

THE OPERATORS ENCLAVE™

C O V I
2024



JULY
18TH-20TH
2024

HYATT REGENCY
DENVER, COLORADO

**MASTERS' APPROACH TO
CRITICAL LIMB ISCHEMIA**

COMPLEX HIGH-RISK PCI

**FRONTIERS IN STRUCTURAL
HEART DISEASE**



THE OPERATORS ENCLAVE™



Welcome to CVI 2024, The Operators Enclave™. We are excited to welcome you back to Denver! CVI 2024 is one of the most interactive and accessible conferences you will attend due to its focus on presenter interaction, expert panel discussions and audience participation. The networking and one-on-one sharing of professional experiences with outstanding faculty is invaluable. This is a one-of-a-kind users meeting.

This year, we are bringing back the no podium, immersive, “TED Talk” style in our general sessions, which will foster engagement between the speaker, panelists and audience. Additionally, we have added two new tracks to our general session—Aortic and Interventional Heart Failure.

CVI 2024 includes cases by world renowned operators, practical instruction on state-of-the-art therapies for peripheral, coronary, and structural heart disease, and case-based discussions. A variety of breakfast, lunch and dinner satellite symposia, as well as hands-on experiences are available. The conference offers cardiologists, vascular and cardiac surgeons, podiatrists, residents, fellows, and heart team professionals multiple education opportunities, including a case competition with a prize for the top cases.

We hope your time in Denver is stimulating and enriching. Thank you for being a key part of CVI 2024!



**Subhash Banerjee,
MD, FACC, FSCAI**
*Baylor Heart and
Vascular Hospital*



**Emmanouil S. Brilakis,
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FSCAI, FESC**
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**Paul Sorajja,
MD, FACC, FAHA, FSCAI**
*Minneapolis Heart
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Cardiovascular Innovations Foundation acknowledges educational grants for partial support of this activity from:

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MOBILE APP

With the CVI 2024 app, you can:

- » View faculty bios
- » Browse the complete agenda, including case competition and satellite symposia
- » Make note of Exhibit Hall hours and exhibitor details
- » Message and connect with other app users
- » Access supplementary resources and more!

Download the **CVI Events** app from the Apple App Store or Google Play Store. Once the app opens on your device, select **CVI 2024**. Once on your device, select **Create Account**.



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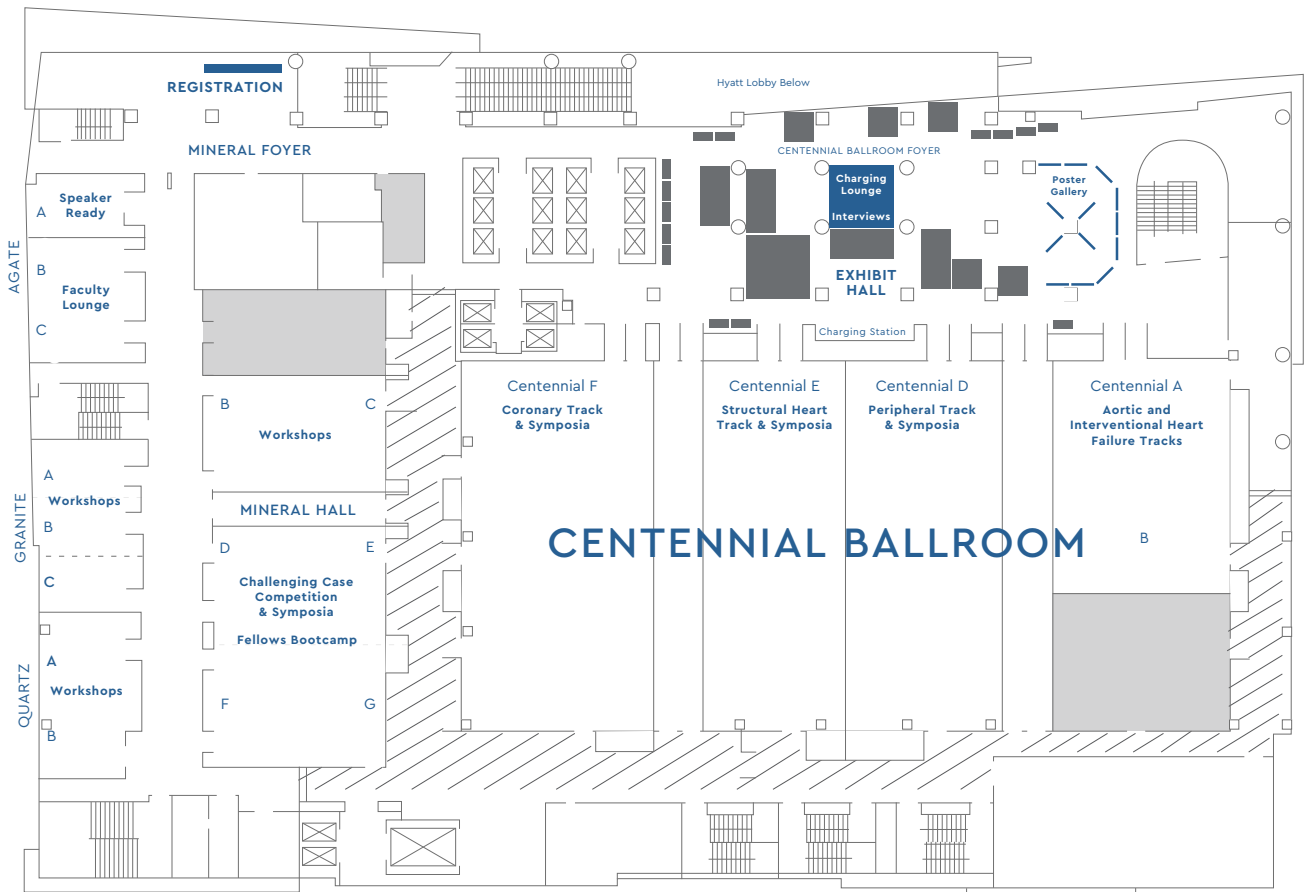
ACCREDITATION

Full accreditation information is available on the CVI website at <https://cvinnovations.org/cviaccred/>

JOIN US FOR CVI 2025
JULY 17-19,
2025
JW MARRIOTT • AUSTIN, TX

MEETING ROOM LAYOUT

Hyatt Regency Third Floor



Refer to the CVI Events App for a list of exhibitors and booth locations.

EXHIBIT HALL HOURS

Thursday, July 18
8:00 AM - 5:30 PM

Friday, July 19
8:00 AM - 5:30 PM

Saturday, July 20
8:00 AM - 2:00 PM

REGISTRATION DESK HOURS

Wednesday, July 17
11:00 AM - 1:00 PM

Thursday, July 18
6:30 AM - 5:30 PM

Friday, July 19
7:30 AM - 5:30 PM

Saturday, July 20
7:30 AM - 12:00 PM

THURSDAY, JULY 18

8:30 - 10:00	Complications Part 1: Acute Vessel Closure	Masters Approach to Critical Limb Ischemia - Access & Crossing	Tricuspid Regurgitation Therapy Retreat (TR²): Innovations and Cases	Complex Cases: Advanced Heart Failure Requiring Interventional Therapy	Challenging Case Competition: Coronary Semifinals 1
10:00 - 10:30	Break, Exhibits and Poster Presentations				
10:30 - 12:00	Complications Part 2: Perforation	Masters Approach to Critical Limb Ischemia - Advanced Technologies	Tricuspid Regurgitation Therapy Retreat (TR²): Innovations and Cases	Complex Hemodynamics: Where Interventional and Heart Failure Intersect	Challenging Case Competition: Coronary Semifinals 2
12:00 - 2:00	Lunch and Sponsored Symposia (12:30 - 1:30)				
2:00 - 3:30	Complications Part 3: Equipment Loss + Entrapment	Novel Approaches to Revascularization	Mitral Innovations and Cases	Complex Cases: Acute MI and Cardiogenic Shock	Challenging Case Competition: Coronary Semifinals 3
3:30 - 4:00	Break, Exhibits and Poster Presentations				
4:00 - 5:30	Complications Part 4: Extracardiac Complications	Lower Extremity Arterial Thrombectomy	Ultimate Mitral Cases	Complex Cases: Advanced Heart Failure and Cardiogenic Shock	Challenging Case Competition: Coronary Semifinals 4

FRIDAY, JULY 19

8:30 - 10:00	CHIP Part 1: Calcium + Tortuosity	Venous Disease	Aortic Innovations and Cases	Abdominal Aorta	Challenging Case Competition: Peripheral Semifinals 1
10:00 - 10:30	Break, Exhibits and Poster Presentations				
10:30 - 12:00	CHIP Part 2: Physiology + Imaging	Pulmonary Embolism	Ultimate Aortic Cases	Ascending Aorta and Arch	Challenging Case Competition: Peripheral Semifinals 2
12:00 - 2:00	Lunch and Sponsored Symposia (12:30 - 1:30)				
2:00 - 3:30	CHIP Part 3: CTOs	Aortoiliac and Common Femoral Artery Revascularization	Left Atrial Appendage Closure Innovations and Cases	Aortic Potpourri	Challenging Case Competition: Structural Semifinals 1
3:30 - 4:00	Break, Exhibits and Poster Presentations				
4:00 - 5:30	CHIP Part 4: Challenging Subgroups	Fempop Revascularization	Ultimate LAAC Cases	Thoracoabdominal Aorta	Challenging Case Competition: Structural Semifinals 2

SATURDAY, JULY 20

8:30 - 10:00	The Future Part 1: Beyond PCI	Fundamentals of Wound Care	Hail Mary & Compassionate Use Case Symposium		
10:00 - 10:30	Break and Exhibits				
10:30 - 12:00	The Future Part 2: PCI and Beyond	Innovation in Vascular Intervention	Ultimate Structural Cases		
12:15 - 1:40	CVI 2024 Challenging Case Competition Finals & Lunch				

TRACKS CORONARY PERIPHERAL STRUCTURAL INTERVENTIONAL HEART FAILURE AORTIC



WEDNESDAY, JULY 17		SPONSOR	LOCATION
Fellows Bootcamp (12 PM - 5:30 PM)	Success with Interventional Fellowship and Beyond	Abbott, Asahi Intecc, Boston Scientific Corporation, Haemonetics/ OpSens Medical	Mineral D
THURSDAY, JULY 18			
Breakfast Symposium (7 AM - 8 AM)	Left Atrial Appendage Closure with WATCHMAN	Boston Scientific Corporation	Centennial E
Hands-on Workshop (7 AM - 11 AM)	Master Class: Endovascular Therapies for the Venous System	AngioDynamics	Granite AB
Lunch Symposium (12:30 PM - 1:30 PM)	Management of Complex, Multilevel, Lower Extremity Peripheral Artery Disease	Medtronic (Peripheral Vascular)	Centennial D
Lunch Symposium (12:30 PM - 1:30 PM)	Turning Point in Hypertension Care: The Symplcity™ Blood Pressure Procedure	Medtronic (Coronary)	Centennial F
Lunch Symposium - SavvyWire (12:30 PM - 1:30 PM)	Beyond the Valve: Elevating TAVI with Sensor-Guided Efficiency	Haemonetics/ OpSens Medical	Centennial E
Hands-on Workshop (1 PM - 5 PM)	TriClip™ TEER Advanced Imaging Symposium and 3D ICE Hands-On Workshop	Abbott and Philips Medical	Quartz AB
Dinner Symposium (6 PM - 8:30 PM)	Heart Team Symposium	CVI	Mineral D
Reception (6 PM- 9 PM)	Innovations Summit	CVI	Centennial D
FRIDAY, JULY 19			
Breakfast Symposium (7 AM - 8 AM)	AGENT of Change: Modern PCI for ISR Treatment	Boston Scientific Corporation	Centennial F
Breakfast Symposium (7 AM - 8 AM)	From No-Option to New Options: Elevating your CLTI Program with LimFlow TADV	Inari Medical/ Limflow	Centennial D
Hands-on Workshop (8 AM - 12 PM)	Cutting-edge Approaches in Structural Heart Interventions: Harnessing 4D ICE, Mini 4D TEE, and GE Healthcare’s Ultrasound Innovations for Optimal Imaging and Workflow Enhancements	GE Healthcare	Granite AB
Hands-on Workshop (8 AM - 12 AM)	Gore Medical Interactive Hands-On Training Lab (Registration Required)	W.L. Gore & Associates	Mineral Hall B
Break (10 AM - 10:30 AM)	Are We There Yet? TAVR for AR in 2024	JenaValve	Main Exhibit Hall
Lunch Symposium (12:30 PM - 1:30 PM)	Valve Performance and Evolut FX+: Comprehensive Lifetime Management	Medtronic Structural Heart	Centennial E
Lunch Symposium (12:30 PM - 1:30 PM)	The Role of Drug-Eluting Resorbable Scaffolds for Infrapopliteal CLTI	Abbott	Centennial D
Hands-on Workshop (1 PM - 5 PM)	Advanced Intracardiac Echo Imaging with Hands-On Session	Siemens	Quartz AB
Dinner Symposium (6:30 PM - 8:30 PM)	Tricuspid Regurgitation Therapy Retreat (TR²)	Edwards Lifesciences	Mineral D
Evening Reception (9 PM - 12 AM)	CVI 2024 Attendee and Faculty Reception All are welcome!	Medtronic	Former Saints Restaurant

AORTIC

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 Minneapolis Heart Institute
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 Abbott Northwestern Hospital

DIRECTOR



**Paul Sorajja, MD, FACC,
 FAHA, FSCAI**
 Minneapolis Heart Institute
 Foundation

10 – 11 AM

Location: Poster Gallery in Exhibit Hall
Job Satisfaction And Burnout Among Cardiologists In Egypt: A Cross-sectional Study

Mostafa Abdrabou, MD

Predictive Value of Red Cell Distribution Width in Patients Undergoing Primary Coronary Angioplasty for Acute Myocardial Infarction

Mohamed Alam, MD

The first step may lead to catastrophe

Mohamed Alam, MD

Tripsy cut in acute anterior wall STEMI in an octogenarian

Asha Mahilmaran, MD

Enhancing Cardiogenic Shock Management: Insights from MCS utilization and Patient Outcomes

Monika Karki, MD

Temporal trends and disparities in Acute Myocardial Infarction mortality: A comprehensive Analysis (1999-2020) in the United States

Monika Karki, MD

Use of plaque modification microcatheters in chronic total occlusion percutaneous coronary interventions for: Insights from the PROGRESS-CTO registry

Deniz Mutlu, MD

The Association Between Low-Density Lipoprotein Cholesterol and Coronary Atherosclerotic Plaque Volume: A Systematic Review and Meta-Analysis

Muhammed Onel, MD

Contemporary interventional management of stent failure: a single center experience

Georgios Kotrotsios, MD

Predictors of short-term mortality in cardiogenic shock; Insights from Egyptian multicenter registry

Mina Youssef, MD

Unexpected Delay

Mina Youssef, MD

Left Main Trifurcation Optimised by Optical Coherence Tomography (OCT)

Salaheldin Agamy, MD

Weighing percutaneous intervention options of enlarging anastomosis of vein graft to the aorta

Matthew Bruner, MD

Unexpected scenario in CTO PCI

Ahmed Kamal, MD

Impact of Pulmonary Hypertension on In-Hospital Outcomes in Patients with Acute Myocardial Infarction and Cardiogenic Shock: A propensity matched analysis

Abhinav Aggarwal, MD

Comparison of Drug-Coated Balloon to Drug Eluting Stent in Patients with In-Stent Restenosis: A Systematic Review and Meta-Analysis

Manoj Kumar, MD

Prevalence and Clinical Correlates of Obstructive Sleep Apnea on In-hospital Outcomes following Transcatheter Aortic Valve Replacement: Results from National Inpatient Sample Database 2016-2020

Abhinav Aggarwal, MD

Sex Disparities in Outcomes of Transcatheter Aortic Valve Replacement-A Multi-Year Propensity-Matched Nationwide Study

Manoj Kumar, MD

TAVR Outcomes in High-Gradient vs Low-Gradient Severe Symptomatic AS, Large Meta-Analysis

Asseel Albayati, MD

Temporal Change of Mitral Stenosis in Patients with MAC after Successful Aortic Valve Intervention

Tremayne Ansani

Impact on Atrial Fibrillation Burden after Mitral Transcatheter Edge-to-Edge Repair in Patients with Severe Mitral Regurgitation and Atrial Fibrillation: A Propensity Matched Analysis from Nationwide Readmission Database

Helene DiGregorio, MD

When TAVR goes awry

Ahsan Ali, MBBS/ FCPS

Bioprosthetic valve dysfunction complicated by PEA arrest subsequently requiring transcatheter repair and replacement of multiple valves

Veronica Graham, DO

A systematic review and meta-analysis of the Myval balloon-expandable valve in patients with bicuspid aortic valve stenosis

Elfatih Hasabo, MBBS

A systematic review and meta-analysis of outcomes with the Myval transcatheter heart valve in patients with aortic stenosis:

Elfatih Hasabo, MBBS

Utilizing Routine Computed Tomography Angiography for Coronary Anatomy Evaluation to Streamline Invasive Angiography Exemptions in Patient Undergoing Transcatheter Aortic Valve Replacement

Asa Phichaphop, MD

Unexpected Pulmonary Artery Perforation in a Patient with Rapid Hemodynamic Collapse after Elective Left Atrial Appendage Occlusion

Nicholas Wenz, DO

Salvage TAVR for Bicuspid Aortic Stenosis in the setting of Cardiogenic Shock

Yusuf Chang, MD

A Challenging Case of Aortic Bio-prosthetic Valve Failure in the Setting of Severe Patient-Prosthesis Mismatch

Kishor Khanal

CHB in adult down syndrome, access dilemma!!

Moataz Mahmoud, Sr., MD

Secure The Plug; Ultimate Structural Intervention of a Complex Paravalvular Leak Closure and Simultaneous Left Atrial Appendage Closure

Mohammed Salih, MD

Predictive value of SYNTAX II score in patient with Acute Myocardial Infarction complicated by Cardiogenic Shock: A Healthcare Network Based Study

Md Mashiul Alam, MD

Direct Current Cardioversion on destination Single Anti-Platelet Therapy after percutaneous Left Atrial Appendage Occlusion

Ali Bahbah, MD

Cardiac magnetic resonance imaging paralleled recurrent pericarditis clinical response to riloncept treatment over 18 months: a RHAPSODY subgroup analysis

Anton Nguyen, PharmD

Cardiogenic Shock and Takotsubo Cardiomyopathy

Deepika Dhawan, MD

Effect of Empagliflozin on LV volumes and Ejection fraction in Patients with Heart Failure and Reduced Ejection Fraction without Diabetes Mellitus, a randomized, single-blind, placebo-controlled trial

Mohammad Mabrouk, MD

Right-left ventricular interaction in acute decompensated heart failure, new perspectives from serum sST2 and speckle-tracking echocardiography imaging

Dalia Marzouk, MD

The Effect of Mavacamten on Echocardiographic Parameters and Cardiac Biomarkers in Hypertrophic Cardiomyopathy Patients: A Systematic Review and Meta-Analysis

Zina Otmani, MBBS

A Unique Case of Happy Heart Syndrome: Takotsubo Cardiomyopathy Post-Birthday CELEBRATION

Mustafa Turkmani, MD

RCA ostial CTO with torn balloon

Mohamed Oraby, MD

Comparative Analysis of Polymer vs Non-Polymer Jacketed Wires in Chronic Total Occlusion Percutaneous Coronary Intervention

Michaela Alexandrou, MD

Perceptions of Iraqi patients towards clinical trials: Knowledge, barriers and motivators

Zainab Dakhil, FIBMS (Cardiol), MSc (Oxon)

Perceptions of female medical students regarding career choice in cardiology: survey-based data from Iraq

Zainab Dakhil, FIBMS (Cardiol), MSc (Oxon)

Safety of delayed extravascular femoral arterial access closure in patients undergoing coronary angiography

Tanya Sharma, MBBS

CAD and Cannabis Abuse: An Analytical Series from a Singular Institutional Viewpoint

Sophia Navajas, MD

Clinical, ECG, and echocardiographic predictors for final infarct size assessed by CMR after primary PCI

Sherif Nagy, MD

Trends and Outcomes of Thrombolytics in ST-segment Elevation Myocardial Infarction

Mandvi Pandey, MD

Role of marital status in conjunction with traditional risk factors in the development of Acute Coronary Syndrome: A longitudinal follow-up study

Rahul Potluri, MD

Impact of sheath size on the outcomes of chronic total occlusion percutaneous coronary intervention

Dimitrios Strepkos, MD

Longitudinal Changes in Plaque Composition are Associated with Inner-Plaque Mechanical Forces

Jeremy Warren

Intravascular ultrasound-guided percutaneous coronary intervention for patients with unprotected left main coronary artery lesions

Bassem Zarif, MD, PhD

Identification, Prevalence, and Outcome of Complex Percutaneous Coronary Intervention (C-PCI)—A Single Center Experience

Bassem Zarif, MD, PhD

PCI Outcomes and Need for Side Branch Stenting with Utilization of Shockwave in Bifurcation Lesions

Tyler Coombes, MD

Short-term dual antiplatelet therapy after drug-eluting stenting in patients with acute coronary syndromes: A bayesian network meta-analysis of randomized controlled trials

Pedro Carvalho

Absent Left Main Coronary Artery in a 39-year-old Filipino female presenting as ST elevation myocardial infarction: a case report

Florimond Joseph M. Garcia Jr., MD

Complex Coronary Occlusion: A Stepwise Approach

Nathaniel Kim, MD

PCI in Severely Calcified Left Main in High Bleeding Risk Octogenarian

Punish Sadana, MD

When a coronary kink comes with a surprise

Mostafa Abdrabou, MD

Repeat revascularization in the clinical setting of prior coronary artery bypass graft surgery versus prior percutaneous coronary intervention

Iosif Xenogiannis, MD, PhD

Complex PCI in an 85-Year-Old Patient With Angina and Shortness of Breath

Zaid Abood, MD

Complex CTO of the Mid LAD

Zaid Abood, MD

Stuck on You

Arkshat Mehta, MD

Total LM- total RCA, who is the culprit?

Ahmed Elsayed, MD

Impact of educational level/Health awareness on the outcomes of STEMI

Ahmed Elsayed, MD

Two Tip-In Techniques from Micro-Catheter Fatigue: a Complex RCA CTO

Maruf Sarwar, MD

10 – 11 AM

Location: Poster Gallery in Exhibit Hall

Clinical Outcomes of Unprotected Left Main Percutaneous Coronary Intervention with or without Mechanical Circulatory Support

Shaan Ahmed, DO

Phenotypic Profiling Based on Invasive Hemodynamics and Clinical Outcomes According to the SCAI Shock Classification in Patients with Acute Myocardial Infarction-Related Cardiogenic Shock: A Healthcare Network Analysis

Mohamed Badheeb, MD

Race-Related Differences in In-hospital Outcomes of ST-Elevation Myocardial Infarction: A Nationwide Analysis

William Giesing, MD

Outcomes of Intracoronary Brachytherapy for Drug-Eluting Stent In-Stent Restenosis

Muhmmad Khalid

Predictors of Successful Weaning from Impella in Patients with Cardiogenic Shock

Takeshi Matsuda, MD

Impact of Chronic Kidney Disease in Patients requiring Mechanical Circulatory Support: A National Inpatient Sample (NIS) Analysis

Krutarth Pandya, MD

Trends and factors associated with adverse outcomes in elderly patients treated with percutaneous coronary intervention (PCI) for chronic total occlusion (CTO)

Nso Nso

Coronary Fistula

Bassem Zarif, MD, PhD

Gender-based disparities in outcomes, resource utilization & readmission rates in ST-Elevation Myocardial Infarction

Manoj Kumar, MD

A Rare Case Stent Deformation[LSD] with NC Balloon Rupture. A Multi-Device Approach

P K Asokan, MD

Management of Antiplatelet Regimen During Surgical Procedures: A Report from the MARS Registry

Blake Bruneman

Early vs Delayed Catheter-Directed Embolectomy for Acute Pulmonary Embolism

Manoj Kumar, MD

Transabdominal direct sac puncture and embolization of TYPE II endoleak post EVAR

P K Asokan, MD

Radial Artery Access Nuisance Bleeding: More Prevalent Than Previously Believed

Haley East, RN, BSN

Comparative outcomes of Below-The-Knee stent deployment interventions: a report from the XLPAD Registry

Yumna Furqan

Symptomatic Carotid Web

Ghazal Khandel, MD

Dual or Nothing: Comparative Outcomes of Antiplatelet Regimens in Peripheral Artery Disease Endovascular Interventions, a Report from the XLPAD Registry

Sarah Weideman

Association of Alkaline Phosphatase-to-Platelet Ratio Index and ICU Mortality in Patients with Cardiac Arrest

Yipin Zhao

Endovascular management of massive bleeding from laryngeal tumor

Rajeev Bhardwaj, MD

Management of recurrent massive bleeding from mouth due to high flow AVM

Rajeev Bhardwaj, MD

Comparative Outcomes of Femoropopliteal IVUS Interventions: A Report from the XLPAD Registry

Kennedy Adelman, BBA

Paroxysmal nocturnal dyspnea due to renal artery stenosis-relieved by percutaneous trans-luminal renal angioplasty

Bibhash Nath, MD

Complex aortoiliac CTO intervention: what now?

Manjunath Raju, MD

A Hole in the Heart: A Rare Case of DVT and ALI

Subash Swarna

Percutaneous treatment of complex post-traumatic pedal arteriovenous fistula

Mustafa Kursat Tigen

Stenting of a near-occlusion in common carotid artery due to Takayasu's arteritis

Mustafa Kursat Tigen

Lytics to the rescue: Tool for Pulmonary Embolism Intervention with RV Dysfunction

Alexander Warner, MD

EVI for Functional Limb Salvage in a Nonagenarian with CLTI

Erich Berberich

Comparative outcomes of Below-The-Knee atherectomy interventions: a report from the XLPAD Registry

Shalini Sharma

CLTI Salvage Following Deep Vein Arterialization

Alexandra Pixton

Limb Salvage After Right Ankle Fracture With Complicated Sequela: A Case Report

Brittney Western

Redo Endovascular Thoracoabdominal Aneurysm Repair in a Patient with Marfan's Disease

Zachary Rengel, MD

Regional Differences in Outcomes in Adults after Percutaneous Coronary Intervention for Stable Ischemic Heart Disease
Zafer Akman

LM quadrifurcation and LCX ostial CTO

Asmaa Elbagoury, MD

Real World Comparative Outcomes of Left main and Non-left Main Percutaneous Coronary Intervention

Minseob Jeong, MD

Temporal Trends in Organ Donation among Cardiac Arrest Patients Treated with Extracorporeal Cardiopulmonary Resuscitation

Despoina Koukousaki, MD

Comparison of in hospital outcomes of STEMI patients with cardiogenic shock receiving left ventricular mechanical circulatory support devices based on transfer status.

Mukunthan Murthi, MD

Coronary Revascularization Rates and Predictors in New-Onset Systolic Heart Failure

Kyeeun Park, MD

Clinical Outcomes with Intravascular Ultrasound versus Angiography-Guided PCI in Non-ST-Elevation Myocardial Infarction

Keshav Bhattar, MD

Two-Year Outcomes of Imaging-Guided Coronary Intervention to Angiography: A Robust Meta-Analysis on Effectiveness and Safety

Mustafa Turkmani, MD

Nourin-Dependent miRNAs: Novel Inflammatory Biomarkers For Early Identification of Unstable Angina Patients

Beshoy Yacoub

The dear price to salvage a catastrophe

Ahmad Abdelhamid, MD

Easy Job is not always a piece of cake

Mostafa Adam, MD

Outcomes of Intracoronary Brachytherapy for Drug-Eluting Stent In-Stent Restenosis

Muhammad Khalid

SVG to LAD occlusion causing STEMI. Two peas in a pod.

Beli Vasiliki

A Curious Case of Rapidly Progressive Coronary Artery Disease

David Makarious, MD

SCAD Of The LIMA Graft - A Cath Lab Nightmare

Vaibhav Satija, MD

Liberal versus conservative transfusion strategy for patients with acute myocardial infarction and anemia: A systematic review and meta-analysis

Fares Sukhon, MD

Efficacy And Safety Of TAVR Versus SAVR In Patients With Small Aortic Annuli: A Systematic Review And Meta-Analysis
Fares Sukhon, MD

Outcomes of Mitral Valve Transcatheter Edge-to-Edge Repair in Patients with Chronic Kidney Disease: A systematic Review and Meta-analysis

Ashraf Ahmed, MD

Efficacy and Safety of TAVR versus SAVR in patients with small aortic annuli - A systematic review and meta-analysis

Anas Al-suraimi, MD

Comparative Analysis of In-Hospital Outcomes Following Transcatheter Mitral Valve Replacement in Patients with Protein-Energy Malnutrition and Obesity

Olayiwola Bolaji, MD

Cardiogenic Shock Resulting From MitraClip Embolization: A Retrieval and Retrospective Review

Paul Gilbert, MD

Unveiling Demographic Disparities in Aortic Stenosis Mortality: An Analysis of Trends and Data Gaps in the United States

Mobeen Haider, MBBS

A systematic review and meta-analysis of quantitative angiographic assessment of aortic regurgitation with the Myval balloon-expandable valve

Elfatih Hasabo, MBBS

Impella, Intra-aortic Balloon Pump and ECMO: A Nationwide Overview of their Use and Outcomes in STEMI Patients with Cardiogenic Shock

Priya Hotwani, MD

Impact of 2nd Bioprosthesis Choice on Early Surgical Aortic Bioprosthetic Degeneration

Le Nguyen

Snaring Success Over An Arch Nemesis: Challenging Transcatheter Aortic Valve Delivery

Payton Kendsersky, MD

Successful Valve-in-Valve Transcatheter Aortic Valve Implantation for Early Degeneration of Previous Transcatheter Aortic Valve - case report

Rizwan Ali Khawaja, MD

To plug or not to plug? PFO related refractory hypoxemia following Aortic valve replacement

Sandeep Randhawa, MBBS

The Clashing Conundrum of Concomitant HOCM and PAH

Husam Shadid

Endovascular treatment of a patients presenting with atretic aortic coarctation

Mustafa Kursat Tigen

Importance of Brockenbrough - Braunwald - Morrow Sign in Differentiating Static Versus Dynamic Obstruction

Mobeen Haider, MBBS

Each case is given 8 minutes to present their case followed by 7 minutes of discussion with the panelists.

CENTENNIAL E

Tricuspid Regurgitation Therapy Retreat (TR²): Innovations and Cases

Moderator: Paul Sorajja, MD

Panelists: Richard Bae, MD; Scott Chadderdon, MD; Gagan Singh, MD; and Firas Zahr, MD

8:30	Ultimate Tricuspid Case (#1): ICE Saved the TEER Case	Nadira Hamid, MD
8:45	Ultimate Tricuspid Case (#2): My Most Difficult Transcatheter Case for 2024	Hursh Naik, MD
9:00	Ultimate Tricuspid Case (#3): Challenging Heterotopic Tricuspid Valve Replacement	Rishi Puri, MD
9:15	Ultimate Tricuspid Case (#4): Managing A Starbust of Coaptation Planes	Gagan Singh, MD
9:30	Ultimate Tricuspid Case (#5): No Option Tricuspid Valve Management	Firas Zahr, MD
9:45	Ultimate Tricuspid Case (#6): A Case of Surgical Innovation for Tricuspid Disease	Gorav Ailawadi, MD
10:00	Break	

Tricuspid Regurgitation Therapy Retreat (TR²): Innovations and Cases

Moderators: Nadira Hamind, MD and Firas Zahr, MD

Panelists: Moody Makar, MD; Paul Sorajja, MD; and Thomas Waggoner, MD

10:30	Ultimate Tricuspid Case (#7): Complex Transcatheter Tricuspid Repair	Brinder Kanda, MD
10:45	Ultimate Tricuspid Case (#8): Tricuspid Valve-in-valve Challenge	Seun Alli, MD
11:00	Ultimate Tricuspid Case (#9): A New Tricupsid Imaging Window	Richard Bae, MD
11:15	Ultimate Tricuspid Case (#10): Difficult Percutaneous Valve Replacement	Thomas Waggoner, MD
11:30	Ultimate Tricuspid Case (#11): Gratitude for Surgery	Steve Bolling, MD
11:45	Ultimate Tricuspid Case (#12): This Tricuspid Case Changed Me	Jonathan Schwartz, MD
12:00	Lunch Break	

Mitral Innovations and Cases

Moderators: Steve Bolling, MD and Adnan Chhatriwalla, MD

Panelists: Kimberly Holst, MD; Rishi Puri, MD; Lucy Safi, DO; and Anene Ukaigwe, MD

2:00	Ultimate Mitral Case (#1): My Ultimate Mitral Case for 2024	Mark Ricciardi, MD
2:15	Ultimate Mitral Case (#2): Rail and Success	Rahul P. Sharma, MBBS
2:30	Ultimate Mitral Case (#3): Advanced Imaging Changed The Mitral Management	Lucy Safi, DO
2:45	Ultimate Mitral Case (#4): Minimal Leaflet and Transcatheter Success	Kashish Goel, MD
3:00	Ultimate Mitral Case (#5): Neo-LVOT Maximation	Paul Sorajja, MD
3:15	Ultimate Mitral Case (#6): Challenging Valve-in-ring	Moritz Wyler von Ballmoos, MD, MPH, PhD
3:30	Break	

Ultimate Mitral Cases

Moderators: Sachin Goel, MD and Mark Ricciardi, MD

Panelists: Scott Chadderdon, MD; Marvin Eng, MD; Sarah Palmer, MD; and Rahul Sharma, MD

4:00	Ultimate Mitral Case (#7): Repair of Complex Mitral Pathology	Marvin Eng, MD
4:15	Ultimate Mitral Case (#8): Imaging for Difficult Transcatheter Mitral	Lucy Safi, DO
4:30	Ultimate Mitral Case (#9): I Wish I Were A Surgeon in This Transcatheter Case	Rahul Sharma, MD
4:45	Ultimate Mitral Case (#10): Neo-LVOT management	Scott Chadderdon, MD
5:00	Ultimate Mitral Case (#11): Another Boundary Crossed for Transcatheter Mitral Therapy	Anene Ukaigwe, MBBS
5:15	Ultimate Mitral Case (#12): A Simple Tip to Ease Mitral Pain	Sachin Goel, MD
5:30	Adjourn	

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Each case is given 8 minutes to present their case followed by 7 minutes of discussion with the panelists.

CENTENNIAL D

Masters Approach to Critical Limb Ischemia - Access & Crossing

Moderators: Subhash Banerjee, MD and Mehdi Shishehbor, DO, MPH, PhD

Panelists: Matthew Bunte, MD; Tony Das, MD; John Eidt, MD; Lawrence Garcia, MD; Chris Metzger, MD; Sameh Sayfo, MD; Peter Soukas, MD; and Shirling Tsai, MD

8:30	Case 1: Retro Pedal and Digital Access	Matthew Bunte, MD
8:45	Case 2: Contemporary R2P	Sameh Sayfo, MD
9:00	Live Endovascular Case: University Hospitals Harrington Heart & Vascular Institute	Jun Li, MD and Yulanka Castro, MD
10:00	Break	

Masters Approach to Critical Limb Ischemia - Advanced Technologies

Moderators: Chris Metzger, MD and Peter Soukas, MD

Panelists: Subhash Banerjee, MD; Tarek Hammad, MD; Sameh Sayfo, MD; and Nicolas Shammas, MD

10:30	Case 1: Laser	Tony Das, MD
10:45	Case 2: Orbital Atherectomy	Sameh Sayfo, MD
11:00	Case 3: IVL	Zach Rosol, MD
11:15	Case 4: Directional Atherectomy	Lawrence Garcia, MD
11:30	Case 5: CTO Devices	Subhash Banerjee, MD
11:45	Case 6: Specialty Balloons	Andrew Klein, MD
12:00	Lunch Break	

Novel Approaches to Revascularization

Moderators: Lawrence Garcia, MD and Mehdi Shishehbor, DO, MPH, PhD

Panelists: Tarek Hammad, MD; Bala Ramanan, MBBS; Siddhartha Rao, MD; and Peter Soukas, MD

2:00	Case 1: LSAC	Tarek Hammad, MD
2:15	Case 2: TADV	Lawrence Garcia, MD
2:30	Case 3: Off the Shelf TADV	Mehdi Shishehbor, DO, MPH, PhD
2:45	Case 4: PQ Bypass	Peter Soukas, MD
3:00	Case 5: Bioresorbable Stents	Sahil Parikh, MD
3:15	Case 6: BTK Drug Coated Balloons	Sahil Parikh, MD
3:30	Break	

Lower Extremity Arterial Thrombectomy

Moderators: Sameh Sayfo, MD and Shirling Tsai, MD

Panelists: Tarek Hammad, MD; Aravinda Nanjundappa, MBBS, MD; Bala Ramanan, MBBS; Zach Rosol, MD; and Joji Varghese, MD

4:00	Case 1: Pump Assisted Thrombectomy	William Yoon, MD
4:15	Case 2: Hydrodynamic Thrombectomy	Tarek Hammad, MD
4:30	Case 3: Pharmacomechanical Lysis	Aravinda Nanjundappa, MBBS, MD
4:45	Case 4: Thrombosed Bypass Graft	Sameh Sayfo, MD
5:00	Case 5: Balloon Pulmonary Angioplasty in CTEPH	Riyaz Bashir, MD
5:15	Case 6: Surgical Embolectomy	Bala Ramanan, MBBS
5:30	Adjourn	

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CENTENNIAL F

COMPLICATIONS Part 1: Acute Vessel Closure

Moderators: Timothy Henry, MD and John Messenger, MD

Panelists: Mazen Abu-Fadel, MD; Lorenzo Azzalini, MD; Mauricio Cohen, MD; Yader Sandoval, MD; Jeffrey Schussler, MD; and Arnold Seto, MD

8:30	Case 1 + Algorithm: Why did the Vessel Close?	Ashish Pershad, MD
8:45	Case 2: Dissection Rx Algorithm	Nkechinyere Ijioma, MBBS
9:00	Case 3: Thrombosis and Embolization Rx Algorithm	Timothy Mixon, MD
9:15	Case 4: Aortocoronary Dissection Algorithm	Saroj Neupane, MD
9:30	Case 5: I Lost the Branch Algorithm	Vladimir Dzavik, MD
9:45	Case 6: My Worst Vessel Occlusion Case	Tony Spaedy, MD
10:00	Break	

Complications Part 2: Perforation

Moderators: Farouc Jaffer, MD, PhD and Stephane Rinfret, MD

Panelists: Salman Allana, MD; Kevin Croce, MD, PhD; Jimmy Kerrigan, MD; John Lopez, MD; and Thuy Pham, DO

10:30	Case 1: Using the Perforation Algorithm	Allison Hall, MD
10:45	Case 2: Large Vessel Perforation: Covered Stents and More	Faisal Latif, MD
11:00	Case 3: Distal Vessel Perforation: Embolization and More	Farshad Forouzandeh, MD, PhD
11:15	Case 4: Collateral Perforation: How to Seal It	Ankur Gupta, MD, PhD
11:30	Case 5: Pericardiocentesis: The Optimal Technique	Kathleen Kearney, MD
11:45	Case 6: My Worst Perforation	Mir Basir, DO
12:00	Lunch Break	

Complications Part 3: Equipment Loss + Entrapment

Moderator: Mazen Abu-Fadel, MD and Anand Prasad, MD

Panelists: Konstantinos Charitakis, MD; Louis Kohl, MD; Katherine Kunkel, MD; and Jacqueline Tammis-Holland, MD

2:00	Case 1: I Lost a Stent	Poonam Velagapudi, MD
2:15	Case 2: Balloon Fracture / Entrapment	Thomas Tsai, MD
2:30	Case 3: Guidewire Fracture - Entrapment	Lorenzo Azzalini, MD
2:45	Case 4: Microcatheter Fracture + Entrapment	Ashish Pershad, MD
3:00	Case 5: Catheter Kinking + Entrapment	Mazen Abu-Fadel, MD
3:15	Case 6: Severe Radial Spasm	Andrew Klein, MD
3:30	Break	

Complications Part 4: Extracardiac Complications

Moderators: Dmitriy Feldman, MD and Dimitri Karpaliotis, MD

Panelists: Salman Arain, MD; Rajiv Gulati, MD; Judit Karacsonyi, MD; Manoj Kesarwani, MD; Timothy Mixon, MD; and Thuy Pham, DO

4:00	Case 1: Access Site Complications	Konstantinos Marmagkiolis, MD
4:15	Case 2: Systemic Embolization	Anand Prasad, MD
4:30	Case 3: Contrast-related Adverse Events	TBD
4:45	Case 4: Complication of Hemodynamic Support	Jeffrey Schussler, MD
5:00	Case 5: My Worst Complication	Mauricio Cohen, MD
5:15	Radiation Protection: Yes I Can!	Khaldoon Alaswad, MD
5:30	Adjourn	

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CENTENNIAL A

Complex Cases: Advanced Heart Failure Requiring Interventional Therapy

Moderators: Maya Guglin, MD and Marwan Jumean, MD

Panelists: Nima Aghili, MD; Rohit Amin, MD; Manreet Kanwar, MD; Rachna Khataria, MD; Ankitkumar Patel, MD; and Charles Resor, MD

8:30	State of the Art: Interventional Heart Failure	Navin Kapur, MD
8:45	Case 1: Biventricular TEER or Transplant?	Charles Resor, MD
9:00	Case 2: My LVAD is Failing. Now What?	Carlos Davila, MD
9:15	Case 3: Multivessel PCI with a 10% LVEF. Really?	Sandeep Nathan, MD
9:30	Case 4: PASP Equals AOSP in HFrEF. Options?	Ali Nsair, MD
9:45	Case 5: VA-ECMO in HFrEF and Lung Injury	Jason Bartos, MD, PhD
10:00	Break	

Complex Hemodynamics: Where Interventional and Heart Failure Intersect

Moderators: Manreet Kanwar, MD and Navin Kapur, MD

Panelists: Miguel Alvarez-Villela, MD; William Cornwell, MD; Srihari Naidu, MD; and James Udelson, MD

10:30	State of the Art: Advanced Cath Lab Hemodynamics	William Cornwell, MD
10:45	Case 1: Treatment of RV Failure in HFrEF	Stephen Hsu, MD
11:00	Case 2: Biventricular Effects of LV Unloading in HFrEF	Manreet Kanwar, MD
11:15	Case 3: Inter-atrial Shunts: Biatrial hemodynamics	James Udelson, MD
11:30	Case 4: Cardiac Preload Reduction for Heart Failure	Arvind Bhimiraj, MD
11:45	Case 5: VA-ECMO: Impact on Preload and Afterload	Imran Aslam, MD
12:00	Lunch Break	

Complex Cases: Acute MI and Cardiogenic Shock

Moderator: Marwan Jumean, MD and Navin Kapur, MD

Panelists: Spencer Liu, MD; Sandeep Nathan, MD; Youseff Rahban, MD; Karthik Ranganathan, MD; and Michael Yin, MD

2:00	State of the Art: Principles of AMI-Shock Management	Haroon Faraz, MD
2:15	Case 1: Anterior MI and Shock - 3 Level Escalation	Karthik Ranganathan, MD
2:30	Case 2: STEMI and Arrest -- eCPR Challenges	Navin Kapur, MD
2:45	Case 3: Stent Thrombosis in AMI-Shock	Colin Hirst, MD
3:00	Case 4: VA-ECMO and AMI-Shock in the USA	Raj Patel, MD
3:15	Case 5: AMI-Shock without Native Heart Recovery	Nima Aghili, MD
3:30	Break	

Complex Cases: Advanced Heart Failure and Cardiogenic Shock

Moderators: Marisa Cevasco, MD and Shelley Hall, MD

Panelists: Nima Aghili, MD; Navin Kapur, MD; Duc Thinh Pham, MD; Sunu Thomas, MD; and Michael Yin, MD

4:00	State of the Art: Principles of HF-Shock Management	Jaime Hernandez-Montfort, MD
4:15	Case 1: Tissue is the Issue: Biopsy on VA-ECMO	Nikolaos Diakos, MD, PhD
4:30	Case 2: Heart Recovery and Brain Death with E-CPR	Navin Kapur, MD
4:45	Case 3: LV Unloading with ECMO as a Bridge to Myocardial Recovery	Shelley Hall, MD
5:00	Case 4: Post-Transplant Acute Cardiogenic Shock	Ali Nsair, MD
5:15	Case 5: Triple Escalation & De-Escalation in HF-Shock	Mohit Pahuja, MD
5:30	Adjourn	

NOTE: All presentations are in Mountain Time (MT)

Each competitor is given 5 minutes to present their case followed by 5 minutes of Q&A by the panelists.

Challenging Case Competition: Coronary Semifinals 1

MINERAL HALL D

Moderators: Konstantinos (Dean) Boudoulas, MD and Rhian Davies, DO

Panelists: Mir Basir, DO; Cihan Cevik, MD; Manoj Kesarwani, MD; Sam Mehta, MD; Thuy Pham, DO; and Jacqueline Tamis-Hollnad, MD

8:30	The many faces of Covid-19	<i>Vasileios Bolis</i>
8:40	A Kink in Diagnostic Coronary Angiography: When Radial Access Becomes Complicated	<i>Andrew Hill, MD</i>
8:50	Weighing percutaneous intervention options of enlarging anastomosis of vein graft to the aorta	<i>Matthew Bruner, MD</i>
9:00	The Chipshot RCA? Not so Fast...	<i>Ali Hasnie, MD</i>
9:10	A case of very late stent thrombosis in a patient with SARS-CoV-2	<i>Evangelia Kalampoki</i>
9:20	The dear price to salvage a catastrophe	<i>Ahmad Abdelhamid, MD</i>
9:30	First in Human Use of a Cerebral Flow Diverting Stent in a Large Coronary Aneurysm	<i>Chintan Patel, MD, MPH</i>
9:40	Acute MI in LVAD patients: role of coronary angiography	<i>Avantika Banerjee, MD</i>
9:50	Together we make a difference	<i>Rafik Ibrahim, MD</i>
10:00	Break	

Challenging Case Competition: Coronary Semifinals 2

Moderators: Anand Prasad, MD and Olga Toleva, MD

Panelists: Amer Alaiti, MD; Nkechinere Ijioma, MBBS; Louis Kohl, MD; Konstantinos Marmagkiolis, MD; and Thomas Tsai, MD

10:30	Refractory Left main coronary vasospasm in a male patient undergoing gender transition	<i>Karthikeyan Ranganathan, MD</i>
10:40	All roads lead to RCA, multi-approach in CTO PCI	<i>Ahmed Kamal, MD</i>
10:50	Three in one	<i>Mahmoud Elrayes, MD</i>
11:00	This is not the whole story, my abdomen hurts me!!	<i>Moataz Mahmoud, MD</i>
11:10	Never celebrates so early	<i>George Shenoda, MD</i>
11:20	Size Matters: Use of a Peripheral Arterial Stent in a Severely Ectatic Right Coronary Artery	<i>Chirag Buch, MD</i>
11:30	“Just Marker” Technique via an Occluded SVG to solve Complex CTO	<i>Raj Chandwaney, MD</i>
11:40	Pumping the breaks. Careful consideration when accelerating mechanical support	<i>Matthew Bruner, MD</i>
11:50	The first step may lead to catastrophe	<i>Mohamed Alam, MD</i>
12:00	Lunch Break	

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Each competitor is given 5 minutes to present their case followed by 5 minutes of Q&A by the panelists.

Challenging Case Competition: Coronary Semifinals 3

MINERAL HALL D

Moderators: Farshad Forouzandeh, MD and John Messenger, MD

Panelists: Amirali Masoumi, MD; Timir Paul, MD; Paul Poommipanit, MD; and Jeffrey Schussler, MD

2:00	Bilateral Papillary Muscle Rupture	<i>Fawzi Zghyer, MD</i>
2:10	Recurrent, Isolated Left Main Coronary Artery Stenosis in a Young Female	<i>Brianna Skaff</i>
2:20	Left Main Revascularization in Turner's Syndrome	<i>Harrison Taylor, MD</i>
2:30	Heavily calcified LAD lesion - when nothing crosses!! What to do next	<i>Abhinav Chhabra, MD</i>
2:40	Giant Coronary Aneurysm Due to Behçet's Disease	<i>Zafer Sattouf, MD</i>
2:50	When all enemies agree together to trouble you	<i>Mostafa Adam, MD</i>
3:00	VA-ECMO upgrade to LAVA-ECMO in a novel fashion	<i>Arturo Ruiz-Beltran, MD</i>
3:10	Breaking New Ground: Successful PCI Revascularization Post Coiled Embolization in Coronary Perforation	<i>Fares Sukhon, MD</i>
3:20	A backwards kick for RCA CTO	<i>Michael Gergis, MSc, MD</i>
3:30	Break	

Challenging Case Competition: Coronary Semifinals 4

Moderators: Allison Hall, MD and Daniel Kolansky, MD

Panelists: Cihan Cevik, MD; Konstantinos Charitakis, MD; Vladimir Dzavik, MD; Faisal Latif, MD; and Tony Spaedy, MD

4:00	Trissing with Ping Pong Technique in retrograde CTO with all the tricks	<i>Ahmad Awad, MD</i>
4:10	IVUS-Guided PCI for LMCA Obstruction Due to Lung Tumor Mass Compression	<i>Cihan Civek, MD</i>
4:20	The perfect storm	<i>Ahmed Elborae, MD</i>
4:30	An unpleasant surprise after aggressive stent post-dilatation	<i>Iosif Xenogiannis, MD, PhD</i>
4:40	Coronary Double Dilemma	<i>Zaid Al jebaje, MD</i>
4:50	Swinging in the Breeze - Distortion and migration of LAD stent	<i>Mohammad Ali, MD</i>
5:00	"A Slew of Silver-linings": Navigating a Complex Case of Coronary Perforation & Bifurcation Stenting	<i>Abhinav Aggarwal, MD</i>
5:10	Narrow escape from death	<i>Asim Ali, MD</i>
5:20	High Risk PCI with the Novel Self-Expanding Supira pVAD	<i>Tai Pham, MD</i>
5:30	Adjourn	

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CENTENNIAL E

Aortic Innovations and Cases

Moderators: Philippe Généreux, MD and Moritz Wyler von Ballmoos, MD, PhD, MPH
Panelists: Adnan Chhatriwalla, MD; Vijay Iyer, MD; Sarah Palmer, MD; and Steven Yakubov, MD

8:30	Ultimate Aortic Case (#1): Complex AR Management	Nicholas Amoroso, MD
8:45	Ultimate Aortic Case (#2): Malposition Management and Optimization	William Shi, MD, PhD
9:00	Ultimate Aortic Case (#3): Complicated Bi-Basilica Success	Paul Mahoney, MD
9:15	Ultimate Aortic Case (#4): Ultimate Fracturing	Adnan Chhatriwalla, MD
9:30	Ultimate Aortic Case (#5): Adverse TAVR and Surgery	Sarah Palmer, MD
9:45	Ultimate Aortic Case (#6): Technical Discovery in TAVR	Guiherme Attizzani, MD
10:00	Break	

Ultimate Aortic Cases

Moderators: Rahul P. Sharma, MBBS and Steven Yakubov, MD
Panelists: Paul Mahoney, MD; Vivian Ng, MD; Sarah Palmer, MD; and Bruce Rutkin, MD

10:30	Ultimate Aortic Case (#7): A Case of a Poor Coronary Risk Plane	Philippe Généreux, MD
10:45	Ultimate Aortic Case (#8): Landing Zone Optimization for TAVR	Philippe Généreux, MD
11:00	Ultimate Aortic Case (#9): TAVR in TAVR Success or Failure	Vijay Iyer, MD
11:15	Ultimate Aortic Case (#10): Malposition Management and Optimization	Bruce Rutkin, MD
11:30	Ultimate Aortic Case (#11): Tricuspidization for a Bicuspid Valve	Rahul Sharma, MD
11:45	Ultimate Aortic Case (#12): Surgery Was Better for This Patient	Srinivas Iyengar, MD
12:00	Lunch Break	

Left Atrial Appendage Closure Innovations and Cases

Moderators: Devi Nair, MD and Rahul P. Sharma, MBBS
Panelists: Nadira Hamid, MD; Konstantinos Koulogiannis, MD; and Vivian Ng

2:00	Ultimate Closure Case (#1): Challenging LAAC Closure	Clifford Kavinsky, MD, PhD
2:15	Ultimate Closure Case (#2): Leak Management for LAAC	Nadira Hamid, MD
2:30	Ultimate Closure Case (#3): LAAC Device Fit or MisFit	Nadira Hamid, MD
2:45	Ultimate Closure Case (#4): Choices and LAAC Success	Dhanunjaya Lakkireddy, MD
3:00	Ultimate Closure Case (#5): A New Technical Boundary Crossed with LAAC	Muhamed Saric, MD
3:15	Ultimate Closure Case (#6): My New Technique in LAAC Closure for 2024	Jason Rogers, MD
3:30	Break	

Ultimate LAAC Cases

Moderators: Steven Filby, MD; Dhanunjaya Lakkireddy, MD; and Jason Rogers, MD
Panelists: Nadira Hamid, MD; Moody Makar, MD; Devi Nair, MD; and Muhammed Saric, MD

4:00	Ultimate Closure Case (#7): Which LAAC Device Works Here?	Muhammed Saric, MD
4:15	Ultimate Closure Case (#8): LAAC Thrombosis Management	Vivian Ng, MD
4:30	Ultimate Closure Case (#9): LACC Retrieval Made Easy	Devi Nair, MD
4:45	Ultimate Closure Case (#10): Imaging Saved This LAAC Procedure	Shirling Tsai, MD
5:00	Ultimate Closure Case (#11): LAAC Placed, What Next?	Vivian Ng, MD
5:15	Ultimate Closure Case (#12): My Most Difficult LAAC Case	Steven Filby, MD
5:30	Adjourn	

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CENTENNIAL D

Venous Disease

Moderators: Karem Harth, MD and Raghu Kolluri, MD

Panelists: Teresa Carman, MD; Christopher Huff, MD; Michael Jolly, MD; Mahmood Razavi, MD; and Nicolas Shammam, MD

8:30	Case 1: Lower Extremity Edema	<i>Teresa Carman, MD</i>
8:45	Case 2: May Turner Syndrome	<i>Mahmood Razavi, MD</i>
9:00	Case 3: Endovenous Ablation	<i>Raghu Kolluri, MD</i>
9:15	Case 4: Mechanical Therapy for Acute DVT	<i>Karem Harth, MD</i>
9:30	Case 5: Chronic IVC Occlusion	<i>Christopher Huff, MD</i>
9:45	Case 6: Difficult IVC Filter Retrieval	<i>Michael Jolly, MD</i>
10:00	Break	

Pulmonary Embolism

Moderators: Jun Li, MD and Parag Patel, MD

Panelists: Matthew Bunte, MD; Tarek Hammad, MD; Samuel Horr, MD; Christopher Huff, MD; and Brian Stegman, MD

10:30	Case 1: Acute PE: Failed Pharmaco-Mechanical Lysis	<i>Yulanka Castro, MD</i>
10:45	Case 2: Acute PE: Failed Mechanical Thrombectomy	<i>Tarek Hammad, MD</i>
11:00	Case 3: Acute PE: Failed Systemic Lysis	<i>Samuel Horr, MD</i>
11:15	Case 4: Novel Devices for PE	<i>Jun Li, MD</i>
11:30	Case 5: Mechanical Support in PE	<i>Yulanka Castro, MD</i>
11:45	Case 6: Clot in Transit and Vegetomy	<i>Mehdi Shishehbor, DO, MPH, PhD</i>
12:00	Lunch Break	

Aortoiliac and Common Femoral Artery Revascularization

Moderators: Subhash Banerjee, MD and Christopher Huff, MD

Panelists: Dmitriy Feldman, MD; Bala Ramanan, MBBS; Sanjum Sethi, MD; Yoshimitsu Soga, MD, PhD; and Peter Soukas, MD

2:00	Case 1: Surgical Approach to Aortoiliac Occlusive Disease	<i>Shirling Tsai, MD</i>
2:15	Case 2: Endovascular Approach to Aortoiliac Occlusive Disease	<i>Yoshimitsu Soga, MD, PhD</i>
2:30	Case 3: Surgical Approach to Common Femoral Artery Disease	<i>Bala Ramanan, MBBS</i>
2:45	Case 4: Endovascular Approach to Common Femoral Artery Disease	<i>Andrew Klein, MD</i>
3:00	Case 5: Hybrid Approach to Iliac and CFA Disease	<i>Javier Vasquez, MD</i>
3:15	Case 6: Extreme Aortoiliac Calcification	<i>Chris Metzger, MD</i>
3:30	Break	

Femopop Revascularization

Moderators: Mehdi Shishehbor, DO, MPH, PhD and Shirling Tsai, MD

Panelists: Herbert Aronow, MD, MPH; Rafey Feroze, MD; Andrew Klein, MD; and Chris Metzger, MD

4:00	Case 1: Femopop Revascularization	<i>Sanjum Sethi, MD</i>
4:15	Case 2: Popliteal CTO	<i>Herbert Aronow, MD, MPH</i>
4:30	Case 3: In-stent Occlusion and Fracture	<i>Subhash Banerjee, MD</i>
4:45	Case 4: Occluded Bypass	<i>Shirling Tsai, MD</i>
5:00	Case 5: Non-dilatatable SFA/POP Lesion	<i>Zach Rosol, MD</i>
5:15	Case 6: Facilitated Re-entry	<i>Dimitry Feldman, MD</i>
5:30	Adjourn	

NOTE: All presentations are in Mountain Time (MT)

Each case is given 8 minutes to present their case followed by 7 minutes of discussion with the panelists.

CENTENNIAL F

CHIP Part 1: Calcium + Tortuosity

Moderators: Khaldoon Alaswad, MD and Farouc Jaffer, MD

Panelists: Salman Arain, MD; Konstantinos (Dean) Boudoulas, MD; Katherine Kunkel, MD; Saroj Neupane, MD; Robert Stoler, MD; and Poonam Velagapudi, MD

8:30	Case 1: Balloon Uncrossable	<i>Konstantinos Charitakis, MD</i>
8:45	Case 2: Balloon Undilatable (de novo) - the SCAI Algorithm	<i>Ankur Gupta, MD</i>
9:00	Case 3: Balloon Undilatable (in-stent)	<i>Evan Shlofmitz, MD</i>
9:15	Case 4: Calcified Nodule	<i>Yader Sandoval, MD</i>
9:30	Case 5: The Tortuous Artery	<i>Robert Stoler, MD</i>
9:45	Case 6: Super Calcium	<i>Amer Alaiti, MD</i>
10:00	Break	

CHIP Part 2: Physiology + Imaging

Moderators: William Fearon, MD and Arnold Seto, MD

Panelists: Amer Alaiti, MD; Kevin Croce, MD, PhD; Darshan Doshi, MD; Srinu Potluri, MD; Yader Sandoval, MD; and Olga Toleva, MD

10:30	Case 1: Physiology Saves the Day	<i>Arnold Seto, MD</i>
10:45	The Future of Intravascular Physiology	<i>William Fearon, MD</i>
11:00	Case 2: CCTA for Planning PCI	<i>Yader Sandoval, MD</i>
11:15	The Future of Intravascular Imaging	<i>Evan Shlofmitz, DO</i>
11:30	Case 3: MINOCA-ANOCA	<i>Olga Toleva, MD</i>
11:45	The Future of Intravascular Imaging: Beyond IVUS and OCT	<i>Farouc Jaffer, MD</i>
12:00	Lunch Break	

CHIP Part 3: CTOs

Moderators: Stephane Rinfret, MD

Panelists: Salman Allana, MD; Ankur Gupta, MD, PhD; Allison Hall, MD; Jaikirshan Khatri, MD; Katherine Kunkel, MD; and Paul Poommipanit, MD

2:00	Year in Review: CTO PCI Publications	<i>Lorenzo Azzalini, MD, PhD</i>
2:15	CTO Case 1	<i>Darshan Doshi, MD</i>
2:30	CTO Case 2	<i>Katherine Kunkel, MD</i>
2:45	CTO Case 3	<i>Perwaiz Meraj, MD</i>
3:00	CTO Case 4	<i>Rhian Davies, DO</i>
3:15	CTO Case 5	<i>Salman Arain, MD</i>
3:30	Break	

CHIP Part 4: Challenging Subgroups

Moderators: Emmanouil Brilakis, MD, PhD and Rajiv Gulati, MD

Panelists: Cihan Cevik, MD; Rhian Davies, DO; Vladimir Dzavik, MD; and Nkechinyere Ijioma, MD

4:00	Case 1: PCI in a TAVR Patient	<i>Konstantinos Voudris, MD</i>
4:15	Case 2: SCAD	<i>Rajiv Gulati, MD</i>
4:30	Case 3: Bypass Graft	<i>Kendrick Shunk, MD, PhD</i>
4:45	Case 4: In-Stent Restenosis	<i>Salman Allana, MD</i>
5:00	Case 5: Left Main Lesion	<i>Srinu Potluri, MD</i>
5:15	Case 6: Anomalous Coronary Artery	<i>John Lopez, MD</i>
5:30	Adjourn	

NOTE: All presentations are in Mountain Time (MT)

Each case is given 7 minutes to present their case followed by 5 minutes of discussion with the panelists.

CENTENNIAL A

Abdominal Aorta

Moderators: Daniel Han, MD

Panelists: Karan Garg, MD; Raghu Motaganahalli, MD; Apostolos Tassiopoulos, MD; Lauren Westcott, MD; and Max Wohlauer, MD

8:30	Hostile Iliac Access: How to Overcome?	Daniel Han, MD
8:42	Endovascular Recanalization for Aortic Occlusion: What was I Thinking?	Karan Garg, MD
8:54	Shape Memory for the Management of Endoleaks and Improved AAA Sac Remodeling	Raghu Motaganahalli, MD
9:06	Management of Aortic Aneurysm with Shaggy Aorta	Jae Cho, MD
9:18	EVAR with Endoanchors for Short Neck: Tips and Tricks	Apostolos Tassiopoulos, MD
9:30	New Updates on How to Reduce Radiation Exposure	Lauren Westcott, MD
9:42	Abdominal Compartment Syndrome: How to Avoid and Manage	Max Wohlauer, MD
10:00	Break	

Ascending Aorta and Arch

Moderators: Adam Beck, MD and Charles Roberts, MD

Panelists: Fernando Fleischman, MD; Himanshu Patel, MD; Carlos Timaran, MD; Shahab Toursavadkahi, MD; and Javier Vasquez, MD

10:30	Acute TAAD with Mesenteric Ischemia: What do we do?	Himanshu Patel, MD
10:42	My First Endo Bentall	Shahab Toursavadkahi, MD
10:54	The Role of Dissection Stent in TAAD	Fernando Fleischman, MD
11:06	Total Aortic Arch Reconstruction with Hybrid Graft	Charles Roberts, MD
11:18	Endovascular Aortic Arch Debranching	Javier Vasquez, MD
11:30	Septectomy: Don't Try This at Home	Carolos Timaran, MD
11:42	Adjunctive Procedures for Arch TEVAR: Laser, Parallel Grafting, PMEG	Adam Beck, MD
12:00	Lunch Break	

Aortic Potpourri

Moderators: James Black, MD and John Eidt, MD

Panelists: Guillermo Escobar, MD; Mazin Foteh, MD; Erica Mitchell, MD; and Ben Starnes, MD

2:00	What is New with Blunt Traumatic Aortic Dissection	Erica Mitchell, MD
2:12	The Tragedies of Life are Largely Arterial	James Black, MD
2:24	Non-Operative Management of Aortic Infection	Guillermo Escobar, MD
2:36	Endovascular Management of Arch Lesions with Dual Branch Arch Device	Sean Crawford, MD
2:48	PETTICOAT, KNICKERBOCKER AND STABILISE: When to do What?	John Eidt, MD
3:00	The New Paracigm in Aortic Surgery	Benjamin Starnes, MD
3:12	How I do PMEG Without an IDE	Mazin Foteh, MD
3:30	Break	

Thoracoabdominal Aorta

Moderators: Jae Cho, MD and John Eidt, MD

Panelists: Sukgu Han, MD; Amit Jain, MD; Robert Rhee, MD; Hazin Safi, MD; Naveed Saqib, MD; Mel Sharafuddin, MD; and William Yoon, MD

4:00	Open Conversion for Failed TEVAR: Pitfalls, Tips and Tricks	Naveed Saqib, MD
4:12	Downstaging Extent II TAAA : Tips and Tricks	Amit Jain, MD
4:24	Periscope Sandwich Stenting of Left Subclavian Artery Zone 2 TEVAR	Sukgu Han, MD
4:36	How to Optimise False Lumen Remodeling After TEVAR for Chronic TBAD: Candy Plug	Mel Sharafuddin, MD
4:48	Spinal Cord Protection During Thoracoabdominal Aortic Repair	Hazin Safi, MD
5:00	Transfemoral Thoracoabdominal Aortic Endovascular Repair: No Arm Access Needed	William Yoon, MD
5:12	The Evolution, Economic, and Practicality of Complex Aortic Endovascular Interventions: Are We Heading in the Right Direction?	Robert Rhee, MD
5:30	Adjourn	

NOTE: All presentations are in Mountain Time (MT)

Each competitor is given 5 minutes to present their case followed by 5 minutes of Q&A by the panelists.

Challenging Case Competition: Peripheral Semifinals 1

MINERAL HALL D

Moderators: Lawrence Garcia, MD and Aravinda Nanjundappa, MBBS, MD

Panelists: Mahesh Anantha Narayanan, MD; Bailey Estes, MSN; Rafey Feroze, MD; Jun Li, MD; Sameh Sayfo, MD; Shirling Tsai, MD; and Joji Varghese, MD

8:30	Ascending Aortic Aneurysm Treated with Conformable Thoracic Stent Graft	Hassan Ashraf, MD
8:40	Extracorporeal Mechanical Support during Cardiopulmonary Resuscitation followed by Aspiration Thrombectomy in Massive Pulmonary Embolism	Luay Alalawi, MD
8:50	Embracing the Unpredictable: Management of iatrogenic popliteal artery aneurysm with endovascular approach	Deepakraj Gajanana, MD
9:00	Successful Open Repair of Syphilitic Thoracoabdominal Aneurysm	Franklin Farid, MD
9:10	Left Subclavian Dissection after Transfemoral TAVR with Prior CABG	Katherine Lutz, MD
9:20	An Innovative Technique for removal of IVC Filter embedded in the caval wall	Mishita Goel, MD
9:30	Staged Repair of Thoracic Aneurysm Complicated by Dissection	Anne Kelly Rhudy, MD
9:40	Advanced Endovascular Techniques in Complex Renal Artery Stenosis	Zaid Abood, MD
9:50	An Unusual Case Of Honeycomb Vasculature In The Periphery - Using Angioplasty To Take The Sting Out Of CLI	Meera Kapadia, MD
10:00	Break	

Challenging Case Competition: Peripheral Semifinals 2

Moderators: Lawrence Garcia, MD; and Nicolas Shammass, MD

Panelists: Mazen Abu-Fadel, MD; Matthew Bunte, MD; Bailey Estes, MSN; Rafey Feroze, MD; Siddhartha Rao, MD; and Zach Rosol, MD

10:30	Superior Vena Cava Angiosarcoma Biopsied using the INARI FlowTriever	Nawaf Alhabdan, MD
10:40	A Case of Inadvertent Femoral Artery Cannulation Presenting with Large Groin Hematoma and Hemorrhagic Shock	Felicia Ourn, MS, DO
10:50	Successful navigation of total occlusion using ipsilateral transpedal approach	Albert Annan, MD
11:00	A deadly enemy lurking in the shadows	Vasileios Bolis
11:10	Addressing Pseudoaneurysm of the Ascending Aorta with pericardial tamponade by Pericardiocentesis and Endovascular Aortic Repair	Prakash Upreti, MD
11:20	Coronary Subclavian Steal Syndrome in CABG patient	Asseel Al-Bayati, MD
11:30	Innovate drug eluting balloon angioplasty for surgical deep vein anastomosis of right internal jugular vein to right atrium	Deepakraj Gajanana, MD
11:40	Lucas to the Rescue: Maintaining Flow for ECMO Support in Myocarditis	Kanwar Singh, MD
11:50	Save the Brain and the Heart: Laser Fenestration of Thoracic Endograft for Ruptured Thoracic Aneurysm	Anne Kelly Rhudy, MD
12:00	Lunch Break	

NOTE: All presentations are in Mountain Time (MT)

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Challenging Case Competition: Structural Semifinals 1 MINERAL HALL D
Moderators: Kashish Goel, MD and Bruce Rutkin, MD
Panelists: Edoardo Zancanaro, MD

2:00	Delayed Hemorrhagic Pericardial Effusion Following Percutaneous Left Atrial Appendage Occlusion	<i>Nawaf Alhabdan, MD</i>
2:10	A rare cause of exertional chest pain and dyspnea: Coronary-cameral fistula	<i>Roshan Bista</i>
2:20	Pacing lead extraction from hepatic vein	<i>Rajeev Bhardwaj, MD</i>
2:30	Transseptal Balloon Assisted Translocation of Mitral Anterior Leaflet (BATMAN) for TMVR (Valve in MAC)	<i>Jai Parekh, MD</i>
2:40	A Challenging Case of Leaflet Laceration Using "Percutaneous Balloon Valvotomy": Utilizing UNICORN (Undermining Coronary Obstruction with Radiofrequency Needle ablation) for TAVR in TAVR	<i>Mohammed Salih, MD</i>
2:50	TAVR valve migration with acute cardiogenic shock	<i>Vaibhav Satija, MD</i>
3:00	Percutaneous Removal of Obstructing Right Atrial Mass	<i>Sydney Power</i>
3:10	Commisural malalignment of degenerated surgical prosthesis and risk of coronary occlusion following TAVR: implications for BASILICA and coronary protection	<i>Ahsan Ali, MD</i>
3:20	TAVR is not an option, but it's the only option.	<i>Boshra Louka, MD</i>
3:30	Break	

Challenging Case Competition: Structural Semifinals 2
Moderators: Brinder Kanda, MD and Konstantinos Voudris, MD
Panelists: Edoardo Zancanaro, MD

4:00	My Worst TMVR Complication: a case of valve-in-MAC complicated by late migration	<i>Karla Asturias, MD</i>
4:10	Which way up?: Challenging TAVR access in a patient with severe PAD and EVAR in EVAR	<i>Sandeep Randhawa, MD</i>
4:20	Ascending aortic dissection after transcatheter aortic valve replacement treated percutaneously with an endovascular stent graft	<i>Kylie Adamek</i>
4:30	Entrapped, Undeployed, Prepositioned Left Main Coronary Artery Stent in a Patient Undergoing Transcatheter Aortic Valve Implantation: A Case Report	<i>Florimond Joseph M. Garcia Jr., M.D</i>
4:40	Shockwave-Assisted LAMPOON	<i>Charlene Rohm, MD</i>
4:50	Novel Use of the ONO Retrieval System for a Ruptured Balloon Tip	<i>Mohamed Zghouzi, MD</i>
5:00	In the Face of Adversity: TAVI, BASILICA, and LM Rescue	<i>Asim Ali, MD</i>
5:10	WATCH This: Percutaneous Retrieval and Replacement of a Dislodged Left Atrial Appendage Occluder	<i>Rahul Sawhney, DO</i>
5:20	TAV in TAV in TAV in SAV: How many Bioprosthetic valves will fit?	<i>Wally Omar, MD</i>
5:30	Adjourn	

NOTE: All presentations are in Mountain Time (MT)

Each case is given 8 minutes to present their case followed by 7 minutes of discussion with the panelists.

Hail Mary & Compassionate Use Case Symposium

CENTENNIAL E

Moderators: Paul Sorajja, MD
Panelists: Kashish Goel, MD and Chad Kliger, MD

8:30	Hail Mary and Compassionate Use Case (#1)	<i>Kashish Goel, MD</i>
8:45	Hail Mary and Compassionate Use Case (#2)	<i>Konstantinos Koulogiannis, MD</i>
9:00	Hail Mary and Compassionate Use Case (#3)	<i>Jamie McCabe, MD</i>
9:15	Hail Mary and Compassionate Use Case (#4)	<i>Kashish Goel, MD</i>
9:30	Hail Mary and Compassionate Use Case (#5)	<i>Bruce Rutkin, MD</i>
9:45	Hail Mary and Compassionate Use Case (#6)	<i>Chad Kliger, MD</i>
10:00	Break	

Ultimate Structural Cases

Moderators: Jason Rogers, MD and Paul Sorajja, MD
Panelists: Jamie McCabe, MD and Abdallah El Sabbagh, MD

10:30	Ultimate Structural Case (#1): Pseudoaneurysm Closure	<i>Abdallah El Sabbagh, MD</i>
10:45	Ultimate Structural Case (#2): Rails Are Not Just For Trains	<i>Yashasvi Chugh, MD</i>
11:00	Ultimate Structural Case (#3): All Roads Lead to Rome	<i>Harsh Golwala, MD</i>
11:15	Ultimate Structural Case (#4): What and How to Close this Defect?	<i>Wally Omar, MD</i>
11:30	Ultimate Structural Case (#5): Plugs and Defects	<i>Mark Ricciardi, MD</i>
11:45	Ultimate Structural Case (#6): Mother of all Structural Challenges	<i>Konstantinos Voudris, MD</i>
12:00	Lunch Break	

Fundamentals of Wound Care

CENTENNIAL D

Moderators: Brian Lepow, DPM and Michael Maier, DPM
Panelists: Teresa Carman, MD; Craig Frey, DPM; Raghu Kolluri, MD; Siddhartha Rao, MD; and Joji Varghese, MD

8:30	Case 1: Non-healing Arterial Wound	<i>Michael Maier, DPM</i>
8:45	Case 2: Non-healing venous wound	<i>Teresa Carman, MD</i>
9:00	Case 3: Option for No-Option CLTI	<i>Siddhartha Rao, MD</i>
9:15	Case 4: Wound Care Post-DVA	<i>Brian Lepow, MD</i>
9:30	Case 5: Real World Application of WIFI Classification	<i>Bailey Estes, MSN</i>
9:45	Case 6: Quantifying Wounds	<i>Raghu Kolluri, MD</i>
10:00	Break	

Innovation in Vascular Intervention

Moderators: Subhash Banerjee, MD and Mehdi Shishehbor, DO, MPH, PhD
Panelists: Lawrence Garcia, MD; Karem Harth, MD; Jun Li, MD; and Sanjum Sethi, MD

10:30	Case 1: Renal Denervation	<i>Robert Stoler, MD</i>
10:45	Case 2: Bioresorbable Stents	<i>Sanjum Sethi, MD</i>
11:00	Case 3: Next Gen DVT Devices	<i>Karem Harth, MD</i>
11:15	Case 4: ASCs for Limb Salvage	<i>Lawrence Garcia, MD</i>
11:30	Case 5: Sirloimus Drug Delivery	<i>Aloke Finn, MD</i>
11:45	Case 6: Novel Devices for Chronic Venous Interventions	<i>Chadi Dib, MD</i>
12:00	Adjourn	

NOTE: All presentations are in Mountain Time (MT)

Each case is given 8 minutes to present their case followed by 7 minutes of discussion with the panelists.

The Future Part 1: Beyond PCI

CENTENNIAL F

Moderators: David Kandzari, MD and Jacqueline Tamis-Holland, MD

Panelists: Salman Allana, MD; Joseph Hill, MD; Timothy Henry, MD; Payal Kohli, MD; Srihari Naidu, MD; and Sunil Rao, MD

8:30	Lipid Lowering: When + How in 2024	<i>Payal Kohli, MD</i>
9:00	How to Prevent and Treat Burnout	<i>Michaela Alexandrou, MD</i>
9:15	Social Media: When to Use and How in 2024	<i>Chadi Alraies, MD</i>
9:30	Year in Review: Circulation Interventions	<i>Sunil Rao, MD</i>
9:45	Year in Review: Circulation	<i>Joseph Hill, MD</i>
10:00	Break	

The Future Part 2: PCI and Beyond

Moderators: William Fearon, MD and Timothy Henry, MD

Panelists: Chadi Alraies, MD; Mauricio Cohen, MD; Allison Hall, MD; Nkechinyere Ijioma, MBBS; Srihari Naidu, MD; and Thuy Pham, DO

10:30	Should We Stent Intermediate Lesions to PREVENT Future Events?	<i>Salman Allana, MD</i>
10:45	STEMI Management: Present and Future	<i>Jacqueline Tamis-Holland, MD</i>
11:00	DCB: Present + Future	<i>Michael Megaly, MD</i>
11:15	Severe Angina + Unable to Revascularize	<i>Timothy Henry, MD</i>
11:30	The Future of Shock Management	<i>Srihari Naidu, MD</i>
11:45	Beyond PCI: Coronary Denervation	<i>David Kandzari, MD</i>
12:00	Adjourn	

CARDIOVASCULAR INNOVATIONS CASE COMPETITION FINALS

Each competitor is given 5 minutes to present their case followed by 5 minutes of Q&A by the panelists.

Moderators: Allison Hall, MD and Jacqueline Tamis-Holland

Panelists: Subhash Banerjee, MD; Emmanouil Brilakis, MD, PhD; Mehdi Shishehbor, DO, MPH, PhD; and Paul Sorajja, MD

CENTENNIAL F

12:15	Case 1: Coronary
12:25	Case 2: Coronary
12:35	Case 3: Coronary
12:45	Case 4: Coronary
12:55	Case 1: Peripheral
1:05	Case 2: Peripheral
1:15	Case 1: Structural
1:25	Case 2: Structural
1:35	Awards Presentation
1:40	Adjourn



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