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 **KFUPM**

 **HeartFusion 2025**
Conference
Advancing Cardiovascular Care and Bioengineering Innovation

A G E N D A
November 6 - 8, 2025



heartfusion-25.com

This conference is accredited for **24 CME hours** by the Saudi Commission for Health Specialties (SCFHS).

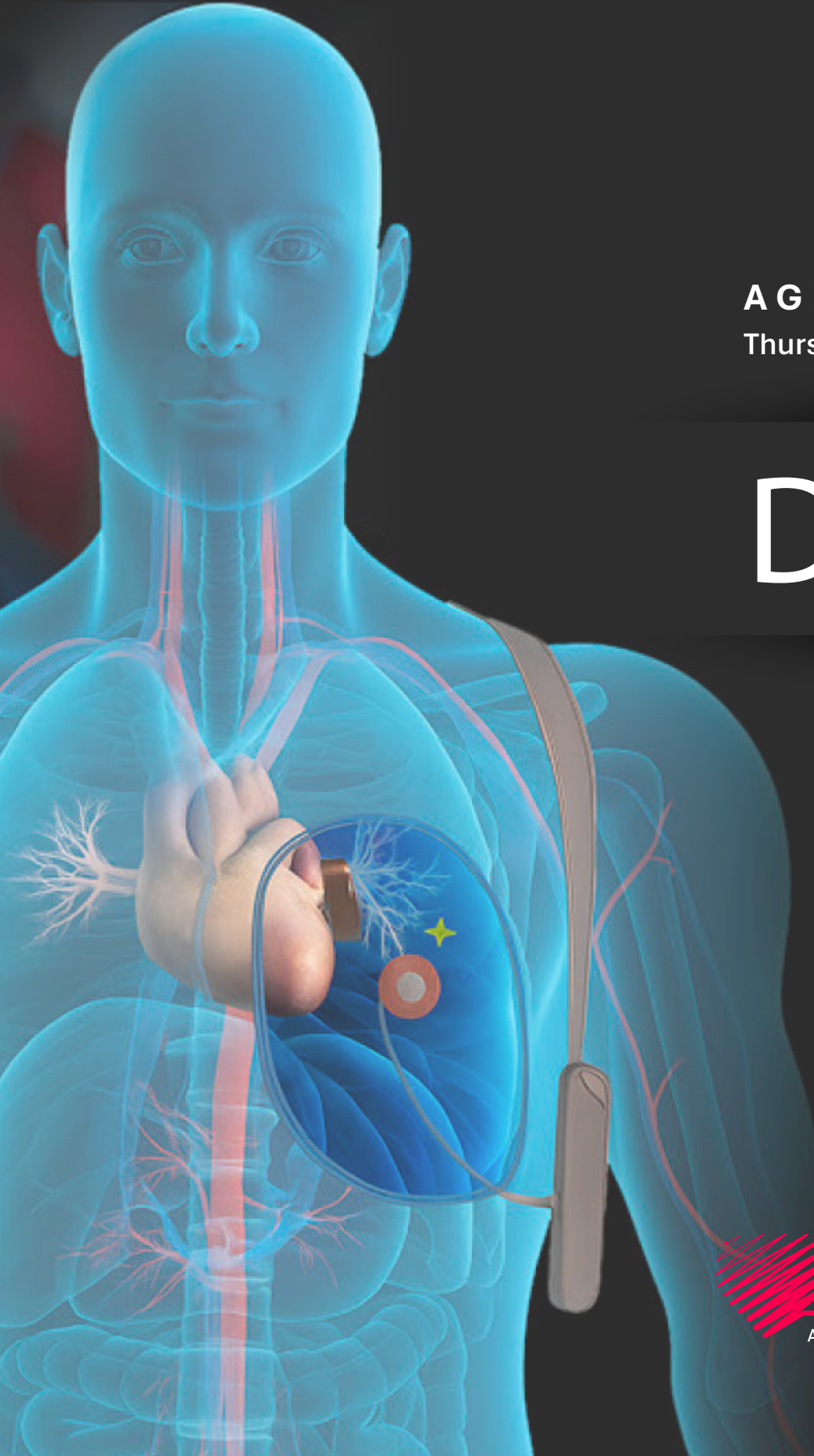
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AGENDA

Thursday, November 6, 2025

DAY 1



 **HeartFusion 2025**
Conference

Advancing Cardiovascular Care and Bioengineering Innovation

Day 1 Thursday, November 6, 2025

| Time | Topic | Speaker | Moderator | Panelist |
|--------------------------------|---|--|----------------------|----------------------------|
| Preventative Cardiology | | | | |
| 7:45 AM — 8:00 AM | Opening Remarks | Dr. Howard Podolsky JHAH, KSA | Dr. Tarek Al Hussein | |
| 8:00 AM — 8:15 AM | Burden of Hyperlipidemia in KSA and the Region | Dr. Tarek Al Hussein JHAH, KSA | | Dr. Ahmed Al Qudaimi |
| 8:15 AM — 8:30 AM | Treatment of Dyslipidemia in High-Risk Patients – Case-Based | Prof. Thorsten Leucker Johns Hopkins Medicine, USA | | Prof. Thorsten Leucker |
| 8:30 AM — 8:35 AM | Q&A | | | |
| 8:35 AM — 8:50 AM | Cardiovascular Risk Indicators Beyond LDL – Focus on Lp(a) | Prof. Thorsten Leucker Johns Hopkins Medicine, USA | | Dr. Naji Al Kholaif |
| 8:50 AM — 9:05 AM | Coronary CT Role in Cardiovascular Risk | Dr. Armin Zadeh Johns Hopkins Medicine, USA | | |
| 9:05 AM — 9:10 AM | Q&A | | | |
| 9:10 AM — 9:25 AM | Hypertriglyceridemia – Treatment Strategies | Prof. Thorsten Leucker Johns Hopkins Medicine, USA | | Dr. Ali Al Shehri |
| 9:25 AM — 9:40 AM | Cardiac Rehab for the Prevention of Cardiovascular Disease | Dr. Faisal Al Qoofi JHAH, KSA | | |
| 9:40 AM — 9:55 AM | AI-Powered Technology for Community-Based Screening and Triage for Prevention of Heart Failure | Prof. Manisha Nair University of Copenhagen, Denmark | | |
| 9:55 AM — 10:00 AM | Q&A | | | |
| 10:00 AM — 10:45 AM | Opening Ceremony | | | |
| 10:45 AM — 11:00 AM | Update in Hypertension – Treatment Targets | Dr. Islam Al Sisi JHAH, KSA | Prof. Manisha Nair | Dr. Islam Al Sisi |
| 11:00 AM — 11:15 AM | Resistant Hypertension: Definition, Treatment Goals, and the Role of Renal Denervation | Dr. Nabeel Ismael King Faisal Specialist Hospital, KSA | | Dr. Nabeel Ismael |
| 11:15 AM — 11:20 AM | Q&A | | | Prof. José Eduardo Krieger |
| 11:20 AM — 11:35 AM | Chronic Kidney Disease and Cardiovascular Risk: Focus on Prevalence and Targets for Treatment to Reduce Cardiovascular Risk | Dr. Ali Alshagag JHAH, KSA | | Dr. Ali Alshagag |
| 11:35 AM — 11:50 AM | Preventive Measures for Personalized Medicine | Prof. José Eduardo Krieger University of Sao Paulo, Brazil | | |
| 11:50 AM — 12:05 PM | Value-Based Care for Cardiovascular Prevention: A clinical Model to Maximize Preventive Impact | Dr. Anum Khan University of Toronto, Canada | | |
| 12:05 PM — 1:20 PM | Lunch / Prayer Break | | | |

Day 1 Thursday, November 6, 2025

| Time | Topic | Speaker | Moderator | Panelist |
|--|---|---|--------------------------|----------------------|
| Cardiovascular Disease in Special Populations | | | | |
| 1:20 PM — 1:35 PM | Prevention of Cardiotoxicity in Oncology Patients | Dr. Ismail Raslan King Saud University, KSA | Prof. Ilan Wittstein | Prof. Jose Madrazo |
| 1:35 PM — 1:50 PM | Peripartum Cardiomyopathy: Risk, Treatment, and Long-Term Outcomes | Prof. Ilan Wittstein Johns Hopkins Medicine, USA | | |
| 1:50 PM — 1:55 PM | Q&A | | | Dr. Maryam Al Qasser |
| 1:55 PM — 2:10 PM | Stress-Induced Cardiomyopathy: Insights into Treatment and Outcome | Prof. Ilan Wittstein Johns Hopkins Medicine, USA | | |
| 2:10 PM — 2:25 PM | Hypertrophic Cardiomyopathy Risk Stratification: Role of Genetic Testing | Prof. Jose Madrazo Johns Hopkins Medicine, USA | | Dr. Ismail Raslan |
| 2:25 PM — 2:30 PM | Q&A | | | |
| 2:30 PM — 2:45 PM | Treatment of Hypertrophic Cardiomyopathy – Focus on New Therapy | Prof. Jose Madrazo Johns Hopkins Medicine, USA | | |
| 2:45 PM — 3:00 PM | Cardiac Amyloidosis: Diagnostic Pathway | Prof. Dania Monty King Faisal Specialist Hospital, KSA | | Prof. Dania Monty |
| 3:00 PM — 3:15 PM | The Hidden Epidemic: Why Adult Congenital Heart Disease Is Outpacing Our System | Dr. Rawan Amir Mayo Clinic, USA | | |
| 3:15 PM — 3:30 PM | Break | | | |
| Cardiac Imaging | | | | |
| 3:30 PM — 3:45 PM | The Role of Echocardiography for Non-Cardiologists | Dr. Haliah Alshehri King Fahd Medical City, KSA | Dr. Tarek Al Hussein | Dr. Islam Al Sisi |
| 3:45 PM — 4:00 PM | Risk Stratification: Too Many Tests — Which One to Choose? Focus on Nuclear and Stress Echocardiography | Dr. Sami Ghazal Imam Abdulrahman Bin Faisal University, KSA | | Dr. Haliah Alshehri |
| 4:00 PM — 4:15 PM | Artificial Intelligence in Echocardiography: Current Applications and Future Directions | Prof. Jose Madrazo Johns Hopkins Medicine, USA | | Dr. Sami Ghazal |
| 4:15 PM — 4:30 PM | Application of AI in Cardiac Computerized Tomography: Diagnostic Accuracy | Prof. Jean Philippe University of Rochester, USA | | Dr. Ali Al Shehri |
| 4:30 PM — 4:35 PM | Q&A | | | |
| 4:35 PM — 4:40 PM | CT-FFR: Functional Assessment (Bridging Anatomy and Physiology – Clinical Impact – Workflow Integration) | Dr. Armin Zadeh Johns Hopkins Medicine, USA | Dr. Abdullah Al Khalifah | Dr. Armin Zadeh |
| 4:40 PM — 4:55 PM | Overview: Cardiac Magnetic Resonance Imaging in Cardiovascular Disease – The Modern Era | Dr. Abdullah Al Khalifah JHAH, KSA | | Prof. Jean Philippe |
| 4:55 PM — 5:10 PM | Cardiac CT in Acute Chest Pain Pathways (Rapid Roll-Out – Clinical Trials – Beyond Coronary Disease, PE, and Aortic Dissection) | Dr. Armin Zadeh Johns Hopkins Medicine, USA | | Dr. Islam Al Sisi |
| 5:10 PM — 5:25 PM | Cardiovascular Disease Progression Through AI-Powered Echocardiography | Dr. Maryam Alsharqi MIT, USA | | Dr. Farhad Nezami |
| 5:25 PM — 5:30 PM | Closing Remarks | Dr. Faisal Al Qoofi JHAH, KSA | | |

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AGENDA

Friday, November 7, 2025

DAY 2



 **HeartFusion 2025**
Conference

Advancing Cardiovascular Care and Bioengineering Innovation

Day 2 Friday, November 7, 2025

| Time | Topic | Speaker | Moderator | Panelist | |
|---|--|--|----------------------|-----------------------------|-------------------------------|
| Advanced Heart Failure and Cardiogenic Shock | | | | | |
| 8:55 AM — 9:00 AM | Opening Remarks | Dr. Faleh Al Thiyabi KFUPM, KSA | Dr. Fahad Al Sindi | | |
| 9:00 AM — 9:15 AM | Approaching Acute Decompensated Heart Failure in 2025 | Prof. Ilan Wittstein Johns Hopkins Medicine, USA | | | |
| 9:15 AM — 9:20 AM | Q&A | | | Dr. Faleh Al Thiyabi | |
| 9:20 AM — 9:35 AM | The Syndrome of Heart Failure with Preserved Ejection Fraction | Dr. Hani Sabbour Mediclinic, UAE | | | |
| 9:35 AM — 9:40 AM | Q&A | | | | |
| 9:40 AM — 9:55 AM | Biomarkers in Heart Failure: BNP and Beyond | Dr. Amr Badr Hamad Medical Corporation, Qatar | | | Prof. Ilan Wittstein |
| 9:55 AM — 10:00 AM | Q&A | | | | |
| 10:00 AM — 10:15 AM | Multi-Modality Imaging in Assessing Heart Failure Syndromes | Dr. Ahmed Bafadel Cleveland Clinic Abu Dhabi, UAE | | | |
| 10:15 AM — 10:20 AM | Q&A | | | | Dr. Maryam Al Qasser |
| 10:20 AM — 10:35 AM | Ischemic Cardiomyopathy: Does Revascularization Improve Pump Function? | Dr. Mahmoud Traina Cleveland Clinic Abu Dhabi, UAE | | | |
| 10:35 AM — 10:40 AM | Q&A | | | | |
| 10:40 AM — 10:55 AM | Heart Failure with Improved Ejection Fraction (HFimpEF): A Look into the Pillars of Therapies | Dr. Fahad Al Sindi JHAH, KSA | | | Dr. Ismail Raslan |
| 10:55 AM — 11:00 AM | Q&A | | | | |
| Lunch / Prayer Break | | | | | |
| 1:00 PM — 1:15 PM | Acute Cardiogenic Shock: When All Things Fail? | Dr. Fahad Al Sindi JHAH, KSA | Prof. Ilan Wittstein | Dr. Fahad Al Sindi | |
| 1:15 PM — 1:30 PM | Device-Based Therapies in the Era of GDMT: Should We Wait? | Dr. Hani Sabbour Mediclinic, UAE | | | |
| 1:30 PM — 1:35 PM | Q&A | | | Dr. Faleh Al Thiyabi | |
| 1:35 PM — 1:50 PM | The Heart Transplant Journey — Saudi Arabia Experience | Dr. Jehad Al Buraiki King Faisal Specialist Hospital, KSA | | | |
| 1:50 PM — 2:05 PM | Durable Mechanical Circulatory Support in Advanced Heart Failure: A True Alternative to Heart Transplantation? | Dr. Faleh Al Thiyabi / Prof. Arnt Fiane KFUPM, KSA / Oslo University, Norway | | | Prof. Ing. Jutta Arens |
| 2:05 PM — 2:10 PM | Q&A | | | | |
| 2:10 PM — 2:25 PM | Escaping Detection: The Advancing Heart Failure Patient | Dr. Nadya Al Matrooshi Cleveland Clinic Abu Dhabi, UAE | | | |
| 2:25 PM — 2:40 PM | Organ Mechanical Support: Emerging Solutions for Lungs & Kidney Impairment | Prof. Ing. Jutta Arens Twente University, Netherlands | | | Prof. Arnt Fiane |
| 2:40 PM — 2:45 PM | Q&A | | | | |
| Break | | | | | |
| 2:45 PM — 3:00 PM | | | | | |

Day 2 Friday, November 7, 2025

| Time | Topic | Speaker | Moderator | Panelist |
|---|---|---|----------------------|---------------------|
| Cardiac Arrhythmia and Device Therapy | | | | |
| 3:00 PM — 3:15 PM | Atrial Fibrillation Management and Role of Rhythm vs. Rate Control | Dr. Musa Al Harbi King Fahad Specialist Hospital, KSA | Dr. Saad Al Hasanlah | Dr. Musa Al Harbi |
| 3:15 PM — 3:30 PM | Atrial Fibrillation Ablation in Special Populations (Longstanding Persistent AF, CHF) | Dr. Amin Al Ahmed Texas Cardiac Arrhythmia, USA | | Prof. Jean Philippe |
| 3:30 PM — 3:45 PM | Anticoagulation for the Prevention of Stroke in Patients with AF | Dr. Wafa Aldawood King Fahad University Hospital, KSA | | Dr. Farhad Nezami |
| 3:45 PM — 4:00 PM | Premature Ventricular Contractions (PVCs): Are They All Benign? | Dr. Amin Al Ahmed Texas Cardiac Arrhythmia, USA | | |
| 4:00 PM — 4:10 PM | Q&A | | | |
| 4:10 PM — 4:25 PM | Device Therapy for a Patient with Cardiomyopathy | Dr. Nasir Al Hammad Almoosa Specialist Hospital, KSA | Dr. Amin Al Ahmad | Dr. Wafa Aldawood |
| 4:25 PM — 4:40 PM | Syncope Evaluation and Management | Dr. Saad Al Hasanlah JHAH, KSA | | Dr. Björn af Ugglas |
| 4:40 PM — 4:45 PM | Q&A | | | Dr. Mohammed Amin |
| 4:45 PM — 5:00 PM | Biosensor Optimization for Cardiovascular Patient Support / Heart Rhythm Monitoring and Patient Mapping | Dr. Farhad Nezami Harvard Medical School - MIT, USA | | |
| 5:00 PM — 5:15 PM | Cardiovascular Care System Optimization and Efficiency / Evidence Platform | Dr. Björn af Ugglas Karolinska Institute- Sweden | | |
| 5:15 PM — 5:20 PM | Q&A | | | |
| 5:20 PM — 5:35 PM | Heart Rhythm Monitoring for Heart Failure Patients | Prof. Ahsan Khandoker Khalifah University, UAE | | |
| 5:35 PM — 5:50 PM | Break | | | |
| AI Applications in Cardiovascular Care | | | | |
| 5:50 PM — 6:05 PM | Designing Tomorrow: Smarter Data, Smarter Technology, Better Care | Prof. Manisha Nair University of Copenhagen, Denmark | Dr. Rasha Alahmad | Dr. Momen Abyazid |
| 6:05 PM — 6:20 PM | Imaging Data Validation: Challenges and Potentials Beyond Digital Twins | Dr. Maryam Alsharqi MIT, USA | | Dr. Faisal Al Qoofi |
| 6:20 PM — 6:35 PM | AI and Clinical Data Imaging for Cardiovascular Diagnosis | Dr. Muzammil Behzad KFUPM, KSA | | Dr. Farhad Nezami |
| 6:35 PM — 6:50 PM | From Data to Trust: AI Driven Approach for Secure Healthcare Systems | Dr. Anis Elgabli KFUPM, KSA | | Dr. Maryam Alsharqi |
| 6:50 PM — 6:55 PM | Q&A | | | |
| 6:55 PM — 7:00 PM | Closing Remarks | Dr. Faisal Al Qoofi JHAH, KSA | | |

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AGENDA

Saturday, November 8, 2025

DAY 3

 HeartFusion 2025
Conference
Advancing Cardiovascular Care and Bioengineering Innovation

Day 3 Saturday, November 8, 2025

| Time | Topic | Speaker | Moderator | Panelist |
|--------------------------------|--|---|-----------------------|-------------------------------|
| Coronary Artery Disease | | | | |
| 7:55 AM — 8:00 AM | Opening Remarks | Dr. Faisal Al Qoofi JHAH, KSA | Dr. Khalid Al-Faraidy | |
| 8:00 AM — 8:15 AM | Acute Coronary Syndrome Management | Dr. Hani Abdel Hadi Mouwasat Medical Services, KSA | | |
| 8:15 AM — 8:30 AM | Dual Antiplatelet Agent: What Is the Right Duration? | Dr. Hussain Al-Zayer Saud Al-Babtain Cardiac Center, KSA | | Dr. Abdullah Alshehri |
| 8:30 AM — 8:35 AM | Q&A | | | |
| 8:35 AM — 8:50 AM | Diagnosis and Treatment of Acute Coronary Syndrome without Obstructive Coronary Artery | Dr. Read Alkutshan Royal Commission Hospital, KSA | | Dr. Fawaz Almutairi |
| 8:50 AM — 9:05 AM | ST-Segment Elevation MI: Pathway to Improve Door-to-Balloon Time | Dr. Hamed Al Ghamdi Saudi German Hospital, KSA | | |
| 9:05 AM — 9:10 AM | Q&A | | | |
| 9:10 AM — 9:25 AM | Stable Angina: Treatment Outcome | Dr. Ali Shehri JHAH, KSA | | Dr. Ali Abualsaud |
| 9:25 AM — 9:40 AM | Outcome Measures in Coronary Artery Disease: Insights from the NCDR | Dr. Faisal Al Qoofi JHAH, KSA | | |
| 9:40 AM — 9:45 AM | Q&A | | | |
| 9:45 AM — 10:00 AM | Revascularization Strategies for Multivessel Coronary Artery Disease: Focus on PCI | Dr. Ali Abualsaud Imam Abdulrahman Bin Faisal University, KSA | | Dr. Emanoul AKO |
| 10:00 AM — 10:15 AM | The Role of the Heart Team in Contemporary Clinical Practice | Dr. Faisal Al Qoofi JHAH, KSA | | |
| 10:15 AM — 10:20 AM | Q&A | | | |
| Break | | | | |
| 10:35 AM — 10:50 AM | Robotic Cardiac Surgery: The Good, the Bad, and the Ugly | Dr. Uthman Al Othman King Faisal Specialist Hospital, KSA | Dr. Khalid Algarni | Dr. Mohammed Alaklabi |
| 10:50 AM — 11:05 AM | Innovations in Motion: Robotic Technique for Safe and Effective Heart Surgery | Dr. Momen Abyazid KFUPM, KSA | | |
| 11:05 AM — 11:10 AM | Q&A | | | Dr. Fahad Makhdoom |
| 11:10 AM — 11:25 AM | Minimally Invasive Approaches to Coronary Artery Revascularization | Dr. Fahad Makhdoom King Fahd University Hospital, KSA | | |
| 11:25 AM — 11:40 AM | Insights from the STS Database on Patient Outcomes Post Coronary Artery Bypass Graft | Dr. Khaled Algarni JHAH, KSA | | Dr. Ricardo Lima |
| 11:40 AM — 11:45 AM | Q&A | | | |
| 11:45 AM — 12:00 PM | Role of CABG in Patients with Advanced Cardiomyopathy: When and How? | Dr. Waleed Abo Khudair King Fahad Armed Forces Hospital, KSA | | |
| 12:00 PM — 12:15 PM | Strategic Approaches to Multivessel Coronary Artery Revascularization | Dr. Ricardo Lima Recife Cardiovascular Institute, Brazil | | Dr. Waleed Abo Khudair |
| 12:15 PM — 12:20 PM | Q&A | | | |
| 12:20 PM — 12:50 PM | Closing Ceremony | | | |
| Lunch/Prayer Break | | | | |

Day 3 Saturday, November 8, 2025

| Time | Topic | Speaker | Moderator | Panelist |
|---|---|---|------------------------|------------------------|
| Vascular Medicine | | | | |
| 1:20 PM — 1:35 PM | Recognition and Management of PAD | Dr. Ying Wei Lum Johns Hopkins Medicine, USA | Dr. Mustafa Fleet | Dr. Ying Wei Lum |
| 1:35 PM — 1:50 PM | Acute Limb Ischemia | Dr. Ying Wei Lum Johns Hopkins Medicine, USA | | Dr. Shagran Binkhamis |
| 1:50 PM — 2:05 PM | Role of Vascular Surgery in PAD | Dr. Tareq Barakat JHAH, KSA | | Dr. Tareq Barakat |
| 2:05 PM — 2:20 PM | Endovascular Management of PAD | Dr. Shagran Binkhamis King Faisal Specialist Hospital, KSA | | |
| 2:20 PM — 2:35 PM | Debranching Repair of Aortic Arch Aneurysm: Technique and Results | Dr. Samer Kussayer Rashid Hospital, UAE | | |
| 2:35 PM — 2:40 PM | Q&A | | | |
| 2:40 PM — 2:55 PM | Residual False Lumen after Acute Type A Aortic Dissections : Challenges & Innovative Approach | Dr. Rafael Astudillo Uppsala University, Sweden | Dr. Shagran Bin Khamis | Dr. Stephane Garrigue |
| 2:55 PM — 3:10 PM | Update on Total Endovascular Repair of Aortic Arch Aneurysm | Dr. Samer Kussayer Rashid Hospital, UAE | | Dr. Samer Kussayer |
| 3:10 PM — 3:25 PM | How to Prevent Stroke During TAVR and TAVI Procedures | Dr. Samer Kussayer Rashid Hospital, UAE | | Dr. Asim Shah |
| 3:25 PM — 3:40 PM | Carotid Artery Disease: When to Refer for Carotid Endarterectomy or Stenting | Dr. Ying Wei Lum Johns Hopkins Medicine, USA | | Dr. Ying Wei Lum |
| 3:40 PM — 3:55 PM | Interesting Cases from Vascular Surgery | Dr. Shagran Binkhamis/ Dr. Asim Shah King Faisal Specialist Hospital/ JHAH, KSA | | |
| 3:55 PM — 4:00 PM | Q&A | | | |
| Cardiac Innovations in Biotechnology | | | | |
| 4:00 PM — 4:15 PM | Bioengineering in Cardiovascular Medicine: From Bench to the Bedside | Dr. Farhad Nezami Harvard Medical School - MIT, USA | Dr. Maryam Alshardi | Dr. Manisha Nair |
| 4:15 PM — 4:30 PM | From Concept to Clinic: Showcasing Bioengineering Solutions in Cardiovascular Care | Prof. Jean Philippe University of Rochester, USA | | Dr. Stephane Garrigue |
| 4:30 PM — 4:45 PM | Optimizing Design and Bioengineering for Cardiac Innovations: Durability and Compatibility | Dr. Ahmed Dalaq KFUPM, KSA | | Prof. Ing. Jutta Arens |
| 4:45 PM — 4:50 PM | Q&A | | | |
| 4:50 PM — 5:05 PM | Closing Remarks | Dr. Faisal Al Qoofi / Dr. Faleh Al Thiyabi JHAH/KFUPM, KSA | | |