

# BC First Nations People and Health Data

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# Outline

- Purpose
- Health Indicator Framework and data availability
- FN data sources
- Client Registry

# Purpose

- Identify FN population data sources for Health Authorities

# Health Indicator Framework

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graph TD; A[Health Indicator Framework] --- B[Health Status]; A --- C[Determinants of Health]; A --- D[Health System Performance]; A --- E[Community and Health System Characteristics];
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Health Status

Determinants of Health

Health System Performance

Community and Health System  
Characteristics

# FN Data Sources

- Vital Statistics data (VS)
- Statistics Canada (SC)
- Regional Health Survey (RHS)
- Non Insured Health Benefits (NIHB)
- FHIH data (FNIM) – Immunizations, GIS, Watertrax
- Hospitalization data by postal code
- Published literature – Clearinghouse (i.e., NAHO, NCCAH)
- Aboriginal People's Survey (APS)
- Community Surveys

# Health Status

- Well-being
  - Self-rated health (RHS, APS)
  - Self-rated self esteem (RHS)
- Health Conditions
  - BMI (RHS)
  - Incidence & Prevalence of chronic conditions (RHS, NIHB, APS)
  - Cancer (VS, APS)
  - Injuries (RHS, VS), hospitalizations (Hosp db)
  - Food & Waterborne diseases (VS, FNIH)
  - Low Birth Weight (RHS, VS)

# Health Status

- Human Function
  - Functional health (RHS)
  - Disability days
  - Condition causing activity limitations (RHS)
  - Disability free/adjusted life expectancy
  - Disability adjusted life years
  - Health expectancy

# Health Status

- Deaths

- Infant mortality (VS)
- Perinatal mortality (VS)
- Life expectancy (VS)
- Mortality (VS)
  - Crude counts/rates (VS)
  - Age-adjusted rates for all major causes of deaths (VS)

# Health Status

- Deaths
  - Potential years of life lost:
    - Total (VS)
    - Cancer (VS)
    - Circulatory (VS)
    - Suicide (VS)
    - Respiratory (VS)
    - Unintentional injury (VS)

# Determinants of Health

- Health Behaviors
  - Smoking status (RHS)
    - Initiation rates
    - Cessation rates
  - Frequency of heavy drinking (RHS)
  - Physical activity (RHS)
  - Breast feeding (RHS)
  - Dietary practices (RHS)

# Determinants of Health

- Living & Working Conditions
  - High school & Post-secondary graduates (RHS, APS)
  - Unemployment rate (RHS, SC, APS)
  - Low-income rate (RHS)
  - Children in low-income families (RHS)
  - Housing affordability
  - Income inequality (SC, RHS)
  - Government transfer income (RHS, SC)
  - Low income rate (RHS, APS, SC)
  - Owner occupied dwellings (RHS, SC)

# Determinants of Health

- Personal Resources
  - School readiness (RHS)
  - Social support (RHS)
  - Life stress (RHS)
- Environmental Factors
  - Second hand smoke exposure (RHS)
  - Access to amenities (RHS)

# Health System Performance

- Acceptability
- Accessibility
  - Influenza immunization
  - Screening mammography
  - Pap smear (RHS)
  - Childhood immunizations (FNIH)

# Health System Performance

- Appropriateness
  - Vaginal birth after C-sections
  - C-sections (VS, Hosp db)
- Competence

# Health System Performance

- Effectiveness
  - Communicable disease incidence (Provincial Reportable, Hosp db, VS)
    - Pertussis
    - Measles
    - Tuberculosis
    - HIV
    - Influenza

# Health System Performance

- Effectiveness

- Deaths due to treatable disease (VS)
- Ambulatory care sensitive conditions
- 30-day AMI in-hospital mortality
- 30-day stroke in-hospital mortality
- Readmission rates:
  - AMI
  - Asthma
  - Prostatectomy
  - Hysterectomy

# Health System Performance

- Continuity
- Efficiency
- Safety
  - Hip fracture hospitalizations

# Community and Health System Characteristics

- Community

- Population characteristics (RHS, APS)
- Population density
- Dependency ratio
- Urban (SC)
- Aboriginal (SC)
- Lone-parent families (SC)
- Immigrants (SC)
- Visible minorities (SC)

# Community and Health System Characteristics

- Health System
  - Inflow/Outflow ratio
  - Selected surgical operations:
    - coronary artery bypass graft
    - hip and knee replacement
    - Hysterectomy
  - Contact with:
    - health professionals (RHS, NIHB, APS)
      - mental health professionals
      - dental professionals
      - alternate health care providers

# Community and Health System Characteristics

- Resources
  - Health expenditures (NIHB)
  - Doctors
  - Nurses
  - Other care providers (NIHB)

# Client Registry

- What is a Client Registry?
  - A collection of demographic information about a person
    - For example: Name, date of birth, place of birth, address
    - It does *not* contain health information
- What are the benefits?
  - Better information for the community

# Client Registry

- How is it superior to current identification systems?
  - Makes information about the health of First Nations communities more accessible
  - Will allow for advocacy and development of new programs and services
  - Will provide a link to Federal and Provincial systems

# eHealth Records

- What is an eHealth record?
  - A complete electronic record consisting of ANY and ALL interactions with health services over the lifetime of an individual

# eHealth Records

- What does it mean to First Nations People?
  - First Nations people will be able to go to any health provider in Canada; all medical information will be available to the practitioner
- What are the benefits?
  - Improved ability for First Nations to plan health programs
  - Improved opportunity for self governed health care

# Future Data

- Community data extracted from MSP data based on status number?

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