

# UPDATE: Winter 2024

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*APPROACH's mission is to collect and process information to improve cardiac care for all.*

## **Primary APPROACH contacts:**

**Dr. Stephen Wilton**  
*Principal Investigator*

**Dr. Matthew James**  
*Research Director*

**Maria Dalton**  
*Research Coordinator*

Thank you to all of our partners and staff at Foothills Medical Centre, CK Hui Heart Institute, and Mazankowski Heart Institute for their continued support as we introduce new initiatives to improve the cardiac care of Albertans.

## **Current APPROACH Projects**

### **IMPROVE CV Care:**

*AIM 1* - Implement an ePROM data collection for all patients undergoing invasive testing for CHD in Alberta

*AIM 2* - Design and test educational programs for patients and families as well as clinicians

*AIM 3* - Conduct a pilot testing of the individualized ePROM reporting tool within ambulatory cardiology care in Alberta using a pre-post design

**OPCM-CAD:** This study seeks to develop a tool that can be used to communicate personalized risk information to patients to support shared decision making for CAD management.



Photo taken at the Fall 2023 APPROACH Patient Advisor Luncheon  
L-R: Danielle Southern, Dr. Stephen Wilton, Wayner Gerber, Winnie Pearson, Danise Kruger, Dr. Matthew James, Todd Wilson, Julie Babione, Maria Dalton, Dr. Bryan Har

# Recent Peer-Reviewed Publications

Patel, S., Fung, M., Liang, Z., Butalia, S., & Anderson, T. J. (2023). **Temporal Trends of the Prevalence of Angina With No Obstructive Coronary Artery Disease (ANOCA)**. Canadian Journal of Cardiology, 39(1), 63-70.

Ozemek C, Arena R; Rouleau CR, Campbell TS, Hauer T, Wilton SB, Stone J, Laddu D, Williamson TM, Liu H, Chirico D, Austford LD, Aggarwal S. **Long-Term Maintenance of Cardiorespiratory Fitness Gains After Cardiac Rehabilitation Reduces Mortality Risk in Patients With Multimorbidity**. Journal of Cardiopulmonary Rehabilitation and Prevention. (2022).

Liu H, Southern DA, Arena R, Sajobi T, Aggarwal S, James MT, Wilton SB. **Cardiac Rehabilitation and Risk of Incident Atrial Fibrillation in Patients With Coronary Artery Disease**. Canadian Journal of Cardiology 38(10) 1621-1628 (2022).

Lawal, O.A., Awosoga, O., Santana, M.J. et al. **Measurement invariance of the Seattle Angina Questionnaire in coronary artery disease**. Qual Life Res 31, 1223–1236 (2022).

Ma B, Faris P, Har BJ, Tyrrell B, Benterud E, Spertus JA, Pannu N, Manns BJ, Graham MM, James MT. **Development and Evaluation of an Audit and Feedback Process for Prevention of Acute Kidney Injury During Coronary Angiography and Intervention**. CJC Open 4(3), 271-281 (2022).

James MT, Har BJ, Tyrrell BD, et al. **Effect of Clinical Decision Support With Audit and Feedback on Prevention of Acute Kidney Injury in Patients Undergoing Coronary Angiography: A Randomized Clinical Trial**. JAMA. 2022;328(9):839–849.

Hijazi W, Leslie W, Filipchuk N, Choo R, Wilton S, James M, Slomka PJ, Miller RJH. **External validation of the CRAX2MACE model**. J Nucl Cardiol. 2022.

de Souza ESCG, Buginga GC, de Souza e Silva ESEA, Arena R, Rouleau CR, Aggarwal S, Wilton SB, Austford L, Hauer T, Myers J. **Prediction of Mortality in Coronary Artery Disease: Role of Machine Learning and Maximal Exercise Capacity**. Mayo Clinic Proceedings. 2022.

## Current Research Grants

Alberta Health Services HHS-Fund 2 years

Can-SOLVE CKD CIHR SPOR Chronic Disease Network Grant

Alberta Innovates

Canadian Institutes of Health Research Chronic Disease SPOR Network Grant

Can SOLVE Chronic Kidney Disease, Phase 2.0 Knowledge Mobilization and Implementation Science Grant

Alberta Innovates – Accelerating Innovations into CarE (AICE) – Concepts Grant

Canadian Institutes of Health Research

Canadian Institutes of Health Research, Strategic Patient Oriented Research - Innovative Clinical Trials Multi-Year Grant

## Partners



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