

## SMArTVIEW research project

- **Summary of the proposal:**

Each year, tens and thousands of seniors in Canada and the U.K. have major cardiac and vascular surgeries and while these surgeries are meant to save lives, and improve and quality of life, there are challenges which threaten patient safety. The current system does not provide enough patient monitoring and support on surgical units or during recovery at home. Many patients develop chronic pain and life threatening complications such as infections or heart attack. The fragmented nature of cardiac and vascular care has serious implications for the sustainability of the healthcare system; it is estimated that 30% of healthcare costs are attributable to waste borne out of inefficiency and duplication of services.

To tackle this problem, the project will refine and test the effectiveness of an eHealth-enabled nursing service delivery intervention which combines remote monitoring, education, and self-management training to improve recovery outcomes and experience of seniors undergoing cardiac or vascular surgeries. This service involves specially trained RNs working with a specifically designed remote monitoring and virtual care system.

The project, to take place in Ontario and the U.K., will focus on remote, continuous monitoring and recovery support for eight weeks post hospital discharge. Several studies over four years will measure the effectiveness and efficiencies.

- THE SMArTVIEW stands for TechNology Enabled remote monitoring and Self-MAagement: VIsion for patient EmpoWerment.
- On March 3, 2016, the Canadian Institutes for Health Research (CIHR) announced \$750,000 of funding to advance a remote monitoring and virtual care system SMArTVIEW for post-operative patients. The grant is offered through its eHealth Innovation Partnership Program (eHIPP).

- There is an additional \$11.6 million in in-kind support from industry and other partners, for a total project of \$12.3 million.
- Primary partners in the project are McMaster University, Hamilton Health Sciences, Population Health Research Institute, Mohawk College, University of Toronto, York University as well as Coventry University Centre for Technology-Enabled Health Research, Liverpool Heart and Chest Hospital in the U.K.
- Industry partners include Philips Canada; QoC Health, a patient-engagement platform; XAHIVE, a secure communications service, and mPath, a mobile application developer.
- Academic and community partners involved in the SMArTVIEW project include: Argyle Public Relationships; British Association for Cardiovascular Prevention and Rehabilitation; Canadian Cardiovascular Society; Canadian Pain Coalition; Hamilton Niagara Haldimand Brant Community Care Access Centre; Elsevier; Heart & Stroke Foundation; Institute for Clinical Evaluative Sciences; Michael G. DeGrootte Institute for Pain Research and Care, (McMaster University); Ontario Telemedicine Network. The Michael G. DeGrootte Institute for Pain Research and Care at McMaster University provided seed funding.
- Co-principal investigators for the project are:
  - Michael McGillion, PhD is an associate professor of nursing and holds the Heart and Stroke Foundation/Michael G. DeGrootte Endowed Chair of Cardiovascular Nursing Research at McMaster University's School of Nursing. He is a researcher for the Population Health Research Institute of McMaster and Hamilton Health Sciences.
  - P.J. Devereaux, MD, PhD is a professor of clinical epidemiology and biostatistics and medicine at McMaster's Michael G. DeGrootte School of Medicine. He is also the director of cardiology for the medical school. Devereaux is the head of cardiology and the Perioperative Cardiovascular Clinical Program at the Juravinski Hospital and Cancer Centre. He is also a scientist for the Population Health Research Institute.

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