

# JULY 17, 2019

## COMPLICATIONS COURSE

ROOM: CENTENNIAL FGH

### WEDNESDAY, JULY 17

#### Coronary Complications Part 1

Moderators: Emmanouil Brilakis, MD, PhD; William Lombardi, MD

8:30	<b>Acute Vessel Closure</b> <i>Thomas Tsai, MD, MSc</i>
8:38	<b>Panel Discussion</b> <i>Mazen Abu-Fadel, MD; Jaikirshan Khatri, MD; Perwaiz Meraj, MD; Yader Sandoval, MD; Catalin Toma, MD</i>
8:45	<b>Perforation: step by step treatment</b> <i>Minh Vo, MD</i>
8:53	<b>Panel Discussion</b>
9:00	<b>Equipment loss + entrapment</b> <i>Andrew Klein, MD</i>
9:08	<b>Panel Discussion</b>
9:15	<b>How to make and use snares</b> <i>Michael Luna, MD</i>
9:23	<b>Panel Discussion</b>
9:30	<b>Intracoronary imaging for complication</b> <i>Jason Wollmuth, MD</i>
9:38	<b>Panel Discussion</b>
9:45	<b>Complication of CTO PCI</b> <i>Iyad Azzam, MD</i>
9:53	<b>Panel Discussion</b>
10:00	<b>Break and Exhibits</b>

#### Coronary Complications Part 2

Moderators: Emmanouil Brilakis, MD, PhD; Steven Yakubov, MD

10:30	<b>Stroke + peripheral embolic complications during catheterization: acute recognition and management</b> <i>Salman Arain, MD</i>
10:38	<b>Panel Discussion</b> <i>Salman Arain, MD; Kate Kearney, MD; Andrew Klein, MD; Michael Luna, MD; Minh Vo, MD; Jason Wollmuth, MD</i>
10:45	<b>Arrhythmias in the catheterization laboratory: prevention and treatment</b> <i>Konstantinos Charitakis, MD</i>
10:53	<b>Panel Discussion</b>
11:00	<b>Radiation-related complications</b> <i>Ryan Madder, MD</i>
11:08	<b>Panel Discussion</b>
11:15	<b>Contrast-related complications</b> <i>Anand Prasad, MD</i>
11:23	<b>Panel Discussion</b>
11:30	<b>Hypotension in the cath lab</b> <i>Wissam Jaber, MD</i>
11:38	<b>Panel Discussion</b>
11:45	<b>Emotional intelligence in the face of complications</b> <i>Steven Yakubov, MD</i>
11:53	<b>Panel Discussion</b>
12:00	<b>Lunch Break</b> <i>See page 7 for optional lunch symposium</i>

#### Peripheral Complications

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

1:30	<b>Vascular access complications</b> <i>Mazen Abu-Fadel, MD</i>
1:38	<b>Panel Discussion</b> <i>Alik Farber, MD; Michael Jolly, MD; Vikram Kashyap, MD; Kintur Sanghvi, MD; Nicolas Shammass, MD, MS, EJD; Shirling Tsai, MD; Christopher White, MD</i>
1:45	<b>Distal Embolization</b> <i>Thomas Koshy, MD</i>
1:53	<b>Panel Discussion</b>
2:00	<b>Femoropopliteal dissection</b> <i>Madhan Shanmugasundaram, MD</i>
2:08	<b>Panel Discussion</b>
2:15	<b>Complicated Pedal Access</b> <i>Mohammad Ansari, MD</i>
2:23	<b>Panel Discussion</b>
2:30	<b>Failed Iliac intervention pre-PCI, Now what?</b> <i>Faisal Latif, MD</i>
2:38	<b>Panel Discussion</b>
2:45	<b>Medicolegal aspects of complication management</b> <i>Anuradha Tunuguntla, MD</i>
2:53	<b>Panel Discussion</b>
3:00	<b>Break and Exhibits</b>

#### Structural Complications

Moderators: Paul Sorajja, MD; Gagan Singh, MD

3:30	<b>Anatomical reasons for structural complications</b> <i>Douglas Shook, MD</i>
3:38	<b>Panel Discussion</b> <i>Ethan Korngold, MD; Srinivas Iyengar, MD</i>
3:43	<b>Aorta annular rupture</b> <i>Ethan Korngold, MD</i>
3:51	<b>Panel Discussion</b>
3:56	<b>Problems with transcatheter rails</b> <i>Paul Sorajja, MD</i>
4:04	<b>Panel Discussion</b>
4:09	<b>LAA closure and embolization</b> <i>Steven Yakubov, MD</i>
4:17	<b>Panel Discussion</b>
4:22	<b>TAVR prosthesis malposition</b> <i>Srinivas Iyengar, MD</i>
4:30	<b>Panel Discussion</b>
4:35	<b>The mother of cardiac tamponade</b> <i>Chirag Chauhan, MD</i>
4:43	<b>Panel Discussion</b>
4:48	<b>Single leaflet device attachment</b> <i>Gagan Singh, MD</i>
4:56	<b>Panel Discussion</b>
5:00	<b>Adjourn</b>

TRACKS ■ CORONARY ■ PERIPHERAL ■ STRUCTURAL

THURSDAY, JULY 18

<p>8:30 - 10:00</p>	<p><b>LIVE CORONARY CASES</b> <b>Live Case Telecast from Bad Krozingen, Germany</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Operator:</b> Kambis Mashayekhi, MD</p> <p><b>Moderators:</b> Ajay Kirtane, MD; Emmanouil Brilakis, MD, PhD</p> <p><b>Panelists:</b> Khaldoon Alaswad, MD; M. Nicholas Burke, MD; Farshad Forouzandeh, MD, PhD; Allison Hall, MD; Nkechi Ijioma, MD; Farouc Jaffer, MD, PhD; William Lombardi, MD; Stéphane Rinfret, MD; Jason Wollmuth, MD</p>	<p><b>All You Need to Know About Acute and Chronic Venous Disease</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Teresa Carman, MD; Brooke Spencer, MD</p> <p><b>Panelists:</b> Rohit Bhatheja, MD; Karem Harth, MD, MHS; Beau Hawkins, MD; Christopher Huff, MD; Kumar Madassery, MD; Munier Nazzal, MD, MBA; Mohsen Sharifi, MD</p> <p>8:30 Lower extremity edema, my algorithm <i>Teresa Carman, MD</i></p> <p>8:38 When should I consider endovenous ablation and which approach <i>Raghu Kolluri, MD, MS</i></p> <p>8:46 Which patient and what approach for chronic venous intervention <i>Mahmood Razavi, MD</i></p> <p>8:54 May Thurner: when, why, and how to treat <i>Brooke Spencer, MD</i></p> <p>9:02 Acute DVT post ATTRACT, patient selection and approach <i>Mohsen Sharifi, MD</i></p> <p>9:10 Panel Discussion</p> <p>9:18 PERT, catheter-based thrombolysis or non-lytic based approach for pulmonary embolism <i>Rohit Bhatheja, MD</i></p> <p>9:26 Panel Discussion</p> <p>9:34 This venous case I will never forget, lessons learned <i>Kumar Madassery, MD</i></p> <p>9:42 Filter thrombosis and removal, advanced techniques <i>Beau Hawkins, MD</i></p> <p>9:50 Panel Discussion</p>
<p>10:00 - 10:30</p>	<p><b>Break</b></p>	
<p>10:30 - 12:00</p>	<p><b>PCI How-to Part 1: The Basics</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Ajay Kirtane, MD; Tony Spaedy, MD</p> <p><b>Panelists:</b> Konstantinos Dean Boudoulas, MD; Konstantinos Charitakis, MD; Ryan Madder, MD; Perwaiz Meraj, MD; Anand Prasad, MD; Poonam Velagapudi, MD, MS</p> <p>10:30 How to obtain optimal vascular access and closure <i>Mazen Abu-Fadel, MD</i></p> <p>10:38 Panel Discussion</p> <p>10:45 How to use guides and guide catheter extensions <i>Catalin Toma, MD</i></p> <p>10:53 Panel Discussion</p> <p>11:00 How and when to use microcatheters <i>Tony Spaedy, MD</i></p> <p>11:08 Panel Discussion</p> <p>11:15 Which guidewire, when? <i>Jaikirshan Khatri, MD</i></p> <p>11:23 Panel Discussion</p> <p>11:30 How to deliver stents <i>Mitul Patel, MD</i></p> <p>11:38 Panel Discussion</p> <p>11:45 How to Do Atherectomy <i>Duane Pinto, MD, MPH</i></p> <p>11:53 Panel Discussion</p>	<p><b>LIVE PERIPHERAL CASES</b> <b>Live Case Telecast from Greenville, SC</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Operator:</b> Bruce Gray, DO</p> <p><b>Moderator:</b> Subhash Banerjee, MD</p> <p><b>Panelists:</b> Tony Das, MD; Karem Harth, MD, MHS; Khusrow Niazi, MD; Mahmood Razavi, MD; Raj Swaminathan, MD; Xiaoyi Teng, MD</p>
<p>12:00 - 1:30</p>	<p><b>Lunch Break</b> (See page 7 for optional lunch symposia)</p>	

**TRICUSPID REGURGITATION THERAPY RETREAT (TR)2:**  
**The Problem of Tricuspid Regurgitation** CENTENNIAL E

**Course Directors:**  
 Paul Sorajja, MD; Gorav Ailawadi, MD; Azeem Latib, MD; Steven Bolling, MD

**Moderators:**  
 Paul Sorajja, MD; Rebecca Hahn, MD

**Panelists:**  
 João Cavalcante, MD; Maurice Sarano, MD

- 8:30 The public health crisis of TR  
*Maurice Sarano, MD*
- 8:45 Why does everyone think echo imaging is hard?  
*Rebecca Hahn, MD*
- 9:00 Essential roles for CT and MRI in TR in therapy timing  
*João Cavalcante, MD*
- 9:15 Where are the patients in clinical practice?
- 9:30 Panel discussion

**Coronary Challenging Case Competition: Semifinals I** MINERAL FG

**Moderator:**  
 Dmitry Feldman, MD

**Panelists:**  
 Kate Kearney, MD; Andrew Klein, MD; Arnold Seto, MD; Minh Vo, MD

- 8:30 Management of left main triple vessel type-1 spontaneous coronary artery dissection in a man *Nadia Abelhad, MD*
- 8:35 Panel discussion
- 8:40 Spiral dissection in right coronary artery with shepherd’s crook  
*David Aguilar, MD*
- 8:45 Panel discussion
- 8:50 Percutaneous transcatheter closure of a large SVG aneurysm with amplatzer vascular plug *Tomokazu Nagasawa, RCIS*
- 8:55 Panel discussion
- 9:00 When your weapon becomes your enemy *Mohamed Oraby*
- 9:05 Panel discussion
- 9:10 Rule of threes *Eric Fuh, MD*
- 9:15 Panel discussion
- 9:20 Do not lose hope during Cardiac arrest *Mohammed Hosny, MD*
- 9:25 Panel discussion
- 9:30 Uncommon Cause of Donor Vessel Thrombosis in a Successful Staged Retrograde Chronic Total Occlusion Percutaneous Coronary Intervention *Judit Karacsonyi, MD, PhD*
- 9:35 Panel discussion
- 9:40 Transcatheter therapeutic coronary embolization with gelatin sponge particles as an ultima ratio treatment of iatrogenic coronary perforation *Michal Kuzemczak, MD, PhD*
- 9:45 Panel discussion

**Current Surgical Solutions for TR** CENTENNIAL E

**Moderators:**  
 Gorav Ailawadi, MD; Steven Bolling, MD

**Panelists:**  
 Vinayat Bapat, MD; Michael Mack, MD; Molly Szerlip, MD

- 10:30 Are outcomes bad or good with open surgery?  
*Michael Mack, MD*
- 10:45 When should one repair or replace for TR?  
*Vinayat Bapat, MD*
- 11:00 Do we really need transcatheter solutions?  
*Molly Szerlip, MD*
- 11:15 Risk stratification: are all TR patients high risk?  
*Gorav Ailawadi, MD*
- 11:30 Things only surgeons know  
*Steven Bolling, MD*
- 11:45 Panel discussion

**Coronary Challenging Case Competition: Semifinals II** MINERAL FG

**Moderator:**  
 Duane Pinto, MD

**Panelists:**  
 Wissam Jaber, MD; Yader Sandoval, MD; Poonam Velagapudi, MD, MS

- 10:30 Bifurcational LM stenting, best technique? *Bassam Hennawy, MD*
- 10:35 Panel discussion
- 10:45 Its not always just the heart, sometimes... breaks are worse  
*Chandra Ojha, MD*
- 10:45 Panel discussion
- 10:50 Complex high risk PCI, the heart team approach  
*Michael Gergis, MBBCh, MSc*
- 10:55 Panel discussion
- 11:00 Double-kiss crush of the left main, overcoming challenges  
*Michael Megaly, MD, MS*
- 11:05 Panel discussion
- 11:10 A case of chest pain from an unlikely source *Seth Hale, MD*
- 11:15 Panel discussion
- 11:20 An anterior wall STEMI bailed out by a Mini-Crush  
*Thomas George, MD, DNB*
- 11:25 Panel discussion
- 11:30 Access Nightmare In A Patient With STEMI and Cardiogenic Shock *Farshad Forouzandeh, MD, PhD*
- 11:35 Panel discussion

**WORKING LUNCH:** CENTENNIAL E

**Challenges, Solutions, and Current Status with Transcatheter Approaches**

**Moderator:** Susheel Kodali, MD

- 12:00 Cardioband *D. Scott Lim, MD*
- 12:10 Millipede *Jason Rogers, MD*
- 12:20 MitraClip *Paul Sorajja, MD*
- 12:30 TV replacement *Vinayat Bapat, MD*
- 12:40 TriCinch *Molly Szerlip, MD*
- 12:50 Forma *Mackram Eleid, MD*
- 1:00 Pascal *D. Scott Lim, MD*
- 1:10 What is the best method for procedural imaging?  
*Panel discussion: Rebecca Hahn, MD; D. Scott Lim, MD; Jason Rogers, MD; Paul Sorajja, MD; Molly Szerlip, MD*

**TRACKS**  CORONARY  PERIPHERAL  STRUCTURAL

<p>1:30 - 3:00</p>	<p><b>PCI: The Great Debates 1</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Emmanouil Brilakis, MD, PhD; Sunil Rao, MD</p> <p><b>Panelists:</b> Salman Arain, MD; Wissam Jaber, MD; Houman Khalili, MD; Arnold Seto, MD; Thomas Tsai, MD, MSc</p> <p>1:30 Radial for all <i>Sunil Rao, MD</i></p> <p>1:38 Femoral still has a role <i>Dimitri Feldman, MD</i></p> <p>1:46 Panel Discussion</p> <p>2:00 All DES are the same! <i>Allison Hall, MD</i></p> <p>2:08 All DES are NOT the same! <i>Konstantinos Charitakis, MD</i></p> <p>2:16 Panel Discussion</p> <p>2:30 DK crush should be the standard 2-stent bifurcation strategy <i>Emmanouil Brilakis, MD, PhD</i></p> <p>2:38 DK crush is just another bifurcation strategy <i>Perwaiz Meraj, MD</i></p> <p>2:46 Panel Discussion</p>	<p><b>Innovation in Vascular Disease</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Moderators:</b> Kintur Sanghvi, MD; Manesh Patel, MD</p> <p><b>Panelists:</b> Gary Ansel, MD; Peter Monteleone, MD; Teresa Carman, MD; Naomi Hamburg, MD; Vikram Kashyap, MD; Raj Swaminathan, MD</p> <p>1:30 How to incorporate antithrombotic drugs into my PAD and CLI practice <i>Manesh Patel, MD</i></p> <p>1:38 DOACs, NOACs, and Coumadin - How do I decide when treating DVT? <i>Raj Swaminathan, MD</i></p> <p>1:45 SGL2, PCSK-9, and Rivoroxaban for PAD and CLI! How and when? <i>Peter Monteleone, MD</i></p> <p>1:53 Panel Discussion</p> <p>2:00 Transcervical carotid artery stenting - Will it change our practice? <i>Vikram Kashyap, MD</i></p> <p>2:08 Renal denervation, is it really coming back? <i>M. Chadi Alraies, MD, MPH</i></p> <p>2:15 Deep venous arterilization for no option CLI, is there hope? <i>Mehdi Shishehbor, MD, MPH, PhD</i></p> <p>2:23 Panel Discussion</p> <p>2:30 Must have tools in the endovascular suite <i>Kintur Sanghvi, MD</i></p> <p>2:38 Supply Chain - Blessing or curse? Innovative approaches to reduce cost <i>Panel</i></p> <p>2:46 Paclitaxel drug delivery: where do we go from here? <i>Eric Secemsky, MD, MSc</i></p> <p>2:53 Panel Discussion</p>
<p>3:00 - 3:30</p>	<p><b>Break</b></p>	
<p>3:30 - 5:00</p>	<p><b>PCI How-to Part 2: CTOs</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Khaldoon Alaswad, MD; Kevin Croce, MD, PhD</p> <p><b>Panelists:</b> Michael Luna, MD; Mitul Patel, MD; Tony Spaedy, MD</p> <p>3:30 When should CTO PCI be done in 2019? <i>Kevin Croce, MD, PhD</i></p> <p>3:38 Panel Discussion</p> <p>3:45 ADR 2.0 <i>Stéphane Rinfret, MD</i></p> <p>3:53 Panel Discussion</p> <p>4:00 How to resolve proximal cap ambiguity <i>M. Nicholas Burke, MD</i></p> <p>4:08 Panel Discussion</p> <p>4:15 How to treat ostial CTOs <i>Jason Wollmuth, MD</i></p> <p>4:23 Panel Discussion</p> <p>4:30 How and when to do retrograde via epicardial collaterals <i>William Lombardi, MD</i></p> <p>4:38 Panel Discussion</p> <p>4:45 How to use CTA to guide CTO PCI <i>Farouc Jaffer, MD, PhD</i></p> <p>4:53 Panel Discussion <i>M. Nicholas Burke, MD; Farouc Jaffer, MD, PhD; William Lombardi, MD; Michael Luna, MD; Mitul Patel, MD; Stéphane Rinfret, MD; Tony Spaedy, MD; Jason Wollmuth, MD</i></p>	<p><b>Masters Approach to Critical Limb Ischemia I: Step-by-Step Technical Tips</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Moderator:</b> Mehdi Shishehbor, DO, MPH, PhD</p> <p><b>Panelists:</b> Mohammad Ansari, MD; Osamu Iida, MD; Peter Monteleone, MD; Jason Rogers, MD; Nicolas Shammass, MD, MS, EJD; Ramon Varcoe, MBBS, MS, PhD</p> <p>3:30 A SFA/popliteal case I could not cross with antegrade approach <i>Peter Monteleone, MD</i></p> <p>3:38 Duplex US technique for pedal and tibial access <i>Carlos Mena, MD</i></p> <p>3:46 Retrograde SFA, Popliteal, and in-stent access <i>Mehdi Shishehbor, DO, MPH, PhD</i></p> <p>3:54 Radial 2 Peripheral, tips and tricks <i>Ahmad Younes, MD</i></p> <p>4:02 Panel Discussion</p> <p>4:10 Wire choice and approaches to cross SFA and popliteal CTOs <i>Ramon Varcoe, MBBS, MS, PhD</i></p> <p>4:18 Wire choice and approaches to cross tibial CTOs <i>Osamu Iida, MD</i></p> <p>4:26 CTO devices to cross SFA and tibial CTOs <i>Tony Das, MD</i></p> <p>4:34 Algorithm to cross infrainguinal CTOs <i>Subhash Banerjee, MD</i></p> <p>4:42 Re-entry (CART, RCART, Parallel Balloon, Facilitaed, Pioneer, Outback, Enteer) <i>Matthew Bunte, MD, MS</i></p> <p>4:50 Panel Discussion</p> <p>5:00 From fellowship to real world; step by step guide on how to be successful <i>Tony Das, MD</i></p> <p>5:08 Panel Discussion</p>
<p>5:00</p>	<p><b>Adjourn</b></p>	

TRACKS  CORONARY  PERIPHERAL  STRUCTURAL

## Therapy Goals in Tricuspid Regurgitation

CENTENNIAL E

### Moderators:

D. Scott Lim, MD; Martin Leon, MD

### Panelists:

Saibal Kar, MD; Susheel Kodali, MD; Gilbert Tang, MD, MSc, MBA

- 2:00 Is there a medical therapy standard that must be met first?  
*D. Scott Lim, MD*
- 2:15 Is transcatheter therapy an adjunct to medical therapy or a surgical replacement?  
*Gilbert Tang, MD, MSc, MBA*
- 2:30 Is residual TR grade an appropriate therapeutic goal?  
*Susheel Kodali, MD*
- 2:45 What are the compelling endpoints for practice change?  
*Martin Leon, MD*
- 3:00 Will there be standalone TR therapy?  
*Saibal Kar, MD*
- 3:15 Panel Discussion

## Coronary Challenging Case Competition: Semifinals III

MINERAL FG

### Moderator:

George Dangas, MD

### Panelists:

Konstantinos Dean Boudoulas, MD; Allison Hall, MD; Mitul Patel, MD; Jason Wollmuth, MD

- 1:30 Right coronary artery to right atrial fistula: Role of multi-modality imaging and percutaneous closure  
*Ahmad Jabri, MD*
- 1:35 Panel discussion
- 1:45 Calcium, the worst enemy  
*Bassam Hennawy, MD*
- 1:45 Panel discussion
- 1:50 Multivessel left main PCI in a patient with severe left ventricular dysfunction and anomalous left main off the right sinus of valsalva using IMPELLA CP support  
*Debraj Das, MD*
- 1:55 Panel discussion
- 2:00 Performing DK crush through an externalized R350 wire  
*Iosif Xenogiannis, MD*
- 2:05 Panel discussion
- 2:10 Tumor invasion as an indication for CTO PCI  
*Luai Tabaza, MD*
- 2:15 Panel discussion
- 2:20 Impella-supported Left Main PCI in a Patient with RCA CTO  
*Michael Megaly, MD, MS*
- 2:25 Panel discussion
- 2:30 Percutaneous Embolization of Coronary Artery-Pulmonary Artery Fistula via Radial Artery  
*Sarah Krause, RCIS*
- 2:35 Panel discussion
- 2:40 Inferior wall myocardial infarction with triple vessel disease and a CTO to boot  
*Thomas George, MD, DNB*
- 2:45 Panel discussion

## Breaking Boundaries with Mitral Valve Therapy

CENTENNIAL E

### Moderator:

Azeem Latib, MD

### Panelists:

João Cavalcante, MD; Saibal Kar, MD; Martin Leon, MD; D. Scott Lim, MD; Michael Mack, MD; Tilak Pasala, MD; Maurice Sarano, MD; Paul Sorajja, MD

- 3:30 The Top 5 latest innovations in transcatheter MV therapy  
*D. Scott Lim, MD*
- 3:38 New evolutions in surgery that keep it the standard of care  
*Steven Bolling, MD*
- 3:46 What I hear when I talk about the public crisis of MR  
*Maurice Sarano, MD*
- 3:54 Defining mitral annular calcification  
*João Cavalcante, MD*
- 4:02 Fusion imaging to address challenges of mitral therapy  
*Tilak Pasala, MD*
- 4:10 Complimentary transcatheter repair and replacement  
*Paul Sorajja, MD*
- 4:18 Predictions for the future state of MR therapy  
*Martin Leon, MD*
- 4:26 Will transcatheter repair be used for surgical-eligible patients?  
*Saibal Kar, MD*
- 4:34 Where does the field of transcatheter therapy need to go?  
*Michael Mack, MD*
- 4:42 Panel discussion

## Coronary Challenging Case Competition: Semifinals IV

MINERAL FG

### Moderator:

Mauricio Cohen, MD

### Panelists:

Konstantinos Charitakis, MD; Konstantinos Marmagkiolis, MD; Kendrick Shunk, MD, PhD; Nkechi Ijioma, MD

- 3:30 Crushed stent at the ostium, how behaved at six months?  
*Michael Gergis, MBBCh, MSc*
- 3:35 Panel discussion
- 3:40 Challenging scenario; complicated STEMI in old age  
*Bassam Hennawy, MD*
- 3:45 Panel discussion
- 3:50 To stent or not to stent? the endless debate  
*George Shenoda*
- 3:55 Panel discussion
- 4:00 A dissection gone north  
*Kendra Coonse, MD*
- 4:05 Panel discussion
- 4:10 Wait—what really happened? A case of double myocardial rupture  
*Satish Chandraprakasam, MD*
- 4:15 Panel discussion
- 4:20 Ostial coronary artery lesions-an interesting paradigm  
*Thomas George, MD, DNB*
- 4:25 Panel discussion

FRIDAY, JULY 19

8:30 - 10:00	<p><b>PCI How-to Part 3: Acute Coronary Syndromes and Shock</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> William O'Neill, MD; Timothy Henry, MD</p> <p><b>Panelists:</b> Mauricio Cohen, MD; Farshad Farouzanah, MD, PhD; Poonam Velagapudi, MD, MS</p> <p>8:30 How to find the culprit lesion(s) in ACS <i>Houman Khalili, MD</i></p> <p>8:38 Panel Discussion</p> <p>8:45 How to initiate and troubleshoot ECMO <i>Khaldoon Alaswad, MD</i></p> <p>8:53 Panel Discussion</p> <p>9:00 How to do e-CPR <i>Konstantinos Dean Boudoulas, MD</i></p> <p>9:08 Panel Discussion</p> <p>9:15 When and how to use hemodynamic support in shock <i>Khaldoon Alaswad, MD</i></p> <p>9:23 Panel Discussion</p> <p>9:30 How to support the right ventricle <i>William O'Neill, MD</i></p> <p>9:38 Panel Discussion</p> <p>9:45 SCAI Classification of Cardiogenic Shock <i>Timothy Henry, MD</i></p> <p>9:53 Panel Discussion</p>	<p><b>LIVE PERIPHERAL CASES Live Case Telecast from Germany</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Operator:</b> Thomas Zeller, MD</p> <p><b>Moderators:</b> Mehdi Shishehbor, DO, MPH, PhD</p> <p><b>Panelists:</b> Tony Das, MD; Alik Farber, MD; Steve Henao, MD; Norman Kumins, MD; Arthur Lee, MD; Carlos Mena, MD; Munier Nazzal, MD, MBA; Peter Soukas, MD</p>
10:00 - 10:30	<b>Break</b>	
10:30 - 12:00	<p><b>LIVE CORONARY CASES Live Case Telecast from University Hospitals, Cleveland</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Operator:</b> Hiram G. Bezerra, MD, PhD</p> <p><b>Moderators:</b> Emmanouil Brilakis, MD, PhD; Stéphane Rinfret, MD</p> <p><b>Panelists:</b> M. Chadi Alraies, MD, MPH; Mauricio Cohen, MD; Wissam Jaber, MD; Jaikirshan Khatri, MD; Mitul Patel, MD; Timir Paul, MD; Tony Spaedy, MD; Catalin Toma, MD; Poonam Velagapudi, MD, MS</p>	<p><b>Common Femoral, SFA, and Popliteal Disease</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Subhash Banerjee, MD; Christian Bianchi, MD</p> <p><b>Panelists:</b> Christian Bianchi, MD; Alik Farber, MD; J. Antonio Gutierrez, MD, MHS; Michael Jolly, MD; Arthur Lee, MD; Kintur Sanghvi, MD; Mehdi Shishehbor, DO, MPH, PhD; Xiaoyi Teng, MD</p> <p>10:30 Endovascular approach for common femoral artery <i>Xiaoyi Teng, MD</i></p> <p>10:38 Cases - Complex endovascular therapy for CFA <i>Peter Soukas, MD</i></p> <p>10:45 Panel Discussion</p> <p>10:53 Heavily calcified SFA, Master's approach to treat? <i>Kintur Sanghvi, MD</i></p> <p>11:00 Why and when I use atherectomy? <i>Gary Ansel, MD</i></p> <p>11:08 DCB, DES, wire interwoven, or covered stents, segmentalized approach to SFA and popliteal disease <i>Arthur Lee, MD</i></p> <p>11:15 Leave nothing behind, hope or hype? <i>Michael Jolly, MD</i></p> <p>11:23 Panel Discussion</p> <p>11:30 Surgical approach to CFA, SFA and popliteal disease <i>Christian Bianchi, MD</i></p> <p>11:38 SFA/popliteal case I should I have sent to surgery <i>Alik Farber, MD</i></p> <p>11:45 SFA/popliteal case I should I have sent to endovascular <i>J. Antonio Gutierrez, MD, MHS</i></p> <p>11:53 Panel Discussion</p>
12:00 - 1:30	<b>Lunch Break</b> (see page 7 for optional lunch symposia)	

## Innovations in Structural Heart Therapy

CENTENNIAL E

### Moderators:

Gorav Ailawadi, MD; Paul Sorajja, MD

### Panelists:

David Brown, MD; João Cavalcante, MD; Danny Dvir, MD; Adam Greenbaum, MD; Rahul Sharma, MD; Alan Zajarias, MD

- 8:30 Top 5 innovations in transcatheter aortic therapy  
*Alan Zajarias, MD*
- 8:37 Polymer-based technology for valve prostheses  
*TBD*
- 8:44 Emerging cerebral protection methods  
*David Brown, MD*
- 8:51 Prosthetic design for repeat valve therapy  
*Danny Dvir, MD*
- 8:58 No more boundaries for TAVR  
*Adam Greenbaum, MD*
- 9:05 Expectations and challenges for future IDE studies  
*Rahul Sharma, MD*
- 9:12 Five things CT will tell you that you don't know  
*João Cavalcante, MD*
- 9:19 Novel atrial shunts  
*Paul Sorajja, MD*
- 9:26 From surgery to transcatheter and back  
*Gorav Ailawadi, MD*
- 9:33 Tissue processing for durability  
*Paul Sorajja, MD*
- 9:40 The unanswered questions I have  
*TBD*
- 9:47 Panel Discussion

## Peripheral Challenging Case Competition: Semifinals I

MINERAL FG

**Moderators:** Mazen Abu-Fadel, MD; Tony Das, MD

**Panelists:** Sahil Parikh, MD; Faisal Latif, MD; Shirling Tsai, MD; Rose Lumare, DPM; Madhan Shanmugasundaram, MD

- 8:30 IVC stenting *Ahmed Elsakka, MD*
- 8:35 Panel discussion
- 8:40 May Thurner Syndrome with IVC thrombosis, PE, and iliac vein stenting *Ashley Stewart, RN*
- 8:45 Panel discussion
- 8:50 Going Out on a Limb! Closure Device Related Acute Limb Ischemia; But Can We Save the Limb? *Chandra Ojha, MD*
- 8:55 Panel discussion
- 9:00 Stent crush: A novel endovascular approach for treatment of complex in-stent femoropopliteal chronic total occlusion  
*Luai Tabaza, MD*
- 9:05 Panel discussion
- 9:10 A successful femoropopliteal CTO case of CKD patient by trans collaterals approach using diluted contrast medium digital subtraction angiography *Naoki Hayakawa, MD*
- 9:15 Panel discussion
- 9:20 Large vessel vasculitis and mitral affection in SLE  
*Osama Kandeel, MD*
- 9:25 Panel discussion
- 9:30 Tack endovascular system in treating complex CTO of the SFA  
*Qais Radaideh, MD*
- 9:35 Panel discussion
- 9:40 Utilization of EKOS in a 78 Year Old Male Presenting with Limb Ischemia *Zain Ali*
- 9:45 Panel discussion
- 9:50 "May the forceps be with you" Bail out techniques using biopsy forceps *Michinao Tan, MD*
- 9:55 Panel discussion

## The Boundaries of Structural Heart Therapy I

CENTENNIAL E

### Moderators:

Mark Ricciardi, MD; S. Chris Malaisrie, MD

### Panelists:

Andrew Rassi, MD; Firas Zahr, MD

- 10:30 My most challenging transcaval case  
*Adam Greenbaum, MD*
- 10:37 A rich emotional experience  
*Alok Sharma, MD*
- 10:44 My new save for 2019  
*Anupama Shivaraju, MD*
- 10:51 Transcatheter MVR challenge and management  
*Paul Sorajja, MD*
- 10:58 Novel large bore closure  
*Chirag Chauhan, MD*
- 11:05 Innovative TAVR therapy  
*Mackram Eleid, MD*
- 11:12 It's not luck if you're trying  
*Firas Zahr, MD*
- 11:19 Difficult occluder case I got done  
*Paul Sorajja, MD*
- 11:26 Fancy catheter manipulations  
*Molly Szerlip, MD*
- 11:33 Novel transcatheter mitral repair  
*Sameer Gafoor, MD*
- 11:40 Aortic regurgitation therapy  
*Scott Lilly, MD, PhD*
- 11:47 A frontier crossed with a self-expanding TAVR  
*Brijeshwar Maini, MD*

## Peripheral Challenging Case Competition: Semifinals II

MINERAL FG

**Moderators:** Mazen Abu-Fadel, MD, Tony Das, MD

**Panelists:** Sahil Parikh, MD; Kenneth Rosenfield, MD; Faisal Latif, MD; Shirling Tsai, MD; Rose Lumare, DPM; Jerrold Grodin, MD

- 10:30 At death's door: A dramatic case of PE *Ahmad Younes, MD*
- 10:35 Panel discussion
- 10:40 Saving an ischemic limb and a bleeding brain; "Success is not Final, Failure is not Fatal: It is the Courage to Continue that Counts" *Chandra Ojha, MD*
- 10:45 Panel discussion
- 10:50 Refractory vascular wall healing after paclitaxel-coated nitinol stent implantation in the femoropopliteal artery: A high resolution angioscopic assessment *Kuniyasu Ikeoka*
- 10:55 Panel discussion
- 11:00 A peculiar case of complex revascularization of a chronically occluded, calcified, tortuous, aneurysmal, etc. vessel in a CLI patient *Marina Iskander, MD*
- 11:05 Panel discussion
- 11:10 The importance of intravascular ultrasound in proper balloon and stent sizing for below the knee interventions: A case presentation *Qais Radaideh, MD*
- 11:15 Panel discussion
- 11:20 Unexpected events and obstacles during renal artery stenting  
*Sarah Krause, RCIS*
- 11:25 Panel discussion
- 11:30 Extreme recanalization of ligated external iliac artery: percutaneous anatomical endoluminal bypass for iliac artery occlusion *Tatsuya Nakama*
- 11:35 Panel discussion
- 11:40 Branch Retinal Artery Occlusion (BRAO) in an otherwise asymptomatic 33 year old patient *Avneet Sodhi, MD*
- 11:45 Panel discussion
- 11:50 Severe vascular spasm during EVT for below the knee CLI intervention *Junichi Tazaki*
- 11:55 Panel discussion

<p>1:30 – 3:00</p>	<p><b>PCI: The Great Debates 2</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Moderators:</b> George Dangas, MD; Morton Kern, MD</p> <p><b>Panelists:</b> Khaldoon Alaswad, MD; Konstantinos Dean Boudoulas, MD; Abdul Hakeem, MD; Konstantinos Marmagkiolis, MD; Arnold Seto, MD; Alok Sharma, MD</p> <p>1:30 Resting physiologic indices suffice for coronary physiology <i>Arnold Seto, MD</i></p> <p>1:38 Adenosine FFR remains the "gold standard" <i>Abdul Hakeem, MD</i></p> <p>1:46 Panel Discussion</p> <p>2:00 Intracoronary imaging should be done in every PCI: pro <i>Farshad Farouzandeh, MD, PhD</i></p> <p>2:08 Intracoronary imaging should be done in every PCI: con <i>George Dangas, MD</i></p> <p>2:16 Panel Discussion</p> <p>2:30 e-CPR is a "life-saver" <i>Konstantinos Dean Boudoulas, MD</i></p> <p>2:38 e-CPR is futile <i>Emmanouil Brilakis, MD, PhD</i></p> <p>2:46 Panel Discussion</p>	<p><b>Aortoiliac Disease</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Matthew Bunte, MD, MS; Karem Harth, MD, MHS</p> <p><b>Panelists:</b> Norman Kumins, MD; Kumar Madassery, MD; Nicolas Shammass, MD, MS, EJD; Yoshimitsu Soga, MD; Peter Soukas, MD; Jessica Titus, MD; Magdiel Trinidad, MD</p> <p>1:30 Supervised exercise program and medical therapy for aortoiliac disease <i>Joshua Beckman, MD</i></p> <p>1:38 I wish I had sent this aortoiliac occlusion to surgery <i>Jessica Titus, MD</i></p> <p>1:46 Perforated iliac, and how I bail myself out <i>Magdiel Trinidad, MD</i></p> <p>1:54 Panel Discussion</p> <p>2:02 Access site selection to treat aortoiliac disease, retrograde, brachial, radial, when and why? <i>Peter Soukas, MD</i></p> <p>2:10 Step by step approach to crossing aortic occlusion, approach and role of IVUS <i>Yoshimitsu Soga, MD</i></p> <p>2:18 Panel Discussion</p> <p>2:26 How to manage nondilatable heavily calcified iliacs <i>Nicolas Shammass, MD, MS, EJD</i></p> <p>2:34 Reentry in the aorta or iliacs, case based <i>Kumar Madassery, MD</i></p> <p>2:42 Using endografts to treat occlusive aortoiliac disease, when and how? <i>Norman Kumins, MD</i></p> <p>2:50 Panel Discussion</p>
<p>3:00 – 3:30</p>	<p><b>Break</b></p>	
<p>3:30 – 5:00</p>	<p><b>PCI How-to Part 4: Complex Lesions and Patients</b> <span style="float: right;">CENTENNIAL E</span></p> <p><b>Moderators:</b> Timothy Henry, MD; Roxana Mehran, MD</p> <p><b>Panelists:</b> Konstantinos Charitakis, MD; Mauricio Cohen, MD; Yader Sandoval, MD; Kendrick Shunk, MD, PhD</p> <p>3:30 How to select patients for PCI: from COURAGE to ISCHEMIA <i>Roxana Mehran, MD</i></p> <p>3:38 Panel Discussion</p> <p>3:45 PCI in the prior TAVR patient <i>Poonam Velagapudi, MD, MS</i></p> <p>3:53 Panel Discussion</p> <p>4:00 How to manage SCAD <i>Rajiv Gulati, MD, PhD</i></p> <p>4:08 Panel Discussion</p> <p>4:15 How to manage large thrombus <i>Timothy Henry, MD</i></p> <p>4:23 Panel Discussion</p> <p>4:30 How to do PCI in a patient with prior radiation Rx <i>Konstantinos Marmagkiolis, MD</i></p> <p>4:38 Panel Discussion</p> <p>4:45 How to manage in-stent restenosis <i>Kevin Croce, MD, PhD</i></p> <p>4:53 Panel Discussion</p>	<p><b>Limb Salvage, Functional Amputation, Wounds and Podiatry</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Teresa Carman, MD; Jeffrey Shook, DPM</p> <p><b>Panelists:</b> Georgeanne Botek, DPM; Raghu Kolluri, MD, MS; Anand Prasad, MD; Constantino Peña, MD; Mehdi Shishehbor, DO, MPH, PhD</p> <p>3:30 This is what I want from my revascularization colleagues <i>Teresa Carman, MD</i></p> <p>3:38 The ABCs of wound care <i>Brian Lepow, DPM</i></p> <p>3:46 Panel Discussion</p> <p>3:54 Time to redefine critical limb ischemia <i>Mehdi Shishehbor, DO, MPH, PhD</i></p> <p>4:02 When to use US, CTA or MRA before going to the cath lab <i>Constantino Peña, MD</i></p> <p>4:10 Panel Discussion</p> <p>4:18 What is a functional amputation? <i>Georgeanne Botek, DPM</i></p> <p>4:26 Mixed venous and arterial ulcers, this is my approach <i>Raghu Kolluri, MD, MHS</i></p> <p>4:34 How to address ulcer recidivism <i>Jeffrey Shook, DPM</i></p> <p>4:42 Panel Discussion</p> <p>4:50 Must read articles in CLI - Editors view point <i>Anand Prasad, MD</i></p>
<p>5:00</p>	<p><b>Adjourn</b></p>	

TRACKS  CORONARY  PERIPHERAL  STRUCTURAL



## The Boundaries of Structural Heart Therapy II

CENTENNIAL E

### Moderators:

Srinivas Iyengar, MD; Chad Kliger, MD; Molly Szerlip, MD

### Panelist:

Mackram Eleid, MD

- 1:30 I wish I had sent this patient to surgery  
*Sachin Goel, MD*
- 1:37 A new imaging method I found in the last year  
*Richard Bae, MD*
- 1:44 Complex basilica  
*Danny Dvir, MD*
- 1:51 Image overlay for TR therapy success  
*Chad Kliger, MD*
- 1:58 Strategy for difficult LAA therapy  
*Andrew Rassi, MD*
- 2:05 Novel PFO therapy  
*Rahul Sharma, MD*
- 2:12 Transcatheter treatment of residual MR  
*S. Chris Malaisrie, MD*
- 2:19 Surprise and a save  
*Sachin Goel, MD*
- 2:26 Balloon valve fracturing on a new level  
*Adnan Chhatriwalla, MD*
- 2:33 Pseudoaneurysm therapy  
*Jonathan Schwartz, MD*
- 2:40 I've been doing this a long time, but...  
*David Brown, MD*
- 2:47 Innovative therapy with transcatheter mitral repair  
*Brijeshwar Maini, MD*

## Structural Challenging Case Competition: Semifinals I

MINERAL FG

### Moderators:

Brijeshwar Maini, MD; Jonathan Schwartz, MD

### Panelists:

M. Chadi Alraies, MD, MPH; Timir Paul, MD; Madhan Shanmugasundaram, MD

- 1:30 The clue is in the mirror; an unusual cause of pulmonary hypertension  
*Ahmed Elmogy, MSc*
- 1:35 Panel discussion
- 1:40 Aorta coarctation and repair by 'Y-skirting' stenting technique  
*Ali Nazmi Çalik, MD*
- 1:45 Panel discussion
- 1:50 A case of annulus rupture during transcatheter aortic valve implantation  
*Hiroto Sato, MD, PhD*
- 1:55 Panel discussion
- 2:00 Aortic valve replacement after TAVR due to device distortion: Limitations in the bicuspid population  
*Ryan Vela, MD*
- 2:05 Panel discussion
- 2:10 A TAVR Catastrophe - Unexpected complication  
*Sharan Rufus Ponniah, MD*
- 2:15 Panel discussion
- 2:20 How to safely occlude left atrial appendage with a mobile thrombus inside?  
*Sukru Akyuz, MD*
- 2:25 Panel discussion

## LIVE STRUCTURAL CASES Live Case Telecast from University Hospitals, Cleveland

CENTENNIAL D

### Operator:

Guilherme F. Attizzani, MD

### Moderators:

Gorav Ailawadi, MD; Molly Szerlip, MD

### Panelists:

Sameer Gafoor, MD; Mario Goessl, MD, PhD; Adam Greenbaum, MD; Brijeshwar Maini, MD; Andrew Rassi, MD; Paul Sorajja, MD

## Structural Challenging Case Competition: Semifinals II

MINERAL FG

### Moderators:

Maheedhar Gedela, MD; Alok Sharma, MD; Rahul Sharma, MD

### Panelists:

M. Chadi Alraies, MD, MPH; Timir Paul, MD; Madhan Shanmugasundaram, MD

- 3:30 Combined percutaneous repair of a left atrial-left ventricular outflow tract fistula and mitral valve clipping  
*Daniel Feldman, MD*
- 3:35 Panel discussion
- 3:40 "Valve-on-Valve" TAVR  
*Kunal Patel, MD*
- 3:45 Panel discussion
- 3:50 Urgent TAVR in the setting of severe aortic valve disease complicated by cardiogenic shock in a patient at extreme risk for surgery  
*Marvin Kay, MD*
- 3:55 Panel discussion
- 4:00 Percutaneous closure of a post-TAVR Aorta-RV fistula  
*Michael Megaly, MD, MS*
- 4:05 Panel discussion
- 4:10 A tricky case of aortic stenosis: Unique patient challenges associated with TAVR  
*Rohini Manaktala, DO*
- 4:15 Panel discussion
- 4:20 Bioprosthetic AI treated with novel TAVR therapy  
*Sitaramesh Emani, MD*
- 4:25 Panel discussion
- 4:30 Importance of rotational angiography before complete release of self-expandable transcatheter bioprosthesis for detecting valve infolding phenomenon  
*Toshihiro Kobayashi, RT*
- 4:35 Panel discussion

### SATURDAY, JULY 20

8:30 - 10:00	<p><b>Innovations in PCI Part 1</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Moderators:</b> Alok Sharma, MD; Emmanouil Brilakis, MD, PhD</p> <p><b>Panelists:</b> M. Chadi Alraies, MD, MPH; Rajiv Gulati, MD, PhD; Perwaiz Meraj, MD; Yader Sandoval, MD; Poonam Velagapudi, MD, MS</p> <p>8:30 The top 5 interventional cardiology trials of the past year <i>Emmanouil Brilakis, MD, PhD</i></p> <p>8:40 Panel discussion</p> <p>8:45 The most anticipated trials for the year ahead <i>Alok Sharma, MD</i></p> <p>8:55 Panel discussion</p> <p>9:00 Innovation in coronary physiology <i>Morton Kern, MD</i></p> <p>9:05 Panel discussion</p> <p>9:10 Innovations in cardiac regeneration <i>Joseph Hill, MD, PhD</i></p> <p>9:15 Panel discussion</p> <p>9:20 Innovation in robotic PCI <i>Rajiv Gulati, MD, PhD</i></p> <p>9:30 Panel discussion</p> <p>9:35 Innovation in SVG management <i>Kendrick Shunk, MD, PhD</i></p> <p>9:45 Panel discussion</p>	<p><b>Master's Approach to Critical Limb Ischemia II</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Vikram Kashyap, MD; Mehdi Shishehbor, DO, MPH, PhD</p> <p><b>Panelists:</b> Justin Dunn, MD, MPH; Sam Mehta, MD; Constantino Peña, MD; Bala Ramanan, MBBS, MS; Shirling Tsai, MD</p> <p>8:30 My challenges in starting a PAD/CLI program <i>Justin Dunn, MD, MPH</i></p> <p>8:38 Multidisciplinary Team - Why a surgeon is a must <i>Vikram Kashyap, MD</i></p> <p>8:46 Panel Discussion</p> <p>8:54 BEST CLI, what will we learn from it? <i>Philip Goodney, MD</i></p> <p>9:02 I should have sent this one for bypass: case-based CLI <i>Constantino Peña, MD</i></p> <p>9:10 Panel Discussion</p> <p>9:18 Hybrid approach to multilevel CLI, Case-based <i>Bala Ramanan, MBBS, MS</i></p> <p>9:26 I should have treated this one percutaneously: case-based CLI <i>Shirling Tsai, MD</i></p> <p>9:34 I should have treated this one medically: case-based CLI <i>Sam Mehta, MD</i></p> <p>9:42 Panel Discussion</p> <p>9:50 Limbs Salvage board, the future of multidisciplinary team <i>Norman Kumins, MD</i></p>												
10:00 - 10:30	<p><b>Break</b></p>													
10:30 - 12:00	<p><b>Innovations in PCI Part 2: Back to the Basics</b> <span style="float: right;">CENTENNIAL D</span></p> <p><b>Moderators:</b> Mauricio Cohen, MD; Duane Pinto, MD, MPH</p> <p><b>Panelists:</b> Allison Hall, MD; Lynn Huffman, MD; Yader Sandoval, MD</p> <p>10:30 Innovation in cardiac surgery <i>Lynn Huffman, MD</i></p> <p>10:38 Panel discussion</p> <p>10:45 Innovation in coronary stents <i>M. Chadi Alraies, MD, MPH</i></p> <p>10:53 Panel discussion</p> <p>11:00 Innovation in vascular access <i>Mauricio Cohen, MD</i></p> <p>11:08 Panel discussion</p> <p>11:15 Innovation in antiplatelet management <i>Duane Pinto, MD, MPH</i></p> <p>11:23 Panel discussion</p> <p>11:30 Innovation in Social Media in Cardiology <i>M. Chadi Alraies, MD, MPH</i></p> <p>11:38 Panel discussion</p> <p>11:45 Innovation in cath lab safety <i>Yader Sandoval, MD</i></p> <p>11:53 Panel discussion</p>	<p><b>Master's Approach to Critical Limb Ischemia III</b> <span style="float: right;">CENTENNIAL FGH</span></p> <p><b>Moderators:</b> Karem Harth, MD, MHS; Philip Goodney, MD</p> <p><b>Panelists:</b> Mohammad Ansari, MD; Subhash Banerjee, MD; Joshua Beckman, MD; Justin Dunn, MD, MPH; Philip Goodney, MD; Karem Harth, MD, MHS; Christopher Huff, MD; Andrew Klein, MD; Peter Monteleone, MD</p> <p>10:30 How to build a research infrastructure for clinical trials <i>J. Antonio Gutierrez, MD, MHS</i></p> <p>10:38 How I follow-up my patients post revascularization <i>Joshua Beckman, MD</i></p> <p>10:45 Disparities in CLI treatment, how can we change this <i>Philip Goodney, MD</i></p> <p>10:53 I am proud of this limb salvage case <i>Peter Monteleone, MD</i></p> <p>11:00 My worst aortoiliac complication <i>Peter Monteleone, MD</i></p> <p>11:08 Panel Discussion</p> <p>11:15 My worst SFA complication <i>Justin Dunn, MD, MPH</i></p> <p>11:23 Panel Discussion</p> <p>11:30 Tibial perforation, how to manage <i>Mohammad Ansari, MD</i></p> <p>11:38 Panel Discussion</p> <p>11:45 Distal embolization, how to manage <i>Andrew Klein, MD</i></p> <p>11:53 Panel Discussion</p>												
12:00	<p><b>Break for Case Competition Finals</b></p>													
12:15 - 1:40	<p><b>Cardiovascular Innovations Case Competition Finals</b></p> <p><b>Moderators:</b> Subhash Banerjee, MD; Emmanouil Brilakis, MD, PhD; Mehdi Shishehbor, DO, MPH, PhD; Paul Sorajja, MD</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">12:15 Case 1 (Coronary)</td> <td style="width: 50%;">12:45 Case 4 (Coronary)</td> </tr> <tr> <td>12:20 Panel Discussion</td> <td>12:50 Panel Discussion</td> </tr> <tr> <td>12:25 Case 2 (Coronary)</td> <td>12:55 Case 1 (Peripheral)</td> </tr> <tr> <td>12:30 Panel Discussion</td> <td>1:00 Panel Discussion</td> </tr> <tr> <td>12:35 Case 3 (Coronary)</td> <td>1:05 Case 2 (Peripheral)</td> </tr> <tr> <td>12:40 Panel Discussion</td> <td>1:10 Panel Discussion</td> </tr> </table>		12:15 Case 1 (Coronary)	12:45 Case 4 (Coronary)	12:20 Panel Discussion	12:50 Panel Discussion	12:25 Case 2 (Coronary)	12:55 Case 1 (Peripheral)	12:30 Panel Discussion	1:00 Panel Discussion	12:35 Case 3 (Coronary)	1:05 Case 2 (Peripheral)	12:40 Panel Discussion	1:10 Panel Discussion
12:15 Case 1 (Coronary)	12:45 Case 4 (Coronary)													
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12:25 Case 2 (Coronary)	12:55 Case 1 (Peripheral)													
12:30 Panel Discussion	1:00 Panel Discussion													
12:35 Case 3 (Coronary)	1:05 Case 2 (Peripheral)													
12:40 Panel Discussion	1:10 Panel Discussion													
1:40	<p><b>Course Adjournment</b></p>													

CENTENNIAL E

## Passing the Limits of Occluder Therapy

**Moderator:** Rahul Sharma, MD

**Panelists:** Mario Goessl, MD, PhD

- 8:30 Unmet needs for LAA therapy  
*Kenneth Huber, MD*
- 8:37 Where are the boundaries for LAA closure?  
*Rahul Sharma, MD*
- 8:44 Let's open instead of closing  
*Scott Lilly, MD*
- 8:51 Do occluders need to permit septal recrossing?  
*Seun Alli, MD*
- 8:58 Suture-mediated defect closure  
*TBD*
- 9:05 When surgery is needed  
*Daniel O'Hair, MD*
- 9:12 Projections for PFO Therapy  
*TBD*
- 9:19 The CT will save your patient and you  
*Dee Dee Wang, MD*
- 9:26 Overcoming challenges with medical therapy for LAA closure  
*Mario Goessl, MD, PhD*
- 9:33 Undertreatment in LAA closure  
*Chad Kliger, MD*
- 9:40 Panel Discussion

CENTENNIAL E

## The Boundaries of Structural Heart Therapy III

**Moderator:** Gagan Singh, MD

**Panelists:** Seun Alli, MD; Paul Sorajja, MD

- 10:30 Complex mitral therapy  
*Maheedhar Gedela, MD*
- 10:37 Management of severe calcification  
*Mauricio Cohen, MD*
- 10:44 Best mitral case ever  
*Brinder Kanda, MD*
- 10:51 A case of transcatheter mitral therapy  
*Gagan Singh, MD*
- 10:58 A canted prosthetic valve  
*Chad Kliger, MD*
- 11:05 My best case in the last year  
*Srinivas Iyengar, MD*
- 11:12 A novel technique  
*Adnan Chhatriwalla, MD*
- 11:19 I didn't know my probe could do this  
*Richard Bae, MD*
- 11:26 Success outside the range for balloon-expanding prostheses  
*Lucy Safi, MD*
- 11:33 Embolism and retrieval  
*Mark Ricciardi, MD*
- 11:40 Panel Discussion

CENTENNIAL D

- 1:15 Case 1 (Structural)
- 1:20 Panel Discussion
- 1:25 Case 2 (Structural)
- 1:30 Panel Discussion
- 1:35 Awards presentation

**TRACKS** ■ CORONARY ■ PERIPHERAL ■ STRUCTURAL