High-Sensitivity Cardiac Troponin - A Canadian Viewpoint from CIHR funded studies

Friday May 30, 2014

Juravinski Cancer Center Lecture Theatre (4th floor)
699 Concession St. Hamilton, ON L8V 5C2

8:50-9:00 Welcome and Introduction

Introduction to High-Sensitivity Cardiac Troponin – Current State

9:00-9:45 International Guidelines and High-Sensitivity Cardiac Troponin (A. Jaffe)

9:50-10:20 High-Sensitivity Cardiac Troponin: Analytical Characteristics and CIHR Completed Studies (P. Kavsak)

10:25-10:35 Coffee Break

10:40-11:25 Important Considerations for Establishing a Reference Interval and Using High-Sensitivity Cardiac Troponin Assays (P. Hickman)

11:30-12:15 High-Sensitivity Troponin in the Evaluation of Patients With Acute Coronary Syndrome: A Randomized Controlled Trial (N. Mills)

12:20-1:00 Lunch provided for Registrants

Current CIHR Studies

1:00-1:30 Cardiac Troponin and Sex Differences in Outcomes (K. Humphries)

1:35-2:05 Clinical and Operational Experience with hs-TnT in Four Large Urban Emergency Departments, and Plans for Optimization of Assay Utilization (A. McRae)

2:10-2:40 Determining the Optimum Treatment Cutoffs For High-Sensitivity Troponin Assays in Patients Presenting to the Emergency Department with Suspected Cardiac Ischemia (A. Worster)

2:45-3:00 Coffee Break

3:00-3:45 Vascular events In noncardiac Surgery patients cOhort evaluatioN (VISION) Study (P. Devereaux)

Future Areas for High-Sensitivity Cardiac Troponin Testing

3:50-4:15 Cardiac Surgery (A. Lamy & R. Whitlock)

4:20-4:45 Cardio-Oncology (S. Dhesy-Thind)

4:50-5:00 Concluding Remarks & Adjournment

For Free Registration or additional questions please email: cbadmin@mcmaster.ca

McMaster University
Escarpmnt Cancer Research Institute
Meeting Co-Chairs

Dr. Kavsak is a certified Clinical Biochemist and a Fellow of both the Canadian and American Academies of Clinical Biochemistry. His major interests are in diagnostic test development, clinical utility of laboratory tests and novel technologies for clinical chemistry, with special interest in cancer and cardiac biomarkers. His work in this area has garnered financial support from public funding bodies and industry as well as several awards, most notably the Canadian Society of Clinical Chemists Award for Research Excellence. He is presently an Associate Professor in the Department of Pathology and Molecular Medicine at McMaster University as well as a Scientist in the Escarpment Cancer Research Institute within Hamilton Health Sciences. In addition to providing clinical service within the Hamilton Regional Laboratory Medicine Program, he is also a member of the Hamilton Integrated Research Ethics Board as well as the Editor-in-Chief for *Clinical Biochemistry*.

Dr. Worster is a former Director of the Division of Emergency Medicine and former Chair of the international knowledge translation project, Best Evidence in Emergency Medicine (*BEEM*), at McMaster University. He is an associate professor and research director of emergency medicine. His research focuses on the utilization and evaluation of diagnostic tests in emergency medicine is funded by the Canadian Institutes of Health Research.

Invited Speakers

Dr. Allan Jaffe is a graduate of the University of Maryland School of Medicine. He received his house staff and Cardiology training at Washington University and continued there for 22 years rising to the rank of Professor of Medicine and Director of the Coronary Care Unit. He then moved to the State University of New York where he was Chair of the Cardiovascular Division, Associate Chair of Medicine for Academic Affairs, and Professor of Medicine. After four years he moved to the Mayo Clinic where he is presently Professor of Medicine in the Cardiovascular Division and Professor and Chair of the Division of Core Clinical Laboratory Services in the Department of Laboratory Medicine and Pathology. He is a noted authority on biomarkers of cardiac injury, inflammation, hemodynamic disturbance, and coagulation and particularly their clinical utility. He has published a large number of original manuscripts, book chapters, reviews, and sits on most of the prestigious editorial boards and guideline committees in the Cardiology and Clinical Chemistry communities.
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Faculty for CIHR sponsored Meeting

Dr. Peter Hickman is currently Director of Chemical Pathology at the Canberra Hospital and Associate Professor at the Australian National University Medical School in Canberra which is in the Australian Capital Territory. He is Deputy Chair of the ACT Health Human Research Ethics Committee.

He was previously the Director of Chemical Pathology at the Princess Alexandra Hospital in Brisbane. For 6 years he was the Chief Examiner in Chemical Pathology, for the Royal College of Pathologists of Australasia.

His research interests have concentrated on the non-acute coronary syndrome causes of cardiac troponin elevations.

Dr. Nicholas Mills was born in Glasgow and raised in Scotland and North America. His research interests are to understand mechanisms of vascular and myocardial injury in patients with coronary heart disease, and develop novel therapeutic approaches to promote vascular repair and improve clinical outcomes.

He is a member of the Cardiovascular Outcomes Research Edinburgh (CORE) group, which brings together researchers from the Centres for Cardiovascular Science and Population Health Sciences with support from the Edinburgh Clinical Trials Unit. CORE aims to improve clinical outcomes for patients with cardiovascular disease by harnessing the potential of national electronic health records to systematically evaluate the impact of changes in practice on clinical outcomes.

Dr. Karin Humphries is an Associate Professor in the Faculty of Medicine at the University of British Columbia and holds the UBC-Heart and Stroke Foundation Professorship in Women's Cardiovascular Health. She is the inaugural Scientific Director for the BC Centre for Improved Cardiovascular Health. In this role, Dr. Humphries is committed to improving health outcomes for British Columbians at risk for, or living with cardiovascular disease by generating and applying new evidence to improve the delivery of cardiovascular care in BC. Dr. Humphries has a doctoral degree in epidemiology and a background in biochemistry, kinesiology and experimental pathology. Her primary research focus is on sex differences in the diagnosis, treatment and outcomes of patients with coronary heart disease. She is currently conducting studies on the sex differences in health-related quality of life in young adults (<55 years) and conducting interviews with patients and physicians to understand what influences mid-life men and women to adopt lifestyle changes following hospitalization for their first heart attack. Dr. Humphries holds several grants from the Canadian Institutes of Health Research and the Heart and Stroke Foundation of Canada.
Dr. McRae is a clinician-scientist and research director of the Department of Emergency Medicine at the University of Calgary. He holds research grants from the Canadian Institutes of Health Research and Alberta Innovates Health Solutions focusing on the measurement of emergency department crowding and clinical and operational aspects of emergency cardiovascular care.

Dr. Devereaux obtained his MD from McMaster University (1994). After medical school he completed a residency in internal medicine at the University of Calgary and a residency in cardiology at Dalhousie University. He then completed a PhD in Clinical Epidemiology at McMaster University. Dr. Devereaux holds a Heart and Stroke Foundation of Ontario Career Investigator Award. He is the Head of Cardiology and the Perioperative Cardiovascular Clinical Program at the Juravinski Hospital and Cancer Centre. He is also the Scientific Leader of the Perioperative Medicine and Surgical Research Group at the Population Health Research Institute. The focus of his clinic research is vascular complications around the time of surgery. He is undertaking several large international RCTs and observational studies addressing this issue. Dr. Devereaux has published over 160 peer reviewed papers and 46 editorials, book chapters, and commentaries.

Dr. Andre Lamy is a cardiac surgeon practicing at the Hamilton Health Sciences since 1996. He is a Professor in the Department of Surgery at McMaster University and an Associate member in the Department of Clinical Epidemiology and Biostatistics at McMaster University. He is also an active member of the cardiac surgery group at the Population Health Research Institute in Hamilton. He has been involved in clinical research since the beginning of his career and has collaborated with most research groups, pharmaceutical and device companies around the world. His interests are centered on large randomized controlled trials (RCT) and health economics.

Dr. Lamy received a large grant from the Canadian Institutes of Health Research in 2007 for the CORONARY trial. CORONARY is a large multi centered randomized trial of off-pump CABG surgery versus on-pump CABG surgery. CORONARY has recruited and randomized 4,752 patients from 79 centers in 19 countries around the world.
Dr. Whitlock is a Principal Investigator for the Cardiovascular Surgery program at the Population Health Research Institute. Dr. Whitlock is currently an Associate Professor within the Department of Surgery at McMaster University. He holds a Bachelor of Science, a Masters of Health Research Methodology and Clinical Epidemiology and a PhD in Health Research Methodology from McMaster University. He completed his Medical Degree from the University of Toronto, and his residency in cardiac surgery and fellowship in critical care medicine at McMaster University. Dr. Whitlock has been awarded many honors for his various accomplishments including the Ted Thomas Prize from McMaster University and the Anemia Institute’s Award for Research and Education. He is a lead investigator for the CIHR funded studies SIRS, LAAOS III, and TRICS III. The SIRS trial completed in December 2013 and represents the largest clinical trial ever performed in cardiac surgery.

Dr. Dhesy is an Associate Professor in the Department of Oncology at McMaster University. She is also a staff medical oncologist at the Juravinski Cancer Centre at Hamilton Health Sciences (JCC). She obtained her medical degree at Queen’s University in Kingston, Ontario. She is trained in internal medicine and medical oncology, and is a Fellow of the Royal College of Physicians and Surgeons of Canada. She completed a Masters of Science in Health Research Methodology at McMaster University. Dr. Dhesy is the Department Education Coordinator for the Department of Oncology. She is also a member of Cancer Care Ontario’s Practice Guideline Initiative, Provincial Breast Disease Site Group. She is an investigator on several NCIC CTG and industry-sponsored multicentre phase III clinical trials in breast and gastrointestinal cancer. Dr. Dhesy has a research interest in Breast and Gastrointestinal Oncology Trials, translational research, investigational new agents and clinical practice guidelines.