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# Population Health Monitoring: Statistics Canada's experience

**Canada PRO Network Meeting  
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# OVERVIEW

- The Health Care Outcome Measurement Project (HCOMP)
- Health surveys
- Areas of expertise
- Questions



## PAST INITIATIVES

- Health Care Outcome Measurement Project (HCOMP) (2005)
- Health Statistics Data Users' Conference 2010 - Understanding Health Outcomes (jointly with CIHI)
- Health Outcomes of Care: An Idea Whose Time Has Come (2012) (CIHI, primary author: Claudia Sanmartin from Statistics Canada)

# HEALTH CARE OUTCOME MEASUREMENT PROJECT (2005)

- Feasibility study completed.
- Objectives:
  - Assess capacities and barriers to the routine collection of outcome data for major health care interventions
  - Develop and field a pilot health care outcome measurement survey
  - Develop a strategic plan for wider deployment of health care outcome measurement surveys
  - Measure a standardized range of outcomes including general and disease specific health outcomes, patient satisfaction and relevant co-variate information
  - Build and test a generic data collection infrastructure for this kind of information

# HEALTH CARE OUTCOME MEASUREMENT PROJECT (2005) CONT'D

- Patient Survey:
  - ✓ Interview patients both prior to and after surgery
  - ✓ Outcome measures: general health related quality of life, disease specific outcomes, patient satisfaction
  - ✓ Patient information: demographic, SES, co-morbidity, lifestyle factors
  - ✓ Other information: patient expectations, waiting times (specialist consult, surgery, effects of waiting, acceptability), associated health services utilization (home care and rehab services)
- Record Linkage:
  - ✓ Linkage of survey data to administrative data (e.g. hospital discharge abstract data, registry data)
- Contact Claudia Sanmartin  
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# HEALTH SURVEYS

1. Canadian Community Health Survey (CCHS) Program
2. Health Services Access Survey (HSAS)
3. Survey on Living with Chronic Diseases (SLCDC)
4. Neurological Conditions Survey Program
5. Canadian Survey of Experiences with Primary Health Care (CSE-PHC)
6. Barriers to Care for People with Chronic Health Conditions (BCPCHC)



## HEALTH SURVEYS - CON'T

7. National Population Health Survey (NPHS)
8. Canadian Health Measures Survey (CHMS)
9. Canadian Survey on Disability (CSD)
10. Joint Canada – US Health Survey (JCUSH)

# HEALTH SURVEYS

## 1. Canadian Community Health Survey (CCHS) Program

- CCHS - Annual Component
  - Sample: 65,000 respondents per year aged 12+ (gen. pop.)
  - Geography: Canada, provinces, territories and health regions
  - Redesign for 2015 (content) and 2017 (EQ for 18+ and new children survey)
- CCHS – Focus Content Component
  - Sample: between 24,000 & 30,000 respondents
  - Geography: Canada and provinces
  - Topics:
    - 2002: Mental Health (15+)
    - 2004: Nutrition (1+)
    - 2008-2009: Healthy Aging (45+)
    - 2012: Mental Health (15+)
    - 2015: Nutrition (2+)



# HEALTH SURVEYS – CON'T

## 2. Health Services Access Survey (HSAS)

- Conducted as separate survey in 2001
- Embedded within CCHS in 2003, 2005 and 2007
- Measures waiting time for key treatments and diagnostic services and access to 24/7 first contact health services

## 3. Survey on Living with Chronic Diseases (SLCDC)

- Sponsored by the Public Health Agency of Canada
- Follow-up survey to the CCHS Annual Component and linked with the CCHS
  - 2009: arthritis and hypertension
  - 2011: diabetes and respiratory conditions
  - 2014: mood and anxiety disorders

# HEALTH SURVEYS – CON'T

## 4. Neurological Conditions Survey Program

- CCHS Annual: Screening questions (2010 and 2011)
- Survey on Living with Neurological Conditions in Canada (SLNCC) (2011-2012)
- Survey of Neurological Conditions in Institutions in Canada (SNCIC) (2011-2012)

## 5. Canadian Survey of Experiences with Primary Health Care (CSE-PHC) (2007-2008)

- Questionnaire included mapping to 27 health indicators developed by CIHI
- Follow-up survey to the CCHS Annual Component



## HEALTH SURVEYS – CON'T

6. Barriers to Care for People with Chronic Health Conditions (BCPCHC) (2011)
  - Cooperation and support of University of Calgary
  - Follow-up survey to the CCHS Annual Component
  - Chronic conditions of hypertension, diabetes, heart disease and stroke

# MODULES IN HEALTH SURVEYS RELATED TO PATIENT REPORTED OUTCOMES

- General health
- Positive mental health
- Wait times
- Patient satisfaction with health care system
- Patient satisfaction with community-based health care services
- Contact with health professionals / Health care utilization / Access to the health care system
- Unmet needs / Perceived needs for care
- Self-management
- Clinical recommendations
- Recommended care
- Medication use
- HUI and HUI - Pain only
- Changes made to improve health
- Instrumental activities of daily living
- Basic activities of daily living
- Care receiving - formal and informal
- Home care
- Loneliness
- Continuity and coordination
- Contacts with health professionals, hospitalizations and emergency department use
- General barriers to care
- Economic barriers to care
- Reasonable access to health care services
- Patient activation
- Patient activation and literacy
- IT use
- Time tradeoff

# AREAS OF EXPERTISE

- Content development and cognitive testing
- Feasibility studies
- On-going and occasional surveys
- Cost-recovery projects
  - Rapid Response (CCHS-Annual)
  - Additional content or sample
  - Follow-up surveys
  - New surveys
- Record linkage
- Analysis



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# QUESTIONS?

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