Primary Healthcare Research Unit Chronic Disease Research Projects

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PHRU projects



- 1. CPCSSN
- 2. OSTIS
- 3. Primary Care Reform
- 4. Qualico PC
- 5. Health Coaching
- 6. HPV
- 7. BETTER

PHRU Surveillance? Studies



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CPCSSN



- Marshall Godwin MD Msc
- Rick Birtwhistle
- PHAC
- Chronic Diseases (Others?):
 - **❖**DM
 - Depression
 - Hypertension
 - Cardiovascular Disease
 - Cerebro-Vascular Disease

CPCSSN



- Extraction of de-identified point-of-care data from practice of family doctors with EMRs
- Data pulled quarterly
- 100s of Canadian physicians data brought together into a central Canadian database
- NL data stored on secure server at CPCSSN central and copy sent to NLCHI to allow for linked database research
- Started in 2008. Funded by PHAC
- Current funding until 2015

CPCSSN – Future Directions?



- Observational Studies
- Surveillance
- Data Content Standards

OSTIS – Chronic Disease



- Shabnam Asghari MD PhD
- NLCAHR
- Chronic Diseases:
 - DM only currently
 - ❖The future?

OSTIS – What does it do?



- Integrates advanced GIS functions for spatial and temporal analyses
- Based on available geographic and medical administrative databases

OSTIS - Data



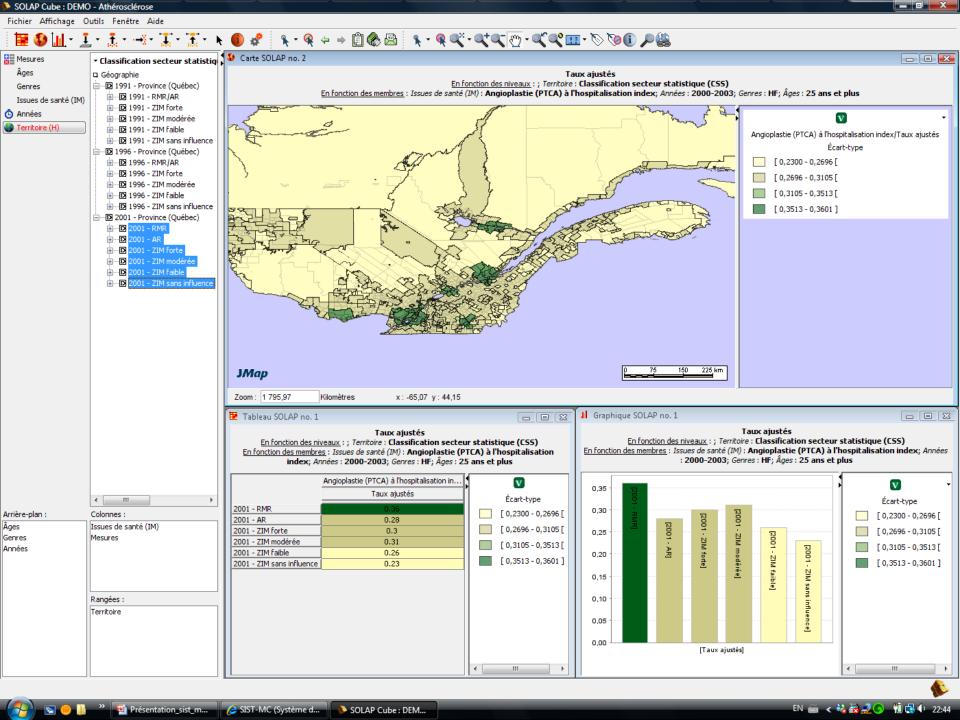
Health variables

- Incidence/prevalence
- Morbidity / mortality
- Treatments / Rx
- Human Resources
- Materiel Resources

Geographic variables

- Administrative Zones
- Regions rural/urban
- Standard Geographical Classification (SGC)

Time variables



OSTIS – What will it provide?



- Ongoing and online information
- It instantly produces results displayed as tables, graphs or maps
- Easily visualize problems in relation to existing health and social services and their natural environment

PHRU Observational Studies



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Primary Care Reform



- Me
- CIHR, RDC
- Chronic Diseases:
 - Ambulatory Care Sensitive Hospitalization (e.g. Asthma, CVD, CAD, DM, uti, vaccine preventable, etc...)

Primary Care: Context



- Primary Care Reform in NL
 - Pilot communities 2003-2006
 - PHC teams and networks
 - Maximizing scope of practice
- Primary Care Reform in Canada
 - Team-based care
 - Alternate payment models

Primary Care Reform



- Three study periods
 - **2001-03**, 2004-06, 2007-09
- Compare "reform" communities to others for rate of ACSH over the 3 periods
- Data limitations!

Primary Care Reform Progress



- NLCHI Approval
- HREA Approval
- Data compilation
- National Study

QualicoPC



- Me
- Walter Wodchis
- European Consortium
- EU, CIHI, RDC?
- "Quality and Costs in Primary Care"

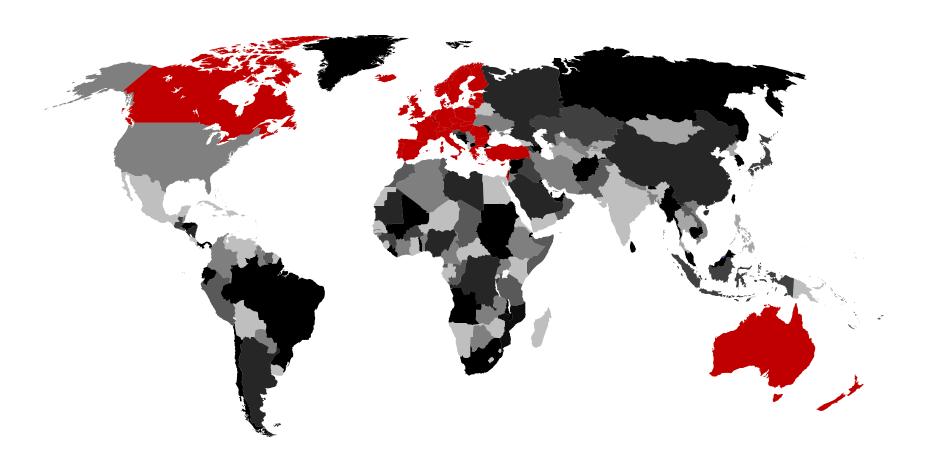
Qualico PC Methods



- Survey based
- Practice is the unit of analysis
- Surveys:
 - Practice
 - Provider
 - Patient Experience
 - Patient Values
- HCN*

Qualico PC





Qualico PC



- Future directions
- Linkage studies:
 - Hospitalizations
 - ED visits
 - Walk-in visits
 - ❖Billings (CDPS?)
 - (Morbidity) and Mortality

PHRU Interventional Studies



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Health Coaching



- Health Coaching to Effect Lifestyle
 Behaviour Change: A Randomized Trial of Individuals with Pre-disease
- Marshall Godwin MD MSc
- CIHR
- Chronic Diseases:
 - ❖ Pre-DM
 - Pre-hypertension
 - Obesity

Health Coaching



- Intervention
 - Health Coaching with coach trained in Newfield Method of health coaching. (participants get 6 month coaching program)
- Control
 - Usual care

Health Coaching



- Outcomes
 - Self Efficacy
 - Lifestyle score (SLIQ)
 - Lipids
 - BP
 - Blood glucose

HPV



- Pauline Duke MD
- CIHR
- "Effect of Vaginal Self-Sampling on Cervical Cancer Screening Rates: a Community-Based Study in Newfoundland & Labrador"

HPV - Research Question



- Would introducing a self-collection method for HPV testing increase cervical screening rates, especially in underscreened and unscreened women?
- What proportion of women in a community-based setting, would use a self-collection method to screen for HPV?

Methodology



Community A

Community B

Similar Demographics

HPV self collection method in addition to access to regular pap-test

Intense educational and promotional campaign promoting cervical cancer screening

Access to regular paptest screening

Intense educational and promotional campaign promoting cervical cancer screening

Community C

Control with similar demographics; provided with regular provincial screening and educational

services

HPV: Results



Community Screening Rates	2008	2009	2010
HPV Intervention	46.23%*	39.27%	37.99%*
Education	41.33%	38.31%	39.98%
Control	35.96%*	38.91%	46.33%*
Provincial Screening Rates	43%	43%	45%
* P < 0.05			



BETTER



- Me
- Donna Manca, Eva Grunfeld
- Chronic Diseases
 - All for which there is good evidence of an intervention to prevent









Doing it BETTER



Building on Existing Tools to Improve Chronic Disease Prevention & Screening in Family Practice

Kris Aubrey-Bassler, Donna Manca, Eva Grunfeld







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BETTER: Context

- Family Practice is the ideal setting for most CDPS
- Evidence-based tools are available to improve CDPS but tools are inconsistently applied.
- MDs are pre-occupied with acute care.
- Dedicating time for prevention and screening is desirable.
- Maximizing practice scope of all providers is desirable.

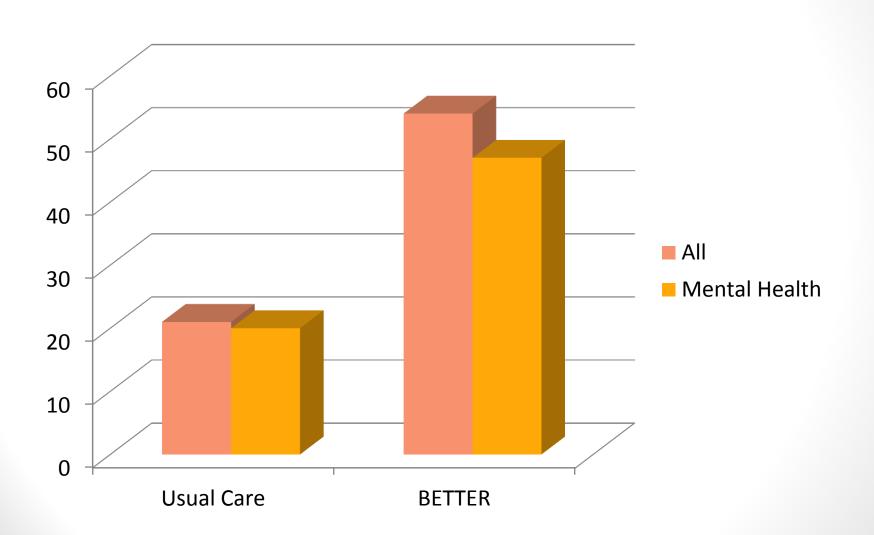
BETTER

- BETTER History:
 - BETTER 1 Recently completed pragmatic RCT
 - BETTER 2: Ongoing dissemination study
- BETTER 1 Research Question: Does an allied health care delivered intervention improve CDPS relative to usual care.
- BETTER 2 Research Question: Does the success of the intervention demonstrated in BETTER 1 translate into other clinical settings.

BETTER Approach

- Extensive guideline review, compilation and summary
- Development of a new role: The "Prevention Practitioner"
- Development of tools
- Algorithmic approach
- Through shared decision-making, goal setting, PPs develop an individualized prevention prescription for each patient

BETTER 1: Results



BETTER 2: Sites

- NWT
- Newfoundland and Labrador
- Alberta
- Ontario
- Nova Scotia