



**The O'Brien Institute for Public Health &  
the Department of Community Health Sciences present:**

## **Modelling the Health Care System: A Policy Decision Support Aid**

**Speaker: Michael Carter**

**Friday, September 29<sup>th</sup>, 2017 - 12:00 to 12:50 p.m.**

**G500 - Health Sciences Centre, 3330 Hospital Dr NW**

Major healthcare policy decisions can have major impacts on all aspects of the system. It would be very useful for policy analysts to have access to a modelling tool that allowed them to estimate the consequences of these types of decisions in terms of common performance metrics. Over the past ten years, Ali Esensoy and I have developed and tested a System Dynamics model in Ontario and successfully applied it to the Ontario Stroke Strategy (to reduce acute care length of stay) and to test a new slow stream rehab option for complex patients. An adaptation of the model is being implemented in one health region in NHS Wales.

**Michael Carter** is a Professor in the Department of Mechanical and Industrial Engineering at the University of Toronto. The focus of his research is in the development of quantitative models for health care decision support. He founded the Centre for Healthcare Engineering in 2008. ([che.utoronto.ca](http://che.utoronto.ca)).

### **Objectives:**

1. To demonstrate a health system level model that has been piloted in an Ontario health region
2. To illustrate how modelling can reveal unintended consequences
3. To investigate opportunities for collaboration on Alberta policy decisions

**This event is a self approved group learning activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada. This seminar is also available via an online**

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