total Occlusion Percutaneous Coronary Intervention: Epidemiology Mechanisms Management and Outcomes**  
Presenting Author: Lorenzo Azzalini

4:07 PM Discussion

4:10 PM **TCT 249: Coronary Artery Perforations: Glasgow Natural History Study of Covered Stent Coronary Interventions GNOCCI study**  
Presenting Author: Tom J. Ford

4:17 PM Discussion

4:20 PM **TCT 250: Prevalence and Predictors of Coronary Artery Perforation during Percutaneous Coronary Interventions data from the ORPKI National Registry in Poland**  
Presenting Author: Michal Wegiel

4:27 PM Discussion

4:30 PM **TCT 251: SOS PK Papyrus an Observational Study of Patients with Covered PK Papyrus Stent.**  
Presenting Author: Loic Belle

4:37 PM Discussion

4:40 PM **TCT 252: Pericardial Tamponade Secondary to Complications of Interventional and Endovascular Procedures**  
Presenting Author: Daniel Johnsrud

4:47 PM Discussion

4:00 PM - 4:50 PM

#### Interventional Heart Failure

Moderators: Magdy Abdelhamid Discussants: David A. Baran, Mark Goldberger

4:00 PM **TCT 335: Interventional Outflow Graft Closure in Patients with Left Ventricular Assist Device Unsuitable for Surgical Explantation**  
Presenting Author: Marcus Sandri

4:07 PM Discussion

4:10 PM **TCT 336: Use of a percutaneous temporary mechanical circulatory support as a bridge to decision in advanced heart failure patients listed for heart transplantation.**  
Presenting Author: Alexis Okoh

4:17 PM Discussion

4:20 PM **TCT 337: Outcomes of heart failure with reduced ejection fraction HFREF status post implantable cardioverter defibrillator ICD presenting with HFREF exacerbation with versus without atrial fibrillation AF**  
Presenting Author: Hassaan Arshad

4:27 PM Discussion

4:30 PM **TCT 338: Electrical Microcurrent Therapy for Treatment of Chronic Systolic Heart Failure: Animal and First in Man Data**  
Presenting Author: L. Christian Napp

4:37 PM Discussion

4:40 PM **TCT 339: Partial Inferior Vena Cava Occlusion During Exercise in Heart Failure Patients Prevents Left Ventricular Pressure Overload Improves Exercise Times and Reduces Respiratory Rate: Mechanical Balancing of Bi Ventricular Function as a Novel Therapy for Heart Failure Qualify of Life**  
Presenting Author: Daniel Kaiser

4:47 PM Discussion

## STENT THROMBOSIS AND RESTENOSIS - 2

### Stent Thrombosis and Restenosis - 2

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 4:50 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 4:50 PM

#### Stent Thrombosis and Restenosis - 2

Moderators: Bimmer E. Claessen Discussants: Kevin J. Croce, Imad Sheiban, Sigmund Silber, Yasunori Ueda

4:00 PM **TCT 662: Patients Who Do Not Receive Drug Eluting Stent for In Stent Restenosis Characteristics and Outcomes**

## INTERVENTIONAL HEART FAILURE

### Interventional Heart Failure

Structural: Non-Valve

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 4:50 PM

Moderated Posters 5, Exhibit Hall, Exhibition Level, Moscone South

Presenting Author: Bimmer E. Claessen

- 4:07 PM Discussion
- 4:10 PM **TCT 663: Very Very Late Stent Thrombosis Beyond Five Years: Some Wounds Never Heal**  
*Presenting Author: LIVIA LUCIANA GHEORGHE*
- 4:17 PM Discussion
- 4:20 PM **TCT 664: Overlapping Drug Eluting Stent Increases Definite Stent Thrombosis and Revascularization: Results from 15561 Patients in The AUTHENTIC Study**  
*Presenting Author: Xiang Chen*
- 4:27 PM Discussion
- 4:30 PM **TCT 665: Experience with Excimer laser in Percutaneous Coronary Intervention with Indications Procedural Characteristics Complications and Outcomes in a Large University Teaching Hospital**  
*Presenting Author: Muhammad Jawad Ul Qamar*
- 4:37 PM Discussion
- 4:40 PM **TCT 666: Percutaneous Coronary Intervention in In Stent Restenosis Lesions with Second Generation Drug Coated Balloons: Results at a Long Term Follow Up.**  
*Presenting Author: IGNACIO SANCHEZ PEREZ*
- 4:47 PM Discussion

- 4:27 PM Discussion
- 4:30 PM **TCT 809: Comparison of transcarotid vs. complex transfemoral access in patients undergoing transcatheter Aortic Valve Implantation TAVI**  
*Presenting Author: Thomas Gandet*
- 4:37 PM Discussion
- 4:40 PM **TCT 810: Outcomes after percutaneous closure of access site in transfemoral TAVR using the novel vascular closure device plug based MANTA**  
*Presenting Author: LIVIA LUCIANA GHEORGHE*
- 4:47 PM Discussion

## VENTRICULAR ASSIST AND MANAGEMENT OF CARDIOGENIC SHOCK - 3

### Ventricular Assist and Management of Cardiogenic Shock - 3

Coronary: CHIP

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 4:50 PM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 4:50 PM

### Ventricular Assist and Management of Cardiogenic Shock - 3

Moderators: Gert Richardt Discussants: Arnold Seto, Fayaz Shawl, Satya Shreenivas

- 4:00 PM **TCT 822: Culprit Vessel Only Versus Multivessel Percutaneous Coronary Intervention in Patients With NSTEMI and Cardiogenic Shock: Insights From the NCDR CathPCI Registry**  
*Presenting Author: Mohamed Omer*
- 4:07 PM Discussion
- 4:10 PM **TCT 823: Percutaneous Balloon Atrial Septostomy for Left Ventricle Unloading in Patients under ECLS.**  
*Presenting Author: Guillaume Leurent*
- 4:17 PM Discussion
- 4:20 PM **TCT 824: Is there any difference between Intra Aortic Balloon Pump and peripheral LVAD for treatment of Cardiogenic Shock : A Clinical comparison**  
*Presenting Author: Daniel Garcia, MD*
- 4:27 PM Discussion
- 4:30 PM **TCT 825: A Novel Post Closure Method for Hemostatic Removal of the Impella CP Pump Among Patients with Cardiogenic Shock**  
*Presenting Author: Colin Hirst*
- 4:37 PM Discussion
- 4:40 PM **TCT 826: Gender Disparities in Survival Outcomes in Acute Myocardial Infarction Complicated by Cardiogenic Shock Treated with Advanced Mechanical Circulatory Support**  
*Presenting Author: Michael Sobieraj*
- 4:47 PM Discussion

## VASCULAR ACCESS FOR TAVR - 2

### Vascular Access for TAVR - 2

Structural: Valve

FRIDAY, SEPTEMBER 27, 2019

4:00 PM - 4:50 PM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

4:00 PM - 4:50 PM

### Vascular Access for TAVR - 2

Moderators: Gregory P. Fontana, Michael Rinaldi Discussants: Saif Anwaruddin, Chandan Devireddy

- 4:00 PM **TCT 806: Achieving a one hundred percent trans femoral TAVR approach in all comers: too risky for patients with peripheral artery disease**  
*Presenting Author: Christina Brinkmann*
- 4:07 PM Discussion
- 4:10 PM **TCT 807: Outcomes of Transcatheter Aortic Valve Replacement Using Non Transfemoral Access Single Center Experience**  
*Presenting Author: Dhaval Desai*
- 4:17 PM Discussion
- 4:20 PM **TCT 808: TRANSFEMORAL TRANSCATHETER AORTIC VALVE REPLACEMENT USING FASCIA ILIACA BLOCK AS AN ALTERNATIVE APPROACH TO CONSCIOUS SEDATION AS COMPARE TO GENERAL ANESTHESIA: FINDINGS FROM A SINGLE CENTER**  
*Presenting Author: Wei Lau*

# SATURDAY, SEPTEMBER 28, 2019

## MAIN ARENA III, SATURDAY, SEPT. 28

### Main Arena III, Saturday, Sept. 28

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 1:15 PM

Main Arena

8:00 AM - 9:30 AM

#### Live Cases #5

*Live Case Moderators: Martin B. Leon*  
*Live Case Co-Moderators: Saibal Kar, Francesco Maisano*  
*Live Case Discussants: Anita Asgar, Mackram F. Eleid, Kendra J. Grubb, Mayra Guerrero, James B. Hermiller Jr, Tsuyoshi Kaneko, James M. McCabe, David W.M. Muller, Anna Sonia Petronio, Thomas Pilgrim*

8:00 AM **Instituto Dante Pazzanese de Cardiologia Sao Paulo Brazil SHD**

*Live Case Operators: Alexandre Abizaïd, Daniel Chamie, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira*

*Live Case Operators: Alexandre Abizaïd, Daniel Chamie, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira*  
*Live Case Operators: Alexandre Abizaïd, Daniel Chamie, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira*  
*Live Case Guest Operators: Eberhard Grube*

8:45 AM **Cedars Sinai Medical Center Los Angeles CA SHD**

*Live Case Operator: Raj Makkar*

9:30 AM - 10:15 AM

#### Featured Lecture: Freddy Abnoui, Head of Healthcare – Research Facebook

*Moderators: Robert M. Califf*  
*Discussants: Wayne B. Batchelor, Ralph G. Brindis, C. Michael Gibson, Robert A. Harrington, Jessica L. Mega, Roxana Mehran, Cheryl Pegus, Celina M. Yong*

9:30 AM **Featured Lecture: Social Determinants of Health: The Future of Health Assessment in the Digital World**

*Lecturer: Freddy Abnoui*

9:50 AM **Roundtable Discussion With Audience QA**

10:15 AM - 10:30 AM

#### TCT 2019 Linnemeier Young Investigator Award

*Moderator: Martin B. Leon, Gregg W. Stone*

10:15 AM **TCT 2019 Linnemeier Young Investigator Award Presentation**

*Lecturer: Martin B. Leon, Gregg W. Stone*

10:30 AM - 11:30 AM

#### Late-Breaking Trials 3, Co-Sponsored by Journal of the American Medical Association

*Moderators: Juan F. Granada*  
*Discussants: Michael A. Borger, James B. Hermiller Jr, Martin B. Leon, Mark Reisman, Nir Uriel*  
*Co-Moderators: Jean FAJADET, Stuart J. Pocock*

10:30 AM **COAPT: 3 Year Outcomes From a Randomized Trial of the MitraClip in Patients With Heart Failure and Severe Secondary Mitral Regurgitation**

*Lecturer: Michael J. Mack*

10:42 AM **Roundtable Discussion With Audience QA**

10:50 AM **PARTNER 2A: 5 Year Outcomes From a Randomized Trial of Transcatheter vs. Surgical Aortic Valve Replacement in Intermediate Risk Patients With Severe Aortic Stenosis**  
*Lecturer: Vinod H. Thourani*

11:02 AM **Roundtable Discussion With Audience QA**

11:10 AM **EXCEL: 5 Year Outcomes From a Randomized Trial of PCI vs. CABG in Patients With Left Main Coronary Artery Disease**  
*Lecturer: Gregg W. Stone*

11:22 AM **Roundtable Discussion With Audience QA**

11:30 AM - 12:15 PM

#### Live Cases #6

*Live Case Moderators: Kenneth Rosenfield*  
*Live Case Co-Moderators: Jacques Busquet*  
*Live Case Discussants: J. Michael Bacharach, Mark C. Bates, Daniel G. Clair, Tony Das, Philip Green, Richard R. Heuser, Ethan C. Korngold, Hugo F. Londero, Stephen R. Ramee, Gary S. Roubin, Craig M. Walker*

11:30 AM **Lankenau Institute for Medical Research Wynnewood PA Endo**

*Live Case Operator: William A. Gray*

12:15 PM - 1:15 PM

#### Late-Breaking Science 3, Co-Sponsored by Circulation

*Moderators: Joseph A. Hill*  
*Discussants: Michael Böhm, Anthony H. Gershlick, Dharam J. Kumbhani, Sahil A. Parikh, Pieter C. Smits, Craig A. Thompson, Michael A. Weber*  
*Co-Moderators: Rob Gropler, Sunil V. Rao*

12:15 PM **COMPLETE Timing Substudy: A Randomized Trial of Complete Staged Revascularization vs. Infarct Artery PCI Alone in Patients With Acute Myocardial Infarction and Multivessel Disease Importance of Revascularization Timing**

*Lecturer: David A. Wood*

12:25 PM **Roundtable Discussion With Audience QA**

12:30 PM **EURO CTO: 3 Year Outcomes From a Randomized Trial of PCI vs. Medical Therapy in Patients With Chronic Total Coronary Occlusions**

*Lecturer: Gerald S. Werner*

12:40 PM **Roundtable Discussion With Audience QA**

12:45 PM **MODERATO II: A Double Blind Randomized Trial of Cardiac Neuromodulation Therapy in Patients With Hypertension**

*Lecturer: Karl-Heinz Kuck*

12:55 PM **Roundtable Discussion With Audience QA**

1:00 PM **LEVANT: 5 Year Outcomes From Three Randomized Trials of Percutaneous Angioplasty With vs. Without a Drug Coated Balloon in Patients With Femoropopliteal Arterial Disease**

*Lecturer: Kenneth Ouriel*

1:10 PM **Roundtable Discussion With Audience QA**

## LIVE CASE TRANSMISSION THEATER V, SATURDAY, SEPT. 28

### Live Case Transmission Theater V, Saturday, Sept. 28

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 12:00 PM

Live Case Theater

8:00 AM - 10:15 AM

**Session I. Live Cases: Coronary**

Live Case Moderators: George D. Dangas Live Case Co-Moderators: Susheel K. Kodali Live Case Discussants: John A. Ambrose, Dominick J. Angiolillo, Vinay K. Bahl, James C. Blankenship, Sorin J. Brener, Pawel E. Buszman, Simon R. Dixon, Frederick Feit, Anthony H. Gershlick, Victor Guetta, Raja Hatem

8:00 AM **Apollo Hospital Hyderabad India**  
Live Case Operator: RAMA KRISHNA JANAPATI, Sanjeeva Kumar, Sreenivas Arramraju Kumar, Gokul Mandala Reddy

8:45 AM **Golden Jubilee National Hospital Glasgow United Kingdom**  
Live Case Operator: Margaret B. McEntegart

9:30 AM **Apollo Hospital Hyderabad India**  
Live Case Operator: RAMA KRISHNA JANAPATI, Sanjeeva Kumar, Sreenivas Arramraju Kumar, Gokul Mandala Reddy

10:15 AM - 12:00 PM

**Session II. Live Cases: Coronary**

Live Case Moderators: Roxana Mehran Live Case Co-Moderators: Cindy L. Grines Live Case Discussants: Rasha Al-Lamee, Hector M. Garcia-Garcia, Philippe E. Gaspard, E. Magnus Ohman, Mohamed Ahmed Sobhy, Marco Valgimigli, Pascal Vranckx, Bonnie H. Weiner

10:15 AM **Golden Jubilee National Hospital Glasgow United Kingdom**  
Live Case Operator: Margaret B. McEntegart

11:00 AM **Instituto Dante Pazzanese de Cardiologia Sau Paulo Brazil**  
Live Case Operators: Alexandre Abizaid, Daniel Chamie, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira  
Live Case Operators: Alexandre Abizaid, Daniel Chamie, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira Live Case Operators: Alexandre Abizaid, Daniel Chamie, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira Live Case Guest Operators: Eberhard Grube

## LIVE CASE TRANSMISSION THEATER VI, SATURDAY, SEPT. 28

### Live Case Transmission Theater VI, Saturday, Sept. 28

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 6:00 PM  
Live Case Theater

2:00 PM - 2:45 PM

**Session I. Live Cases: Endovascular**

Live Case Moderators: Christopher J. White Live Case Co-Moderators: Sahil A. Parikh Live Case Discussants: Robert Earl Beasley, MD, FSIR, FSCAI, Teresa L. Carman, Tyrone J. Collins, Aaron Horne, Jr., Amit Kakkar, Scott Kinlay, Prakash Krishnan, Jihad A. Mustapha, Julio C. Palmaz, Anand Prasad

2:00 PM **Lankenau Institute for Medical Research Wynnewood PA**  
Live Case Operator: William A. Gray

2:45 PM - 4:15 PM

**Session II. Live Cases: Coronary**

2:45 PM **Instituto Dante Pazzanese de Cardiologia Sau Paulo Brazil**  
Live Case Operators: Alexandre Abizaid, Daniel Chamie, Ricardo A. Costa, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira  
Live Case Operators: Alexandre Abizaid, Daniel Chamie, Ricardo A. Costa, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira Live Case Operators: Alexandre Abizaid, Daniel Chamie, Ricardo A. Costa, Jose de Ribamar Costa Jr, Dimytri Alexandre Siqueira Live Case Guest Operators: Eberhard Grube

3:30 PM **Cedars Sinai Medical Center Los Angeles CA**  
Live Case Operator: Raj Makkar

4:15 PM - 6:00 PM

**Session III. Live Cases: SHD**

Live Case Moderators: Vinod H. Thourani Live Case Co-Moderators: Didier Tchetché Live Case Discussants: Stefan Anker, Eric A. Cohen, Gilles Dreyfus, Neal S. Kleiman, Karl-Heinz Kuck, Alexander Lauten, Robert J. Lederman, Georg Nickenig, Thomas Pilgrim, Joachim Schofer

4:15 PM **Lankenau Institute for Medical Research Wynnewood PA**  
Live Case Operator: William A. Gray

5:00 PM **Cedars Sinai Medical Center Los Angeles CA**  
Live Case Operator: Raj Makkar

## HYPERTENSION THERAPIES: RENAL DENERVATION AND BEYOND

### Hypertension Therapies: Renal Denervation and Beyond

Vascular

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 12:07 PM  
Room 156/158

8:00 AM - 8:59 AM

**Session I: Hypertension Management in 2019 — What Do I Need to Know?**

Moderators: Naomi Fisher, Michael A. Weber Discussants: Herbert D. Aronow, Michael Böhm, Bernard J. Gersh, Thomas F. Luscher, Roland E. Schmieder, Konstantinos P. Tsioufis

8:00 AM **The Essentials of Blood Pressure Measurement: Office Home and Ambulatory And Why It Matters**  
Lecturer: Michael A. Weber

8:08 AM **Roundtable Discussion With Audience QA**

8:13 AM **Sex Based Differences in Hypertension Management: Do They Exist**  
Lecturer: Ileana L. Pina

8:20 AM **Roundtable Discussion With Audience QA**

8:24 AM **Race Based Differences in Hypertension Management: Whats Relevant**  
Lecturer: Clyde W. Yancy

8:31 AM **Roundtable Discussion With Audience QA**

8:35 AM **Non Adherence in Uncontrolled Hypertension: How to Assess and Manage**



Lecturer: Roland E. Schmieder

8:43 AM Roundtable Discussion With Audience QA

8:48 AM Patient Preferences in Hypertension Treatment

Lecturer: David E. Kandzari

8:55 AM Roundtable Discussion With Audience QA

8:59 AM - 11:01 AM

### Session II: Device-Based Hypertension Trial Update — What's New, What's Relevant, and What's Next?

Moderators: Thomas F. Luscher, Felix Mahfoud Discussants: George D. Dangas, Chandan Devireddy, David P. Lee, Melvin D. Lobo, Chaim S. Lotan, Christian Ukena

8:59 AM Update on SPRYRAL Trials Program Radiofrequency Renal Denervation: Lessons Learned Ongoing Efforts

Lecturer: Michael Böhm

9:09 AM Roundtable Discussion With Audience QA

9:14 AM Update on RADIANCE Trials Program Ultra Sound Renal Denervation: Lessons Learned Ongoing Efforts

Lecturer: Ajay J. Kirtane

9:24 AM Roundtable Discussion With Audience QA

9:29 AM Update on Target BP Trials Program Chemical Renal Denervation: Lessons Learned Ongoing Efforts

Lecturer: Felix Mahfoud

9:36 AM Roundtable Discussion With Audience QA

9:40 AM Magnitude of Antihypertensive Effect After Renal Denervation: Is It Sufficient for High Risk as Well as Low Risk Patients

Lecturer: Thomas F. Luscher

9:47 AM Roundtable Discussion With Audience QA

9:51 AM Update on CALM II Trial Endovascular Baroreflex Stimulation

Lecturer: Gregg W. Stone

9:58 AM Roundtable Discussion With Audience QA

10:02 AM Update on ROX Trial Program AV Fistula Creation

10:09 AM Roundtable Discussion With Audience QA

10:11 AM Backbeat Update Pacemaker Mediated Baroreflex Stimulation

Lecturer: Daniel Burkhoff

10:17 AM Roundtable Discussion With Audience QA

10:21 AM Device Based Hypertension Treatments: Defining Responders and Predictors of Response

Lecturer: Naomi Fisher

10:28 AM Roundtable Discussion With Audience QA

10:33 AM Debate: An Outcome Study For Device Based Hypertension Approaches Is...

10:33 AM Pro: An Outcome Study for Device Based Hypertension Approaches Is Needed Before Widespread Use Can Be Recommended

Lecturer: Bernard J. Gersh

10:40 AM Con: An Outcome Study for Device Based Hypertension Approaches Is NOT Needed Before Widespread Use Can Be Recommended

Lecturer: Andrew Sharp

10:47 AM Innovative Trial Designs in Device Based Hypertension Treatment

Lecturer: Atul Pathak

10:54 AM Roundtable Discussion With Audience QA

11:01 AM - 12:07 PM

### Session III: Procedural Aspects and Indications Beyond Hypertension

Moderators: Horst Sievert, Thomas Zeller Discussants: Daniel Burkhoff, Philipp Lurz, Farrell O. Mendelsohn, Ann Marie Navar, Andrew Sharp, Jie Wang

11:01 AM What Are the Essential Differences Between Renal Denervation Devices and Procedures and Do They Matter

Lecturer: Philipp Lurz

11:09 AM Roundtable Discussion With Audience QA

11:14 AM Sensing Renal Nerve Activity Before During and After Denervation I: Autonomix

Lecturer: Robert S. Schwartz

11:20 AM Sensing Renal Nerve Activity Before During and After Denervation II: Symap

Lecturer: Jie Wang

11:26 AM Sensing Renal Nerve Activity Before During and After Denervation III: Pythagoras

Lecturer: Joost Daemen

11:32 AM Roundtable Discussion With Audience QA

11:37 AM Device Based Autonomic Modulation in Heart Failure

Lecturer: Michael Böhm

11:44 AM Device Based Autonomic Modulation in Supraventricular and Ventricular Arrhythmias

Lecturer: Christian Ukena

11:51 AM Device Based Autonomic Modulation in Renal Failure

Lecturer: Roland E. Schmieder

11:58 AM Roundtable Discussion With Audience QA

## TREATMENT OF CORONARY CALCIFICATION

### Treatment of Coronary Calcification

Coronary: CHIP

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 10:00 AM

Room 151/153

8:00 AM - 8:48 AM

### Section I: Overview and Devices

Moderators: J. Dawn Abbott, Azeem Latib Discussants: Mirvat Alasnag, Nirat Beohar, Sarah Fairley, Prashant Kaul, Carey D. Kimmelstiel, Gert Richardt

8:00 AM Case Introductions: A Heavily Calcified Complex Coronary Artery  
Case Presenter: Prashant Kaul

8:02 AM Specialty Balloons and Laser Atherectomy for Coronary Calcification: When and How

Lecturer: Antonio Colombo

8:09 AM **Rotational Atherectomy for Coronary Calcification: When and How**

Lecturer: Annapoorna Kini

8:16 AM **Orbital Atherectomy for Coronary Calcification: When and How**

Lecturer: Richard Shlofmitz

8:23 AM **Intravascular Lithotripsy for Coronary Calcification: When and How**

Lecturer: Jean FAJADET

8:30 AM **Roundtable Discussion With Audience QA**

8:37 AM **Case Resolution: How I Treated This Heavily Calcified Complex Coronary Artery**

Case Presenter: Prashant Kaul

8:41 AM **Treatment of Severely Calcified Lesions: The Need for Comparative Data**

Lecturer: Ajay J. Kirtane

8:48 AM - 10:00 AM

### Section II: Flash Clinical Debates and Case Studies

Moderators: Fazila-Tun-Nesa Malik, Giora WeiszDiscussants: Jithendra Choudary, Michael S. Lee, Akiko Maehara, Joanne Shannon

8:48 AM **Flash Debate 1: Treating Coronary Artery Disease Without Intravascular Imaging Is Like Flying Blind**

Lecturer: Jonathan M. Hill

8:54 AM **Flash Debate 1: I Dont Need Intravascular Imaging to DetectTreat Most Cases of Coronary Calcium**

Lecturer: Samin K. Sharma

9:00 AM **Roundtable Discussion With Audience QA**

9:05 AM **Flash Debate 2: Dont Overthink It Plaque Modification Is Underused for Severely Calcified Coronary Lesions**

Lecturer: Nicolas M. Van Mieghem

9:11 AM **Flash Debate 2: Dont Overthink It Plaque Modification Is Rarely Needed for Severely Calcified Coronary Lesions**

9:17 AM **Roundtable Discussion**

9:21 AM **How to Adequately Prepare Calcified Lesions Step by Step**

Lecturer: Mohamed Abdel-Wahab

9:29 AM **The Future: Imaging Based Algorithm for Device Selection in Coronary Calcium**

Lecturer: Akiko Maehara

9:37 AM **Roundtable Discussion With Audience QA**

9:41 AM **Extreme Atherectomy Cases Tortuosity Stent Underexpansion and Beyond**

Case Presenter: Annapoorna Kini

9:49 AM **Management of Complications Associated With Treatment of Calcified CAD**

Lecturer: Ramzan M. Zakir

9:57 AM **Roundtable Discussion With Audience QA**

## TRICUSPID REGURGITATION: EVOLVING CONCEPTS AND TECHNOLOGIES

## Tricuspid Regurgitation: Evolving Concepts and Technologies

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 12:00 PM

Room 155/157

8:00 AM - 9:10 AM

### Session I: Assessment of Tricuspid Regurgitation Severity and Procedural Planning

Moderators: Jeroen J. Bax, Rebecca T. HahnDiscussants: Luigi P. Badano, João L. Cavalcante, Dmitry B. Levin, Mark Reisman, Maurizio Taramasso, Dee Dee Wang

8:00 AM **Tricuspid Valve Pathobiology: Anatomical Correlations With Multi Modality Imaging**

Lecturer: Dmitry B. Levin

8:08 AM **Case Presentation: The Typical Workflow Assessment in a Patient With Functional TR**

Case Presenter: Susheel K. Kodali

8:16 AM **The Natural History of TR: Disease Progression and Clinical Outcomes**

Lecturer: Jeroen J. Bax

8:24 AM **Roundtable Discussion With Audience QA**

8:32 AM **What the Interventionist Needs to Know About TR Evaluation**

Lecturer: Rebecca T. Hahn

8:40 AM **Anatomical Evaluation Is Not Enough Impact of Physiological TR Assessment in Patient and Device Selection**

Lecturer: Edgard Alexander Prihadi

8:48 AM **Transcatheter Device Therapies for TR Treatment: Lessons Learned From the Surgical World**

Lecturer: Joanna Chikwe

8:56 AM **Roundtable Discussion With Audience QA**

9:10 AM - 10:40 AM

### Session II: Transcatheter Tricuspid Valve Interventions — Part 1

Moderators: Horst Sievert, Molly SzerlipDiscussants: Susheel K. Kodali, Christopher U. Meduri, Thomas Modine, Tamim M. Nazif, Georg Nickenig, Gilbert H.L. Tang

9:10 AM **Case Presentation: A Real World Case of Functional TR Not Considered in the Guidelines**

Case Presenter: Antonio Mangieri

9:15 AM **What the Guidelines Do and Dont Tell Us: The Unmet Clinical Needs**

Lecturer: David H. Adams

9:23 AM **Roundtable Discussion With Audience QA**

9:30 AM **Impact of Surgical Repair Optimization in TR Reduction and Clinical Outcomes**

Lecturer: Hendrik Treede

9:38 AM **Transcatheter Annular Devices: Overview and Outcomes**

Lecturer: Georg Nickenig

- 9:46 AM **Roundtable Discussion With Audience QA**
- 9:54 AM **Risk Assessment Models: Can Surgical Data Assist Risk Prediction in Catheter Based TR Interventions**  
*Lecturer: Alexander Lauten*
- 10:02 AM **Case Presentation: Transcatheter Approach to Torrential Functional TR With Large Coaptation Defects**  
*Case Presenter: Rebecca T. Hahn*
- 10:07 AM **Making the Case for Transcatheter Tricuspid Valve Replacement: Theory and Outcomes to Date**  
*Lecturer: Vinayak N. Bapat*
- 10:15 AM **Roundtable Discussion With Audience QA**
- 10:22 AM **Case Presentation: Pacemaker Related TR Diagnostic Approach and Potential Catheter Based Therapeutic Options**  
*Case Presenter: Tamim M. Nazif*
- 10:27 AM **Redefining Patient Selection and Therapeutic Approach for Tricuspid Valve Interventions**  
*Lecturer: Azeem Latib*
- 10:35 AM **Roundtable Discussion With Audience QA**

10:40 AM - 12:00 PM

**Session III: Transcatheter Tricuspid Valve Interventions — Part 2**

*Moderators: George L. Adams, Azeem Latib*  
*Discussants: Rebecca T. Hahn, Christopher U. Meduri, Georg Nickenig, Didier Tchetché, Stephan Von Bardeleben, Dee Dee Wang*

- 10:40 AM **Building a Tricuspid Valve Program: Early Lessons Challenges and Opportunities**  
*Lecturer: Charles J. Davidson*
- 10:48 AM **Predictors of Procedural Success and Failure: Echocardiographic Insights**  
*Lecturer: Abdellaziz Dahou*
- 10:56 AM **Transcatheter TR Therapies: Lessons Learned From the International TriValve Registry**  
*Lecturer: Maurizio Taramasso*
- 11:04 AM **Roundtable Discussion With Audience QA**
- 11:12 AM **Step by Step Tricuspid Clipping: Echo and Intervention Working Together**  
*Lecturer: Richard Bae*
- 11:29 AM **Roundtable Discussion With Audience QA**
- 11:39 AM **Emerging Catheter Based Therapies: Thinking Outside the Box**  
*Lecturer: Francesco Maisano*
- 11:47 AM **Trial Design for Tricuspid Devices: Perspectives From the FDA**  
*Lecturer: Bernard Vasseur*
- 11:55 AM **Roundtable Discussion With Audience QA**

10:00 AM - 10:50 AM

**Session I: CTO PCI in 2019 — New Data, Terminology, Scoring Systems, and Controversies**

*Moderators: Colm Hanratty, David E. Kandzari*  
*Discussants: Emmanouil S. Brilakis, Evald H. Christiansen, Paul Hsien-Li Kao, Adam C. Salisbury, Gerald S. Werner, Bo Xu*

- 10:00 AM **CTO PCI 2019 Literature Update**  
*Lecturer: Ajay J. Kirtane*
- 10:10 AM **A Universal Dictionary for CTO Terminology and Standardization of CTO PCI Trials CTO ARC**  
*Lecturer: Luiz F. Ybarra*
- 10:17 AM **Debate 1: Are CTO Scores Useful**
- 10:17 AM **Yes They Are and Should Be Part of All Pre Procedural Planning and Case Selection**  
*Lecturer: Alfredo R. Galassi*
- 10:23 AM **No They Are Not: Its All About the Operator**  
*Lecturer: William L. Lombardi*
- 10:29 AM **Roundtable Discussion With Audience QA**  
*Lecturer: William L. Lombardi*
- 10:34 AM **Debate 2: Should CTO PCI Be Performed in Most Patients With Multivessel Disease**
- 10:34 AM **No We Should Not Do Procedures Just Because We Can: Show Me the Data**  
*Lecturer: Robert W. Yeh*
- 10:39 AM **Yes the Goal Should Be Complete Revascularization**  
*Lecturer: Jeffrey W. Moses*
- 10:44 AM **Roundtable Discussion With Audience QA**

10:50 AM - 12:00 PM

**Session II: Procedural Basics**

*Moderators: Georgios Sianos*  
*Discussants: Ingibjorg J. Gudmundsdottir, Arun Kalyanasundaram, Paul Knaapen, Husam Noor, Ling Tao, R. Michael Wyman, Masahisa Yamane*

- 10:50 AM **CTO Guidewire and Technique Update: Navigating the Equipment Maze and the Role of Escalation/De Escalation**  
*Lecturer: Masahisa Yamane*
- 10:57 AM **Microcatheter Update and Manipulation Techniques: Is There a Role for Antegrade and Retrograde Dedicated Microcatheters in 2019**  
*Lecturer: Raja Hatem*
- 11:04 AM **Angiogram Performance and Evaluation for the CTO Operator: Proximal Cap Distal Cap Lesion Length and Collateral Assessment**  
*Lecturer: Sanjog Kalra*
- 11:11 AM **Contemporary Antegrade Dissection and Re Entry: Step by Step Technique**  
*Lecturer: Jennifer A. Tremmel*
- 11:18 AM **The Retrograde Approach: Step by Step Instructions**  
*Lecturer: Georgios Sianos*
- 11:25 AM **CTO PCI Strategies to Navigate The Hierarchy of Risk: From AWE to ADR to Retrograde to Epicardials**

## THE CTO SUMMIT: PART 1

### The CTO Summit: Part 1

Coronary: CHIP

SATURDAY, SEPTEMBER 28, 2019

10:00 AM - 12:00 PM

Room 151/153

Lecturer: Simon J. Walsh

- 11:32 AM **Roundtable Discussion With Audience QA**
- 11:40 AM **IVUS Usage in CTO PCI Stent Optimization Proximal Cap Ambiguity Dissections Re Entry**  
Lecturer: Dimitri Karpaliotis
- 11:48 AM **Maximizing CTO PCI Durability Optimizing Vessel Healing Avoiding Stent Fractures Using Adjunctive Technologies Including Drug Eluting Balloons**  
Lecturer: Paul Knaapen
- 11:56 AM **Roundtable Discussion With Audience QA**

- 3:04 PM **The Absorb BVS Epilogue: How Did We Miss the Safety Signals**  
Lecturer: Michael Joner
- 3:11 PM **Late Benefits From BVS: Theory and Evidence**  
Lecturer: Gregg W. Stone
- 3:18 PM **The Post Absorb BVS Era: Lessons Learned and Implications for Trial Design and Device Approval**  
Lecturer: Andrew Farb
- 3:25 PM **Roundtable Discussion With Audience QA**
- 3:32 PM **BRS Use in Primary PCI: Rational and Emerging Clinical Data**  
Lecturer: Manel Sabate
- 3:39 PM **Magnesium Scaffolds: Clinical Trial Outcomes and Analysis of Device Failures**  
Lecturer: Ulf Landmesser
- 3:46 PM **Bioresorbable Scaffolds: Global Development Pipeline**  
Lecturer: Yoshinobu Onuma
- 3:53 PM **Roundtable Discussion With Audience QA**

## CORONARY DRUG-COATED BALLOONS AND BIORESORBABLE SCAFFOLDS

### Coronary Drug-Coated Balloons and Bioresorbable Scaffolds

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019  
2:00 PM - 4:00 PM  
Room 152/154

2:00 PM - 3:04 PM

#### Focused Scientific Symposium: Drug-Coated Balloons

Moderators: Fernando Alfonso, Antonio Colombo  
Discussants: Kenneth Chin, Franz X. Kleber, Azeem Latib, Jorge F. Saucedo, Bruno Scheller, Pieter R. Stella

- 2:00 PM **Paclitaxel Coated Balloons for Coronary Intervention: Critical Review of Long Term Trial Data in Light of the PAD Controversy The DAEDALUS Collaboration**  
Lecturer: Robert A. Byrne
- 2:07 PM **Tips and Tricks for DCB Use: Optimal Technique Is Still Important**
- 2:14 PM **Drug Coated Balloons for Small Vessels: Latest Trial Evidence**  
Lecturer: Bernardo Cortese
- 2:21 PM **Drug Coated Balloons in De Novo Lesions: Case Vignettes From Europe**  
Case Presenter: Simon Eccleshall
- 2:28 PM **Drug Coated Balloons in De Novo Lesions: Case Vignettes From Asia**  
Case Presenter: Paul JL Ong
- 2:35 PM **Emerging Data on Drug Coated Balloon Use in the High Bleeding or High Thrombotic Risk Patient**  
Lecturer: Bruno Scheller
- 2:42 PM **DAPT After PCI With DCB: Current Guidelines and Special Considerations**  
Lecturer: Marco Valgimigli
- 2:49 PM **Sirolimus Coated Balloon Therapy: State of Development**  
Lecturer: Stefan Verheye
- 2:56 PM **Roundtable Discussion With Audience QA**

3:04 PM - 4:00 PM

#### Focused Scientific Symposium: Bioresorbable Scaffolds

## INTERVENTIONAL HEART FAILURE AND HEMODYNAMIC SUPPORT: CHRONIC THERAPIES

### Interventional Heart Failure and Hemodynamic Support: Chronic Therapies

Structural: Non-Valve

SATURDAY, SEPTEMBER 28, 2019  
2:00 PM - 6:00 PM  
Room 156/158

2:00 PM - 3:32 PM

#### Heart Failure: State of the Art

Moderators: Ileana L. Pina, Nir Uriel  
Discussants: Stefan Anker, Peter Carson, Ulrich P. Jorde, Susan M. Joseph, JoAnn Lindenfeld, James E. Udelson

- 2:00 PM **State of the Art: Current and Future of Medical Therapies for HF**  
Lecturer: Clyde W. Yancy
- 2:12 PM **State of the Art: Device Based Therapies for Heart Failure and Reduced EF**  
Lecturer: Nir Uriel
- 2:24 PM **State of the Art: Latest Insights into the Pathophysiology and Medical and Device Based Therapies for HFrEF**  
Lecturer: Peter Carson
- 2:36 PM **Roundtable Discussion With Audience QA**
- 2:46 PM **Assessment of Volume Status Cardiomechs Endotronix Sensible FiO1 Microtek**  
Lecturer: JoAnn Lindenfeld
- 2:58 PM **Mitral Regurgitation as a Target for Heart Failure and the Relevance of Proportionate vs. Disproportionate MR**

Lecturer: Susan M. Joseph

3:10 PM **Acute Decompensated Heart Failure: Trials and Tribulations**

Lecturer: James E. Udelson

3:22 PM **Roundtable Discussion With Audience QA**

3:32 PM - 4:44 PM

#### Acute Decompensated Heart Failure

Moderators: James E. Udelson, Clyde W. Yancy Discussants: Michael Jonas, Navin K. Kapur, Leslie Miller, Ileana L. Pina, Gabriel Sayer, Jan Van der Heyden

3:32 PM **Pathophysiology of ADHF: Focus on Diuretic Resistance**

Lecturer: Ileana L. Pina

3:39 PM **Whiteswell: Preclinical and Early Clinical Results**

Lecturer: Michael Jonas

3:46 PM **Modulating CVP and PCWP From Above: PreCardia**

Lecturer: Navin K. Kapur

3:53 PM **Improving Renal Perfusion Pressure: Procyron Aortix**

Lecturer: Gabriel Sayer

4:00 PM **Improving Renal Perfusion Pressure: Second Heart**

Lecturer: Leslie Miller

4:07 PM **Reducing Renal Venous Pressure: Magenta**

Lecturer: Jan Van der Heyden

4:14 PM **Reducing Renal Venous Pressure: RevampDoraya Infra Renal Vein Flow Regulator**

Lecturer: Ulrich P. Jorde

4:21 PM **Direct Sodium Removal With an Ambulatory Peritoneal Dialysis System: Sequana**

Lecturer: Jeffrey Testani

4:28 PM **Roundtable Discussion With Audience QA**

4:44 PM - 6:00 PM

#### Device-Based Therapies for Chronic Heart Failure

Moderators: Ulrich P. Jorde, Susan M. Joseph Discussants: Samuel J. Asirvatham, Daniel Burkhoff, Scott Lilly, Chaim S. Lotan, Felix Mahfoud, Mark Reisman

4:44 PM **V Wave for HFrEF and HFpEF**

Lecturer: Gregg W. Stone

4:52 PM **Corvia for HFpEF**

Lecturer: Scott Lilly

5:00 PM **NoYo Interatrial Shunting**

Lecturer: Chaim S. Lotan

5:08 PM **Aortic Arch Neuromodulation for Chronic Heart Failure: EnoPace**

Lecturer: Felix Mahfoud

5:16 PM **Cardiac Contractility Modulation CCM**

Lecturer: Daniel Burkhoff

5:24 PM **Treating Central Sleep Apnea in CHF: Respicardia**

Lecturer: Susan M. Joseph

5:32 PM **Ventricular Reshaping for HF: ANCORA**

Lecturer: Mark Reisman

5:40 PM **Transcatheter Pericardiectomy for HFpEF**

Lecturer: Samuel J. Asirvatham

5:48 PM **Roundtable Discussion With Audience QA**

## THE CTO SUMMIT: PART 2

### The CTO Summit: Part 2

Coronary: CHIP

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 6:00 PM

Room 151/153

2:00 PM - 3:10 PM

#### Session I: CTO PCI Troubleshooting and Algorithms for Success

Moderators: Tony J. DeMartini, Gerald S. Werner Discussants: Mauro Carlino, Lei Ge, Omer Goktekin, Mark J. Goodwin, Ashish Pershad, Minh N. Vo

2:00 PM **The Wire Crosses the Proximal Cap but CTO Is Uncrossable Undilatable: What Now**

Lecturer: Tony J. DeMartini

2:07 PM **Roundtable Discussion With Audience QA**

2:10 PM **I Am at the Distal Landing Zone but Cant Puncture: What Now**

Lecturer: Ashish Pershad

2:17 PM **Roundtable Discussion With Audience QA**

2:20 PM **Epicardial Wiring: Current State of the Art**

Lecturer: Kambis Mashayekhi

2:27 PM **Roundtable Discussion With Audience QA**

2:30 PM **The Wire Has Crossed the Collateral but the Microcatheter Wont: Next Steps**

Lecturer: Minh N. Vo

2:37 PM **Roundtable Discussion With Audience QA**

2:40 PM **My Retrograde Equipment Is Overlapping the Antegrade Equipment but I Cannot Connect What Now**

Lecturer: Satoru Sumitsuji

2:47 PM **Roundtable Discussion With Audience QA**

2:50 PM **Hemodynamic Support for CTO PCI: Who When and When Not and How**

Lecturer: James M. McCabe

2:57 PM **Roundtable Discussion With Audience QA**

3:00 PM **Failing With an Investment: How Often is Sub Intimal Plaque Modification Useful and What Should I Have Available for the Next Procedure**

Lecturer: Taishi Hirai

3:07 PM **Roundtable Discussion With Audience QA**

3:10 PM - 4:40 PM

#### Session II: Complication Prevention and Management

Moderators: William Nicholson, Simon J. Walsh Discussants: Lorenzo Azzalini, Robert Federici, Roberto Garbo, Lampros Michalis, Anthony J. Spaedy

- 3:10 PM **Complication Recognition Before Its Obvious: Anticipating Disaster**  
*Lecturer: Anthony J. Spaedy*
- 3:18 PM **Antegrade Wire or Device Exit at the CTO Site: Prevention and Management**  
*Lecturer: Nicholas J. Lembo*
- 3:26 PM **Antegrade Distal Wire Perforations: Prevention and Management**  
*Lecturer: Kathleen Kearney*
- 3:34 PM **Septal Collateral Perforations: Prevention and Management**  
*Lecturer: Roberto Garbo*
- 3:42 PM **Epicardial Ipsilateral and Contralateral Collateral Perforation: Prevention and Management**  
*Lecturer: Alexandre Avran*
- 3:50 PM **Roundtable Discussion With Audience QA**
- 3:55 PM **Perforation Into a Ventricular Cavity: Prevention Identification and Management**  
*Lecturer: Dimitri Karpaliotis*
- 4:03 PM **Post CABG Localized Tamponade: Prevention Identification and Management**  
*Lecturer: Robert F. Riley*
- 4:11 PM **Free Wall Hematoma Dry Tamponade: Prevention Identification and Management**  
*Lecturer: Emad Hakemi*
- 4:19 PM **Donor Vessel Dissection and/or Thrombosis: How to Avoid Recognize and Manage**  
*Lecturer: M. Nicholas Burke*
- 4:27 PM **Equipment Entrapment/Loss: Prevention and Management**  
*Lecturer: Farouc A. Jaffer*
- 4:35 PM **Roundtable Discussion With Audience QA**

4:40 PM - 5:34 PM

**Session III: Case-Based Complication Management — Part 1**

*Moderators: Tony J. DeMartini, Nicholas J. Lembo*  
*Discussants: Scott Harding, Wissam Jaber, Juan Russo, Lee Seung-Whan, Lin Yan, Chris Zambikides*

- 4:40 PM **My Worst Antegrade Wire Escalation Complication and What I Learned**
- 4:46 PM **Roundtable Discussion With Audience QA**
- 4:49 PM **My Worst Antegrade Wire Escalation Complication and What I Learned**  
*Case Presenter: Craig A. Thompson*
- 4:55 PM **Roundtable Discussion With Audience QA**
- 4:58 PM **My Worst Retrograde Septal Complication and What I Learned**  
*Case Presenter: Lei Song*
- 5:04 PM **Roundtable Discussion With Audience QA**
- 5:07 PM **My Worst Epicardial Collateral Complication and What I Learned**  
*Case Presenter: Wissam Jaber*
- 5:13 PM **Roundtable Discussion With Audience QA**

- 5:16 PM **My Worst Donor Vessel Dissection/Thrombosis Complication and What I Learned**  
*Case Presenter: Junbo Ge*
- 5:22 PM **Roundtable Discussion With Audience QA**
- 5:25 PM **My Worst Catheter Entrapment/Equipment Loss Complication and What I Learned**  
*Case Presenter: Khaldoon F. Alaswad*
- 5:31 PM **Roundtable Discussion With Audience QA**

5:34 PM - 6:00 PM

**Session IV: Case-Based Complication Management — Part 2**

*Moderators: Emmanouil S. Brilakis, William L. Lombardi*  
*Discussants: Nicolas Boudou, Kevin J. Croce, Risto Jussila, Alexandre Schaan Quadros, James Sapontis, Simon J. Walsh*

- 5:34 PM **My Worst Complication That Might Have Been Prevented**  
*Case Presenter: William L. Lombardi*
- 5:40 PM **Roundtable Discussion With Audience QA**
- 5:43 PM **My Worst Complication From Which the Patient Couldnt Recover**  
*Case Presenter: Simon J. Walsh*
- 5:49 PM **Roundtable Discussion With Audience QA**
- 5:52 PM **My Worst Complication That I Was Able to Save**  
*Case Presenter: Nicolas Boudou*
- 5:58 PM **Roundtable Discussion With Audience QA**

## TRANSCATHETER MITRAL VALVE REPLACEMENT

### Transcatheter Mitral Valve Replacement

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 4:00 PM

Room 155/157

2:00 PM - 3:18 PM

**Session I: TMVR Overview and Principle Devices**

*Moderators: Vinayak N. Bapat, Marc Gillinov*  
*Discussants: Steven F. Bolling, Adnan K. Chhatriwalla, Neil P. Fam, Philippe Genereux, Kendra J. Grubb*

- 2:00 PM **TMVR: Lessons From Surgery Not to Be Ignored**  
*Lecturer: David H. Adams*
- 2:06 PM **Technical Hurdles in TMVR Development**  
*Lecturer: Juan F. Granada*
- 2:12 PM **Transapical I: Intrepid Device Description Results and Ongoing Studies**  
*Lecturer: Martin B. Leon*
- 2:19 PM **Transapical II: Tendyne Device Description Results and Ongoing Studies**  
*Lecturer: Jason H. Rogers*
- 2:26 PM **Transapical III: Tiara Device Description Results and Ongoing Studies**



Lecturer: Anson Cheung

2:33 PM **Transseptal I: HighLife Device Description Results and Ongoing Studies**

Lecturer: Nicolo Piazza

2:38 PM **Transseptal II: Caisson Device Description Results and Ongoing Studies**

Lecturer: Anita Asgar

2:43 PM **Transseptal III: Cephea Device Description Results and Ongoing Studies**

Lecturer: Thomas Modine

2:48 PM **Transseptal IV: EVOQUE Device Description Results and Ongoing Studies**

Lecturer: Howard C. Herrmann

2:53 PM **Transseptal V: M3 Device Description Results and Ongoing Studies**

Lecturer: John G. Webb

2:58 PM **Transseptal VI: Cardiovalve Device Description Results and Ongoing Studies**

Lecturer: Francesco Maisano

3:03 PM **Transseptal VII: AltaValve Device Description Results and Ongoing Studies**

Lecturer: Philippe Genereux

3:08 PM **Roundtable Discussion with Audience QA**

3:18 PM - 4:00 PM

#### Session II: TMVR Special Situations

Moderators: Thomas Modine, John G. Webb  
Discussants: Saif Anwaruddin, David J. Cohen, Danny Dvir, Adam B. Greenbaum, Jaffar Mohammad Khan, Maurizio Taramasso

3:18 PM **Valve in MAC Mitral: Acute and Long Term Outcomes**  
Lecturer: Robert L. Smith

3:23 PM **Valve in Valve Mitral: Acute and Long Term Outcomes**  
Lecturer: Mayra Guerrero

3:28 PM **Valve in Ring Mitral: Acute and Long Term Outcomes**  
Lecturer: Sung-Han Yoon

3:33 PM **Essentials of LVOTO Screening And Device Specificity**  
Lecturer: Omar K. Khaliq

3:38 PM **LVOTO Solution I: Alcohol Septal Ablation**  
Lecturer: Dee Dee Wang

3:43 PM **LVOTO Solution II: LAMPOON**  
Lecturer: James M. McCabe

3:48 PM **LVOTO Solution III: Batman**  
Lecturer: Tarek Helmy

3:53 PM **Roundtable Discussion With Audience QA**

4:00 PM - 4:28 PM

#### Session I: Three Hot Mitral Topics

Moderators: Charles J. Davidson, Patrick T. O'Gara  
Discussants: Ori Ben-Yehuda, Khalil Fattouch, Azeem Latib, Philipp Lurz, Michael J. Reardon, Sidney C. Smith

4:00 PM **Antiplatelet and Anticoagulation After TMVR and TAVR: Considerations and Recommendations**  
Lecturer: Robert O. Bonow

4:07 PM **Combination Valve Treatments MR and TRMR and AS: Rationale Sequence and Results**  
Lecturer: Georg Nickenig

4:14 PM **TMVR and TAVR Clinical Trial Designs After COAPT and MITRA FR**  
Lecturer: Gregg W. Stone

4:21 PM **Roundtable Discussion With Audience QA**

4:28 PM - 5:34 PM

#### Session II: Mitral Imaging Deep Dive

Moderators: Linda D. Gillam, Robert J. Siegel  
Discussants: Anthony DeMaria, Creighton W. Don, G. Burkhard Mackensen, Maurice E. Sarano, Nina C. Wunderlich

4:28 PM **State of the Art: DMR Severity Assessment by Quantitative Echo**  
Lecturer: Jae K. Oh

4:36 PM **State of the Art: FMR Severity Assessment by Quantitative Echo**  
Lecturer: Linda D. Gillam

4:44 PM **Roundtable Discussion With Audience QA**

4:51 PM **Advanced Mitral Imaging Intraprocedural Guidance and Image Fusion Technologies**  
Lecturer: Rhonda Miyasaka

4:58 PM **Nonesophageal Mitral Echo Imaging**  
Lecturer: Stephen H. Little

5:05 PM **Roundtable Discussion With Audience QA**

5:12 PM **Advantages and Limitations of MRI for MR Assessment at Baseline and Post MitraClip**  
Lecturer: João L. Cavalcante

5:20 PM **What Can We Learn From MRI About FMR Proportionality**  
Lecturer: Michael Salerno

5:27 PM **Roundtable Discussion With Audience QA**

5:34 PM - 6:10 PM

#### Session III: Mitral Stenosis and MAC

Moderators: Igor F. Palacios, Chet Rihal  
Discussants: Itshac Itsik Ben-dor, Philipp Blanke, Sameer Gafoor, Habib Gamra, Mayra Guerrero, Dee Dee Wang

5:34 PM **MAC Types and Clinical Implications**  
Lecturer: Philipp Blanke

5:40 PM **Nonrheumatic MAC Related Mitral Stenosis and Balloon Valvuloplasty**

5:46 PM **Imaging Rheumatic Mitral Stenosis**  
Lecturer: Nina C. Wunderlich

## MITRAL TRIAL DESIGN, ANTICOAGULATION, IMAGING, AND MORE

Mitral Trial Design, Anticoagulation, Imaging, and More

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

4:00 PM - 6:10 PM

Room 155/157

5:52 PM **Mitral Valvuloplasty State of the Art: Indications Devices Technique and Outcomes**

Lecturer: Habib Gamra

6:02 PM **Roundtable Discussion With Audience QA**

4:40 PM **Transradial and Same Day Discharge Are a Natural Fit and Cost Saving**

Lecturer: Adhir Shroff

4:45 PM **Same Day Discharge Doesn't Mean Radial Access: Safe Femoral Access Makes Sense**

Lecturer: Richard Shlofmitz

4:50 PM **ARS: Same Day Discharge Radial or Femoral Access**

4:52 PM **Roundtable Discussion With Audience QA**

5:00 PM - 6:00 PM

**Session II: Different Ways to Skin Vascular Access**

Moderators: Prashant Kaul, Sara C. Martinez Discussants: Olivier F. Bertrand, Alaide Chieffo, Steven Goldberg, Mitchell W. Krucoff, Mladen I. Vidovich

5:00 PM **Preserving the Radial Artery: Patent Hemostasis and Beyond**

Lecturer: Samir B. Pancholy

5:08 PM **Essential Skills: Femoral Access and Closure**

Lecturer: Zoltan G. Turi

5:16 PM **Options and Indications for Large Bore Radial Access**

5:24 PM **Complex PCI of a Left Main Bifurcation in a Complex Patient**

5:24 PM **Case Presentation: Complex PCI of a Left Main Bifurcation in a Complex Patient**  
Case Presenter: Francesco Burzotta

5:29 PM **ARS**

Case Presenter: Francesco Burzotta

5:34 PM **My Approach: How I Would Do This Case No Slides**

Lecturer: Alaide Chieffo

5:37 PM **My Approach: How I Would Do This Case No Slides**

Lecturer: Thomas A. Ischinger

5:40 PM **Case Conclusion: How I Performed This Case**

Case Presenter: Francesco Burzotta

5:45 PM **Roundtable Discussion With Audience QA**

## RADIAL AND FEMORAL ACCESS AND INTERVENTION

### Radial and Femoral Access and Intervention

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

4:00 PM - 6:00 PM

Room 152/154

4:00 PM - 5:00 PM

**Session I: Controversies in Vascular Access**

Moderators: Rajiv Gulati, Sunil V. Rao Discussants: Mauricio G. Cohen, Vivian G. Ng, Tejas Patel, Adhir Shroff, Kimberly Skelding, Jennifer A. Tremmel

4:00 PM **ARS: What Is Your Routine Vascular Access for Primary PCI for STEMI Radial or Femoral**

4:02 PM **Debate: Vascular Access for Primary PCI**

4:02 PM **The SAFARI Trial Proves It: Femoral Access Is Preferred for STEMI**

Lecturer: Michel R. Le May

4:07 PM **Not So Fast: The Evidence Still Supports Radial Access for STEMI**

Lecturer: Sanjay Kumar Chugh

4:12 PM **ARS: What Is Your Routine Vascular Access for Primary PCI for STEMI Radial or Femoral**

4:14 PM **Roundtable Discussion With Audience QA**

4:19 PM **ARS: Left Radial Access LDTRA or Traditional Proximal Radial**

4:21 PM **Debate: Transradial Civil War**

4:21 PM **Embrace Left Distal Radial Access: Its the New and Best Approach**

Lecturer: Ethan C. Korngold

4:26 PM **LDTRA Is a Fad: Ill Stick With Traditional Proximal Radial**

Lecturer: Ian C. Gilchrist

4:31 PM **ARS: Left Radial Access LDTRA or Traditional Proximal Radial**

4:33 PM **Roundtable Discussion With Audience QA**

4:38 PM **ARS: Same Day Discharge Radial or Femoral Access**

4:40 PM **Debate: Same Day Discharge Radial or Femoral Access**

## HIGH-IMPACT CLINICAL RESEARCH IV: ADJUNCTIVE PHARMACOTHERAPY STUDIES

### High-Impact Clinical Research IV: Adjunctive Pharmacotherapy Studies

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 9:00 AM

Innovation & Keynote Theater

8:00 AM - 9:00 AM

**Adjunctive Pharmacotherapy Studies**

Moderators: Neal S. Kleiman Discussants: Michalis Hamilos, Kurt Huber, Upendra Kaul, Eli I. Lev, Sigmund Silber

- 8:00 AM **TICAKOREA: A Randomized Trial of Ticagrelor vs. Clopidogrel in Korean Patients With Acute Coronary Syndromes Intended for Invasive Management**  
*Lecturer: Duk-Woo Park*
- 8:10 AM **Roundtable Discussion With Audience QA**
- 8:15 AM **AUGUSTUS: Hospitalizations From a 2x2 Factorial Randomized Trial of Apixaban vs. Warfarin and Aspirin vs. Placebo in Patients With Atrial Fibrillation**  
*Lecturer: Amit N. Vora*
- 8:25 AM **Roundtable Discussion With Audience QA**
- 8:30 AM **STOPDAPT 2 HBR: 1 Year Outcomes From a Randomized Trial of Clopidogrel Monotherapy vs. DAPT Beginning 1 Month After PCI in Patients at High Bleeding Risk**  
*Lecturer: Hirotoshi Watanabe*
- 8:40 AM **Roundtable Discussion With Audience QA**
- 8:45 AM **PENDULUM Registry: Relationship Between Platelet Reactivity and 1 Year Ischemic and Bleeding Outcomes After PCI**  
*Lecturer: Masato Nakamura*
- 8:55 AM **Roundtable Discussion With Audience QA**

## HIGH-IMPACT CLINICAL RESEARCH V: TRANSCATHETER AORTIC VALVE REPLACEMENT

### High-Impact Clinical Research V: Transcatheter Aortic Valve Replacement

SATURDAY, SEPTEMBER 28, 2019

9:00 AM - 10:00 AM

Innovation & Keynote Theater

9:00 AM - 10:00 AM

#### Transcatheter Aortic Valve Replacement

*Moderators: Eberhard Grube, Susheel K. Kodali*  
*Discussants: Haim Danenberg, George S. Hanzel, Jaffar Mohammad Khan, Carlos E. Ruiz, Lars Sondergaard*

- 9:00 AM **A Randomized Trial of Short Course Dual Antiplatelet Therapy vs. Oral Anticoagulation to Prevent Cerebral Embolism After Transcatheter Aortic Valve Implantation**  
*Lecturer: Victor Alfonso Jimenez Dias*
- 9:10 AM **Roundtable Discussion With Audience QA**
- 9:15 AM **EASY TAVI: A Randomized Trial of Left Ventricular vs. Right Ventricular Rapid Pacing During Transcatheter Aortic Valve Implantation**  
*Lecturer: Benjamin Faurie*
- 9:25 AM **Roundtable Discussion With Audience QA**
- 9:30 AM **CENTER Collaboration: Sex Differences in Outcomes Following Transfemoral Transcatheter Aortic Valve Replacement**  
*Lecturer: Wieneke Vlastra*
- 9:40 AM **Roundtable Discussion With Audience QA**

- 9:45 AM **Infective Endocarditis After Transcatheter Aortic Valve Implantation From a UK Nationwide Study**  
*Lecturer: Tom Cahill*
- 9:55 AM **Roundtable Discussion With Audience QA**

## HIGH-IMPACT CLINICAL RESEARCH VI: HIGH-RISK DISEASE AND NOVEL THERAPIES

### High-Impact Clinical Research VI: High-Risk Disease and Novel Therapies

SATURDAY, SEPTEMBER 28, 2019

10:00 AM - 11:00 AM

Innovation & Keynote Theater

10:00 AM - 11:00 AM

#### High-Risk Disease and Novel Therapies

*Moderators: Antonio Colombo, Jacqueline Saw*  
*Discussants: Bernard R. Chevalier, Carlos Collet, Giovanni Esposito, Norman E. Lepor*

- 10:00 AM **SR SCAD: Patient Characteristics Management and Outcomes of Spontaneous Coronary Artery Dissection From a Spanish National Registry**  
*Lecturer: Fernando Alfonso*
- 10:10 AM **Roundtable Discussion With Audience QA**
- 10:15 AM **PROTECT: A Randomized Trial of Emergency CTA in Patients With Possible ACS and Intermediate Levels of HS Troponin Elevation**  
*Lecturer: Noam Josephy*
- 10:25 AM **Roundtable Discussion With Audience QA**
- 10:30 AM **MAGSTEMI: A Randomized Trial of a Magnesium Based Sirolimus Eluting Resorbable Scaffold vs. Metallic DES in Patients With STEMI**  
*Lecturer: Manel Sabate*
- 10:40 AM **Roundtable Discussion With Audience QA**
- 10:45 AM **ABSORB 5 Year Pooled Analysis: Improving Very Late Outcomes of the Absorb Bioresorbable Scaffold in Coronary Artery Disease From 4 Randomized Trials**  
*Lecturer: Gregg W. Stone*
- 10:55 AM **Roundtable Discussion With Audience QA**

## FASCINATING LECTURES

### Fascinating Lectures

SATURDAY, SEPTEMBER 28, 2019

11:00 AM - 12:12 PM

Innovation & Keynote Theater

11:00 AM - 12:12 PM

### Digital Health, Digital Education, and Social Media

Moderators: Tony Das, Mamas Mamas Discussants: Salvatore Brugaletta, Mauricio G. Cohen, Gennaro Giustino, Pablo Lamelas, Sheila Sahni, William M. Suh

- 11:00 AM **Social Media in the Modern Era of Interventional Cardiology**  
Lecturer: M Chadi Alraies
- 11:08 AM **Roundtable Discussion With Audience QA**
- 11:12 AM **The CardioQuiz: Adapting Twitter Polls to Create Self Assessment Questions via Social Media**  
Lecturer: Michael P. Savage
- 11:20 AM **Roundtable Discussion With Audience QA**
- 11:24 AM **How Could Advances in Digital Health Help in the Prevention of CV Diseases: E Prevention**  
Lecturer: Mohammad El Tahlawi
- 11:32 AM **Roundtable Discussion With Audience QA**
- 11:36 AM **Artificial Intelligence in Cardiology: The Indian Physicians Perspective**  
Lecturer: Hiteshi K.C. Chauhan
- 11:44 AM **Roundtable Discussion With Audience QA**
- 11:48 AM **An Innovative Mobile Learning Platform for Structural Heart Interventions: CATHLAPP**  
Lecturer: Benjamin Joas Rieck
- 11:56 AM **Roundtable Discussion With Audience QA**
- 12:00 PM **The Early Days of Coronary Stenting: A tribute to Charles Dotter**  
Lecturer: Philippe E. Gaspard
- 12:08 PM **Roundtable Discussion With Audience QA**

## HIGH-IMPACT CLINICAL RESEARCH VII: PCI WITH PHYSIOLOGIC GUIDANCE

### High-Impact Clinical Research VII: PCI With Physiologic Guidance

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 3:00 PM

Innovation & Keynote Theater

2:00 PM - 3:00 PM

#### PCI With Physiologic Guidance

Moderators: Nick Curzen Discussants: Andreas Baumbach, Joost Daemen, Niels R. Holm, Nils Johnson, Morton J. Kern, Paul Knaepen

- 2:00 PM **DEFINE FLAIR: 2 Year Outcomes From a Randomized Trial of iFR and FFR Decision Making in Patients With Coronary Artery Disease**  
Lecturer: Justin E. Davies
- 2:10 PM **Roundtable Discussion With Audience QA**

2:15 PM **SCAAR Registry: Long Term Outcomes After PCI With or Without Intracoronary Pressure Wire Guidance**

Lecturer: Elmir Omerovic

2:25 PM **Roundtable Discussion With Audience QA**

2:30 PM **FIGARO Registry: Frequency and Reasons for Discordance Between FFR and iFR in Assessment of Lesion Hemodynamic Significance**

Lecturer: Tomas Kovarnik

2:40 PM **Roundtable Discussion With Audience QA**

2:45 PM **DEFINE LM Registry: Revascularization Deferral in Patients With Left Main Coronary Artery Disease Based on iFR Evaluation**

Lecturer: Takayuki Warisawa

2:55 PM **Roundtable Discussion With Audience QA**

## HIGH-IMPACT CLINICAL RESEARCH VIII: VALVE THERAPIES AND NON-CARDIAC SURGERY

### High-Impact Clinical Research VIII: Valve Therapies and Non-Cardiac Surgery

SATURDAY, SEPTEMBER 28, 2019

3:00 PM - 4:00 PM

Innovation & Keynote Theater

3:00 PM - 4:00 PM

#### Valve Therapies and Non-Cardiac Surgery

Moderators: Vinod H. Thourani Discussants: Victoria Delgado, Isaac George, Neil J. Weissman, Giora Weisz

3:00 PM **PARTNER 2 Trial and Registry: Impact of Left And Right Ventricular Longitudinal Systolic Strain Following Transcatheter and Surgical Aortic Valve Replacement**

Lecturer: Philippe Pibarot

3:10 PM **Roundtable Discussion With Audience QA**

3:15 PM **TRUE Registry: A New Prognostic Risk Score for Risk Stratification of Patients With Severe Tricuspid Regurgitation**

Lecturer: Brunilda Alushi

3:25 PM **Roundtable Discussion With Audience QA**

3:30 PM **TRILUMINATE Registry: 6 Month Outcomes of Percutaneous Edge to Edge Repair for Tricuspid Regurgitation**

Lecturer: Georg Nickenig

3:40 PM **Roundtable Discussion With Audience QA**

3:45 PM **LEADERS FREE: Outcomes of Non Cardiac Surgery After Randomization to a Polymer Free Drug Coated Stent vs. a Bare Metal Stent in Patients With Coronary Artery Disease**

3:55 PM **Roundtable Discussion With Audience QA**

## HIGH-IMPACT CLINICAL RESEARCH IX: CAD DIAGNOSIS AND COMPLEX PCI STRATEGIES

## High-Impact Clinical Research IX: CAD Diagnosis and Complex PCI Strategies

SATURDAY, SEPTEMBER 28, 2019

4:00 PM - 5:00 PM

Innovation & Keynote Theater

4:00 PM - 5:00 PM

### CAD Diagnosis and Complex PCI Strategies

Discussant: Mirvat Alasnag, Shao-Liang Chen, Yves R. Louvard, James K. Min, Holger M. Nef, Bjarne Linde Norgaard

4:00 PM **PROMISE: Cost Effectiveness Analysis of Non Invasive FFRCT CTA Alone and Functional Testing for Stable Chest Pain Evaluation**  
Lecturer: Udo Hoffmann

4:10 PM **Roundtable Discussion With Audience QA**

4:15 PM **EXCEL: A Novel Risk Score for Clinical Decision Making in Patients Undergoing Revascularization for Left Main Coronary Artery Disease The EXCEL Score**

Lecturer: Patrick W. Serruys

4:25 PM **Roundtable Discussion With Audience QA**

4:30 PM **CIT RESOLVE: A Randomized Trial of Sidebranch Protection in Patients With Coronary Bifurcations and High Predicted Risk of Sidebranch Occlusion**

4:40 PM **Roundtable Discussion With Audience QA**

4:45 PM **PROPOT: A Randomized Trial of the Proximal Optimization Technique in Coronary Bifurcation Lesions**

Lecturer: Ken Kozuma

4:55 PM **Roundtable Discussion With Audience QA**

9:05 AM **Its Now Official: The New CDRH Organizational Structure and How It May Impact Your Interactions With the FDA Through the Total Product Life Cycle**

Lecturer: Nicole Ibrahim

9:25 AM **Best Practices in Presubmissions: How to Make Them Useful for Everyone**

Lecturer: Ariel Ash-Shakoor

9:45 AM **How to Get Your IDE Approved in the First Round: Tips and Common Mistakes to Avoid**

Lecturer: Jennifer Bastijanac

10:05 AM **The Winding Journey From EFSIH to Pivotal Study: How to Work Closely With the FDA Through the Ups and Downs**

Lecturer: Changfu Wu

10:25 AM **Breakthrough Device Designation: What Is It for and What Is It Not For**

Lecturer: Ryan Randall

10:45 AM **Roundtable Discussion With Audience QA**

11:15 AM - 11:30 AM

**Coffee Break**

11:30 AM - 1:00 PM

### Session II: Best Practices in Regulatory Affairs — Premarket, Part 2

Moderators: Jaime Raben, Changfu Wu  
Discussants: Lauren S. Baker, Juan F. Granada, Kent Grove, Claire Hambright, Natalie Miller, Semih Oktay, Victoria Blythe Rodriguez, Renu Virmani

11:30 AM **Best Practices in Biocompatibility Assessment of Cardiovascular Devices: What Does the FDA Look For**

Lecturer: Claire Hambright

11:50 AM **Best Practices in Animal Studies of Cardiovascular Devices: What Does the FDA Look For**

Lecturer: Natalie Miller

12:10 PM **Best Practices in Sterility Studies of Cardiovascular Devices: What Does the FDA Look For**

Lecturer: Hiren Mistry

12:30 PM **Roundtable Discussion With Audience QA**

1:00 PM - 2:00 PM

**Lunch Break**

2:00 PM - 3:50 PM

### Session III: Best Practices in Regulatory Affairs — Postmarket

Moderators: Lydia S. Glaw, Rachel Neubrandner  
Discussants: Lisa A.M. Becker, Ankurita Datta, Declan Dineen, Adam Donat, Julie Mackel, Irene Parker, Melanie Raska, Megha Reddy, Rebecca Ward

2:00 PM **FDA Bioresearch Monitoring BIMO 101: How to Survive Inspections and Avoid Warning Letters**

Lecturer: Adam Donat

2:20 PM **After the Champagne for PMA Approval Come Your Obligations: Inspections Postapproval Studies Medical Device Reporting and Recalls**

Lecturer: Judy Ji, Megha Reddy

2:40 PM **Real World Data vs Real World Evidence: How Can It Be Used for Device Labeling Expansion**

## FDA UNIVERSITY AT TCT

### FDA University at TCT

SATURDAY, SEPTEMBER 28, 2019

9:00 AM - 5:00 PM

Room 205-206

9:00 AM - 9:05 AM

### Introduction

9:00 AM **Introduction and Session Overview**

Lecturer: Changfu Wu

9:05 AM - 11:15 AM

### Session I: Best Practices in Regulatory Affairs — Premarket, Part 1

Lecturer: Rebecca Ward

3:00 PM **FDA Resources at Your Fingertips: Find the Information and Help You Need**

Lecturer: Samuel Raben

3:20 PM **Roundtable Discussion With Audience QA**

3:50 PM - 4:00 PM

**Coffee Break**

4:00 PM - 5:00 PM

**Session IV: General Topic Roundtable and Q&A**

Moderator: Nicole Ibrahim, Martin B. Leon

4:00 PM **Roundtable Discussion: Most Frequently Asked Questions and FDA Checkpoints Industry and Perspectives and FDA Responses**

Discussant: Lauren S. Baker, Kenneth J. Cavanaugh Jr, Andrew Cleeland, James S. Eadie, Katherine Kumar, Aaron Lottes, Evan Norton, Semih Oktay, Michael Zapfen, Bram D. Zuckerman

4:40 PM **Open Mic: Audience QA**

Discussant: Hajira Ahmad, Claire Hambright, Nicole Ibrahim, Jinny Liu, Natalie Miller, Greg O'Connell, Victoria Blythe Rodriguez, Changfu Wu

4:55 PM **Wrap up and Adjourn**

Lecturer: Changfu Wu

## BALLOON PULMONARY ANGIOPLASTY FOR CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION: CENTER EXPERTISE AND ILLUSTRATIVE CASE DEMONSTRATIONS

**Balloon Pulmonary Angioplasty for Chronic Thromboembolic Pulmonary Hypertension: Center Expertise and Illustrative Case Demonstrations**

**Vascular**

SATURDAY, SEPTEMBER 28, 2019

12:15 PM - 1:45 PM

Room 211

12:15 PM - 1:45 PM

**Balloon Pulmonary Angioplasty for Chronic Thromboembolic Pulmonary Hypertension: Center Expertise and Illustrative Case Demonstrations**

Moderators: Ori Ben-Yehuda, Irene Marthe Lang Discussants: Vikas Aggarwal, Anthony DeMaria, Ehtisham Mahmud, Bernhard Meyer, Victor Pretorius, Alex M. K. Rothman

12:15 PM **Introduction: Chronic Thromboembolic Pulmonary Hypertension Where Does BPA Stand in the Treatment Algorithm Today**

Lecturer: Nick H. Kim

12:30 PM **Balloon Pulmonary Angioplasty Japanese Experience**

Lecturer: Hiromi Matsubara

12:42 PM **Balloon Pulmonary Angioplasty French Experience**

Lecturer: Philippe Brenot

12:54 PM **Balloon Pulmonary Angioplasty US Experience**

Lecturer: Ehtisham Mahmud

1:06 PM **Balloon Pulmonary Angioplasty German Experience**

Lecturer: Bernhard Meyer

1:18 PM **Balloon Pulmonary Angioplasty Polish Experience**

Lecturer: Piotr Pruszczyk

1:30 PM **Roundtable Discussion With Audience QA**

## CHRONIC KIDNEY DISEASE: PREVENTING AND TREATING CONTRAST NEPHROPATHY

**Chronic Kidney Disease: Preventing and Treating Contrast Nephropathy**

**Coronary: Core**

SATURDAY, SEPTEMBER 28, 2019

12:15 PM - 1:45 PM

Room 209-210

12:15 PM - 1:45 PM

**Chronic Kidney Disease: Preventing and Treating Contrast Nephropathy**

Moderators: Somjot S. Brar, Hitinder S. Gurm Discussants: Carlo Briguori, Graham A. Cassel, Sanjog Kalra, R. Stefan Kiesz, Richard Solomon, Junjie Zhang

12:15 PM **Contrast Induced Nephropathy: Does It Exist and Does It Matter**  
Lecturer: Richard Solomon

12:25 PM **Roundtable Discussion With Audience QA**

12:30 PM **CIN Risk Prediction and Outcomes**

Lecturer: Sripal Bangalore

12:40 PM **Roundtable Discussion With Audience QA**

12:45 PM **CIN Prevention I: IV Fluids**

Lecturer: Carlo Briguori

12:55 PM **Roundtable Discussion With Audience QA**

1:00 PM **CIN Prevention II: Clinical Trials Summary of Completed and Ongoing Studies**

Lecturer: Roxana Mehran

1:10 PM **Roundtable Discussion With Audience QA**

1:15 PM **Your Cath Lab Needs a CIN Prevention Protocol: Here It Is**

Lecturer: Hitinder S. Gurm

1:25 PM **Roundtable Discussion With Audience QA**

1:30 PM **CIN Prevention III: Contrast Reduction Strategies Devices and Zero Contrast PCI Step by Step**

Lecturer: Ziad A. Ali

1:40 PM **Roundtable Discussion With Audience QA**

## CLINICAL TRIAL DESIGN, STATISTICS, AND LITERATURE INTERPRETATION: THE EVIDENCE-BASED MEDICINE EXPERT — PART 2



## Clinical Trial Design, Statistics, and Literature Interpretation: The Evidence-Based Medicine Expert — Part 2

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

12:15 PM - 1:45 PM

Room 201-202

12:15 PM - 1:45 PM

### Clinical Trial Design, Statistics, and Literature Interpretation: The Evidence-Based Medicine Expert

Moderators: Peter Juni, Roxana Mehran Discussants: Andrew Althouse, Stefan Anker, Brian Claggett, Milton Packer, Divaka Perera, Robert W. Yeh

- 12:15 PM **Use of Repeat Events and Allowance for Competing Risk: How to Do It Right**  
*Lecturer: Brian Claggett*
- 12:25 PM **When Trials Disagree: The COAPMITRA FR Case Study**  
*Lecturer: Milton Packer*
- 12:35 PM **Roundtable Discussion With Audience QA**
- 12:45 PM **The Challenges of Equipoise and Generalizability**  
*Lecturer: Robert W. Yeh*
- 12:55 PM **TAVR in Low Risk Patients: Strengths and Limitations of the Low Risk Trials**  
*Lecturer: Robert O. Bonow*
- 1:05 PM **Roundtable Discussion With Audience QA**
- 1:15 PM **My Strategy for Interpreting and Critiquing Non Inferiority Studies**  
*Lecturer: Sanjay Kaul*
- 1:25 PM **Is it TWILIGHT for Aspirin Critical Appraisal and Interpretation of the Trial**  
*Lecturer: Pascal Vranckx*
- 1:35 PM **Roundtable Discussion With Audience QA**

- 12:15 PM **Combined Low Flow Low Gradient Aortic Stenosis and Functional Mitral Regurgitation: A Diagnostic Challenge**  
*Lecturer: Rebecca T. Hahn*
- 12:22 PM **Role of CT Angiography for Quantification of Aortic Stenosis**  
*Lecturer: Hasan Jilaihawi*
- 12:27 PM **Roundtable Discussion With Audience QA**
- 12:32 PM **Case Introduction: Moderate Aortic Stenosis and Severe Secondary Mitral Regurgitation**  
*Case Presenter: Lukas Keller*
- 12:35 PM **Case Viewpoint: Treat Both AS and MR**  
*Lecturer: Saibal Kar*
- 12:40 PM **Case Viewpoint: Treat the MR Conservative Management for the AS**  
*Case Presenter: Olaf Franzen*
- 12:45 PM **Roundtable Discussion With Audience QA**
- 12:50 PM **Case Resolution: How We Treated Moderate Aortic Stenosis and Severe Secondary Mitral Regurgitation**  
*Case Presenter: Lukas Keller*
- 12:55 PM **State of the Art Medical Therapy for Treatment of Tricuspid Regurgitation and Its Effect on Prognosis**
- 1:02 PM **Case Presentation: Severe DMR and Severe TR**  
*Case Presenter: Anita Asgar*
- 1:05 PM **Case Viewpoint: Treat the MR Only**  
*Lecturer: Magnus Settergren*
- 1:10 PM **Case Viewpoint: Treat Both the MR and TR**  
*Lecturer: Neil P. Fam*
- 1:15 PM **Roundtable Discussion With Audience QA**
- 1:20 PM **Case Resolution: How We Treated Severe DMR and Severe TR**  
*Lecturer: Anita Asgar*
- 1:25 PM **Flash Debate: TAVR in the Moderate Risk Bleeding Patient With AF Close the LAA**  
*Lecturer: Kishore J. Harjai*
- 1:31 PM **Flash Debate: TAVR in the Moderate Risk Bleeding Patient With AF Medical Therapy Is Best**  
*Lecturer: Manesh R. Patel*
- 1:37 PM **Roundtable Discussion With Audience QA**

## COMBINED STRUCTURAL INTERVENTIONS: TWO VALVES, VALVE AND LAO, AND MORE

### Combined Structural Interventions: Two Valves, Valve and LAO, and More

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

12:15 PM - 1:45 PM

Room 216

12:15 PM - 1:45 PM

### Combined Structural Interventions

Moderators: Anita Asgar, Fabian Nietlispach Discussants: Colin M. Barker, Danny Dvir, Amir Kaki, Saibal Kar, Markus Albert Kasel, Magnus Settergren

## COMPLEX ADULT CONGENITAL INTERVENTION

### Complex Adult Congenital Intervention

Structural: Non-Valve

SATURDAY, SEPTEMBER 28, 2019

12:15 PM - 1:45 PM

Room 203

12:15 PM - 1:45 PM

### Complex Adult Congenital Intervention

- 12:15 PM **A Cancer Patient Who Underwent Placement of a Port a Cath: Look What Happened**  
Case Presenter: Clifford J. Kavinsky
- 12:24 PM **An Adult With an Aortopulmonary Window**  
Case Presenter: Eric Horlick
- 12:33 PM **A Fontan Patient Who Had a Thrombus**  
Case Presenter: Matthew A. Crystal
- 12:42 PM **Pregnancy CHF and a Transcatheter Tricuspid Valve Implantation**  
Case Presenter: Harsimran Sachdeva Singh
- 12:51 PM **A Case of PIVSD: A Difficult Case With a Difficult Decision**  
Case Presenter: Zahid Amin
- 1:00 PM **An Octogenarian With a De Novo Dilated Cardiomyopathy**  
Case Presenter: Reda Ibrahim
- 1:09 PM **Coarctation Stent Implantation in an Adult With Turner**  
Case Presenter: Thomas K. Jones
- 1:18 PM **A Left Ventricular Pseudoaneurysm**
- 1:27 PM **A Baffling Occlusion: Transcatheter Fontan Baffle Creation**  
Lecturer: John F. Rhodes
- 1:36 PM **An Adult With Azygous Continuation and an ASD**  
Case Presenter: Mark Osten

Lecturer: Michael A. Fifer

1:00 PM - 1:45 PM

**Session II: Alcohol Septal Ablation**

Moderators: Sherif F. Nagueh, Hubert Seggewiss  
Discussants: Valerian Fernandes, Michael A. Fifer, Morton J. Kern, Srihari S. Naidu, Francesco Pelliccia, Stephen R. Ramee

- 1:00 PM **Case Selection for Alcohol Septal Ablation**  
Lecturer: Srihari S. Naidu
- 1:09 PM **The Alcohol Septal Ablation Procedure**  
Lecturer: Valerian Fernandes
- 1:18 PM **Alcohol Septal Ablation Complications and Management**  
Lecturer: Michael A. Fifer
- 1:27 PM **Long term Outcomes of Alcohol Septal Ablation**  
Lecturer: Peter Boekstegers
- 1:36 PM **Discussion With Audience QA**

## HYPERTROPHIC CARDIOMYOPATHY AND SEPTAL ABLATION

## SPONTANEOUS CORONARY ARTERY DISSECTION: NOVEL INSIGHTS ON DIAGNOSIS AND TREATMENT

### Spontaneous Coronary Artery Dissection: Novel Insights on Diagnosis and Treatment

SATURDAY, SEPTEMBER 28, 2019

12:15 PM - 1:45 PM

Room 207

12:15 PM - 1:45 PM

### Spontaneous Coronary Artery Dissection: Novel Insights on Diagnosis and Treatment

Moderators: Fernando Alfonso, Jacqueline Saw  
Discussants: Patricia Abrams, Carlo Di Mario, Rajiv Gulati, Francesco Prati, Marysia S. Tweet

- 12:15 PM **Consensus Documents on SCAD: US and European Perspectives**  
Lecturer: Carlo Di Mario
- 12:25 PM **Roundtable Discussion With Audience QA**
- 12:30 PM **Novel Clinical and Angiographic Insights**  
Lecturer: Rajiv Gulati
- 12:40 PM **Roundtable Discussion With Audience QA**
- 12:45 PM **SCAD: Value and Safety of Intracoronary Imaging**  
Lecturer: Fernando Alfonso
- 12:55 PM **Roundtable Discussion With Audience QA**
- 1:00 PM **Case Presentation: Difficulty in Diagnosing SCAD**  
Case Presenter: Pascal Motreff
- 1:10 PM **Roundtable Discussion With Audience QA**
- 1:15 PM **SCAD: Indications and Results of Coronary Revascularization**  
Lecturer: Jacqueline Saw
- 1:25 PM **Roundtable Discussion With Audience QA**

### Hypertrophic Cardiomyopathy and Septal Ablation

Structural: Non-Valve

SATURDAY, SEPTEMBER 28, 2019

12:15 PM - 1:45 PM

Room 213

12:15 PM - 1:00 PM

### Session I: HCM Diagnosis and Medical Management

Moderators: John S. Douglas Jr  
Discussants: Bernard J. Gersh, Carey D. Kimmelstiel, Antoine Lafont, John C. Messenger, Sherif F. Nagueh

- 12:15 PM **Imaging in HCM for Diagnosis and Risk Stratification**  
Lecturer: Sherif F. Nagueh
- 12:24 PM **Medical Treatments for HCM**  
Lecturer: Carey D. Kimmelstiel
- 12:33 PM **Diagnosis and Treatment of Arrhythmia in HCM**  
Lecturer: Vivek Y. Reddy
- 12:42 PM **Discussion With Audience QA**
- 12:51 PM **Clinical Presentation Pathophysiology and Natural History**

- 1:30 PM **Case Presentation: A Challenging SCAD Revascularization**  
*Case Presenter: Marysia S. Tweet*
- 1:40 PM **Roundtable Discussion With Audience QA**

- 1:30 PM **Vertebral Artery Stenting: Indications Techniques and Complications**  
*Lecturer: Charles Matouk*
- 1:37 PM **Roundtable Discussion With Audience QA**

## TCT ENDOVASCULAR: NEURO INTERVENTIONS FOR STROKE AND CAROTID STENOSIS

## CHALLENGES AND DEVELOPMENTS IN TAVI PROCEDURE: ARGENTINEAN AND FRENCH EXPERIENCE. PRESENTED BY GROUPE ATHEROME ET CARDIOLOGIE INTERVENTIONNELLE (GACI) AND COLEGIO ARGENTINO DE CARDIOANGIÓLOGOS INTERVENCIONISTAS (CACI)

### TCT Endovascular: Neuro Interventions for Stroke and Carotid Stenosis

#### Vascular

SATURDAY, SEPTEMBER 28, 2019  
 12:15 PM - 1:45 PM  
 Room 215

### Challenges and Developments in TAVI Procedure: Argentinean and French Experience. Presented by Groupe Atherome et Cardiologie Interventionnelle (GACI) and Colegio Argentino de Cardioangiólogos Intervencionistas (CACI)

SATURDAY, SEPTEMBER 28, 2019  
 9:00 AM - 10:10 AM  
 Room 216

12:15 PM - 1:45 PM

#### Neuro Interventions for Stroke and Carotid Stenosis

*Moderators: Enrico Ascher, Aman B. Patel*  
*Discussants: Carlos I. Mena-Hurtado, Stephen R. Ramee, Craig M. Walker*

- 12:15 PM **Pre Hospital Approach to Stroke**  
*Lecturer: Thabele M. Leslie-Mazwi*
- 12:21 PM **Preventative Strategies in Stroke**  
*Lecturer: Christopher J. Stapleton*
- 12:27 PM **Role of IV tPA or Thrombolysis in the Endovascular Era of Thrombectomy**  
*Lecturer: Thabele M. Leslie-Mazwi*
- 12:33 PM **Synthesis of Endovascular Trial Data From 2015 and Beyond**  
*Lecturer: Scott Silverman*
- 12:41 PM **Mechanical Thrombectomy: Aspiration vs. Stent Retriever vs. New Devices**  
*Lecturer: Christopher J. Stapleton*
- 12:49 PM **Controversies in Stroke Treatment: Large Core Low NIHSS Advanced Age**  
*Lecturer: Demetrius Lopes*
- 12:57 PM **Roundtable Discussion With Audience QA**
- 1:05 PM **Pre Debate Vote**
- 1:07 PM **Flash Debate: Carotid Artery Stenting Is Best for the Asymptomatic Patient**  
*Lecturer: Christopher J. White*
- 1:12 PM **Flash Debate: Nonsense TCAR Is Safer Than Standard Transfemoral Carotid Stenting**  
*Lecturer: Mahmoud Malas*
- 1:17 PM **Flash Debate: Are You Kidding Mini Incision Carotid Endarterectomy Is as Safe as But Less Expensive Than TCAR**  
*Lecturer: Enrico Ascher*
- 1:22 PM **Post Debate Vote and Wrap Up**
- 1:24 PM **Carotid Artery Stenting: Timing After Stroke**  
*Lecturer: Adnan Siddiqui*

9:00 AM - 10:10 AM

#### Challenges and Developments in TAVI Procedure: Argentinean and French Experience

*Moderators: Anibal A. Damonte, Jacques Monsegu*  
*Discussants: Gustavo Andersen, Alejandro D. Fernandez, Alejandro Palacios, Christian M. Spaulding, Eric Van Belle*

- 9:00 AM **Introduction and Session Objectives**  
*Lecturer: Anibal A. Damonte*
- 9:05 AM **Moving From a Full Invasive to a Minimalistic Procedure The Argentinean and LatAm Experience**  
*Lecturer: Matias Szejffman*
- 9:13 AM **Roundtable Discussion With Audience Q A**
- 9:15 AM **Stimulation Over Left Ventricular Wire: a New Tool**  
*Lecturer: Jacques Monsegu*
- 9:23 AM **Roundtable Discussion With Audience Q A**
- 9:25 AM **TAVI Valve in Valve: a Real Challenge**  
*Lecturer: Diego D. Grinfeld*
- 9:33 AM **Roundtable Discussion With Audience Q A**
- 9:35 AM **Hypertrophic Myopathy and Aortic Stenosis: How to Manage**  
*Lecturer: Michel Pansieri*
- 9:43 AM **Roundtable Discussion With Audience Q A**
- 9:45 AM **Bicuspid Valve TAVI: As Safe As Tricuspid Valve Intervention**  
*Lecturer: Adolfo Ferrero Guadagnoli*
- 9:53 AM **Roundtable Discussion With Audience Q A**
- 9:55 AM **Vascular Complications: How to Manage**  
*Lecturer: Camille Brasselet*
- 10:03 AM **Roundtable Discussion With Audience Q A**

## CSI-NIC INDIA SESSION @TCT

### CSI-NIC India Session @TCT

SATURDAY, SEPTEMBER 28, 2019

3:00 PM - 4:30 PM  
Room 216

3:00 PM - 4:30 PM

#### Precision PCI & Optimization Of PCO Outcomes

Chairs: Dhiman Kahali, Ajay J. Kirtane, Sreenivas Arramraju Kumar, PC C.  
RathPanelists: Gholam Azam, Vineet Bhatia, Madhu K. Sreedharan

#### 3:00 PM Session I. Imaging

3:00 PM **IVUS Its Present Roles and Advantages**

Lecturer: Debdatta Bhattacharya

3:10 PM **How OCT Can Help Better Predict MACE Events In Left Main vs IVUS ROCK II Retrospective Update**

Lecturer: Mani Selvamani

3:20 PM **How India Is Learning to See Its PCI Patients Through 1n OCT The 2 Year Journey Update**

Lecturer: balbir singh

3:30 PM **Roundtable Discussion With Audience QA**

Lecturer: balbir singh

#### 3:40 PM Session II. Physiology Session

3:40 PM **Physiology In Complex Lesions: For All Or Indication Based Assessment Clinical Case Scenarios**

Lecturer: Jabir Abdullakutty

3:50 PM **FFR In STEMI NSTEMI and Unstable Angina: What Are the Latest Data**

Lecturer: Rajesh Vijayvergiya

4:00 PM **Roundtable Discussion With Audience QA**

Lecturer: Rajesh Vijayvergiya

#### 4:05 PM Session III. DES

4:05 PM **Stent Choice In Complex Lesions: How The Unique Stent DNA Can Help Improve The Patient Outcomes**

Lecturer: Pratap Kumar

4:15 PM **STOPDAPT SMART CHOICE TWILIGHT: Will These Trials Change Your Clinical Practice**

Lecturer: Aditya Kapoor

4:25 PM **Closing Remarks and Key Take aways**

Lecturer: Aditya Kapoor

## International Complex Case Session VII: Featured CHIP and Other Special PCI Situations

SATURDAY, SEPTEMBER 28, 2019

8:30 AM - 10:30 AM

Presentation Theater 1

8:30 AM - 10:30 AM

### Featured CHIP and Other Special PCI Situations

Moderators: Giuseppe TarantiniDiscussants: Waqar Ahmad, Branko Beleslin, Marcelo E. Halac, Ivo Petrov, Abdullah Shehab

8:30 AM **Introduction**

8:35 AM **Mexico Presents: The Right Coronary As The Thread Of Life Acute Left Main Total Occlusion**

Case Presenter: David Leonardo Aguilar De La Torre

8:45 AM **Roundtable Discussion With Audience QA**

8:50 AM **Belgium Presents: Double Stent Fracture and In Stent Restenosis Due to a Protruding Calcified Nodule Treated With Shockwave Coronary Intravascular Lithotripsy**

Case Presenter: Johan R. Bennett

9:00 AM **Roundtable Discussion With Audience QA**

9:05 AM **Bulgaria Presents: PCI Of Calcified Coronary Arteries Challenges With Different Aspects**

Case Presenter: Valery Gelev

9:15 AM **Roundtable Discussion With Audience QA**

9:20 AM **Egypt Presents: CHIP FORUM PCI in STEMI With LM Complex Lesion**

Case Presenter: Mohamed Ahmed Sobhy

9:30 AM **Roundtable Discussion With Audience QA**

9:35 AM **Thailand Presents: Rescue PCI Under VA ECMO Support in Patient Who Failed Fibrinolytic Therapy and Complicated With Pulmonary Alveolar Hemorrhage**

Case Presenter: Supawat Ratanapo

9:45 AM **Roundtable Discussion With Audience QA**

9:50 AM **Indonesia Presents: Catheter Induced Stanford Type A Aortic Dissection With Occlusive Spiral Dissection Of RCA And Perforation Treated Non Surgically**

Case Presenter: Teguh Santoso

10:00 AM **Roundtable Discussion With Audience QA**

10:05 AM **Singapore Presents: A case of OCT Guided Zero Contrast PCI In A Patient With Known Contrast Induced Anaphylaxis**

Case Presenter: Paul JL Ong

10:15 AM **Roundtable Discussion With Audience QA**

10:20 AM **Final Thoughts**

Lecturer: Giuseppe Tarantini

## INTERNATIONAL COMPLEX CASE SESSION VIII: A POTPOURRI OF COMPLEX INTERVENTIONAL CASES I

## INTERNATIONAL COMPLEX CASE SESSION VII: FEATURED CHIP AND OTHER SPECIAL PCI SITUATIONS

## International Complex Case Session VIII: A Potpourri of Complex Interventional Cases I

SATURDAY, SEPTEMBER 28, 2019

2:30 PM - 4:00 PM

Presentation Theater 1

2:30 PM - 4:00 PM

### A Potpourri of Complex Interventional Cases I

Moderators: Pedro De Araujo Goncalves, Afzalur Rahman  
Discussants: Marco A. Alcocer-Gamba, Rosli Mod Ali, Haim Danenberg, Ahmed Magdy, Hung Pham Manh, Rogerio Sarmento-Leite

- 2:30 PM **Introduction**  
Lecturer: Afzalur Rahman
- 2:35 PM **Egypt Presents: When You Have Not Enough Coils**  
Case Presenter: Amr ElHadidy
- 2:45 PM **Roundtable Discussion With Audience QA**
- 2:50 PM **Hong Kong Presents: Percutaneous Closure of Left Atrial Appendage With Thrombus in 2 Patients With Different Outcomes**  
Case Presenter: Ngai-Yin Chan
- 3:00 PM **Roundtable Discussion With Audience QA**
- 3:05 PM **Indonesia Presents: Handling LAA Closure Device Implantation in Small LAA With Protruding Pectinate Muscles**  
Case Presenter: Teguh Santoso
- 3:15 PM **Roundtable Discussion With Audience QA**
- 3:20 PM **Belarus Presents: Minimally Invasive Hybrid Approach to Direct Device LV Remodeling in Patient With Ischemic Cardiomyopathy**  
Case Presenter: Oleg Polonetsky
- 3:30 PM **Roundtable Discussion With Audience QA**
- 3:35 PM **Spain Presents: Percutaneous Treatment of a Large Ascending Aortic Pseudoaneurysm**  
Case Presenter: Armando Perez de Prado
- 3:45 PM **Roundtable Discussion With Audience QA**
- 3:50 PM **Final Thoughts**  
Lecturer: Pedro De Araujo Goncalves

## INTERNATIONAL COMPLEX CASE SESSION IX: A POTPURRI OF COMPLEX INTERVENTIONAL CASES II

### International Complex Case Session IX: A Potpourri of Complex Interventional Cases II

SATURDAY, SEPTEMBER 28, 2019

4:00 PM - 5:30 PM

Presentation Theater 1

4:00 PM - 5:30 PM

### A Potpourri of Complex Interventional Cases II

Moderators: Magdy Abdelhamid, Petr Kala  
Discussants: Sasko Kedev, Mohammed I. Kurdi, Ricardo Lluberas, Helder Horta Pereira, Goran Stankovic

- 4:00 PM **Introduction**  
Lecturer: Magdy Abdelhamid
- 4:05 PM **Hong Kong Presents: What Is the Cause of Total LV Failure**
- 4:15 PM **Roundtable Discussion With Audience QA**
- 4:20 PM **Colombia Presents: Post Traumatic Coronary Cameral Fistula**  
Case Presenter: Jorge Villegas
- 4:30 PM **Roundtable Discussion With Audience QA**
- 4:35 PM **Belgium Presents: Ventriculo Arterial Uncoupling During High Risk Impella Protected PCI**  
Case Presenter: Johan R. Bennett
- 4:45 PM **Roundtable Discussion With Audience QA**
- 4:50 PM **Tunisia Presents: How To Manage Acute Thrombosis of the Abdominal Aorta**  
Case Presenter: Habib Gamra
- 5:00 PM **Roundtable Discussion With Audience QA**
- 5:05 PM **Egypt Presents: The Missing Way**  
Case Presenter: Mahmoud Soliman
- 5:15 PM **Roundtable Discussion With Audience QA**
- 5:20 PM **Final Thoughts**  
Lecturer: Petr Kala

## HIGHEST GRADED ABSTRACTS OF TCT 2019

### Highest Graded Abstracts of TCT 2019

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

8:30 AM - 10:30 AM

Moscone South, Level Two, Room 215

8:30 AM - 10:30 AM

### Highest Peer-Reviewed Oral Abstracts of TCT2019 - Sponsored by CCI and EuroIntervention

Moderators: Steven R. Bailey, Patrick W. Serruys  
Discussants: Sameer Gafoor, Lloyd W. Klein, Julio C. Palmaz, Jan J. Piek, Renu Virmani, Olaf Wendler

- 8:30 AM **TCT 4: Transcatheter Tricuspid Valve Repair in Patients With Functional Tricuspid Regurgitation: 2 Year Outcomes From the FORMA US Early Feasibility Study**  
Presenting Author: Susheel K. Kodali
- 8:40 AM **Discussion**
- 8:45 AM **TCT 7: Blinded Outcomes Assessment of Absorb Bioresorbable Scaffolds Implanted with Improved Technique: Two year Results from the ABSORB IV Randomized Trial**

Presenting Author: Gregg W. Stone

- 8:55 AM Discussion
- 9:00 AM **TCT 3: Modified Body Mass Index a Novel Marker of Malnutrition and Clinical Frailty is Associated with Outcomes after Transcatheter and Surgical Aortic Valve Replacement**  
Presenting Author: Elissa Driggin
- 9:10 AM Discussion
- 9:15 AM **TCT 1: A Novel Risk Based Strategy in Adopting New Technology: Pilot Study Assessing Clinical and Quality Outcomes of Real World Intravascular Ultrasound IVUS and Instant Wave Free Ratio iFR Utilization in a Unique Risk Sharing Program**  
Presenting Author: Mark Chang
- 9:25 AM Discussion
- 9:30 AM **TCT 5: Is Surgical Aortic Valve Replacement Still an Option for Radiation induced Aortic Stenosis in Transcatheter Aortic Valve Replacement Era**  
Presenting Author: Farhang Yazdchi
- 9:40 AM Discussion
- 9:45 AM **TCT 6: Incidence And Predictors Of Hemodynamic Deterioration of Transcatheter and Surgical Bioprosthetic Aortic Valves: Pooled Analysis from the CoreValve Pivotal Trials**  
Presenting Author: Daniel O'Hair
- 9:55 AM Discussion
- 10:00 AM **TCT 2: Paravalvular Regurgitation after Transcatheter Aortic Valve Replacement in Moderate Risk Patients: A Pooled PARTNER 2 Trial and Registry Study**  
Presenting Author: Katherine Chau
- 10:10 AM Discussion
- 10:15 AM **TCT 8: Updated 30 Day Outcomes for the U.S. Early Feasibility Study of the SAPIEN M3 Transcatheter Mitral Valve Replacement System**  
Presenting Author: Raj Makkar
- 10:25 AM Discussion

Presenting Author: Khaled Darahim

- 9:15 AM **TCT 1423: Spontaneous InternalMammalian Artery Graft Dissection Triggered by Emotional Stress**  
Presenting Author: Kosuke Sawami
- 9:15 AM **TCT 1424: SHOCKWAVE LITHOTRIPSY TO THE RESCUE IN AN UNDILATABLE IN STENT RESTENOSIS PRESENTING AS AN ACUTE CORONARY SYNDROME**  
Presenting Author: Legate Philip
- 9:15 AM **TCT 1425: The case of self treatment of the coronary muscle bridge**  
Presenting Author: Liliya Sorokhtey
- 9:15 AM **TCT 1426: Primary Angioplasty due toCircumflex coronary artery injury after mitral valve surgery**  
Presenting Author: Marek T. Tomala
- 9:15 AM **TCT 1427: Holey Shunt Successful Management of Ventricular Septal Rupture Secondary to Late Presentation of AMI with Impella Ventricular Assist Device**  
Presenting Author: Ahmed Seliem
- 9:15 AM **TCT 1428: Less Can Be More**  
Presenting Author: Raed Alkutshan
- 9:15 AM **TCT 1429: STEMI Secondary to Acute Atherothrombotic Occlusion Treated without Stent**  
Presenting Author: Rahul Dhawan
- 9:15 AM **TCT 1430: Atherectomy in STEMI is it contraindicated**  
Presenting Author: Ramprakash Devadoss
- 9:15 AM **TCT 1431: An anomalous cardiogenic shock**  
Presenting Author: roberto padalino
- 9:15 AM **TCT 1432: Strategy of PCI for a Patients with repeated coronary spontaneous dissection**  
Presenting Author: Rongchong Huang
- 9:15 AM **TCT 1433: Shades of STEMI**  
Presenting Author: Sharmaine Thiru
- 9:15 AM **TCT 1434: To stent or not to stent**  
Presenting Author: Sheikh Azeem
- 9:15 AM **TCT 1435: Crush technique for distal left main bifurcation in a patient with extensive anterior ST elevation myocardial infarction and cardiogenic shock**  
Presenting Author: Shih-Hung Chan
- 9:15 AM **TCT 1436: Unrelenting Hemodynamic and Electric Instability Resulting from Thrombotic Occlusion of a Non Dominant Right Coronary Artery**  
Presenting Author: Steven Song

## CHALLENGING CASES 5

### Challenging Cases 5

Structural: Non-ValveCoronary: CHIPVascularCoronary: CoreStructural: Valve

SATURDAY, SEPTEMBER 28, 2019

9:15 AM - 10:45 AM

Hall D, Exhibition Level, Moscone South

9:15 AM - 10:45 AM

#### Coronary XX

Discussant: Yoshiaki Ito, Young-Hak Kim, Prathap Kumar, Faisal Latif, Shahar Lavi, Amir Lerman, Chunjian Li, John J. Lopez, Jianfang Luo, Sara C. Martinez, Bilal Mohyidin, Sunil V. Rao, Roberto Rossini

9:15 AM **TCT 1422: Primary PCI post TAVI Corvalve**

9:15 AM - 10:45 AM

#### Coronary XXI

Discussant: Ayman Abou El Magd, Abdullah Al Shafi Majumder, Kambis Mashayekhi, Marco G. Mennuni, Yoshinobu Murasato, Alfredo E. Rodriguez, Jamil Abdalla Saad, Sheila Sahn, Yader Sandoval, Elias Sanidas, Erick Schampaert, Marcello Sena, Lee Seung-Whan, A.J. Conrad C. Smith

9:15 AM **TCT 1437: Utilization of Minimal Dose Radiation in Percutaneous Coronary Intervention During ST Elevation Myocardial Infarction with Cardiogenic Shock**  
Presenting Author: Subrata Kar

9:15 AM **TCT 1438: Relax It is Icy Cold and I am Dying A Case of MINOCA**



Presenting Author: Tan Kin Leong

- 9:15 AM **TCT 1439: PCI with post infarction VSD endovascular closure in cardiogenic shock patient**  
Presenting Author: Tigran Akobyan
- 9:15 AM **TCT 1440: Percutaneous coronary intervention in a case of double vessel acute myocardial infarction due to multi site thrombosis: a rare presentation of Antiphospholipid syndrome.**  
Presenting Author: Vipin Thomachan
- 9:15 AM **TCT 1441: Cocaine induced myocardial infarction complicated by cardiac arrest in 24 year old patient**  
Presenting Author: Wijnand Den Dekker
- 9:15 AM **TCT 1442: Cardiogenic shock with extensive anterior wall STEMI with large thrombus originating from ascending aortic aneurysm**  
Presenting Author: Wiwat Kanjanarutjawiwat
- 9:15 AM **TCT 1443: Retrograde primary PCI LAD via LIMA in anterior STEMI**  
Presenting Author: Wojciech Trenkner
- 9:15 AM **TCT 1444: When your patient insist to challenge you**  
Presenting Author: Bassem badr
- 9:15 AM **TCT 1445: Shock and Bore: A Hybrid PCI Approach to Severely Calcific Lesions of Both Coronary Ostia**  
Presenting Author: Gareth Barnes
- 9:15 AM **TCT 1446: Left main equivalent bifurcation stenting of saphenous venous graft lesion in a patient with a previous rare saphenous venous graft intervention.**  
Presenting Author: Harinder K. Bali
- 9:15 AM **TCT 1447: OSTIAL LAD CTO STENTING WITH DES**  
Presenting Author: Hariom Tyagi
- 9:15 AM **TCT 1448: Double 5 F guiding catheter system to reduce dye consumption in a case of true bifurcation lesion**  
Presenting Author: Hidetsugu Sakai
- 9:15 AM **TCT 1449: Shockwave Lithotripsy Assisted PTCA in Right Coronary Artery CTO**  
Presenting Author: Ho-hin Choy
- 9:15 AM **TCT 1450: Late left internal mammary graft acute occlusion**  
Presenting Author: Ilias Nikolakopoulos
- 9:15 AM **TCT 1451: A True Solution to a False Aneurysm**  
Presenting Author: Jay Patel
- 9:15 AM **TCT 1452: Tackling Left main during cardiopulmonary Resuscitation A Life saving experience**  
Presenting Author: Jayasheelan M R

9:15 AM - 10:45 AM

#### Coronary XXII

Discussant: Hitoshi Matsuo, Ruben A. Piraino, Asif Qasim, Ricardo Sanz-Ruiz, Thomas Schmitz, Joao Brum Silveira, Jasvinder Singh, Ramesh Singh, Julian Strange, Nadia R. Sutton, Holger Thiele, Ernesto M. Torresani, Daniela Trabattoni, Yasunori Ueda, Imre Ungi, Glenn Van Langenhove, Tracy Y. Wang, Zhao Wang

- 9:15 AM **TCT 1453: Challenging Access Preparation and Imaging Guided Complex Single Remaining Vessel Left Main PCI under Hemodynamic Support in a Patient with Impaired LV Function and Generalized Atherosclerosis**  
Presenting Author: Jonas Haener

- 9:15 AM **TCT 1454: Percutaneous Coronary Intervention of a Right Coronary Artery Chronic Total Occlusion Combined with Complex Trifurcating Left Main Lesion**  
Presenting Author: Judit Karacsonyi
- 9:15 AM **TCT 1455: Prison Break A case of Rota shock pella**  
Presenting Author: Ka Chun Alan Chan
- 9:15 AM **TCT 1456: Long Way through the Bumpy Road for the New Hope: Successful PCI for Very Long CTO RCA with Critical and Heavily Calcified Donor Artery**  
Presenting Author: Kabul Priyantoro
- 9:15 AM **TCT 1457: ECART Conquering the Aorto ostial CAP in CTO PCI**  
Presenting Author: Kalaivani Mahadevan
- 9:15 AM **TCT 1458: Successful Percutaneous Coronary Intervention of a Chronically Severely Under Expanded Stent With Shockwave Intravascular Lithotripsy After Failure of Super High Pressure Non Compliant Balloon Combined With Double Buddy Wire Technique**  
Presenting Author: Karl Isaaz
- 9:15 AM **TCT 1459: How to use dual lumen microcatheter in case of ambiguous proximal cap in CTO**  
Presenting Author: krzysztof bryniarski
- 9:15 AM **TCT 1460: Occluding balloon as a bailout of reverse wire technique in percutaneous coronary intervention for right coronary artery chronic total occlusion involving distal bifurcation**  
Presenting Author: Kuan-Liang Liu
- 9:15 AM **TCT 1461: Is there still a difference in radial and femoral access in CTO recanalization clinical case**  
Presenting Author: Leszek Bryniarski
- 9:15 AM **TCT 1462: ECMO supported Revascularization for a CHIP Patient with Multivessel Subtotal Occlusion**  
Presenting Author: Liming Gao
- 9:15 AM **TCT 1463: Transcatheter Closure With Figulla Flex II of Late Post Myocardial Infarction Ventricular Septal Rupture**  
Presenting Author: Luciano Dzul Gutierrez
- 9:15 AM **TCT 1464: Zero Contrast Diagnostic Angiography and Multivessel PCI for NSTEMI in a Patient with CKD V**  
Presenting Author: Mahesh V. Madhavan
- 9:15 AM **TCT 1465: Post Atherectomy No Flow Management**  
Presenting Author: Muzaffar Ali
- 9:15 AM **TCT 1466: PERCUTANEOUS RETRIEVAL OF A LOST COVERED STENT IN THE LEFT MAIN STEM AND SUCCESSFUL TREATMENT OF A CORONARY ARTERY PERFORATION**  
Presenting Author: Niall T. Mulvihill
- 9:15 AM **TCT 1467: Coronary perforation post prolonged CPR during primary RCA intervention**  
Presenting Author: Nireen Okasha
- 9:15 AM **TCT 1468: Consecutive Complications Occurred in Percutaneous Intervention of Ostial Left Main Coronary Artery**  
Presenting Author: Norikiyo Oka

9:15 AM - 10:45 AM

#### Coronary XXIII

Discussant: Robert J. Gil, Shams Munwar, Fumiyasu Seike, Dmitry P. Stolyarov, Carlos E. Uribe, Freek Verheugt, Mladen I. Vidovich, George J. Vlachojannis, Stephen W. Waldo, Jian'an Wang, Mark W.I. Webster, William C. Wijns, Hadley Wilson, Yoshito Yamamoto, Junqing Yang, Wei-Hsian Yin, Alexandre C. Zago

- 9:15 AM **TCT 1469: Management of Coronary Guidewire Fracture**  
*Presenting Author: Omar Al-taweel*
- 9:15 AM **TCT 1470: COMPLICATIONS DURING LMCA PCI UNHOLY ROMANCE BETWEEN HEART AND BRAIN**  
*Presenting Author: PRASANT KUMAR SAHOO*
- 9:15 AM **TCT 1471: Careless rendezvous a recipe for disaster Single catheter retrograde CTO PCI with rendezvous technique causing perforation**  
*Presenting Author: Pratap Kumar*
- 9:15 AM **TCT 1472: Unusual accident via transradial intervention**  
*Presenting Author: Purich Surunchuakorn*
- 9:15 AM **TCT 1473: Complications and Learnings from MVD and Diabetics**  
*Presenting Author: Rakesh Jaswal*
- 9:15 AM **TCT 1474: A DAY OF COMPLICATIONS**  
*Presenting Author: ramesh patel*
- 9:15 AM **TCT 1475: RESCUE LEFT MAIN STENTING IN IATROGENIC ASCENDING AORTA DISSECTION INDUCED BY GUIDE CATHETER**  
*Presenting Author: ramesh sankaran*
- 9:15 AM **TCT 1476: Shock after successful Primary PCl a shocking cause**  
*Presenting Author: Ravindran Rajendran*
- 9:15 AM **TCT 1477: Rare Complication of PCI**  
*Presenting Author: reyan anis*
- 9:15 AM **TCT 1478: Bail Out Reverse Crush Bifurcation Stenting for Hydraulic Dissection of the Left Main and Left Circumflex**  
*Presenting Author: Samit Shah*
- 9:15 AM **TCT 1479: Pinhole coronary perforation due to rupture of a very small balloon in CTO technique with Grenadoplasty**  
*Presenting Author: Samruay Kridkratoke*
- 9:15 AM **TCT 1480: Successful Recovery of undeployed Stent Loss in LCx artery during Percutaneous Intervention**  
*Presenting Author: Sana Ahmed*
- 9:15 AM **TCT 1481: A Complex Spontaneous Coronary Artery Dissection of Left Main Left Anterior Descending and Left Circumflex coronary artery**  
*Presenting Author: Sayed Elgizy*
- 9:15 AM **TCT 1482: Bailout Polytetrafluoroethylene Covered Stent PTFE CS Implantation for Severe Coronary Perforation at the Bifurcation of the Left Anterior Descending Coronary Artery LAD using the Kissing Stent Technique.**  
*Presenting Author: Seigo Iwane*
- 9:15 AM **TCT 1483: Successful Retrieval of an Entrapped Orbital Atherectomy System OAS by Using Two Guide System**  
*Presenting Author: Shota Naniwa*
- 9:15 AM **TCT 1484: COVERED STENTS DO COVER YOU...**  
*Presenting Author: Shyam Sasidharan*

9:15 AM - 10:45 AM

#### Endovascular VIII

*Discussant: Ali F. Aboufares, Mazen Abu-Fadel, J. Michael Bacharach, Daniel R. Bensimhon, Philippe Brenot, Alejandro Cherro, Maddury Jyotsna, Philip M. Meyers, John Moriarty, Khusrow Niazi*

- 9:15 AM **TCT 1485: Dual access for external iliac artery common femoral artery and superficial femoral artery recanalization using the Rendezvous technique**

*Presenting Author: Adam Csavajda*

- 9:15 AM **TCT 1486: ENDOVASCULAR TREATMENT OF POST TRAUMATIC ARTERIOVENOUS FISTULA AVF WITH MECHANICAL TOTAL OCCLUSION TO OF SUPERFICIAL FEMORAL ARTERY SFA**  
*Presenting Author: ALEJANDRO MARIO MARTINEZ*
- 9:15 AM **TCT 1487: Stealing from the heart: A case of an intercostal branch of a left internal mammary artery graft**  
*Presenting Author: Asif Uddin*
- 9:15 AM **TCT 1488: The case of multi stage treatment of arteriovenous malformations of the uterus and pelvis**  
*Presenting Author: Bauyrzhan Ormanov*
- 9:15 AM **TCT 1489: Go where there is no path and leave a trail: a case of chronic iliac vein occlusion requiring repeated attempts for recanalization.**  
*Presenting Author: Bryan Yan*
- 9:15 AM **TCT 1490: Transcollateral recanalization of Popliteal ATA and PTA**  
*Presenting Author: Farhat Fouladvand*
- 9:15 AM **TCT 1491: Endovascular therapy for iliac arteries via Distal Radial Artery in Hemodialysis Patient**  
*Presenting Author: satoru takaesu*
- 9:15 AM **TCT 1492: A rare case of acute idiopathic axillary artery occlusion DVT amp Massive pulmonary embolism**  
*Presenting Author: Sreekala Padmanabhan*
- 9:15 AM **TCT 1493: High Output Cardiac Failure Resulting from Renal Artery Stenosis Related to an Aortic Endoluminal Graft**  
*Presenting Author: Srilekha Sridhara*
- 9:15 AM **TCT 1494: Stroke risk aborted after endovascular treatment of brachycephalic arterial trunk in Takayasu Arteritis.**  
*Presenting Author: Gustavo Carvalho*
- 9:15 AM **TCT 1495: Stroke due to paradoxical emboli from pulmonary arteriovenous malformation**  
*Presenting Author: Ki Buom Lee*
- 9:15 AM **TCT 1496: My most challenging case**  
*Presenting Author: Mark Abelson*
- 9:15 AM **TCT 1497: Stroke as a complication of PCI in a patient with myocardial infarction.**  
*Presenting Author: Nikita Litvinyuk*

9:15 AM - 10:45 AM

#### Coronary XIV

*Discussant: Xuebo Liu, Massimo Mancone, Salvatore F. Mannino, Hitoshi Matsuo, Lampros Michalis, Michael Mooney, Graham Nichol, Eugenia Nikolsky, Manotosh Panja, Amit N. Patel, Xiao Wang, Jiancheng Xiu, Yuejin Yang, Azfar G. Zaman, Chris Zambikides, Feng Zhang*

- 9:15 AM **TCT 1498: A Case of Spontaneous Coronary Artery Dissection Managed Based on NIRS IVUS Findings**  
*Presenting Author: Adnan Kassier*
- 9:15 AM **TCT 1499: 3 D OCT guided Culotte intervention of LAD and D 1 bifurcation : Step by step**  
*Presenting Author: Ganesan R. Nambirajan*
- 9:15 AM **TCT 1500: OCT guided exclusion of expanding multiple coronary aneurisms induced by bioresorbable scaffolds**  
*Presenting Author: Giuseppe Calligaris*
- 9:15 AM **TCT 1501: The antegrade dissection and re entry technique followed by intravascular ultrasound guided re wiring using New IVUS guided method for a LAD CTO case.**

Presenting Author: Hiroyuki Nagai

- 9:15 AM **TCT 1502: A Case of Multivessel Recanalization of Organized thrombus**  
Presenting Author: Hwa Jung Kim
- 9:15 AM **TCT 1503: OCT Guided PCI of Left Main Coronary Artery Stenting in Acute Coronary Syndrome**  
Presenting Author: Jeethender kumar kala
- 9:15 AM **TCT 1504: Zero Contrast Minimal Contrast Image Guided PCI**  
Presenting Author: KARTHIK VASUDEVAN
- 9:15 AM **TCT 1505: Instent neoatherosclerotic dissection versus geographic miss with dissection: need for multimodal imaging**  
Presenting Author: Maya Safarova
- 9:15 AM **TCT 1506: MILKING THROUGH THE STENT**  
Presenting Author: roopali khanna
- 9:15 AM **TCT 1507: An unstable angina case caused by coronary spasm not noticed without intravascular ultrasound finding**  
Presenting Author: Takamichi Takahashi
- 9:15 AM **TCT 1508: Low post PCI FFR values:a Trigger for Trouble**  
Presenting Author: Tara Neleman
- 9:15 AM **TCT 1509: Stent underexpansion in angiography guided percutaneous coronary intervention in patient with ST elevational myocardial infarction corrected later by IVUS guided PCI**  
Presenting Author: Timea szigethi.timea14@gmail.com
- 9:15 AM **TCT 1510: Seeing the Unseen Intra Coronary Imaging**  
Presenting Author: Vimalraj Bogana Shanmugam
- 9:15 AM **TCT 1511: LADampD Bifurcation How to treat**  
Presenting Author: Yongbai Luo
- 9:15 AM **TCT 1512: Blunt Chest Trauma Presenting with Acute Coronary Event**  
Presenting Author: Arif Albulushi

9:15 AM - 10:45 AM

#### Structural IX

Discussant: Amr E. Abbas, Ramesh Adiraju, Carla Agatiello, Asim Cheema, Matthias Götzberg, Simon Cheung-chi Lam, Michael J. Mullen, Vivian G. Ng, Brad Oldemeyer, Katia Orvin, Ali Oto, Jorge Palazuelos, Vincent J. Pompili, Vivek Rajagopal, Frank E. Silvestry, Alfredo Trento, Zoltan G. Turi

- 9:15 AM **TCT 1513: The Use of Multimodality Imaging to Diagnose Late Onset Complication Post TAVR: The Utility of MRI derived 4D Flow**  
Presenting Author: Atul Chugh
- 9:15 AM **TCT 1514: Transcatheter Repair of Anterior Mitral Leaflet Perforation and Hemolysis: Deploy Retrieve Redeploy**  
Presenting Author: Abdul Qazi
- 9:15 AM **TCT 1515: PCI to Iatrogenic Left Main stenosis occurring after the sequential replacement of a defective aortic valve**  
Presenting Author: Austin Komaranchath
- 9:15 AM **TCT 1516: Video Assisted Thoracoscopic Repair of a Penetrating Cardiac Injury with a Percutaneous ASD Occlusion Device: A Structural Heart Team Approach**

Presenting Author: Cenap Udemir

- 9:15 AM **TCT 1517: After TAVI PVL treatment complications how much is too much**  
Presenting Author: Dariusz Jagielak
- 9:15 AM **TCT 1518: A Case Series of Late Valve Migration after Transcatheter Aortic Valve Implantation**  
Presenting Author: Eric Cantey
- 9:15 AM **TCT 1519: MitraClip XTR embolization and retrieval Gripper Line Failure**  
Presenting Author: femi philip
- 9:15 AM **TCT 1520: Out of the frying pan avoiding the fire: A ViV procedure resulting in a VSD**  
Presenting Author: Hasan Rehman
- 9:15 AM **TCT 1521: when a simple interventional procedure turns into a nightmare**  
Presenting Author: heba nossier
- 9:15 AM **TCT 1522: Slip N Slide: Valve Embolization During Valve in Valve Transcatheter Aortic Valve Replacement**  
Presenting Author: John Medamana
- 9:15 AM **TCT 1523: Left Main Coronary Artery Occlusion during TAVR with Evolut R due to Skirt Obstruction of Sinus after Successful Left BASILICA**  
Presenting Author: Kamran I. Muhammad
- 9:15 AM **TCT 1524: An Infolded Evolut™: Unexpected Complication of Bicuspid Valve TAVR**  
Presenting Author: Kendra Coonse
- 9:15 AM **TCT 1525: Percutaneous transcatheter closure of iatrogenic aorto right atrial fistula using the Amplatzer duct occluder**  
Presenting Author: Kyung Hoon Roh
- 9:15 AM **TCT 1526: Percutaneous closure of a post TAVR Aorta RV fistula**  
Presenting Author: Michael Megaly
- 9:15 AM **TCT 1527: Aortic para valvular leak repair Can TAVR be the answer**  
Presenting Author: Mohamed Abdel-Aal Ahmed

9:15 AM - 10:45 AM

#### Structural X

Discussant: Peter C. Block, Martine Gilard, Sanjay Kaul, Jean-Claude Laborde, Antoine Lafont, Reginald I. Low, Pranav Loyalka, Doff B. McElhinney, Issam D. Moussa, Christoph A. Nienaber, Mark Osten, Jai-Wun Park, Mehul Patel, Daniel H. Steinberg, Thomas Walther

- 9:15 AM **TCT 1528: Percutaneous retrieval of an embolized 27 mm WATCHMAN device from the left ventricle using a combined transseptal and transarterial approach**  
Presenting Author: Nikolaos Spiliadis
- 9:15 AM **TCT 1529: Balloon Rupture Management During Bio prosthetic Aortic Valve Fracture.**  
Presenting Author: Sayf Altabaqchali
- 9:15 AM **TCT 1530: Successful implantation of MitraClip after cardiac tamponade**  
Presenting Author: Shingo Mizuno
- 9:15 AM **TCT 1531: A Chain of Complications Due to Hemodynamically Relevant Iatrogenic Atrial Septal Defect after Successful MitraClip Implantation**

Presenting Author: Sylvia Otto

9:15 AM **TCT 1532: Removal of Leadless pacemaker using double snare catheters**

Presenting Author: Tadashi YAMAMOTO

9:15 AM **TCT 1533: Ruptured sinus of valsalva complicating transcatheter aortic valve replacement Lessons and practical considerations for percutaneous closure.**

Presenting Author: Thato Mabote

9:15 AM **TCT 1534: Percutaneous VA ECMO supported Transcatheter Valve in Valve implantation for Severe Bioprosthetic Pulmonic Valve Dysfunction**

Presenting Author: aakash garg

9:15 AM **TCT 1535: A Rare Case of Carcinoid Heart Disease with Multi valvular Involvement Solved With Transcatheter Therapy**

Presenting Author: Aaron Gopal

9:15 AM **TCT 1536: Successful coil embolization of a large RCA coronary sinus fistula causing coronary steal and a significant left to right shunt**

Presenting Author: Akanksha Thakkar

9:15 AM **TCT 1537: Large LVOT pseudoaneurysm closed percutaneously from novel apical approach**

Presenting Author: Andrew Chatfield

9:15 AM **TCT 1538: Percutaneous Closure of an Apical Pseudoaneurysm with an Amplatzer VSD Occluder viaRetrograde Approach**

Presenting Author: Brett Wanamaker

9:15 AM **TCT 1539: Patent Foramen Ovale Closure For Splenic Infarction An unusual presentation. An unusual indication.**

Presenting Author: Edgar Stroppa Lamas

9:15 AM **TCT 1540: Percutaneous Management Of Large LAD to PA Coronary Fistula**

Presenting Author: Fawad Virk

9:15 AM **TCT 1541: Coiling of LAD fistula**

Presenting Author: George Hunter

9:15 AM **TCT 1542: Open Pulmonary Artery Narrowing withTrans Catheter Pulmonic Valve Replacement for Severe Symptomatic Pulmonic Regurgitation in High Risk Patient**

Presenting Author: Gerald Colern

9:15 AM - 10:45 AM

#### Structural XI

Discussant: Matjaz Bunc, Jamie Kim, Eric Kirker, Pinak B. Shah, Alok Sharma, Ruth M. Starzyk, Vimalkumar Veerappan Kandasamy, Paul Vermeersch, Pedro A. Villablanca, Neil J. Weissman, S. Chiu Wong, Masanori Yamamoto, Futoshi Yamanaka, Sung-Han Yoon, David X. Zhao

9:15 AM **TCT 1543: Coronary Compression Limiting Options for TPVR**

Presenting Author: Grant Henderson

9:15 AM **TCT 1544: Successful Percutaneous Coronary Intervention in a Patient with Acute Coronary Syndrome in the Setting of an Anomalous Left Main Coronary Artery Arising from the Right Coronary Cusp**

Presenting Author: Hadi Mahmaljy

9:15 AM **TCT 1545: A Giant StealSingle Coronary Artery with Coronary Cameral Fistula: Succesful device closure**

Presenting Author: Harsha Perla

9:15 AM **TCT 1546: Bifurcation stenting in unexpected places In pulmonary vein stenting know your POT**

Presenting Author: Ioannis Iakovou

9:15 AM **TCT 1547: TAVR for an aortic valve insufficiency in a very young patient with an initial diagnosis of a congenital aortic stenosis.**

Presenting Author: Jaroslav Trebacz

9:15 AM **TCT 1548: RESCUE PCI**

Presenting Author: Jitendra Singh

9:15 AM **TCT 1549: A giant saphenous vein graft aneurysm treated with percutaneous closure**

Presenting Author: Joel Giblett

9:15 AM **TCT 1550: Connecting the Dots Acquired Abdominal Aortic Interruption**

Presenting Author: John P. Breinholt

9:15 AM **TCT 1551: PERCUTANEOUS CLOSURE OF INFUNDIBULAR VENTRICULAR SEPTAL DEFECT WITH A PDA OCCLUDER DEVICE IN AN ADULT WOMAN**

Presenting Author: JORGE DANIEL HERNANDEZ GUZMAN

9:15 AM **TCT 1552: Percutaneous transcatheter occlusion of multiples Pulmonary arteriovenous fistulas PAVF with Amplatzer vascular plugs and Coil.**

Presenting Author: Jorge Luis Vivar Sanchez

9:15 AM **TCT 1553: Unusual right to left atrial shunt successfully occluded with Amplatzer vascular plug II**

Presenting Author: Josef Bis

9:15 AM **TCT 1554: Manual implantation through surgical access of a percutaneous VSD occluder device in a post AMI VSD.**

Presenting Author: Luis Ortega-Paz

9:15 AM **TCT 1555: Complex coronary arteries giant coronary sinus fistulas: a case report of a rare fistulous communication successfully treated with percutaneous technique.**

Presenting Author: Massimo Mancone

9:15 AM **TCT 1556: Intentional aortic bioprosthetic valve fracture to eliminate large paravalvular gaps with severe aortic regurgitation**

Presenting Author: Meहुl Patel

9:15 AM **TCT 1557: Nature Decides SurvivalPrimary PCI in CCTGA at 76 yearsWorlds oldest patient**

Presenting Author: Milan Chag

9:15 AM **TCT 1558: Complication of pulmonary valve in valve Procedure in a patient with tetralogy of fallot**

Presenting Author: Muhammad Yasin

9:15 AM **TCT 1559: Post Myocardial Infaction Ventricular Septal Rupture Closure by Amplatzer VSD Device**

Presenting Author: Navreet Singh

9:15 AM **TCT 1560: Percutaneous closure of apical VSD after failed surgical procedure**

Presenting Author: Pablo Antileo

9:15 AM **TCT 1561: A Rare Case of Coronary Artery Anomalies**

Presenting Author: Ripa Patel

9:15 AM **TCT 1562: FUNCTIONAL EVALUATION OF THE CLOSURE OF PULMONARY CORONARY FISTULA**

Presenting Author: Rodrigo Monsalve Leyton

9:15 AM **TCT 1563: When a Balloon buys more time**

## CHALLENGING CASES 6

### Challenging Cases 6

Coronary: Core Coronary: CHIP Structural: Non-Valve Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 3:30 PM

Hall D, Exhibition Level, Moscone South

2:00 PM - 3:30 PM

#### Coronary XXV

Discussant: Sergey A. Abugov, Sanjeev Kumar Agarwal, Khalid Ibrahim Amber, Anthony A. Bavry, Yu Bo, Roberto Botelho, Fabio S. Brito Jr., Christopher E. Buller, Zening Jin, Samuel K. Mathew, Awad AA Mohamed, Pedro R. Moreno, Toshiya Muramatsu, Ganesan R. Nambirajan, Holger M. Nef, Andrzej J. Ochala, Keith G. Oldroyd, Harun Otieno, Anita Paggi, Manotosh Panja

- 2:00 PM **TCT 1564: Anomalous left main coronary origin from right coronary sinus in 69 year old male with advanced atherosclerotic multivessel disease left main in stent stenosis and proximal left cx severe stenosis**  
Presenting Author: Ahmad Fathy
- 2:00 PM **TCT 1565: Post TAVI PCI for Inferior Infarction The challenge**  
Presenting Author: Ahmed Ashraf Eissa
- 2:00 PM **TCT 1566: Double micro catheter technique for retrograde collateral wiring. Case based learning.**  
Presenting Author: Ahmed Elghamaz
- 2:00 PM **TCT 1567: How can you transform a simple crush case to a hustle Overconfidence is a sin**  
Presenting Author: Ahmed Mowafy
- 2:00 PM **TCT 1568: RADIAL PCI IVUS GUIDED IN ANOMALY RARE LM AND MVDS**  
Presenting Author: ahmed zaid
- 2:00 PM **TCT 1569: Giant coronary aneurysm treated with stent and a ball of coils**  
Presenting Author: Anita Paggi
- 2:00 PM **TCT 1570: Ad Hoc Retrograde LAD CTO Bifurcation Revascularization in a Patient with NSTEMI**  
Presenting Author: Anna Subramaniam
- 2:00 PM **TCT 1571: Successful Angioplasty of a Very High Pressure Resistant Angulated Calcified Coronary Artery Lesion With a Shockwave IVL Catheter Advanced Using a Guide Catheter Extension**  
Presenting Author: Antoine Gerbay
- 2:00 PM **TCT 1572: Lower dose of tissue plasminogen activator used for ultrasound assisted catheter directed thrombolysis for high risk pulmonary embolism in a post operative patient with a high risk of bleeding**  
Presenting Author: Ankita Aggarwal
- 2:00 PM **TCT 1573: IVUS GUIDED LEFT MAIN DK CRUSH PTCA WITH ROTABATION AND IABP SUPPORT IN A CASE OF TENSION PNEUMOTHORAX ON VENTILATOR.**  
Presenting Author: Arshad M.

- 2:00 PM **TCT 1574: Successful staged PCI with atherectomy of LAD and RCA followed by TAVR in a patient with multivessel CAD and severe aortic stenosis.**  
Presenting Author: Ashvarya Mangla
- 2:00 PM **TCT 1575: Antegrade fenestration and re entry AFR with small diameter balloons.**  
Presenting Author: Barbara Bellini
- 2:00 PM **TCT 1576: A Non Usual Critical Stenosis with Cardiogenic Shock after Cardiac Surgery.**  
Presenting Author: marc bedossa
- 2:00 PM **TCT 1577: Thrombus Embolization while Attempting Access for Mitral Clip**  
Presenting Author: Marinos Charalambous
- 2:00 PM **TCT 1578: Complicated by the hemorrhagic and cardiogenic shock ECMO supported CHIP PCI of the severe LM stenosis in the patient with the severe AS before TAVR**  
Presenting Author: Mariusz Zadura

2:00 PM - 3:30 PM

#### Coronary XXVI

Discussant: Warren J. Cantor, Christos Christou, Jorge Cortes Lawrenz, Gregory J. Dehmer, Gerard Finet, Ole Fröbert, Eulogio J. Garcia, Kirk N. Garratt, Alejandro Goldsmit, Tarek Helmy, Borja Ibanez, Yuji Ikari, Ciro Indolfi, Jens R. Jensen, Darren Walters

- 2:00 PM **TCT 1579: Impella assisted percutaneous coronary intervention using rotational atherectomy with minimal contrast after balloon aortic valvuloplasty in a patient with severe aortic stenosis and chronic kidney disease**  
Presenting Author: Masaru Kuroda
- 2:00 PM **TCT 1580: A challenging CTO case with a forgotten complication**  
Presenting Author: mohamed Aba Bakr Elbayoumi
- 2:00 PM **TCT 1581: Take the risk or lose the chance A very critical distal LM Bifurcational PCI**  
Presenting Author: Moheb Wadie
- 2:00 PM **TCT 1582: Challenging Primary Percutaneous Coronary Intervention PCI to a Saphenous Vein Graft to Right Coronary Artery SVG RCA in the setting of Acute inferior Myocardial Infarction and Recurrent Ventricular Fibrillation.**  
Presenting Author: Montaser Ismail
- 2:00 PM **TCT 1583: FUNCTIONAL ASSESSMENT OF SEQUENTIAL CORONARY ARTERY FISTULA AND CORONARY ARTERY STENOSIS WITH INSTANTANEOUS WAVE FREE RATIO IFR**  
Presenting Author: Muhammad Siddiqui
- 2:00 PM **TCT 1584: A Tough Nut**  
Presenting Author: Naeema Ginwala-Hasan
- 2:00 PM **TCT 1585: The art of retrograde approach in chronic total occlusion: Externalisation to facilitate our difficulties**  
Presenting Author: NAY THU WIN
- 2:00 PM **TCT 1586: Intra Coronary Rotaglide Injection To Facilitate Passage Of Rotafloppy Wire Across An Uncrossable Severely Calcified Lesion.**  
Presenting Author: Nirmal Kaur
- 2:00 PM **TCT 1587: Kiss kiss and kiss its healthy**  
Presenting Author: Osama Shoeib



- 2:00 PM **TCT 1588: Emergency Shockwave assisted PCI to underexpanded left main stem stents in Acute MI.**  
*Presenting Author: Peter O'Kane*
- 2:00 PM **TCT 1589: High risk Percutaneous coronary intervention in a patient with calcific distal LM and ostial LAD and ostial LCX lesions.**  
*Presenting Author: Prasad Shah*
- 2:00 PM **TCT 1590: Left Main Bifurcation Stenting by DK Crush technique**  
*Presenting Author: PUNISH SADANA*
- 2:00 PM **TCT 1591: COMPLEX HIGH RISK PTCA FROM LM OSTIUM TO DISTAL LAD IN CLACIFIED ARTERY USING BUDDY WIRE TECHNIQUE**  
*Presenting Author: RAGHAV SHARMA*
- 2:00 PM **TCT 1592: I had a crushl kissed but still its not a love story**  
*Presenting Author: RAHMATULLAH ASIF*
- 2:00 PM **TCT 1593: Complex Retrograde RCA CTO PCI**  
*Presenting Author: Raj Chandwaney*

2:00 PM - 3:30 PM

**Coronary XXVII**

*Discussant: Amr E. Abbas, Ramesh Adiraju, Kee-Sik Kim, Nickolas Nodar Kipshidze, Nick Lakkis, Randall J. Lee, Hung Q. Ly, Jeff Marshall, Ernest L. Mazzaferri, Jr., Christoph K. Naber, Sandeep Nathan, Marin Postu, Ross Prpic, Expedito E. Ribeiro, Rahul Sakhuja, Michael P. Savage, Sayan Sen*

- 2:00 PM **TCT 1594: Just a mess**  
*Presenting Author: ramy atlm*
- 2:00 PM **TCT 1595: When shorter is better....A novel technique for shortening a guide catheter without losing guidewire position**  
*Presenting Author: René Hameau Davanzo*
- 2:00 PM **TCT 1596: Line em up A comprehensive heart team approach to multiple severe vascular conditions**  
*Presenting Author: Rohan Mehta*
- 2:00 PM **TCT 1597: Going in the opposite way is not always bad**  
*Presenting Author: Rosa Alba Abellas Sequeiros*
- 2:00 PM **TCT 1598: THROMBUS OR DISSECTION:WHICH IS THE WORST ENEMY**  
*Presenting Author: Shekhar bhise*
- 2:00 PM **TCT 1599: Combined Transcatheter Aortic Valve Replacement and Transcatheter Mitral ViV Replacement for Mixed Aortic Stenosis and Severe Mitral Prosthesis Stenosis and Regurgitation**  
*Presenting Author: Sara Karnib*
- 2:00 PM **TCT 1600: Chornic Total Occlusion Percutaneous Coronary Intervention of Left Anterior Descending Arteryin a Patient with Severe Anaphylaxis to Iodinated Contrast Agents**  
*Presenting Author: Saroj Neupane*
- 2:00 PM **TCT 1601: Severely Resistant Lesion of Right Coronary Artery Menaged with High Pressure Balloon**  
*Presenting Author: Sasa Loncar*
- 2:00 PM **TCT 1602: Making the impossible possible Appropriate use od hybrid techniques**  
*Presenting Author: SATNAM SINGH*
- 2:00 PM **TCT 1603: Primary revascularization of occluded saphenous vein graft to detect anastomosis with IVUS guidance for treatment of Long RCA CTO lesion**

*Presenting Author: SEIJI KANO*

- 2:00 PM **TCT 1604: How to manage an unusual complication after primary percutaneous intervention**  
*Presenting Author: Marouane Boukhris*
- 2:00 PM **TCT 1605: An Odd Exit: Story of a LM**  
*Presenting Author: Md Minhaj Arefin*
- 2:00 PM **TCT 1606: Stuck in a Crossroad**  
*Presenting Author: Michael Chiang*
- 2:00 PM **TCT 1607: Recover an Acutely Occluded Side Branch with a Small Balloon over a Jailed Wire Following Provisional Stenting**  
*Presenting Author: Michael Liang*
- 2:00 PM **TCT 1608: OCT Saved The Day A Complication never reported before**  
*Presenting Author: Milan Chag*

2:00 PM - 3:30 PM

**Coronary XXVIII**

*Discussant: Zening Jin, Xuebo Liu, Massimo Mancone, Salvatore F. Mannino, Samuel K. Mathew, Hitoshi Matsuo, Awad AA Mohamed, Pedro R. Moreno, Toshiya Muramatsu, Ganesan R. Nambirajan, Holger M. Nef, Eugenia Nikolsky, Husam Noor, Andrzej J. Ochala, Keith G. Oldroyd, Anita Paggi, Manotosh Panja, Amit N. Patel*

- 2:00 PM **TCT 1609: Stuck IVUS causing damage to the stent on pullback.**  
*Presenting Author: Mahit Sharma*
- 2:00 PM **TCT 1610: DISLODGE MENTSTRUCK TWICE**  
*Presenting Author: MUHAMMED SHALOOB*
- 2:00 PM **TCT 1611: Every Interventionists nightmare: Successful nonsurgical treatment of left main coronary complication during angioplasty**  
*Presenting Author: Siddhartha Mengi*
- 2:00 PM **TCT 1612: Coronary perforation complicated with balloon shaft rupture**  
*Presenting Author: Sinan Varol*
- 2:00 PM **TCT 1613: Delayed covered coronary wall rupture following rotational atherectomy in the subintimal space during percutaneous recanalization of a long and heavily calcified LAD CTO successfully treated with implantation of two newer generation thin strut covered stents.**  
*Presenting Author: Sophie Degrauwe*
- 2:00 PM **TCT 1614: A balloon a day takes a day a non deflation night mare**  
*Presenting Author: SUHAIL MUHAMMED*
- 2:00 PM **TCT 1615: Stuck Intracoronary balloon catheter with broken shaft Nightmare in Cathlab**  
*Presenting Author: SUNIL KUMAR SRINIVAS*
- 2:00 PM **TCT 1616: Unintentional coronary stent extraction postdeployment due to wire trapping**  
*Presenting Author: SUNIL KUMAR SRINIVAS*
- 2:00 PM **TCT 1617: ECMO TO THE RESCUE IN A CASE OF REPEATED STENT THROMBOSIS AFTER A PAMI FOR RIGHT VENTRICULAR MYOCARDIAL INFRCITION**  
*Presenting Author: Suresh Davis*
- 2:00 PM **TCT 1618: A case of coronary perforation due to migration of wire into a crack of calcified lesion.**  
*Presenting Author: Tomokazu Sawada*



2:00 PM **TCT 1619: I PREFER NIGHTMARE OVER CORONARY ARTERY PERFORATION**

Presenting Author: TUNAGGINA AFRIN KHAN

2:00 PM **TCT 1620: A kinky problem**

Presenting Author: Usha Rao

2:00 PM **TCT 1621: IATROGENIC DOUBLE HELIX IN ACUTE MI BLURRING TO BLIND**

Presenting Author: vijaychaitanya borra

2:00 PM **TCT 1622: Coronary perforation**

Presenting Author: Vikash Goyal

2:00 PM **TCT 1623: Subtle but not too subtle: Role of Intracoronary Imaging in Coronary Dissection**

Presenting Author: Wasiq Zaidi

2:00 PM **TCT 1624: A catastrophic case of post coronary artery bypass grafting presenting with unstable angina Stent entrapment and device shaft fracture during percutaneous coronary intervention**

Presenting Author: Wonho Kim

2:00 PM - 3:30 PM

**Structural XII**

Discussant: Oluseun Alli, Michael Argenziano, Stefan C. Bertog, Giuseppe Biondi-Zoccai, John P. Breinholt, Ralph G. Brindis, Quang T. Bui, G. Michael Deeb, Eduardo De Marchena, Robbert J. De Winter, Cameron Dowling, Gilles Dreyfus, Mohamed Mohamed Elmaraghi, Marvin H. Eng, Francisco Fernandez-Aviles, Christian Frerker

2:00 PM **TCT 1625: High Risk Transcatheter Pulmonic Valve Replacement of a Stenosed Conduit in a Hypercoagulable Patient**

Presenting Author: Saeed R. Shaikh

2:00 PM **TCT 1626: 1 Year Follow up Interruption Of Coronary venous Fistula With Stent Implantation In The Coronary Sinus**

Presenting Author: Sergey P. Semitko

2:00 PM **TCT 1627: Percutaneous intervention in LEVOATRIAL CARDINAL VEIN A rare Cause of right sided overload**

Presenting Author: shah zeb

2:00 PM **TCT 1628: Title: Anterior Aorta to Right Atrium Tunnel**

Presenting Author: Soumya Patra

2:00 PM **TCT 1629: Percutaneous closure of post traumatic ventricular septal defects by PDA device: A case report.**

Presenting Author: Tung Son Nguyen

2:00 PM **TCT 1630: Cardiac Arrest from Traumatic Aortopulmonary Window Following Transcatheter Pulmonary Valve Implantation in a Patient with Supported Ross**

Presenting Author: Vasutakarn Chongthammakun

2:00 PM **TCT 1631: A Peculiar Path to the Pulmonic Valve**

Presenting Author: Vigyan Bang

2:00 PM **TCT 1632: New onset decompensated heart failure secondary to biventricular non compaction cardiomyopathy and atrial septal defect in a female presenting in the 7th decade of life.**

Presenting Author: Yash Jobanputra

2:00 PM **TCT 1633: TAVR: Never give up**

Presenting Author: Mohammed Alshehri

2:00 PM **TCT 1634: Simultaneous TAVR and endovascular repair in 93 year old patient with severe aortic stenosis and severe aorto iliac disease**

Presenting Author: Nadish Garg

2:00 PM **TCT 1635: Three In One Intervention in a Patient with Severe Transvalvular Bioprosthetic Aortic Regurgitation Severe Left Main Stem and Proximal Right Coronary Artery Disease amp Obstructive Peripheral Vascular Disease**

Presenting Author: Neal Uren

2:00 PM - 3:30 PM

**Structural XIII**

Discussant: Teiji Akagi, Bruce Bowers, Joanna Chikwe, Abdallah El Sabbagh, Giovanni Esposito, Anton Farkas, Khalil Fattouch, Jason Foerst, George Gellert, Paul Gurbel, Joseph A. Hill, Vijay Iyer, Katherine Kearney, Nish Patel

2:00 PM **TCT 1636: How to bailout valve embolization during transcatheter aortic valve replacement**

Presenting Author: Nozomu Yukimitsu

2:00 PM **TCT 1637: Transcatheter heart valve performed in Patient with Bicuspid Aortic Valve with low coronary height**

Presenting Author: Rajasekhar Varada

2:00 PM **TCT 1639: Ruptured Sapien balloon during VIV that resulted in death**

Presenting Author: Ramesh Daggubati

2:00 PM **TCT 1640: Percutaneous Closure of AortoRight Ventricular Fistula following Transcatheter Aortic Valve Replacement**

Presenting Author: samineh sehatbaksh

2:00 PM **TCT 1641: Intravascular Lithotripsy For Heavily Calcified Subclavian Artery Stenosis To Facilitate Transsubclavian TAVR Valve Delivery**

Presenting Author: Saurabh Joshi

2:00 PM **TCT 1642: Plugging Paravalvular Leak in Transcatheter Aortic Valves**

Presenting Author: Sean Conte

2:00 PM **TCT 1643: Transcatheter Aortic Valve Replacement in a Heavily Calcified Bicuspid Valve using Antegrade Annular Crossing**

Presenting Author: GUNASEKARAN SENGOTTUVELU

2:00 PM **TCT 1644: Transcatheter heart valve performed in patient with severe calcific aortic stenosis with mild aortic regurgitation**

Presenting Author: SHAJUDEEN P

2:00 PM **TCT 1645: Valve in valve Transcatheter Aortic Valve Replacement in a patient with late failure of Bentall procedure**

Presenting Author: Simone Budassi

2:00 PM **TCT 1646: First Transfemoral Implantation of a JenaValveTM for severe aortic regurgitation in a failing autograft 12 years after Ross operation**

Presenting Author: Stephan Fichtlscherer

2:00 PM **TCT 1647: When an Edwards valve will not cross. Understanding the differences between Sapien S3 and Ultra using the balloon cushion and buddy balloon techniques**

Presenting Author: Stephen Dorman

2:00 PM **TCT 1648: Successful transcatheter aortic valve implantation in a patient with severe aortic stenosis after the comprehensive aortic root and valve repair surgery**

Presenting Author: Suk Min Seo

2:00 PM **TCT 1649: No contrast Transcatheter Aortic Valve Replacement TAVR with the Direct Aortic DA Approach A case with severe allergy to contrast agents and a vulnerable plaque rich tortuous descending aorta.**

Presenting Author: Takayoshi Kanie

2:00 PM **TCT 1650: Transcatheter aortic valve in valve implantation with bioprosthetic valve ring fracture for the treatment of a degenerated surgical valve of small label size**

Presenting Author: tommaso fabris

2:00 PM **TCT 1651: A case of severe aortic stenosis with severe calcification on left ventricular outflow tract treated by transfemoral approach transcatheter aortic valve implantation after endovascular treatment for severe stenosis of common iliac artery.**

Presenting Author: Tomoo Fujioka

2:00 PM **TCT 1652: Fortune favours the bold**

Presenting Author: Vladimir Rubimbura

2:00 PM **TCT 1653: Emergent Transcatheter Aortic Valve Replacement for Degenerated Aortic Valve Bioprosthesis Presenting with Acute Aortic Insufficiency and Cardiogenic Shock: Time For The On Call TAVR Team**

Presenting Author: William Merhi

2:00 PM **TCT 1654: Recurrent intra procedural ventricular flutter during TAVR**

Presenting Author: Won Kim

2:00 PM **TCT 1655: Transcatheter Aortic Valve Replacement after Endovascular Aortic Repair**

Presenting Author: Yoshimitsu Takaoka

2:00 PM **TCT 1656: a case of impending rupture of aortic aneurysm few days after TAVI for bicuspid valve**

Presenting Author: YUSUKE TOKUDA

2:00 PM - 3:30 PM

### Coronary XXX

Discussant: Oluseun Alli, Robert J. Applegate, Michael Argenziano, Stefan C. Bertog, Giuseppe Biondi-Zoccai, John P. Breinholt, Ralph G. Brindis, Quang T. Bui, G. Michael Deeb, Eduardo De Marchena, Robbert J. De Winter, Cameron Dowling, Gilles Dreyfus, Mohamed Mohamed Elmaraghi, Marvin H. Eng, Francisco Fernandez-Aviles, Christian Frerker

2:00 PM **TCT 1657: Peri procedural mechanical circulatory support**

Presenting Author: Lina Ya'qoub

2:00 PM **TCT 1658: The Intra Aortic Balloon Pump insertion in case of post myocardial infarction ventricular septal defect: still a reliable indication.**

Presenting Author: Florian Rey

2:00 PM **TCT 1659: Hemodynamic support in LM intervention is a cornerstone for saving the patient especially in acute situation**

Presenting Author: Mohamed Oraby

2:00 PM **TCT 1660: Cardiogenic Shock due to STEMI and NO surgeons on site Staying Alive**

Presenting Author: Dimitris Dampasis

2:00 PM **TCT 1661: Perfectionism a double edged sword**

Presenting Author: YEE SIN TEY

2:00 PM **TCT 1662: Stuck In a Tight Spot The Entrapment of an Inflated Balloon in the Left Main after VIVTAVR. Saved By IABP and Rescue Left Main Stenting.**

Presenting Author: ABDEL RAHMAN OMER

2:00 PM **TCT 1663: Balloon pump to the rescue For the surgeon and the cardiologist..**

Presenting Author: JONATHAN HINTON

2:00 PM **TCT 1664: IABP support in anterior STEMI with cardiogenic shock bilateral PEs and multifocal pneumonia.**

Presenting Author: Bryce Rhodhouse

2:00 PM **TCT 1665: Complex primary PCI during CPR assisted with IABP in a patient with thrombotic LMCA occlusion and three vessel disease**

Presenting Author: Carlos Enrique Ochoa Castro

2:00 PM **TCT 1666: Every Interventionists nightmare: Intra aortic balloon pump IABP saved the day**

Presenting Author: Siddhartha Mengi

2:00 PM **TCT 1667: Axillary intra aortic balloon counterpulsation for severe ischemic mitral regurgitation and cardiogenic shock**

Presenting Author: Klio Konstantinou

2:00 PM **TCT 1679: Primary PCI supported with Impella LVAD in STEMI due to simultaneous thrombosis of multiple vessels**

Presenting Author: Carlos Enrique Ochoa Castro

2:00 PM **TCT 1680: Cardiogenic shock after acute Coronary Artery Bypass Grafts CABG and native coronaries thrombosis requiring Impella CP via the axillary artery. A life saving approach.**

Presenting Author: Adrian Mercado

2:00 PM **TCT 1682: Coronary obstruction following valve in valve TAVR despite BASILICA: Ready for the debris**

Presenting Author: Faisal Khan

2:00 PM **TCT 1683: RP Impella Post Right Ventricular Infarction**

Presenting Author: ali Farooq

2:00 PM **TCT 1687: The Changing Practice: Percutaneous Axillary Impella assisted bifurcation PCI of unprotected left main coronary artery disease in Acute Myocardial Infarction**

Presenting Author: Heminder Meet Singh

2:00 PM **TCT 1690: Emergent PCI of a Critical Left Main Stenosis in Cardiogenic Shock with Hemodynamic Support using Impella CP**

Presenting Author: Giorgio Medranda

2:00 PM **TCT 1692: PROLONGED wins the race...**

Presenting Author: Rimsha Hasan

2:00 PM **TCT 1696: Impella supported LMS IVL PCI with pacemaker inhibition**

Presenting Author: Claudia Cosgrove

2:00 PM **TCT 1697: Successful Impella Supported Percutaneous Coronary Intervention in a Patient with Non ST Segment Elevation Myocardial Infarction Complicated by Cardiogenic Shock**

Presenting Author: Michael Brener

2:00 PM **TCT 1698: Ventricular fibrillation storm with multiple shocks while patient is awake thanks to Impella overcome by Stellate Ganglion Block**

Presenting Author: Bader Abu Ghalyoun

2:00 PM **TCT 1699: Urgent Impella Guided High Risk PCI**

Presenting Author: mayank yadav

2:00 PM **TCT 1700: Impella CP as a bailout for protected PCI**

Presenting Author: Lowie Van Assche

2:00 PM **TCT 1703: Impella CP and intravascular lithotripsy in a case of high risk left main PCI**

2:00 PM - 3:30 PM

Coronary XXIX

Discussant: Teiji Akagi, Bruce Bowers, Joanna Chikwe, Giovanni Esposito, Anton Farkas, Khalil Fattouch, Jason Foerst, Paul Gurbel, Jan Harnek, Jonathan M. Hill, Vijay Iyer, Katherine Kearney, Nish Patel

- 2:00 PM **TCT 1668: Mechanical Circulatory Support in High Risk Acute Coronary Syndrome Associated with Ventricular Arrhythmia**  
*Presenting Author: Lina Ya'qoub*
- 2:00 PM **TCT 1669: A Case of Intraoperative Myocardial Infarction with Cardiogenic Shock Impella Support and Subsequent Management of Life Threatening Hemorrhage with Abdominal Compartment Syndrome**  
*Presenting Author: Peter Nguyen*
- 2:00 PM **TCT 1670: IMPELLA facilitated IVUS Guided Left Main with Double CTO Revascularisation in NSTEMI with Severe LV Impairment and Severe Ischaemic Mitral Regurgitation**  
*Presenting Author: Kalaivani Mahadevan*
- 2:00 PM **TCT 1671: Impella Support in Transgender Patient Receiving Hormone Replacement Therapy Presenting with STEMI and Cardiogenic Shock.**  
*Presenting Author: Iliana Samara Hurtado Rendon*
- 2:00 PM **TCT 1672: Biventricular Percutaneous Support With Biventricular Impella Support in a Patient With Profound Cardiogenic Shock**  
*Presenting Author: Rudin Gjeka*
- 2:00 PM **TCT 1673: Successful use of impella CP through femoral access in a patient with bilateral iliac and aortic endoprosthesis in the setting of cardiogenic shock**  
*Presenting Author: Luis Dallan*
- 2:00 PM **TCT 1674: Emergent Placement of a Transcaval Impella CP in patient with Cardiac Arrest following an Anterior STEMI**  
*Presenting Author: Charles Cui*
- 2:00 PM **TCT 1675: Cardiogenic Shock CScomplicated by Diffuse Alveolar Hemorrhage DAH: Simultaneous use of an Impella CP and Veno Venous VV Extracorporeal Membrane Oxygenation ECMO in a Case of ST Elevation Myocardial Infarction STEMI requiring tissue Plasminogen Activator tPA**  
*Presenting Author: Peter Avvento*
- 2:00 PM **TCT 1676: Hemodynamic Support or Not: High risk PCI in STEMI and Cardiogenic Shock Presenting with Cardiac Arrest**  
*Presenting Author: Jian Liang Tan*
- 2:00 PM **TCT 1677: Percutaneous Axillary Access for Mechanical Circulatory Support in Complex Higher Risk Indicated Procedures CHIP**  
*Presenting Author: Luai Tabaza*
- 2:00 PM **TCT 1678: HAPPY HAIL MARY. CHIP: Alternative Access in Surgical Turndown**  
*Presenting Author: François Simon*
- 2:00 PM **TCT 1681: Impella supported Left Main PCI in a Patient with RCA CTO**  
*Presenting Author: Michael Megaly*
- 2:00 PM **TCT 1684: Total Bilateral Coronary Artery Occlusion: Impella to the Rescue**

- 2:00 PM **TCT 1685: Bi ventricular support with oxygenator as alternative to VA ECMO in cases refractory cardiopulmonary failure**  
*Presenting Author: Elsayed Abo-Salem*
- 2:00 PM **TCT 1686: Lean on Me: Impella Support in Unprotected Left Main Following Cardiac Arrest**  
*Presenting Author: David Wong*
- 2:00 PM **TCT 1688: Mechanical Assistance with Impella Device for Treatment of Shock in Patients Undergoing TAVR.**  
*Presenting Author: Jay Patel*
- 2:00 PM **TCT 1689: Line em up A comprehensive heart team approach to multiple severe vascular conditions.**  
*Presenting Author: Rohan Mehta*
- 2:00 PM **TCT 1691: How to Patch a Garden Hose**  
*Presenting Author: sabeeda kadavath*
- 2:00 PM **TCT 1693: Multivessel coronary artery disease and severe aortic stenosis with reduced left ventricular function. Impact of mechanical support device in combined high risk structural heart and coronary artery intervention**  
*Presenting Author: Serdar Farhan*
- 2:00 PM **TCT 1694: When Should We Interfer**  
*Presenting Author: Mohammad El Tahlawi*
- 2:00 PM **TCT 1695: Transgender Patientreceiving Cross Sex Hormone Therapy presenting as an Anterior STEMI complicated by Cardiogenic Shock with Successful Acute Unloading of the LV using Impella CP**  
*Presenting Author: Vishal Dahya*
- 2:00 PM **TCT 1701: Holey Shunt Successful Management of Ventricular Septal Rupture Secondary to Late Presentation of AMI with Impella Ventricular Assist Device**  
*Presenting Author: Prateek Sharma*
- 2:00 PM **TCT 1704: Impella Guided High Risk PCI using IVUS and Chromoflo imaging to reduce contrast load**  
*Presenting Author: Chinmaya Mareddy*
- 2:00 PM **TCT 1705: A Successful Case of Impella Supported Multivessel High risk PCI**  
*Presenting Author: Ahmad Abdin*

## THE IMPACT OF DESIGN ON CORONARY GUIDEWIRE PERFORMANCE: A HANDS-ON EXPERIENCE

The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

### The Impact of Design on Coronary Guidewire Performance: A Hands-On Experience

Training Pavilion Faculty: Emmanouil S. Brilakis, Andrea Gagnor, Duane S. Pinto, Robert F. Riley, Jason Wollmuth

8:00 AM **Introduction**  
 8:05 AM **Didactic on Guidewire Building Blocks and WH wires**  
 8:15 AM **Hands on Workhorse Wires Activity**  
 8:30 AM **Polymer Jacketed Wires Overview and Hands on Activity**  
 8:50 AM **Extra SupportSpecialty wires Overview and Hands on Activity**  
 9:10 AM **TurnTrac Wire Overview and Hands on Activity**

12:20 PM **Virtual Reality Interactive OCT Session**  
 12:20 PM **OCT Workstation Measurements Assessments and Procedure Planning**  
 12:20 PM **Image Acquisition With a Wet Model Practice**

## LARGE-BORE ACCESS TO CLOSE: WHAT YOU WANT (AND NEED) TO KNOW

## LARGE-BORE ACCESS TO CLOSE: WHAT YOU WANT (AND NEED) TO KNOW

### Large-Bore Access To Close: What You Want (and Need) To Know

**SATURDAY, SEPTEMBER 28, 2019**

**10:00 AM - 11:30 AM**  
 Training Pavilion, Hall F

**10:00 AM - 10:20 AM**

**Introduction - Access Planning and Management of Complications Review**

*Training Pavilion Faculty: Adhir Shroff, Rajiv Tayal*

**10:20 AM - 11:30 AM**

**Hands-On Device Deployment**

*Training Pavilion Faculty: Adhir Shroff, Rajiv Tayal*

### Large-Bore Access To Close: What You Want (and Need) To Know

**SATURDAY, SEPTEMBER 28, 2019**

**2:00 PM - 3:30 PM**  
 Training Pavilion, Hall F

**2:00 PM - 2:20 PM**

**Introduction - Access Planning and Management of Complications Review**

*Training Pavilion Faculty: Adhir Shroff, Rajiv Tayal*

**2:20 PM - 3:30 PM**

**Hands-On Device Deployment**

*Training Pavilion Faculty: Adhir Shroff, Rajiv Tayal*

## NOW THAT I SEE IT, I KNOW HOW TO TREAT IT! A HANDS-ON OCT SKILLS LAB

## PHYSIOLOGY SIMPLIFIED: A HANDS-ON RFR SKILLS LAB

### Now That I See It, I Know How To Treat It! A Hands-On OCT Skills Lab

**SATURDAY, SEPTEMBER 28, 2019**

**12:00 PM - 1:30 PM**  
 Training Pavilion, Hall F

**12:00 PM - 12:20 PM**

**OCT: Now That I See It - Presentation**

*Training Pavilion Faculty: Hiram G. Bezerra, Michael Chan, Bassem Chehab, Kevin J. Croce, Jonathan M. Hill, Aziz Maksoud, Emile Mehanna, Bimal Padaliya, Richard Shlofmitz, Gabriel Tensol, Armando Vergara-Martel, Nick E. J. West*

**12:20 PM - 1:30 PM**

**Hands-On Sessions**

*Training Pavilion Faculty: Ziad A. Ali, Hiram G. Bezerra, Michael Chan, Bassem Chehab, Kevin J. Croce, Jonathan M. Hill, Aziz Maksoud, Emile Mehanna, Bimal Padaliya, Richard Shlofmitz, Gabriel Tensol, Armando Vergara-Martel, Nick E. J. West*

### Physiology Simplified: A Hands-On RFR Skills Lab

**SATURDAY, SEPTEMBER 28, 2019**

**4:00 PM - 5:30 PM**  
 Training Pavilion, Hall F

**4:00 PM - 4:15 PM**

**Didactic Session**

*Training Pavilion Faculty: Kevin J. Croce, Vamsi Krishna, Bruce Samuels, R. Jay Widmer*

**4:15 PM - 5:30 PM**

**Hands-On Activity Guided by Five Case Scenarios: Utilizing a Wet Model to Perform RFR and FFR**

*Training Pavilion Faculty: Kevin J. Croce, Vamsi Krishna, Bruce Samuels, R. Jay Widmer*

## OPTIMIZING PCI: WHEN TO USE WHAT IN CORONARY PHYSIOLOGY AND IMAGING: CASE REVIEW AND HANDS-ON

### Optimizing PCI: When to Use What in Coronary Physiology and Imaging: Case Review and Hands-On

**SATURDAY, SEPTEMBER 28, 2019**

**8:00 AM - 9:30 AM**  
 Training Pavilion, Hall F

8:00 AM - 9:30 AM

**Optimizing PCI: When to Use What in Coronary Physiology and Imaging: Case Review and Hands-On**

*Training Pavilion Faculty: Allen Jeremias, Arnold Seto*

8:00 AM **Introduction**

8:05 AM **When to Use What to Optimize PCI**

8:35 AM **Hands On Rotations**

## COMPLEX LESION ALGORITHMIC APPROACH: PROVEN DEVICES AND NEW APPLICATIONS

### Complex Lesion Algorithmic Approach: Proven Devices and New Applications

SATURDAY, SEPTEMBER 28, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

**Complex Lesion Algorithmic Approach: Proven Devices and New Applications**

*Training Pavilion Faculty: Perwaiz M. Meraj, Srini Potluri, Anthony J. Spaedy*

10:00 AM **Introduction**

10:05 AM **Complex Lesion Algorithmic Approach: Proven Devices New Applications**

10:35 AM **Hands On Rotations**

## TAVR: AN INTERACTIVE EXPERIENCE WITH SENTINEL CPS

### TAVR: An Interactive Experience With Sentinel CPS

SATURDAY, SEPTEMBER 28, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 1:30 PM

**TAVR: An Interactive Experience With Sentinel CPS**

*Training Pavilion Faculty: Hemal Gada, Tamim M. Nazif*

12:00 PM **Introduction**

12:05 PM **ProductData Overview and Case Reviews**

12:35 PM **Hands On Rotations**

## MANAGING THE PATIENT AT HIGH RISK OF BLEEDING: ONYX ONE; AN EVIDENCE BASED APPROACH

### Managing the Patient at High Risk of Bleeding: Onyx One; an Evidence Based Approach

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

**Managing the Patient at High Risk of Bleeding: Onyx One; an Evidence Based Approach**

*Training Pavilion Faculty: Roxana Mehran, Matthew J. Price, Daniel I. Simon, Stephan Windecker*

## OPTIMIZING OUTCOMES IN PATIENTS WITH BIFURCATION LESIONS

### Optimizing Outcomes in Patients with Bifurcation Lesions

SATURDAY, SEPTEMBER 28, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

**Optimizing Outcomes in Patients with Bifurcation Lesions**

*Training Pavilion Faculty: Francesco Burzotta, Jens Flensted Lassen, Goran Stankovic*

## LIFETIME MANAGEMENT OF THE LOW RISK TAVR PATIENT

### Lifetime Management of the Low Risk TAVR Patient

SATURDAY, SEPTEMBER 28, 2019

12:00 PM - 1:30 PM

Training Pavilion, Hall F

12:00 PM - 1:30 PM

**Lifetime Management of the Low Risk TAVR Patient**

*Training Pavilion Faculty: Tsuyoshi Kaneko*

12:00 PM **Introduction**

12:05 PM **Low Risk Data Review**

12:15 PM **Low Risk Patient Selection and Treatment Pathway Considerations and Shared Decision Making**

## HOW THINGS WORK - THE SCIENCE OF RDN

### How Things Work - The Science of RDN

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

#### How Things Work - The Science of RDN

Training Pavilion Faculty: Alope Finn, Philipp Lurz, John W. Osborn, Konstantinos P. Tsioufis

2:00 PM **Session Objectives**

2:05 PM **Preclinical Evidence About Renal Denervations Mechanism of Action**

2:25 PM **Renal Denervation Response and Affecting Factors What About Isolated Systolic Hypertension**

2:45 PM **Mechanisms of Radio Frequency Ablation and the Truth About the Ablation Depth**

3:05 PM **Radio Frequency Ablation for Renal Denervation**

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

#### Day 3 Workshop 1

### Treatment of Cardiogenic Shock

SATURDAY, SEPTEMBER 28, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

#### Day 3 Workshop 2

### Treatment of Cardiogenic Shock

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

#### Day 3 Workshop 4

### Treatment of Cardiogenic Shock

SATURDAY, SEPTEMBER 28, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

#### Day 3 Workshop 5

## COMPLEX LESION MANAGEMENT IN SFA INTERVENTION

### Complex Lesion Management in SFA Intervention

## TIPS, TOOLS, AND TECHNIQUES FOR SUCCESSFUL POST-TAVR PCI

### Tips, Tools, and Techniques for Successful Post-TAVR PCI

SATURDAY, SEPTEMBER 28, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

#### Tips, Tools, and Techniques for Successful Post-TAVR PCI

Training Pavilion Faculty: Stanley J. Chetcuti, Poonam Velagapudi

4:00 PM **Introduction to Post TAVR PCI**

4:15 PM **Cases with Common Access Challenges**

4:35 PM **Simulation Demo**

4:45 PM **Hand On Simulation**

## TREATMENT OF CARDIOGENIC SHOCK

### Treatment of Cardiogenic Shock



SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 9:30 AM

**SFA Intervention: De-Bulking, Complex Lesions, and Definitive Therapy Session I**

Training Pavilion Faculty: George L. Adams, S. Hinan Ahmed, Danielle Bajakian, George S. Chrysant, Mahir Elder, Peter Farrugia, Bryan T. Fisher, Beau Hawkins, Vishal Kapur, S. Jay Mathews, Carlos I. Mena-Hurtado, Peter P. Monteleone, Sahil A. Parikh, Peter A. Soukas, Craig M. Walker

8:00 AM **Session I: Introduction**

8:00 AM **Introduction: Introducing Unmet Needs Complex Lesions Definitive Treatment Options and Debulking**  
Lecturer: Sahil A. Parikh

8:10 AM **Session II: Rotations Four 20 Minute Rotations**

8:10 AM **Rotation: Definitive Treatment Options Featuring Abbott**  
Training Pavilion Faculty: Danielle Bajakian, Peter Farrugia, Craig M. Walker

8:10 AM **Rotation: Definitive Treatment Options and Debulking Featuring BSC**  
Training Pavilion Faculty: George L. Adams, George S. Chrysant, Beau Hawkins, S. Jay Mathews

8:10 AM **Rotation: Definitive Treatment Options Debulking and Complex Lesions Featuring Medtronic**  
Training Pavilion Faculty: S. Hinan Ahmed, Bryan T. Fisher, Peter P. Monteleone

**Complex Lesion Management in SFA Intervention**

SATURDAY, SEPTEMBER 28, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 11:30 AM

**SFA Intervention: De-Bulking, Complex Lesions, and Definitive Therapy Session II**

Training Pavilion Faculty: S. Hinan Ahmed, Ehrin J. Armstrong, Danielle Bajakian, Mahir Elder, Peter Farrugia, Bryan T. Fisher, Beau Hawkins, Vishal Kapur, S. Jay Mathews, Peter P. Monteleone

10:00 AM **Session I: Introduction**

10:00 AM **Introduction: Introducing Unmet Needs Complex Lesions Definitive Treatment Options and Debulking**  
Lecturer: Ehrin J. Armstrong

10:10 AM **Session II: Rotations**

10:10 AM **Rotation: Definitive Treatment Options Featuring Abbott Four 20 Minute Rotations**  
Training Pavilion Faculty: Danielle Bajakian, Peter Farrugia, Vishal Kapur, Mariano Palena

10:10 AM **Rotation: Definitive Treatment Options and Debulking Featuring BSC Four 20 Minute Rotations**

Training Pavilion Faculty: Mahir Elder, Robert A. Lookstein

10:10 AM **Rotation: Definitive Treatment Options Debulking and Complex Lesions Featuring Medtronic Four 20 Minute Rotations**

Training Pavilion Faculty: Bryan T. Fisher, Lawrence A. Garcia, John Winscott

**TIPS AND TRICKS FOR CHIP/COMPLEX PCI**

**Tips and Tricks for CHIP/Complex PCI**

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 3:30 PM

**Tips and Tricks for CHIP/Complex PCI Session I**

Training Pavilion Faculty: Mark Bieniarz, Ronald Caputo, Jon George, Annapoorna Kini, Kintur A. Sanghvi, Jason Wollmuth

2:00 PM **Rapid Fire Case Presentations**

2:00 PM **My Top 10 Tips and Tricks for Treating Bifurcation Lesions**  
Case Presenter: Annapoorna Kini

2:12 PM **Roundtable Discussion With Audience QA**  
Case Presenter: Annapoorna Kini

2:15 PM **My Top 10 Tips and Tricks for Crossing and Device Delivery**  
Case Presenter: Jon George

2:27 PM **Roundtable Discussion With Audience QA**  
Case Presenter: Jon George

2:30 PM **Novel Forms of Access With Hemodynamic Support**  
Case Presenter: Jason Wollmuth

2:42 PM **Roundtable Discussion With Audience QA**  
Case Presenter: Jason Wollmuth

2:45 PM **Hands On Rotations Between Medtronic Abiomed and TBD**

2:45 PM **Rotation: Medtronic Inc. Featured Devices: Telescope Radial Guides Bifurcation Videos Three 12 Minute Presentations Followed by 3 Minute Discussion**

Training Pavilion Faculty: Mark Bieniarz, Ronald Caputo, rajneesh kapoor, balbir singh

2:45 PM **Rotation: Abiomed Featured Devices and Access Three 12 Minute Presentations Followed by 3 Minute Discussion**  
Training Pavilion Faculty: Dimitrios Bliagos, Jason Wollmuth

**Tips and Tricks for CHIP/Complex PCI**

SATURDAY, SEPTEMBER 28, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 5:30 PM

**Tips and Tricks for CHIP/Complex PCI Session II**

Training Pavilion Faculty: Dimitrios Bliagos, Miroslaw Ferenc, Duane S. Pinto, Anuradha Tunuguntla, Junjie Zhang

**4:00 PM Rapid Fire Case Presentations**

4:00 PM **My Top 10 Tips and Tricks for Treating Bifurcation Lesions**

Case Presenter: Miroslaw Ferenc

4:12 PM **Roundtable Discussion With Audience QA**

Case Presenter: Miroslaw Ferenc

4:15 PM **My Top 10 Tips and Tricks for Crossing and Device Delivery**

Case Presenter: Dimitrios Bliagos

4:27 PM **Roundtable Discussion With Audience QA**

Case Presenter: Dimitrios Bliagos

4:30 PM **Novel Forms of Access With Hemodynamic Support**

Case Presenter: Duane S. Pinto

4:42 PM **Roundtable Discussion With Audience QA**

Case Presenter: Duane S. Pinto

**4:45 PM Hands On Rotations Between Medtronic Abiomed and TBD**

4:45 PM **Rotation: Medtronic Inc. Featured Devices: Telescope Radial Guides Bifurcation Videos Three 12 Minute Presentations Followed by 3 Minute Discussion**

Training Pavilion Faculty: Dimitrios Bliagos, Miroslaw Ferenc, Saidur Rahman Khan, Anu Tunuguntla, Rajesh Vijayvergiya

4:45 PM **Rotation: Abiomed Featured Devices and Access**

Training Pavilion Faculty: Duane S. Pinto, Anu Tunuguntla

8:35 AM - 8:50 AM

**Practice-based Lecture: IVUS-Guided CTO PCI - How and Why?**

Training Pavilion Faculty: Chunjian Li

8:50 AM - 9:30 AM

**Meet the Experts / Demonstration with Step-by-Step Hands-On Training on Models**

8:50 AM **CTO Antegrade Approach Operation Table Terumo**

Training Pavilion Faculty: Pengcheng He, DA YIN

8:50 AM **Crossboss Stingray Training Table Boston Scientific**

Training Pavilion Faculty: YU CAO, Bin Nie

## CTO MASTERS OPERATOR WORKSHOP @ TCT 2019 (PART 2)

### CTO Masters Operator Workshop @ TCT 2019 (PART 2)

SATURDAY, SEPTEMBER 28, 2019

10:00 AM - 11:30 AM

Training Pavilion, Hall F

10:00 AM - 10:15 AM

**Practice-based Lecture: Retrograde Approach for CTO - How and Why?**

Training Pavilion Faculty: ma jianying

10:15 AM - 10:30 AM

**Practice-based Lecture: Reverse CART and Active Greeting Technique - How and Why?**

Training Pavilion Faculty: Tao Hu

10:30 AM - 10:45 AM

**Practice-based Lecture: Management of CTO PCI Complications - How and Why?**

Training Pavilion Faculty: Yuchen Zhang

10:45 AM - 11:30 AM

**Meet the Experts / Demonstration with Step-by-Step Hands-On Training on Models**

10:45 AM **CTO Operation: Retro Tracking Crossing Reverse CART Terumo**

Training Pavilion Faculty: Jun Pu, Jie Song

10:45 AM **CTO Operation Table2: AGT Home made Snare for Retrograde Guidewire Terumo**

Training Pavilion Faculty: ma jianying, Weiming Li

## CTO MASTERS OPERATOR WORKSHOP @ TCT 2019 (PART 1)

### CTO Masters Operator Workshop @ TCT 2019 (PART 1)

SATURDAY, SEPTEMBER 28, 2019

8:00 AM - 9:30 AM

Training Pavilion, Hall F

8:00 AM - 8:05 AM

**Introduction & Opening Speech**

Training Pavilion Faculty: Junbo Ge

8:05 AM - 8:20 AM

**Practice-based Lecture: Antegrade Approach for CTO - How and Why?**

Training Pavilion Faculty: Jie Zhao

8:20 AM - 8:35 AM

**Practice-based Lecture: ADR for CTO - How and Why?**

## CINCHING THE MITRAL APPARATUS TO TREAT FMR: CARILLON MITRAL CONTOUR SYSTEM HANDS-ON TRAINING

### Cinching the Mitral Apparatus to Treat FMR: Carillon Mitral Contour System Hands-On Training

SATURDAY, SEPTEMBER 28, 2019

2:00 PM - 3:30 PM

Training Pavilion, Hall F

2:00 PM - 2:05 PM

**Introduction**

Training Pavilion Faculty: Steven Goldberg, Martin B. Leon, Klaus Witte

2:05 PM - 2:10 PM

**Cardiac Dimensions' Mission**

Training Pavilion Faculty: Steven Goldberg, Martin B. Leon, Klaus Witte

2:10 PM - 2:15 PM

**The Carillon Trial - IDE Study Currently Enrolling Sites & Patients**

Training Pavilion Faculty: Steven Goldberg, Martin B. Leon, Klaus Witte

2:15 PM - 2:25 PM

**The Carillon Mitral Contour System**

Training Pavilion Faculty: Steven Goldberg, Martin B. Leon, Klaus Witte

2:25 PM - 3:25 PM

**Breakout Sessions**

Training Pavilion Faculty: Steven Goldberg, Martin B. Leon, Klaus Witte

2:25 PM **Station 1 Dry Model Deployment on the Carillon Mitral Contour System**

2:25 PM **Station 2 Animal Model Deployment of the Carillon Mitral Contour System**

2:25 PM **Station 3 Wet Model Deployments of the Carillon Mitral Contour System Showing Improvements in Hemodynamics and Cinching of the Mitral Apparatus**

3:25 PM - 3:30 PM

**Close and Adjourn**

Training Pavilion Faculty: Steven Goldberg, Martin B. Leon, Klaus Witte

**Cinching the Mitral Apparatus to Treat FMR: Carillon Mitral Contour System Hands-On Training**

SATURDAY, SEPTEMBER 28, 2019

4:00 PM - 5:30 PM

Training Pavilion, Hall F

4:00 PM - 4:05 PM

**Introduction**

Training Pavilion Faculty: Steven Goldberg, Klaus Witte

4:05 PM - 4:10 PM

**Cardiac Dimensions' Mission**

Training Pavilion Faculty: Steven Goldberg, Klaus Witte

4:10 PM - 4:15 PM

**The Carillon Trial - IDE Study Currently Enrolling Sites & Patients**

4:15 PM - 4:25 PM

**The Carillon Mitral Contour System**

Training Pavilion Faculty: Steven Goldberg, Klaus Witte

4:25 PM - 5:25 PM

**Breakout Sessions**

Training Pavilion Faculty: Steven Goldberg, Klaus Witte

4:25 PM **Station 1 Dry Model Deployment on the Carillon Mitral Contour System**

4:25 PM **Station 2 Animal Model Deployment of the Carillon Mitral Contour System**

4:25 PM **Station 3 Wet Model Deployments of the Carillon Mitral Contour System Showing Improvements in Hemodynamics and Cinching of the Mitral Apparatus**

5:25 PM - 5:30 PM

**Close and Adjourn**

Training Pavilion Faculty: Steven Goldberg, Klaus Witte

**BIORESORBABLE SCAFFOLDS - 4**

**Bioresorbable Scaffolds - 4**

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

9:30 AM - 10:30 AM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

**Bioresorbable Scaffolds - 4**

Moderators: Jean-François Tanguay, Robert-Jan Van Geuns  
Discussants: Stefan Verheye, Nick E. J. West

9:30 AM **TCT 182: Peri strut low intensity areas and neointimal response evaluation by serial optical coherence tomography at baseline 1 2 and 5 years after bioresorbable scaffold implantation in STEMI**  
Presenting Author: Dorota Ochijewicz

9:37 AM **Discussion**  
9:40 AM **TCT 183: The Impact of Atherosclerotic Plaque Type on Strut Penetration and Local Hemodynamics in Bioresorbable Scaffolds**  
Presenting Author: ERHAN TENEKECIOGLU

9:47 AM **Discussion**  
9:50 AM **TCT 184: Early Scaffold Disruption and Late Structural Discontinuity after Implantation of the Aptitude Sirolimus Eluting Bioresorbable Scaffold in Normal Porcine Coronary Arteries: An OCT Study**  
Presenting Author: Yanping Cheng

9:57 AM **Discussion**  
10:00 AM **TCT 185: ABSORB CTO study. Long term follow up and vasomotor and OCT findings.**

Presenting Author: LIVIA LUCIANA GHEORGHE

- 10:07 AM Discussion
- 10:10 AM **TCT 186: Preclinical Evaluation of a Novel Thin strut PLLA Bioresorbable Scaffold in Porcine Coronary Artery at 6 month Follow up**  
*Presenting Author: Kuniaki Takahashi*
- 10:17 AM Discussion
- 10:20 AM **TCT 187: Reduction of Strut Thickness Improves Early up to 180 Days Arterial Response To The Ultra High Molecular Weight Amorphous PLLA Sirolimus Eluting Bioresorbable Scaffolds in Normal Porcine Coronary Arteries**  
*Presenting Author: Pawel P. Gasior*
- 10:27 AM Discussion

Presenting Author: Lorenzo Azzalini

- 10:17 AM Discussion
- 10:20 AM **TCT 299: The Impact of Left Ventricular Ejection Fraction on Long term Outcomes in Patients Undergoing PCI: Analysis from a large pooled randomized trial dataset**  
*Presenting Author: mingyou zhang*
- 10:27 AM Discussion

## DRUG-ELUTING STENT STUDIES - 4

### Drug-Eluting Stent Studies - 4

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

9:30 AM - 10:30 AM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

#### Drug-Eluting Stent Studies - 4

*Moderators: Michael Maeng*  
*Discussants: Thomas C. McAndrew, Gert Richardt, Philip M. Urban*

- 9:30 AM **TCT 294: Clinical Outcomes in Women and Minorities According to the Urgency of Percutaneous Coronary Intervention**  
*Presenting Author: Davide Cao*
- 9:37 AM Discussion
- 9:40 AM **TCT 295: Prognosis of percutaneous coronary intervention with very long stents implantation in real clinical practice.**  
*Presenting Author: IGNACIO SANCHEZ PEREZ*
- 9:47 AM Discussion
- 9:50 AM **TCT 296: Comparison between the use of very long stents and overlapping stents for the treatment of diffuse coronary artery disease. A real life registry**  
*Presenting Author: IGNACIO SANCHEZ PEREZ*
- 9:57 AM Discussion
- 10:00 AM **TCT 297: Performing percutaneous coronary interventions with pre dilatation using non compliant balloons at high pressure versus conventional pre dilatation with semi compliant balloons Insights from two randomized studies using optical coherence tomography**  
*Presenting Author: Matthias Bossard*
- 10:07 AM Discussion
- 10:10 AM **TCT 298: Outcomes of Patients Undergoing Complex Percutaneous Coronary Intervention**

## HEMODYNAMIC SUPPORT DURING PCI

### Hemodynamic Support During PCI

Coronary: CHIP

SATURDAY, SEPTEMBER 28, 2019

9:30 AM - 10:20 AM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:20 AM

#### Hemodynamic Support During PCI

*Moderators: Khaldoon F. Alaswad, Thomas D. Stuckey*  
*Discussants: Mir Babar Basir, John McB. Hodgson, Michael A. Kutcher, Rajeev Narayan*

- 9:30 AM **TCT 318: Hemodynamics of High Risk Percutaneous Coronary Intervention With and Without Mechanical Circulatory Support: A Pilot Study With Pressure Volume Loop Analysis**  
*Presenting Author: Michael Brener*
- 9:37 AM Discussion
- 9:40 AM **TCT 319: Impact of Percutaneous Ventricular Assist Device Utilization Volume During Percutaneous Coronary Intervention in Non Cardiogenic Shock Patients on 30 Day Readmission Rate: A Nationwide Cohort Study**  
*Presenting Author: Yasser Al-khadra*
- 9:47 AM Discussion
- 9:50 AM **TCT 320: Prophylactic Venous Arterial Extra Corporeal Membrane Oxygenation in Patients Undergoing High Risk Percutaneous Coronary Interventions**  
*Presenting Author: Floris van den Brink*
- 9:57 AM Discussion
- 10:00 AM **TCT 321: Head to head comparison of a pulsatile and a continuous flow left ventricular assist device in high risk PCI setting iVAC2L vs. Impella 2.5**  
*Presenting Author: Alexander Samol*
- 10:07 AM Discussion
- 10:10 AM **TCT 322: Outcome in patients undergoing high risk PCI using Impella circulatory support: 10 year experience**  
*Presenting Author: Vincenzo Vetrugno*
- 10:17 AM Discussion

## INTRAVASCULAR IMAGING - 4

### Intravascular Imaging - 4

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

9:30 AM - 10:30 AM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

### Intravascular Imaging - 4

Moderators: Javaid Iqbal Discussants: Haibo Jia, Vincent On-Hing Kwok

9:30 AM **TCT 358: Clinical impact of intravascular ultrasound guidance in stenting for angiographically moderate to severe calcified coronary lesion**

Presenting Author: Han-bit Park

9:37 AM **Discussion**

9:40 AM **TCT 359: Intravascular Coronary Plaque Characterization Using Hybrid Intravascular Ultrasound and Optical Coherence Tomography: a Preliminary Study Based on User Interpretation Compared to Histology Reference**

Presenting Author: Brian Li

9:47 AM **Discussion**

9:50 AM **TCT 360: Infrapopliteal Arterial Dissections Following Balloon Angioplasty and Orbital Atherectomy Using Intravascular Ultrasound**

Presenting Author: W John Shammass

9:57 AM **Discussion**

10:00 AM **TCT 361: Optical Coherence Tomography in Routine Clinical Practice**

Presenting Author: Jonas Haener

10:07 AM **Discussion**

10:10 AM **TCT 362: Comparison of Outcomes in Patients undergoing Percutaneous Coronary Intervention Using Intravascular Ultrasound or Intravascular optical coherence tomography**

Presenting Author: Fahed Darmoch

10:17 AM **Discussion**

10:20 AM **TCT 363: In hospital Outcomes of Intracoronary Imaging guided Versus Angiographic guided Percutaneous Coronary Intervention**

Presenting Author: Fahed Darmoch

10:27 AM **Discussion**

9:30 AM - 10:30 AM

### Novel Aortic Devices and Approaches

Moderators: Stefan Anker, Martin W. Bergmann Discussants: Saif Anwaruddin, Gary Gershony, Robert J. Lederman

9:30 AM **TCT 477: Balloon aortic valvuloplasty: a pilot experience of same day discharge with a transradial approach**

Presenting Author: marco balducelli

9:37 AM **Discussion**

9:40 AM **TCT 478: Results of the Italian Multicenter Register of the Safety and Feasibility of Transradial Mini Invasive Balloon Aortic Valvuloplasty Softly II**

Presenting Author: Carlo Tumscitz

9:47 AM **Discussion**

9:50 AM **TCT 479: Transfemoral aortic valve implantation using self expanding New Valve Technology NVT Allegra bioprosthesis: short and long term results**

Presenting Author: Dariusz Jagielak

9:57 AM **Discussion**

10:00 AM **TCT 480: Specific intraprocedural adverse events with new generation self expandable TAVR devices: Is it all a matter of device size**

Presenting Author: Verena Veulemans

10:07 AM **Discussion**

10:10 AM **TCT 481: Transcatheter Transapical Aortic Valve Resection: New Devices**

Presenting Author: Georg Lutter

10:17 AM **Discussion**

10:20 AM **TCT 482: Temporal evaluation of a biological response and functionality of a novel balloon expandable transcatheter aortic valve system MyVal in a model of aortic banding**

Presenting Author: Piotr P. Buszman

10:27 AM **Discussion**

## PRE-CLINICAL MODELS AND STUDIES

### Pre-Clinical Models and Studies

SATURDAY, SEPTEMBER 28, 2019

9:30 AM - 10:30 AM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:30 AM

### Pre-Clinical Models and Studies

Moderators: Paolo Denti, Aaron V. Kaplan Discussants: Armando Perez de Prado, Gary L. Schaefer, Robert S. Schwartz

9:30 AM **TCT 593: Left Ventricular Unloading Preserves Energy Substrate Utilization in Preclinical Models of Acute Myocardial Infarction**

## NOVEL AORTIC DEVICES AND APPROACHES

### Novel Aortic Devices and Approaches

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

9:30 AM - 10:30 AM

Moderated Posters 5, Exhibit Hall, Exhibition Level, Moscone South

Presenting Author: Lija Swain

- 9:37 AM Discussion
- 9:40 AM **TCT 594: Blunting the Double Edged Sword of Reperfusion: Left Ventricular Unloading Protects the Functional Integrity of Mitochondrial Complex I in Preclinical Models of Ischemia With and Without Reperfusion**  
Presenting Author: Lija Swain
- 9:47 AM Discussion
- 9:50 AM **TCT 595: Left Ventricular Cardiac Reshaping With Trans myocardial Splints Does not Impair Diastolic Function in Preclinical Studies**  
Presenting Author: Daisuke Onohara
- 9:57 AM Discussion
- 10:00 AM **TCT 596: Reducing Left Ventricular Sphericity With a Trans ventricular Myocardial Splint Improves Systolic Function in a Preclinical Ischemic Cardiomyopathy Model**  
Presenting Author: Daisuke Onohara
- 10:07 AM Discussion
- 10:10 AM **TCT 597: A Novel Superior Vena Caval Occlusion Catheter System Reduces Biventricular Filling Pressures While Maintaining Cardiac Output in a Model of Acute Congestive Heart Failure**  
Presenting Author: Navin K. Kapur
- 10:17 AM Discussion
- 10:20 AM **TCT 598: Tissue Plasminogen Activator tPA labeled Microbubbles for the Treatment of Coronary Microvascular Obstruction**  
Presenting Author: Stephen D'Auria
- 10:27 AM Discussion

- 9:50 AM **TCT 606: Adventitial Guanethidine MMS 008 in Comparison to Ethanol and a Prior Formulation of Guanethidine MMS 007 for Renal Denervation: Preclinical Norepinephrine and Histopathology Results**  
Presenting Author: Kirk P. Seward
- 9:57 AM Discussion
- 10:00 AM **TCT 607: Optimizing Safety and Efficacy of Lesion Formation for Percutaneous Renal Denervation: Human and Porcine Histological Analysis**  
Presenting Author: Andrew Sharp
- 10:07 AM Discussion
- 10:10 AM **TCT 608: Implementation of Bayesian Study Design in the SPYRAL HTN OFF MED Pivotal Trial**  
Presenting Author: Michael Böhm
- 10:17 AM Discussion

## VULNERABLE PLAQUES AND HIGH-RISK PATIENTS - 2

### Vulnerable Plaques and High-Risk Patients - 2

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

9:30 AM - 10:30 AM  
The Moscone Center

9:30 AM - 10:30 AM

### Vulnerable Plaques and High-Risk Patients - 2

Moderators: Robert L. Wilensky  
Discussants: Imad Sheiban, Lei Song, Pim A.L. Tonino, Konstantinos Toutouzas

- 9:30 AM **TCT 833: Inflammatory Risk Status Is Age Dependent in Women but Not in Men Undergoing Percutaneous Coronary Intervention**  
Presenting Author: Rishi Chandiramani
- 9:37 AM Discussion
- 9:40 AM **TCT 834: Coronary Plaque Vulnerability in Statin Treated Patients with Elevated LDL C and hs CRP: Optical Coherence Tomography Study**  
Presenting Author: Surbhi Chamaria
- 9:47 AM Discussion
- 9:50 AM **TCT 835: Impact of Early Intervention with Alogliptin on Coronary Plaque Regression in Patients with Acute Coronary Syndromes: A Prospective Single Center Randomized Trial**  
Presenting Author: Shinnosuke Kikuchi
- 9:57 AM Discussion
- 10:00 AM **TCT 836: The ratio serum creatinine/serum cystatin C as a predictor of ischemic risk in elderly patients with coronary artery disease.**  
Presenting Author: Hak Seung Lee
- 10:07 AM Discussion

## RENAL DENERVATION

### Renal Denervation

Vascular

SATURDAY, SEPTEMBER 28, 2019

9:30 AM - 10:20 AM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

9:30 AM - 10:20 AM

### Renal Denervation

Moderators: Dmitriy N. Feldman  
Discussants: Tim A. Fischell, Richard R. Heuser, Farrell O. Mendelsohn, Konstantinos P. Tsioufis

- 9:30 AM **TCT 604: Results of 6 months follow up after renal denervation for patients with resistant hypertension.**  
Presenting Author: Daria Chigidinova
- 9:37 AM Discussion
- 9:40 AM **TCT 605: Sympathetic renal denervation in patients with refractory arterial hypertension: two year follow up**  
Presenting Author: Daniil Maximkin
- 9:47 AM Discussion



10:10 AM **TCT 837: Diagnosed Obstructive Sleep Apnea Is Associated With Improved In hospital Mortality In Patients With Non ST Elevation Myocardial Infarction**  
*Presenting Author: Sakiru Isa*

10:17 AM **Discussion**

10:20 AM **TCT 838: Prognostic Value of High Sensitivity C Reactive Protein in Percutaneous Coronary Intervention According to Body Mass Index**  
*Presenting Author: Niklas Beyhoff*

10:27 AM **Discussion**

11:20 AM **TCT 258: Outcomes of Residual Trivial and Mild Aortic Regurgitation After Transcatheter Aortic Valve Replacement**  
*Presenting Author: Johnny Chahine*

11:27 AM **Discussion**

## DETECTION AND CLOSURE OF PARAVALVULAR LEAKS

### Detection and Closure of Paravalvular Leaks

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

10:30 AM - 11:30 AM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Detection and Closure of Paravalvular Leaks

*Moderators: Jose Luis Navia, Carlos E. Ruiz*  
*Discussants: Anna Sonia Petronio, Andres Pineda*

10:30 AM **TCT 253: Transcatheter Device Closure of Paravalvular Leaks a Single Centre Experience**  
*Presenting Author: Raghuram Palaparti*

10:37 AM **Discussion**

10:40 AM **TCT 254: Impact of the aortic annulus maximal diameter on oversizing the self expandable valve Medtronic and on the reduction of post transcatheter aortic valve implantation paravalvular leak**  
*Presenting Author: Sahbi Fradi*

10:47 AM **Discussion**

10:50 AM **TCT 255: Impact of the Aortic Annulus Maximal Diameter on Oversizing the Self Expandable Valve Medtronic and on the Reduction of Post Transcatheter Aortic Valve Implantation Paravalvular Leak**  
*Presenting Author: Bechara EL JOURDI*

10:57 AM **Discussion**

11:00 AM **TCT 256: Minimally Invasive Transradial Approach for Percutaneous Closure of Aortic Paravalvular Leaks: a single center experience**  
*Presenting Author: Luis Ortega-Paz*

11:07 AM **Discussion**

11:10 AM **TCT 257: Effect of Post Dilatation Irrespective of the Degree of Residual Paravalvular Leakage Following Balloon Expandable Transcatheter Aortic Valve Replacement**  
*Presenting Author: TOMOHIRO KAWAGUCHI*

11:17 AM **Discussion**

## DRUG-ELUTING STENT STUDIES - BIODEGRADABLE POLYMERS

### Drug-Eluting Stent Studies - Biodegradable Polymers

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

10:30 AM - 11:30 AM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Drug-Eluting Stent Studies - Biodegradable Polymers

*Moderators: Arif Al Nooryani*  
*Discussants: Olivier F. Bertrand, Stephen G. Ellis, Stephen P. Hoole, Detlef G. Mathey*

10:30 AM **TCT 300: One year Clinical Outcomes After Percutaneous Coronary Intervention With Biodegradable Polymer Ultra thin Strut Everolimus Eluting Coronary Stent System**  
*Presenting Author: Ashok Thakkar*

10:37 AM **Discussion**

10:40 AM **TCT 301: Evaluating the Long term Prognosis of Coronary Artery Disease Patients with Biodegradable Polymer Drug eluting Stents Implantation after Risk Stratification with SYNTAX Revascularization Index: Results From a Secondary Analysis of the I LOVE IT 2 Trial**  
*Presenting Author: Liya Bian*

10:47 AM **Discussion**

10:50 AM **TCT 302: Safety and Clinical Performance of Biodegradable Polymer coated Ultra thin Strut Sirolimus eluting Stents: Two year Outcomes From Real World Patient Population From the T Flex Registry**  
*Presenting Author: POTHINENI RAMESH BABU*

10:57 AM **Discussion**

11:00 AM **TCT 303: Efficacy and Safety of the Biodegradable polymer sirolimus eluting stents in Routine Clinical Practice: Data from the IRIS DES Registry**  
*Presenting Author: KyungJin Choe*

11:07 AM **Discussion**

11:10 AM **TCT 304: One year Clinical Outcomes in Patients Implanted With Biodegradable Polymer Coated Ultra thin Strut Sirolimus Eluting Coronary Stent System for the Treatment of Very Long 40 mm Lesions**  
*Presenting Author: Vishal Batra*

11:17 AM **Discussion**

11:20 AM **TCT 305: Real World Experience of Biodegradable Polymer Drug Eluting Stents Versus Second Generation Durable Polymer Drug Eluting Stents in Patients With ST Segment Elevation Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention**

## MANAGEMENT OF ANTIPLATELET THERAPY AND ANTICOAGULATION IN PATIENTS UNDERGOING PCI - 4

### Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 4

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

10:30 AM - 11:30 AM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Management of Antiplatelet Therapy and Anticoagulation in Patients Undergoing PCI - 4

Moderators: Eli I. Lev, Ahmed Magdy  
Discussants: Simon R. Dixon, Zuzana Motovska, Keith G. Oldroyd, Thomas D. Stuckey

10:30 AM **TCT 412: Comparative Safety and Efficacy of Second Generation P2Y12 inhibitors versus Clopidogrel in Combination with Oral Anticoagulation in Atrial Fibrillation Patients Undergoing Percutaneous Coronary Intervention: A Systematic Review and Meta Analysis**  
Presenting Author: Shaun Giancaterino

10:37 AM Discussion

10:40 AM **TCT 413: Different Safety Pattern of Ticagrelor Monotherapy Following Percutaneous Coronary Interventions Related to Pulse Pressure Levels: A Sub analysis of the GLOBAL LEADERS Randomized Multicenter Trial**  
Presenting Author: Rodrigo Modolo

10:47 AM Discussion

10:50 AM **TCT 414: Anticoagulation Regimens in Patients with Atrial Fibrillation undergoing Percutaneous Coronary Intervention Network Meta analysis.**  
Presenting Author: Alexander Ivanov

10:57 AM Discussion

11:00 AM **TCT 415: Platelet reactivity inhibition following ticagrelor loading dose in patients undergoing percutaneous coronary intervention for acute coronary syndrome**  
Presenting Author: Vassili Panagides

11:07 AM Discussion

11:10 AM **TCT 416: Efficacy and Safety of Single versus Double Antiplatelet Therapy in Patients on Anticoagulation following Percutaneous Coronary Intervention: A Systematic Review and Meta analysis**  
Presenting Author: Varunsiri Atti

11:17 AM Discussion

11:20 AM **TCT 417: Influence of Thrombotic and Bleeding Risk on P2Y12 Receptor Inhibitor Choice in ACS after PCI: Insights From a Large Single Center Registry**  
Presenting Author: Ada Ip

11:27 AM Discussion

## PCI AND BLEEDING COMPLICATIONS

### PCI and Bleeding Complications

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

10:30 AM - 11:30 AM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### PCI and Bleeding Complications

Moderators: Philip M. Urban  
Discussants: Nicola Corvaja, Mark B. Effron, Rajiv Jauhar

10:30 AM **TCT 540: The Prognostic Impact of Bleeding and Ischemic Events on Mortality in Atrial Fibrillation Patients Undergoing Percutaneous Coronary Intervention Results From Multicenter Registry**  
Presenting Author: Hisao Otsuki

10:37 AM Discussion

10:40 AM **TCT 541: Validation of the Academic Research Consortium High Bleeding Risk Criteria for Patients Undergoing Percutaneous Coronary Intervention**  
Presenting Author: Davide Cao

10:47 AM Discussion

10:50 AM **TCT 542: Impact of Baseline Anemia and Thrombocytopenia on 1 Year Clinical Outcomes in Patients Undergoing Percutaneous Coronary Intervention**  
Presenting Author: Ridhima Goel

10:57 AM Discussion

11:00 AM **TCT 543: Long term incidence and details of bleeding event after everolimus eluting stent implantation 7 8 year follow up outcomes**  
Presenting Author: katsuya miura

11:07 AM Discussion

11:10 AM **TCT 544: Influence of Ischemic and Bleeding Risk Factors on Diabetic Patients Undergoing Percutaneous Coronary Intervention From the Xience Pooled Registry**  
Presenting Author: Ridhima Goel

11:17 AM Discussion

11:20 AM **TCT 545: Development and validation of a prediction rule for transfusion in patients undergoing percutaneous coronary intervention using administrative clinical parameters: A Korean nationwide longitudinal cohort study**  
Presenting Author: Jin-Ho Choi

11:27 AM Discussion

## TAVR COMORBIDITIES AND COMPLICATIONS - 2

### TAVR Comorbidities and Complications - 2

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

10:30 AM - 11:30 AM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

### TAVR Comorbidities and Complications - 2

Moderators: Manuel D. Pan, Christian Spies  
Discussants: Ganesh Manoharan, Oscar A. Mendiz, Konstantinos Spargias

10:30 AM **TCT 697: Futility in the Modern Era of TAVR: Clinical Characteristics of High Risk Patients That Do Not Benefit From Transcatheter Aortic Valve Replacement**  
Presenting Author: David Cook

10:37 AM **Discussion**

10:40 AM **TCT 698: Impact of Patient Frailty is Associated with Index and Readmission Outcomes Following TAVR**  
Presenting Author: Sara Emami

10:47 AM **Discussion**

10:50 AM **TCT 699: Preoperative Frailty Parameters as Predictors for Outcomes after Transcatheter Aortic Valve Implantation a Systematic Review and Meta Analysis**  
Presenting Author: M.S. van Mourik

10:57 AM **Discussion**

11:00 AM **TCT 700: Impact of Pulmonary Hypertension and COPD on Outcomes after Transcatheter Aortic Valve Replacement A Report From the STSACC TVT Registry**  
Presenting Author: Joao Cavalcante - DUPE

11:07 AM **Discussion**

11:10 AM **TCT 701: Pulmonary Hypertension with Elevated Pulmonary Vascular Resistance is Associated with Long term Mortality in Patients Undergoing Transcatheter Aortic Valve Replacement**  
Presenting Author: Miho Fukui

11:17 AM **Discussion**

11:20 AM **TCT 702: Impact of Transcatheter Aortic Valve Replacement on Anemia: New Approach to Heydes Syndrom.**  
Presenting Author: Javier Lopez-Pais

11:27 AM **Discussion**

10:37 AM **Discussion**

10:40 AM **TCT 728: Low risk Transcatheter versus Surgical Aortic Valve Replacement A Meta analysis of Randomized Controlled Trials**  
Presenting Author: Mahesh Anantha Narayanan

10:47 AM **Discussion**

10:50 AM **TCT 729: Short Term Outcomes with Transcatheter vs. Surgical Aortic Valve Replacement in Low Risk Patients: A Meta Analysis of Randomized Controlled Trials**  
Presenting Author: Amartya Kundu

10:57 AM **Discussion**

11:00 AM **TCT 730: Key Cardiovascular Outcomes After Balloon Expandable Versus Self Expandable Transcatheter Aortic Valve Implantation**  
Presenting Author: Haris Riaz

11:07 AM **Discussion**

11:10 AM **TCT 731: Varying Pressure Recovery characteristics between Balloon Expandable Versus Self Expanding Valves**  
Presenting Author: Lakshmi Dasi

11:17 AM **Discussion**

11:20 AM **TCT 732: Corevalve Evolut PRO versus Evolut R: a case matched comparison in severely calcified anatomies**  
Presenting Author: Kerstin Playda

11:27 AM **Discussion**

## VASCULAR ACCESS AND CLOSURE IN PCI - 3

### Vascular Access and Closure in PCI - 3

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

10:30 AM - 11:20 AM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:20 AM

### Vascular Access and Closure in PCI - 3

Moderators: Samer Mansour, Samir B. Pancholy  
Discussants: Somjot S. Brar, M. Nicholas Burke, Sudhir Rathore

10:30 AM **TCT 790: Forearm Radial Artery Occlusion Following Distal Radial Artery Approach**  
Presenting Author: Kazuki Tobita

10:37 AM **Discussion**

10:40 AM **TCT 791: Reasons for not Using Radial Access for Percutaneous Coronary Intervention in era of Experienced Radial Operator**  
Presenting Author: Tanawan Riangwiwat

10:47 AM **Discussion**

10:50 AM **TCT 792: Meta Analysis of Radial Hemostasis Trials Using Patent Hemostasis and a Potassium Ferrate Hemostatic Disc**

## TAVR VS. SAVR AND TAVR VS. TAVR - 2

### TAVR vs. SAVR and TAVR vs. TAVR - 2

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

10:30 AM - 11:30 AM

The Moscone Center

10:30 AM - 11:30 AM

### TAVR vs. SAVR and TAVR vs. TAVR - 2

Discussant: Joachim Schofer, Ashok Seth

10:30 AM **TCT 727: Transcatheter Versus Surgical Aortic Valve Replacement in Low Risk Patients: a Meta Analysis**  
Presenting Author: Toby Rogers

Presenting Author: *Matheen Khuddus*

- 10:57 AM Discussion  
11:00 AM TCT 793: Arterial Anomalies of Upper Limb and its Influence on Transradial Coronary Procedures  
*Presenting Author: naveen garg*  
11:07 AM Discussion  
11:10 AM TCT 794: Impact of the Distal Radial Artery Approach for Diagnostic Coronary Catheterization in Nursing Service  
*Presenting Author: Yukio Mizuguchi*  
11:17 AM Discussion

Presenting Author: *boutros karam*

- 11:17 AM Discussion  
11:20 AM TCT 844: Very Late gt1 Year Stent Related Adverse Cardiovascular Events: Individual Patient Data and Network Meta Analyses from Nineteen Randomized Clinical Trials  
*Presenting Author: Mahesh V. Madhavan*  
11:27 AM Discussion

## VULNERABLE PLAQUES AND HIGH RISK PATIENTS - 3

### Vulnerable Plaques and High Risk Patients - 3

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

10:30 AM - 11:30 AM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

10:30 AM - 11:30 AM

#### Vulnerable Plaques and High Risk Patients - 3

*Moderators: Neal Gordon Uren*  
*Discussants: John A. Ambrose, Nick E. J. West, Bernhard Witztenbichler, Wojtek Wojakowski*

- 10:30 AM TCT 839: The relationship between winter time and increased air pollution expressed as PM10 concentration and the frequency of percutaneous coronary interventions in patients with acute coronary syndromes  
*Presenting Author: Rafał Januszek*  
10:37 AM Discussion  
10:40 AM TCT 840: Index of multiple deprivation and percutaneous coronary intervention: An analysis from the British Cardiovascular Intervention Society database.  
*Presenting Author: Scot Garg*  
10:47 AM Discussion  
10:50 AM TCT 841: The Impact of HIV on Coronary Artery Procedure in Patients of Coronary Artery Disease  
*Presenting Author: Amer N. Kadri*  
10:57 AM Discussion  
11:00 AM TCT 842: Longterm incidence of myocardial infarction in patients undergoing percutaneous coronary intervention versus coronary artery bypass grafting for isolated left anterior descending artery disease: A Meta Analysis.  
*Presenting Author: Megha Prasad*  
11:07 AM Discussion  
11:10 AM TCT 843: Burden of 30 days readmission after PCI to non index Hospital vs index Hospital in the United states: Insights from the Nationwide Readmission Database NRD

## AGE AND GENDER AND PRIMARY PCI

### Age and Gender and Primary PCI

Coronary: CHIP

SATURDAY, SEPTEMBER 28, 2019

11:30 AM - 12:30 PM

Moderated Posters 6, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

#### Age and Gender and Primary PCI

*Moderators: Mirvat Alasnag, Alice K. Jacobs*  
*Discussants: Angeles Alonso Garcia, Daniel Aradi, James C. Blankenship*

- 11:30 AM TCT 122: Trends and Outcomes of Percutaneous Coronary Intervention for Acute ST Segment Elevation Myocardial Infarction in Patients with Opioid Abuse: Review from a National Database  
*Presenting Author: Sagar Ranka*  
11:37 AM Discussion  
11:40 AM TCT 123: Impact of gender and ischemic time in anterior STEMIs with left ventricular unloading and delayed reperfusion. A sub study from the STEMI DTU safety and feasibility trial  
*Presenting Author: Navin K. Kapur*  
11:47 AM Discussion  
11:50 AM TCT 124: Gender Differences in Revascularization and 30 day Readmissions After ST Segment Elevation Myocardial Infarction in the United States: A Nationwide Readmissions Database Analysis  
*Presenting Author: DIALA Steitieh*  
11:57 AM Discussion  
12:00 PM TCT 125: Impact of Insurance on Outcomes and Readmission Rates in Young Adults After Acute Myocardial Infarction  
*Presenting Author: Viswajitreddy Anugu*  
12:07 PM Discussion  
12:10 PM TCT 126: Does Age Impact Infarct Size and Microvascular Obstruction After PCI in STEMI Individual Patient Data Analysis from 7 Magnetic Resonance Imaging Studies  
*Presenting Author: Ghazaleh Mehdipoor*  
12:17 PM Discussion  
12:20 PM TCT 127: Long Term Clinical Outcomes of Young Acute Myocardial Infarction Patients underwent Percutaneous Coronary Intervention

12:27 PM Discussion

## BIOMARKERS AND OUTCOMES

### Biomarkers and Outcomes

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

11:30 AM - 12:30 PM

Moderated Posters 4, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

#### Biomarkers and Outcomes

Moderators: João L. Cavalcante Discussants: Tyrone J. Collins

11:30 AM **TCT 158: Intracoronary CD34 Cell Therapy Further Improves One Year Left Ventricular Systolic Function in Patients with Concomitant Severe Diffuse Coronary Artery Disease and Preserved Cardiac Performance**  
Presenting Author: Pei-Hsun Sung

11:37 AM Discussion

11:40 AM **TCT 159: Clinical Significance of Elevated Preprocedural Hemoglobin Level as a Marker of Outcomes After Percutaneous Coronary Intervention**  
Presenting Author: Byung Gyu Kim

11:47 AM Discussion

11:50 AM **TCT 160: Impact of White Blood Cell Count on Infarct Size and Clinical Outcomes Following Primary PCI: Patient Level Analysis From 6 Randomized Trials**  
Presenting Author: Bahira Shahim

11:57 AM Discussion

12:00 PM **TCT 161: Association between platelet aggregability during primary percutaneous coronary intervention and increased leukocyte in patients with ST elevation myocardial infarction**  
Presenting Author: Shinnosuke Kikuchi

12:07 PM Discussion

12:10 PM **TCT 162: Impact of Thrombocytopenia on Subsequent 1 year Major Adverse Cardiovascular Event MACE in Non ST Elevation Acute Coronary Syndrome NSTEMI ACS**  
Presenting Author: Jonathan Fang

12:17 PM Discussion

12:20 PM **TCT 163: The Prothrombotic Transcriptomic Signature of Reticulated Platelets**  
Presenting Author: Dario Bongiovani

12:27 PM Discussion

11:30 AM - 12:30 PM

### Cath Lab of the Future - 3

Moderators: Antonio L. Bartorelli Discussants: John A. Ambrose, Christos Bourantas, Miodrag C. Ostojic

11:30 AM **TCT 206: Conservative Versus Aggressive Treatment Strategy with Angiographic Guidance Alone in Patients with Intermediate Coronary Lesions: 3 Year Outcome of The SMART CASE Trial**  
Presenting Author: Kim Jihoon

11:37 AM Discussion

11:40 AM **TCT 207: Frontiers in Machine Learning and ECG: Value of Enriching Data**  
Presenting Author: Sameer Mehta

11:47 AM Discussion

11:50 AM **TCT 208: Effectiveness of Multislice Computed Tomography Coronary Angiography Versus Invasive Coronary Angiography in Accurate Calculation of SYNTAX score**  
Presenting Author: Yasser Sadek

11:57 AM Discussion

12:00 PM **TCT 209: First Demonstration of Long distance Robotic Telesteering Capabilities Using 5G Wireless Technology: A Pre clinical Study**  
Presenting Author: Ryan D. Madder

12:07 PM Discussion

12:10 PM **TCT 210: Machine Learning for Risk Prediction of Future Clinical Events in Patients with Acute Coronary Syndrome undergone percutaneous coronary intervention**  
Presenting Author: Park Jin Sup

12:17 PM Discussion

12:20 PM **TCT 211: Static and Dynamic 3D TEE automated aortic root modeling are both accurate and useful to size the aortic annulus in patients undergoing TAVR: comparison to CT**  
Presenting Author: Shawn Reginald

12:27 PM Discussion

## CORONARY ARTERY SURGERY

### Coronary Artery Surgery

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

11:30 AM - 12:30 PM

Moderated Posters 7, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

#### Coronary Artery Surgery

Moderators: David H. Adams, Craig R. Smith Discussants: Michael Argenziano, Marc Gillinov, Joseph F. Sabik

11:30 AM **TCT 236: Coronary artery bypass grafting in patients presenting with ST segment elevation myocardial infarction The optimal timing and impact on outcomes: Insights from the TOTAL trial**

## CATH LAB OF THE FUTURE - 3

### Cath Lab of the Future - 3

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

11:30 AM - 12:30 PM

Moderated Posters 3, Exhibit Hall, Exhibition Level, Moscone South

Presenting Author: Matthias Bossard

- 11:37 AM Discussion
- 11:40 AM **TCT 237: Revascularization Options for Females with Coronary Artery Disease: A Meta Analysis of Randomized Controlled Trials**  
Presenting Author: Tayyab Shah
- 11:47 AM Discussion
- 11:50 AM **TCT 238: Detailed statistical analysis of intraoperative coronary bypass angiography in 1000 patients after surgical myocardial revascularization.**  
Presenting Author: Karen V. Petrosyan
- 11:57 AM Discussion
- 12:00 PM **TCT 239: Impact of Non respect of SYNTAX Score II Recommendations for Surgery in Patients with Complex Coronary Artery Disease Treated by PCI: A pooled analysis of 3280 randomized patients SYNTAX BEST and PRECOMBAT trials**  
Presenting Author: Patrick W. Serruys
- 12:07 PM Discussion
- 12:10 PM **TCT 240: Quality of Life between Coronary Artery Bypass Graft Surgery and Percutaneous Coronary Intervention: A Systematic Review and Meta analysis**  
Presenting Author: najam saqib
- 12:17 PM Discussion
- 12:20 PM **TCT 241: Inadvertent Aortocoronary Arteriovenous Fistula After Coronary Artery Bypass Surgery: A Systematic Review**  
Presenting Author: Kai Chen
- 12:27 PM Discussion

- 11:47 AM Discussion
- 11:50 AM **TCT 420: Derivation and External Validation of a Novel Risk Score for Prediction of 30 Day Mortality After Percutaneous Coronary Intervention**  
Presenting Author: Sorin J. Brener
- 11:57 AM Discussion
- 12:00 PM **TCT 421: Predicting 2 years all cause mortality after contemporary PCI: revising and updating the logistic clinical SYNTAX score in the GLOBAL LEADERS study**  
Presenting Author: Ply Chichareon
- 12:07 PM Discussion
- 12:10 PM **TCT 422: Clinical Outcomes and Predictors of Mortality Among 847 Nonagenarians Undergoing Percutaneous Coronary Intervention: Insights From a Brazilian Nationwide PCI Registry CENIC Registry**  
Presenting Author: Fábio Augusto Pinton
- 12:17 PM Discussion
- 12:20 PM **TCT 423: Periprocedural Myocardial Infarction is Associated with Mortality in Stable Angina Pectoris Patients Undergoing Elective Coronary Intervention**  
Presenting Author: Mohamad Soud
- 12:27 PM Discussion

## MORTALITY AFTER PCI

### Mortality After PCI

Coronary: CHIP

SATURDAY, SEPTEMBER 28, 2019

11:30 AM - 12:30 PM

Moderated Posters 8, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### Mortality After PCI

Moderators: Sundeep Mishra Discussants: Eric A. Cohen, Javaid Iqbal, Duk-Woo Park

- 11:30 AM **TCT 418: Rates and Independent Correlates of 10 Year Major Adverse Events and Mortality in Patients Undergoing Left Main Revascularization**  
Presenting Author: Tae oh Kim
- 11:37 AM Discussion
- 11:40 AM **TCT 419: Predictors of Five Year Mortality After PCI: An Individual Patient Data Pooled Analysis of 32882 Patients From 21 Randomized Controlled Trials**  
Presenting Author: mayank yadav

## TAVR COMORBIDITIES AND COMPLICATIONS - 3

### TAVR Comorbidities and Complications - 3

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

11:30 AM - 12:30 PM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### TAVR Comorbidities and Complications - 3

Moderators: Gerhard C. Schuler Discussants: Anand Prasad, Michael Rinaldi

- 11:30 AM **TCT 703: Outcomes following aortic valve replacement for cardiogenic shock: transcatheter versus surgical approaches**  
Presenting Author: Samuel Maidman
- 11:37 AM Discussion
- 11:40 AM **TCT 704: Long Term Bleeding Following Transcatheter Aortic Valve Replacement in Patients with Chronic Kidney Disease is Associated with Increased Mortality**  
Presenting Author: Shawn Li
- 11:47 AM Discussion
- 11:50 AM **TCT 705: Thrombocytopenia and Outcomes after Transcatheter Aortic Valve Implantation**  
Presenting Author: Shinya Ito
- 11:57 AM Discussion



- 12:00 PM **TCT 706: Can Clinical Predictive Models Identify Patients Who Should Not Receive TAVR**  
*Presenting Author: Benjamin Wessler*
- 12:07 PM **Discussion**
- 12:10 PM **TCT 707: Effect of Hemodynamic Profile on Mortality in Veteran Patients with Pulmonary Hypertension Undergoing TAVR**  
*Presenting Author: Timothy Pow*
- 12:17 PM **Discussion**
- 12:20 PM **TCT 708: Outcomes of Transcatheter Aortic Valve Replacement in Oncology Patients with Severe Aortic Stenosis**  
*Presenting Author: Alexandra Murphy*
- 12:27 PM **Discussion**

- 12:17 PM **Discussion**
- 12:20 PM **TCT 738: Beating Human Cadaver Heart Biosimulator: A Transitional Evaluation Platform for Catheter based Interventional Cardiac Therapeutic Devices for Structural Heart Disease**  
*Presenting Author: Yanping Cheng*
- 12:27 PM **Discussion**

## TAVR VS. SAVR AND TAVR VS. TAVR - 3

### TAVR vs. SAVR and TAVR vs. TAVR - 3

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

11:30 AM - 12:30 PM  
The Moscone Center

11:30 AM - 12:30 PM

### TAVR vs. SAVR and TAVR vs. TAVR - 3

*Discussant: Patrick M. McCarthy, Pieter R. Stella, Marco V. Wainstein*

- 11:30 AM **TCT 733: Transcatheter compared to Surgical Aortic Valve replacement in patients with Rheumatic Aortic Valve disease A nationwide analysis**  
*Presenting Author: Syed Zaid*
- 11:37 AM **Discussion**
- 11:40 AM **TCT 734: Transcatheter compared to Surgical Aortic Valve Replacement in patients with low surgical risk A Meta analysis of all Randomized Controlled Trials**  
*Presenting Author: Syed Zaid*
- 11:47 AM **Discussion**
- 11:50 AM **TCT 735: Comparative Outcomes of Transcatheter Versus Surgical Aortic Valve Replacement in Patients With Old Infarct**  
*Presenting Author: Ayman Elbadawi*
- 11:57 AM **Discussion**
- 12:00 PM **TCT 736: Long term durability of transcatheter heart valves: Insights from bench testing to 25 years**  
*Presenting Author: Janarathanan Sathananthan*
- 12:07 PM **Discussion**
- 12:10 PM **TCT 737: Balloon Expandable Versus Self Expanding Transcatheter Aortic Valve Systems: A Bayesian Network Meta analysis**  
*Presenting Author: Mohammed Osman*

## VASCULAR ACCESS AND CLOSURE IN PCI - 4

### Vascular Access and Closure in PCI - 4

Coronary: Core

SATURDAY, SEPTEMBER 28, 2019

11:30 AM - 12:30 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

11:30 AM - 12:30 PM

### Vascular Access and Closure in PCI - 4

*Moderators: Mauro Carlino Discussants: YunDai Chen, Robert-Jan Van Geuns, Ramzan M. Zakir, David X. Zhao*

- 11:30 AM **TCT 795: Trends in the Prevalence and In Hospital Outcomes of Radial Versus Femoral Access in Percutaneous Coronary Intervention: a Report with 158363 Patients From the Brazilian Nationwide PCI Registry CENIC**  
*Presenting Author: Fábio Augusto Pinton*
- 11:37 AM **Discussion**
- 11:40 AM **TCT 796: Physician Self Directed Transition From Femoral to Radial Access for Primary Percutaneous Coronary Intervention Does Not Adversely Affect Key Time Intensive Metrics: A Community Medical Center Experience**  
*Presenting Author: Stephen Long*
- 11:47 AM **Discussion**
- 11:50 AM **TCT 797: Clinical Outcome in Femoral Access of High volume Radial Percutaneous Coronary Intervention Center in Patients With ST segment Elevation Myocardial Infarction**  
*Presenting Author: Hyeon Jeong Kim*
- 11:57 AM **Discussion**
- 12:00 PM **TCT 798: Patent radial artery after transradial coronary intervention via distal radial access at anatomical snuffbox optical coherent tomography study**  
*Presenting Author: Daehwan Bae*
- 12:07 PM **Discussion**
- 12:10 PM **TCT 799: A Pilot Study of Accelerated Radial Artery Hemostasis Following Percutaneous Transradial Coronary Angiography Intervention Utilizing a Novel Topical Hemostatic Agent in Conjunction With Surface Compression**  
*Presenting Author: Rajeev Anchan*
- 12:17 PM **Discussion**
- 12:20 PM **TCT 800: Bivalirudin vs Heparin on Radial Artery Thrombosis During Transradial Coronary Intervention: an Optical Coherence Tomography Study**

## CHRONIC TOTAL OCCLUSIONS - 4

### Chronic Total Occlusions - 4

Coronary: CHIP

SATURDAY, SEPTEMBER 28, 2019

12:30 PM - 1:30 PM

Moderated Posters 2, Exhibit Hall, Exhibition Level, Moscone South

12:30 PM - 1:30 PM

#### Chronic Total Occlusions - 4

Moderators: Sundeep Mishra, Sunao Nakamura  
Discussants: Goran K. Olivecrona, Elmir Omerovic, Sudhir Rathore, Masahisa Yamane

12:30 PM **TCT 230: Myocardial Ischemia is Present and Mostly Reversible in Patients with a Chronic Total Occlusion and a Viable Perfusion Territory: the DISTAL CTO study**  
Presenting Author: Mathieu Coeman

12:37 PM Discussion

12:40 PM **TCT 231: Prognosis of Percutaneous Coronary Intervention Versus Optimal Medical Therapy in the Treatment of Chronic Total Coronary Occlusion: A Systematic Review and Meta Analysis**  
Presenting Author: Mohamed Elmassry

12:47 PM Discussion

12:50 PM **TCT 232: Incidence and Prognosis of Chronic Total Occlusions in non infarct related artery in Patients with ST segment elevation myocardial infarction**  
Presenting Author: Tony Main

12:57 PM Discussion

1:00 PM **TCT 233: Mortality and In Hospital Outcome of Patients with Chronic Total Occlusion Undergoing Percutaneous Coronary Intervention: Race Based Trend Analysis from Nationwide Inpatient Sample**  
Presenting Author: Sandipan Chakraborty

1:07 PM Discussion

1:10 PM **TCT 234: Three year Clinical Outcome of the PRISON IV Trial: Ultra thin Struts vs Conventional Drug Eluting Stents in Total Coronary Occlusions.**  
Presenting Author: Carlo Zivelonghi

1:17 PM Discussion

1:20 PM **TCT 235: Coronary Collateral Regression Following Chronic Total Occlusion CTO Percutaneous Coronary Intervention PCI**  
Presenting Author: Novalia Purnama Sidik

1:27 PM Discussion

SATURDAY, SEPTEMBER 28, 2019

12:30 PM - 1:30 PM

Moderated Posters 1, Exhibit Hall, Exhibition Level, Moscone South

12:30 PM - 1:30 PM

#### TAVR Comorbidities and Complications - 4

Moderators: Mark C. Bates, Francesco Bedogni  
Discussants: Itshac Itsik Ben-dor, Stefan C. Bertog, Stephen J.D. Brecker

12:30 PM **TCT 709: Aortic Valve Replacement in Patients with Prior Kidney Transplantation: Transcatheter or Surgical approach**  
Presenting Author: Konstantinos Voudris

12:37 PM Discussion

12:40 PM **TCT 710: Body Mass Index as a Predictor of Outcomes in Patients Undergoing Transcatheter Aortic Valve Replacement**  
Presenting Author: Majid Asawaer

12:47 PM Discussion

12:50 PM **TCT 711: Prevalence and clinical impact of bioprosthesis thrombosis after transcatheter aortic valve implantation. A collaborative meta analysis**  
Presenting Author: Tobias Rheude

12:57 PM Discussion

1:00 PM **TCT 712: Infective Endocarditis Caused by Staphylococcus or Enterococcus After Transcatheter Aortic Valve Implantation a Comparison Between the two Most Common Microbiological Findings**  
Presenting Author: Norman Mangner

1:07 PM Discussion

1:10 PM **TCT 713: Hemodynamic Valve Dysfunction Following Transcatheter Aortic Valve Implantation: Prevalence and Predictors of Elevated Transvalvular Gradients**  
Presenting Author: Tobias Rheude

1:17 PM Discussion

1:20 PM **TCT 714: Aortic Lumen Area Modifies the Association Between Aortic Calcification and Mortality after Transcatheter Aortic Valve Replacement**  
Presenting Author: Gautam Rangavajla

1:27 PM Discussion

## TAVR LEAFLET THICKENING AND THROMBOSIS

### TAVR Leaflet Thickening and Thrombosis

Structural: Valve

SATURDAY, SEPTEMBER 28, 2019

12:30 PM - 1:30 PM

Moderated Posters 5, Exhibit Hall, Exhibition Level, Moscone South

## TAVR COMORBIDITIES AND COMPLICATIONS - 4

### TAVR Comorbidities and Complications - 4

Structural: Valve

12:30 PM - 1:30 PM

### TAVR Leaflet Thickening and Thrombosis

Moderators: Omar K. Khalique, Karl-Heinz Kuck  
Discussants: Stamatios Lerakis, G. Burkhard Mackensen, Ganesh Manoharan, Anna Sonia Petronio

- 12:30 PM **TCT 715: Anatomical Evaluation of Balloon Expandable Transcatheter Aortic Valve Replacement Computed Tomography Insights for Hypo Attenuating Leaflet Thickening**  
*Presenting Author: Miho Fukui*
- 12:37 PM **Discussion**
- 12:40 PM **TCT 716: Transcatheter Heart Valve Under Expansion increases the Likelihood of Leaflet Thrombosis**  
*Presenting Author: Farhan Khodae*
- 12:47 PM **Discussion**
- 12:50 PM **TCT 717: Hemodynamic predictors of leaflet thrombosis in low risk patients undergoing TAVR: A Sub Study of the Low Risk TAVR Trial**  
*Presenting Author: Jaffar Mohammad Khan*
- 12:57 PM **Discussion**
- 1:00 PM **TCT 718: Subclinical Leaflet Thrombosis is Associated With Prosthesis Oversizing in Balloon Expandable Transcatheter Aortic Valve Replacement**  
*Presenting Author: Vaughan Tuohy*
- 1:07 PM **Discussion**
- 1:10 PM **TCT 719: Antithrombotic Strategies after Transcatheter Aortic Valve Implantation: Insights from a Network Meta Analysis**  
*Presenting Author: Toshiki Kuno*
- 1:17 PM **Discussion**
- 1:20 PM **TCT 720: Antithrombotic Treatment in Patients Undergoing Transcatheter Aortic Valve Replacement: a Single Center Experience**  
*Presenting Author: Fabian Plank*
- 1:27 PM **Discussion**

## SUNDAY, SEPTEMBER 29, 2019

### MAIN ARENA IV, SUNDAY, SEPT. 29

#### Main Arena IV, Sunday, Sept. 29

SUNDAY, SEPTEMBER 29, 2019

8:00 AM - 1:00 PM

Main Arena

8:00 AM - 8:45 AM

#### TCT Celebrates Clinical Science & Practice

8:00 AM **Best Abstract of TCT 2019**

8:10 AM **Roundtable Discussion With Audience QA**

8:15 AM **Best Coronary Case of TCT 2019**

*Case Presenter: Mahesh V. Madhavan*

8:25 AM **Roundtable Discussion With Audience QA**

8:30 AM **Best Structural Case of TCT 2019**

*Case Presenter: Abdul Qazi*

8:40 AM **Roundtable Discussion With Audience QA**

8:45 AM - 9:45 AM

#### Late-Breaking Trials 4

Discussants: Anita Asgar, Ori Ben-Yehuda, Donald Cutlip, Roxana Mehran, Eric A. Secemsky, John A. Spertus, E. Murat Tuzcu  
Co-Moderators: Gregg W. Stone, Clyde W. Yancy

8:45 AM **COAPT: Cost Effectiveness Analysis From a Randomized Trial of the MitraClip in Patients With Heart Failure and Severe Secondary Mitral Regurgitation**

*Lecturer: Suzanne J. Baron*

8:57 AM **Roundtable Discussion With Audience QA**

9:05 AM **PARTNER 3: Health Status Outcomes From a Randomized Trial of Transcatheter vs Surgical Aortic Valve Replacement in Patients With Severe Aortic Stenosis at Low Surgical Risk**

*Lecturer: Suzanne J. Baron*

9:17 AM **Roundtable Discussion With Audience QA**

9:25 AM **REMEDIAL III: A Randomized Trial of Urine Flow Rate Guided vs LVEDP Guided Hydration in Patients at High Risk for Contrast Nephropathy**

*Lecturer: Carlo Briguori*

9:37 AM **Roundtable Discussion With Audience QA**

9:45 AM - 11:00 AM

#### Reflections from a Rich Interventional History: A Series of Featured Lectures

Moderators: Martin B. Leon, Gregg W. Stone  
Discussants: James S. Forrester, Philippe E. Gaspard, Frederick G. St. Goar

9:45 AM **Reflection Talk 1**

10:00 AM **Discussion**

10:10 AM **Reflection Talk 2**

10:25 AM **Discussion**

10:35 AM **Reflection Talk 3**

10:50 AM **Discussion**

11:00 AM - 12:00 PM

#### Late-Breaking Science #4

Moderators: Ajay J. Kirtane  
Discussants: Ziad A. Ali, William F. Fearon, Hector M. Garcia-Garcia, Elvin Kedhi, Michael Maeng, Gary S. Mintz, Francesco Prati  
Co-Moderators: Anthony DeMaria

11:00 AM **BIODEGRADE: A Large Scale Randomized Trial of a Thin Strut Bioabsorbable Polymer Based DES vs. a Thick Strut Bioabsorbable Polymer Based DES in an All Comers Population With Coronary Artery Disease**

*Lecturer: IN-HO CHAE*

11:10 AM **Roundtable Discussion With Audience QA**