







**Our Mission: To innovate, create, educate, and evolve  
to build new paradigms of health care delivery**



# History



**Medical Teaching Unit 36**



**Research and Innovation Centre**



# W21C Funding



# W21C Team





# Research Focus

**Improving Patient Safety & Quality of Care**

Seniors' Health    Infection Prevention

Quality & Safety Education

Human Factors Simulation

Chronic Disease Management

Wellness    Clinical Simulation

eHealth Services & Strategy

Telemedicine    Primary Care

## Alberta Health Services Projects

### South Health Campus



### Ambulance Design



[BMC Health Serv Res](#), 2012 Nov 21;12:414. doi: 10.1186/1472-6963-12-414.

**The Seamless Transfer-of-Care Protocol: a randomized controlled trial assessing the efficacy of an electronic transfer-of-care communication tool.**

[Okoniewska BM](#), [Santana MJ](#), [Holroyd-Leduc J](#), [Elemons W](#), [O'Beirne M](#), [White D](#), [Clement E](#), [Forster A](#), [Ghali WA](#).

### Strategic Clinical Networks



### Seamless Transitions of Care





# Industry Projects

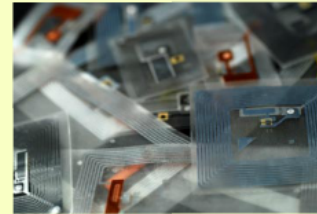
## Cleankeys



## Masimo



## Radio Frequency ID



J Wound Care, 2012 Nov;21(11):517-8, 520, 522 passim.

**The effect of continuous pressure monitoring on strategic shifting of medical inpatients at risk for PUs.**

Motamedi SM, de Groot J, Harman S, Sargious P, Baylis B, Flemons W, Ghali WA.

## Surface Medical



## XSENSOR



# Health Services Quality Research

## Preferential Access



## Physician Advocacy



Health Services Preferential Access Inquiry – Alberta

The Hon. John Z. Vertes, Commissioner

Volume 1: Inquiry Report

August 2013

## Emergency Medical Services



## Emergency Department Overcrowding



# Health Care Provider Wellness

## Physician Nutrition



## Vocera



Lancet. 2009 Nov 14;374(9702):1714-21. doi: 10.1016/S0140-6736(09)61424-0.

## Physician wellness: a missing quality indicator.

Wallace JE, Lemaire JB, Ghali WA.

## Exploring the Preceptor Role



## Resilience



## W21C Metrics

(Since 2010)

Projects: More than 90

Tours: Over 800 individuals

Technology Demos: 94

Market Ready Prototypes: 9

Spin-off companies: 2

Patents filed: 10

Industry Partnerships: 30

Trainees: 152

# Future Directions

## Health in the Home



# Global Innovation Academy





# W21C Highlights



Collaborative Research and Innovation Opportunities (CRIO)



2013 Honoree for ASTech's Societal Impact Award



Hosting the Duke and Duchess of Cambridge - 2011



# W21C

Usability Testing  
Heuristic Evaluation Patient Safety Course  
Stakeholder Interviews  
Ethnographic Observations  
Participatory Design Clinical Validation  
Systematic Reviews Surveys  
Randomized Controlled Trials  
Needs Assessment Clinical Simulation  
Rapid Reviews Focus Groups  
Educational Material Assessment  
Competitive Analysis

