

# Dalhousie University Cardiovascular Sciences Research Day

Monday, March 25, 2024



## **Schedule At-a-Glance**

0800 - 0900	KEYNOTE ADDRESS – QEII RBC Theatre
1100 - 1115	LUNCH PICKUP – QEII Summer St Lobby
1120 - 1220	POSTER SESSION I – QEII Summer St Lobby
1225 - 1230	OPENING REMARKS – QEII RBC Theatre
1230 - 1355	ORAL SESSION I – QEII RBC Theatre
1400 - 1410	COFFEE BREAK
1410 - 1510	POSTER SESSION II – QEII Summer St Lobby
1520 - 1645	ORAL SESSION II – QEII RBC Theatre
1650 - 1500	CLOSING REMARKS & AWARDS – QEII RBC Theatre

## **Masking Requirements for In-person Attendance**

Masks are required and must be worn when not actively eating/drinking.

## **Zoom Link (for Keynote Address)**

Meeting ID: 815 0856 9278; Passcode: 861346

<https://us02web.zoom.us/j/81508569278?pwd=clJVWlFJbTg3NWhaUnhJNU5DNFpMdz09>

## **Zoom Link (for Oral Sessions)**

Meeting ID: 883 0269 1976; Passcode: 032524

<https://us02web.zoom.us/j/88302691976?pwd=QWxxNVdUOTViS1QwcG1aN3FBBeDZBQT09>

## Detailed Schedule

0800 - 0900 KEYNOTE ADDRESS – QEII RBC Theatre

<https://us02web.zoom.us/j/81508569278?pwd=cjJVWlFJbTg3NWwhaUnhJNU5DNFpMdz09>



Shamir Mehta  
*MD, PhD, FRCPC*  
*Professor of Medicine,*  
*McMaster University, Hamilton*

**Complete revascularization in patients with acute coronary syndromes and multivessel coronary artery disease: current management and future directions**

Dr. Shamir Mehta is the Douglas A. Holder Endowed Chair and Professor of Medicine at McMaster University. He directs the Royal College fellowship in interventional

cardiology and leads the mitral and tricuspid valve transcatheter edge-to-edge repair programs at Hamilton Health Sciences and McMaster University. He completed medical school and post graduate training at the University of Toronto, followed by a research fellowship at McMaster University where he was supported by a Canadian Institutes of Health Research New Investigator Award. He is a Senior Scientist at the Population Health Research Institute where he leads landmark clinical trials evaluating revascularization strategies and novel pharmacologic interventions in patients with acute coronary syndromes. Dr. Mehta is currently the Principal Investigator of the COMPLETE-2 trial, a 5,100-patient multinational trial evaluating the role of physiology-guided versus angiography-guided PCI strategies to treat non-culprit lesions in patients with ACS and multivessel coronary artery disease, including a large-scale intracoronary imaging study using optical coherence tomography to predict cardiovascular events. He is a member of the executive committee of the Librexia ACS trial evaluating a novel Factor XIa inhibitor in ACS and he is a steering committee member of OCEAN(a) evaluating targeted lowering of lipoprotein(a) with a novel small interfering RNA after ACS or PCI.

Dr. Mehta has published hundreds of research articles and holds millions of dollars in peer review research grants from CIHR and industry. In 2022, he was honoured with the Canadian Cardiovascular Society's Research Achievement Award.

## 1100 - 1115 LUNCH PICKUP

## 1120 - 1220 POSTER SESSION I – QEII Summer St Lobby

1. **Benjamin Peterson** Prevalence of Peripheral Arterial Disease in a Nova Scotian context through the lens of Ankle Index Measurements (*Cardiology*)
2. **Jing Xian Quah** Adjunctive Vein of Marshall ethanol infusion for persistent atrial fibrillation and atypical atrial Flutter: A single centre experience (*Cardiology*)
3. **Danika Knight** Percutaneous Endovascular Transfemoral Repair of a Ruptured Type III Thoracoabdominal Aortic Aneurysm (*CV Surgery*)
4. **Donovan Cassidy-Nolan** A Rare Pair: Two Cases of Pulmonary Artery Aneurysm due to Granulomatous Vasculitis (*CV Surgery*)
5. **Brianna Latremouille** Effects of an Acute Increase in Afterload on Rabbit Ventricular Cardiomyocyte Microtubule Density and Detyrosination (*DaICREW*)
6. **Shannon Dallaire** An Experimental Model to Determine the Effects and Mechanisms of Increased Hemodynamic Load on Heart Rate in Adult Zebrafish (*DaICREW*)
7. **Amelia Reiner** Effects of Cannabinoid Receptor Activation on Cardiac Function in Developing Zebrafish Embryos (*DaICREW*)
8. **Emma Savoie** Optogenetic-Based Models of Tachypacing- and Autonomic Overdrive-Induced Heart Failure in Larval Zebrafish (*DaICREW*)
9. **Abhishek Mishra** Genetic ablation of NPRA in mice leads to abnormal cardiac development and perinatal mortality. Presented by Shuchita Tiwari and Danielle Dufily (*DaICREW*)
10. **Danielle Dufily** Impact of genetic mutations of natriuretic peptide receptor A (NPRA) on cell proliferation and protein translation in Hek293 cells and mouse hearts (*DaICREW*)
11. **Elise S Bisset** Dietary Nitrates Blunt Beneficial Cardiac Adaptations Induced by Exercise in Male and Female Mice (*DaICREW*)
12. **Jessi Bak** Microtubule Detyrosination and Transient Receptor Potential Ankyrin 1 Channels are Determinants of Mechanically-Induced Arrhythmias in the Rabbit Isolated Heart (*DaICREW*)
13. **Samantha Lavallee** Haptoglobin phenotype, intensive blood pressure control, and risk of incident cardiovascular disease, coronary artery disease, and stroke within the Action to Control Cardiovascular Risk in Diabetes (ACCORD) randomized control trial (*DaICREW*)

**1225 - 1230 OPENING REMARKS – QEII RBC Theatre**

**1230 - 1355 ORAL SESSION I (10 min talks) – QEII RBC Theatre**

<https://us02web.zoom.us/j/88302691976?pwd=QWxxNVdUOTViS1QwcG1aN3FBBeDZBQT09>

1. **Anu Jose** Cardiac Overexpression of Lipid Phosphate Phosphatase 3 Protects Female but Not Male Mice From High Fat Diet-Induced Cardiometabolic Dysfunction (*DaICREW*).
2. **Loukman Ghouti** Beyond the valve: Investigating long-term outcomes for TAVI patients. (*Cardiology*)
3. **Joel Bierer** The First Human Application of Sparse Identification of Nonlinear Dynamics (SINDy): Modeling Complement Activation during Pediatric Cardiac Surgery (*CV Surgery*)
4. **Kyle R.D. Wells** Correlating Frailty Index Scores of a Spontaneously Hypertensive Aged Rat Model with Heart Failure Histopathology (*DaICREW*)
5. **Tony Haddad** Ticagrelor vs Rivaroxaban: Effects on hemostasis thrombotic and inflammatory biomarkers (*Cardiology*)
6. **Julia Paffile** The Contribution of Sternotomy in the Inflammatory Response to Cardiac Surgery in Children (*CV Surgery*)

**1400 - 1410 COFFEE BREAK**

**1410 - 1510 POSTER SESSION II – QEII Summer St Lobby**

1. **Bethanny Wilkes** A cardiac presentation of Diffuse Large B Cell Lymphoma (*Cardiology*)
2. **Mark Bartolacci** Impact of competency based medical education on cardiology resident physicians (*Cardiology*)
3. **Takhliq Amir** A Combined Approach to Coronary and Peripheral Arterial Revascularization: A Case Report (*CV Surgery*)
4. **Erin Gaudette** Retroperitoneal Approach for Ilio-Superior Mesenteric Artery Bypass: A Local Case Series (*CV Surgery*)
5. **Eva Abou-Samra** Using Extracellular Matrix Composition to Predict Mechanical Demands of the Bovine Fetal Mitral Valve (*DaICREW*)
6. **Meghan Martin** Compartmentalized Development of The Chordae Tendineae and Anterior Leaflet of The Bovine Mitral Valve (*DaICREW*)
7. **Valerie Metlege** Remodeling of myocardial collagen during pregnancy: changes in mechanical and thermomechanical properties in a bovine model (*DaICREW*)
8. **Victoria L Nelson** The Role of Yap Signaling in Stressors Associated with Myocardial Infarction (*DaICREW*)
9. **Shuchita Tiwari** MicroRNA expression profiles in experimental

models of aortic aneurysm (*DaICREW*)

10. **Haya AbdelWahab** Cardiac Vascular Progenitor Cells in Right Ventricular Remodeling (*DaICREW*)
11. **Gurpreet Kaur** Loss of Transcription Factor EB Exacerbates Metabolic Maladaptation and Cardiac Dysfunction During Diet-Induced Obesity (*DaICREW*)

## 1520 - 1645 ORAL SESSION II (10 min talks) – QEII RBC Theatre

<https://us02web.zoom.us/j/88302691976?pwd=QWxxNVdUOTViS1QwcG1aN3FBBeDZBQT09>

1. **Dominique de Waard** Implementation of Staphylococcus aureus screening and decolonization in cardiac surgery patients at the Halifax Infirmary in Nova Scotia, Canada (*CV Surgery*)
2. **Suyeon Sarah Kim** Assessment of Implementing 3D-Printed Models in Undergraduate Medical Education in Congenital Heart Disease (*Cardiology*)
3. **Meghan Martin** Remodeling of The Maternal Mitral Valve During Pregnancy: A Recapitulation of Fetal Development? (*DaICREW*)
4. **Erin Gaudette** Local anesthesia for endovascular repair of abdominal aortic aneurysm allows for accurate graft deployment with durable results (*CV Surgery*)
5. **Nathan Flores Miranda** Post Atrial Fibrillation Ablation Pericarditis: Incidence, Treatment and Recurrence of Atrial Fibrillation (*Cardiology*)
6. **Ahmed F. Ramadan** Light-Gated Potassium Channels Shorten the Action Potential and Suppress Premature Excitation without Arrhythmogenic Risk (*DaICREW*)

## 1650 - 1500 CLOSING REMARKS & AWARDS – QEII RBC Theatre

<https://us02web.zoom.us/j/88302691976?pwd=QWxxNVdUOTViS1QwcG1aN3FBBeDZBQT09>

1. **Dr Magda Horackova Research Prize** (*DaICREW*)
2. **Dr Martin Gardner Cardiology Research Prize** (*Cardiology*)
3. **Dr David Murphy Cardiac Surgery Research Prize** (*CV Surgery*)

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