# TURNING INFORMATION TO ACTION



Andrea Morrissey, Public Health Epidemiologist

Population and Public Health Department, Eastern Health

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## OUTLINE

- Review of key concepts introduced in Session 1 (September 28, 2022)
- Types of data
- What can we do with data?
- Example: Turning information to action
- Examples of data available to you
- The future of data for population health

## WHAT IS POPULATION HEALTH?

Population Health refers to the health of a population as measured by health status indicators and as influenced by social, economic, and physical environments, personal health practices, individual capacity and coping skills, human biology, early childhood development and health services.



Definition January 1997 by the Federal, Provincial and Territorial Advisory Committee on Population Health (ACPH)

Available at: Population health: Focus on the health of populations - Canada.ca

## WHAT IS THE POPULATION HEALTH APPROACH?

- focuses on improving the health status of the population
- action is directed at the health of an entire population, or subpopulation, rather than individuals
- implies reduction in inequalities in health status between population groups
- recognizes the complexities between the determinants of health



## THE DETERMINANTS OF HEALTH

- Income and social status
- Employment and working conditions
- Education and literacy
- Childhood experiences
- Physical environments
- Social supports and coping skills
- Healthy behaviours
- Access to health services
- Biology and genetic endowment
- Gender
- Culture
- Race / Racism





## BASE DECISIONS ON EVIDENCE

A Population Health Approach uses "evidence-based decision making".

When you think of basing decisions on evidence, what could that evidence be?



## TYPES OF DATA

	QUANTITATIVE	QUALITATIVE
Format	Numbers and numerical	Text or detailed answers and
	values	stories from respondents
Can answer these	Who, What, Where, When	Why, How
questions		
Purpose	Seeks to measure	Seeks to explain and
		understand
Generalizability	Easily replicated	Unique data
Time	Relatively quick	Time-intensive
Examples	Surveys, tallies, scores,	Interviews, focus groups,
	social media polls	open-ended questions,
		community consultations



## WHAT KINDS OF DATA DO YOU USE?

## WHAT CAN WE DO WITH DATA?

- Analyze
- Find patterns
- Determine populations to target for an intervention
- Determine need for community programs, interventions and initiatives
- Monitor progress
- Evaluate programs
- Determine barriers to access
- Influence public policy
- Forecast potential risks through data modeling (predictive analytics)
- Make better decisions



# WHAT DATA SOURCES SUPPORT TAKING A POPULATION HEALTH APPROACH?

- Program data
- Surveillance system data (regional and provincial)
- Publicly available data
- Community-level data



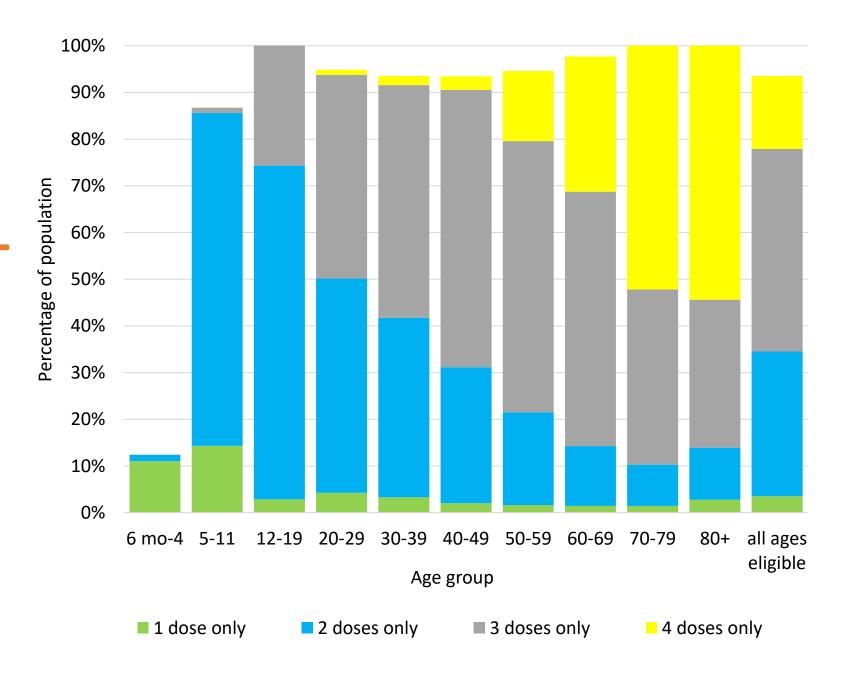
### TURNING EVIDENCE TO ACTION: PRACTICAL EXAMPLE

COVID-19 Vaccine Data



COVID-19 Vaccine
Coverage in Eastern
Regional Health
Authority, by age group

Data Source: Compiled by NLCHI using vaccine data documented in EMR, Pharmacy Network and Meditech, as of October 11 2022



## EXAMPLES OF DATA AVAILABLE TO YOU

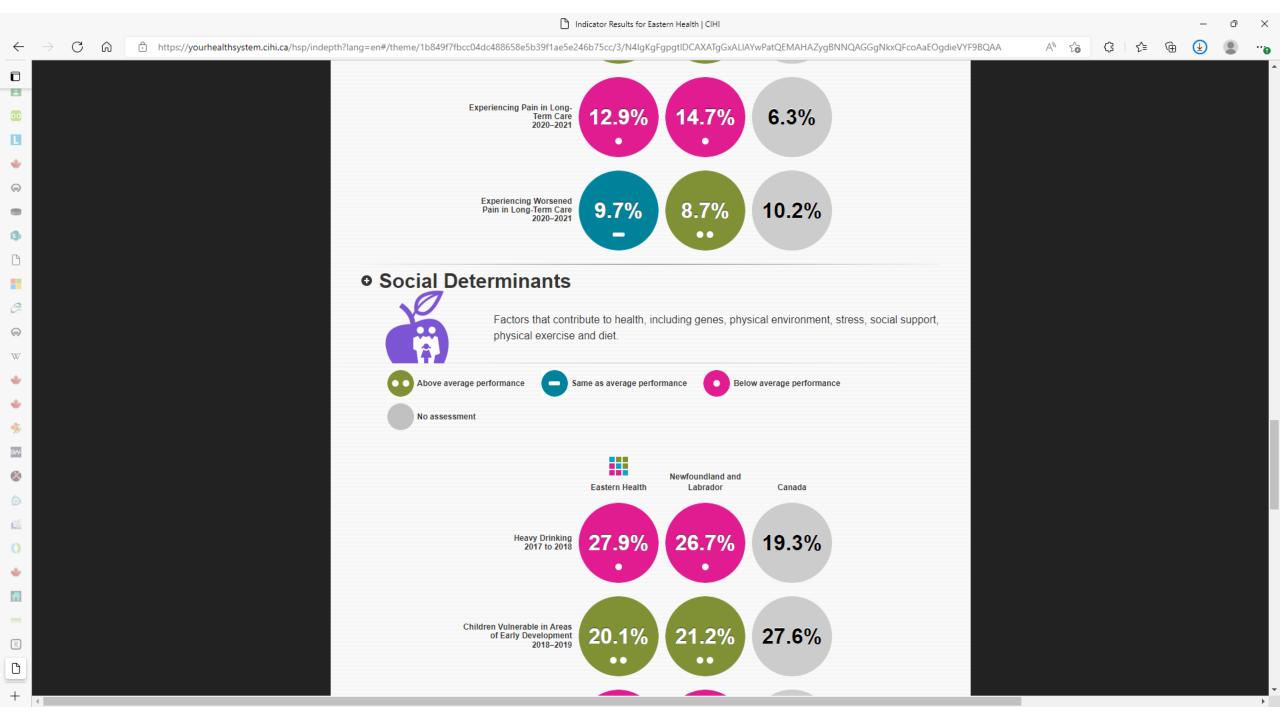
You can turn information to action, too!

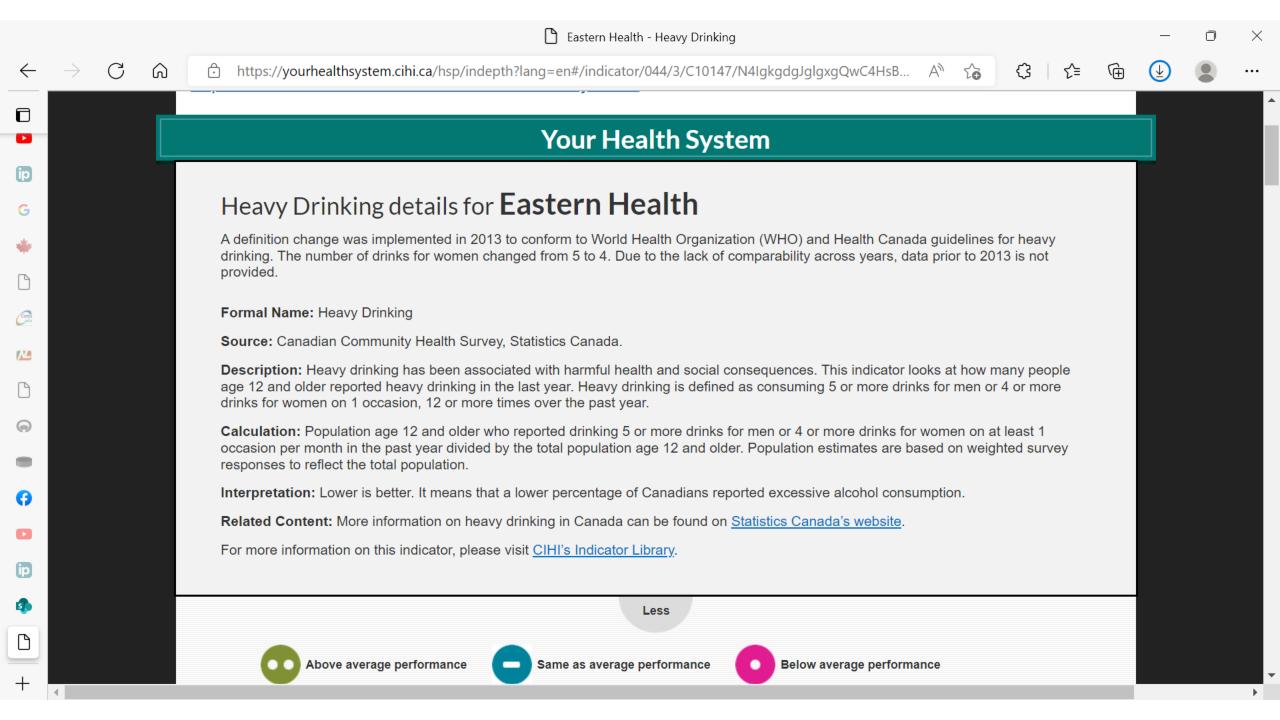


### CANADIAN INSTITUE FOR HEALTH INFORMATION (CIHI)

https://yourhealthsystem.cihi.ca/

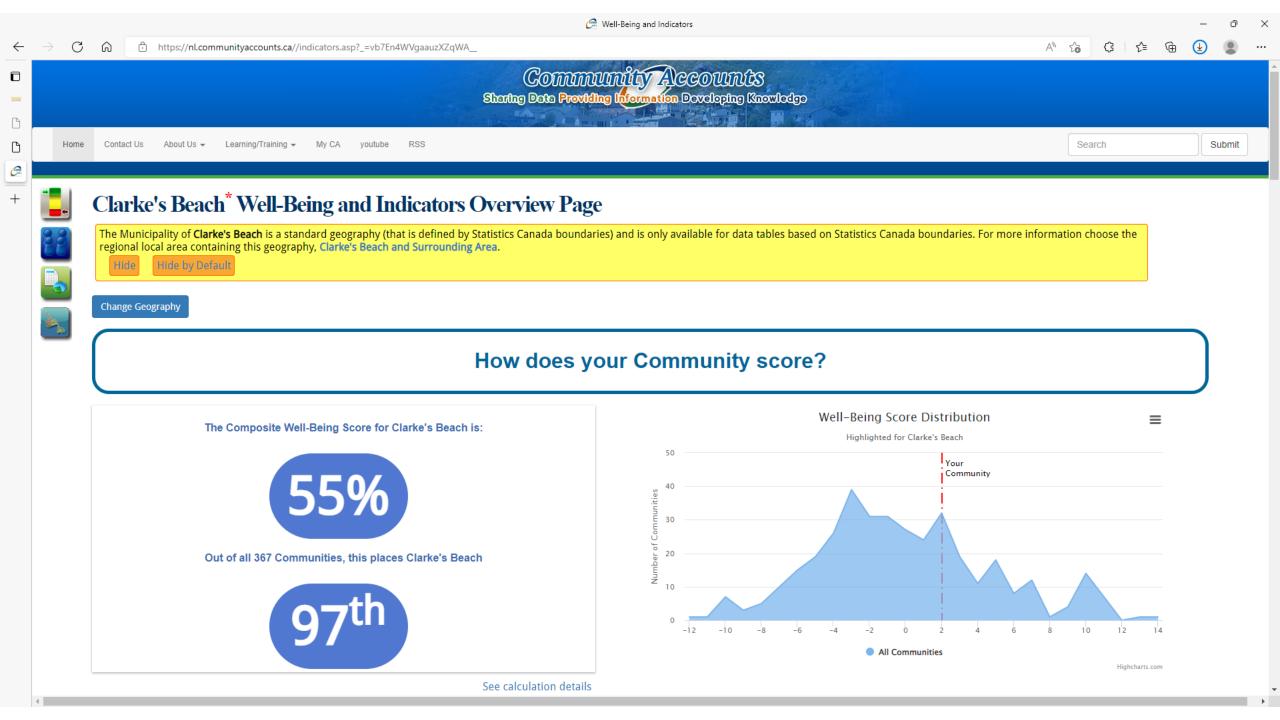






### NEWFOUNDLAND & LABRADOR STATISTICS AGENCY

**Community Accounts** 

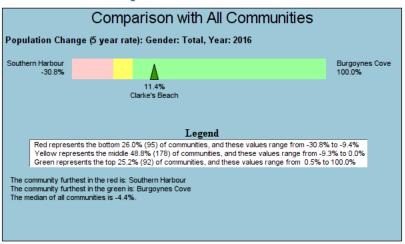




Cong.



#### Clarke's Beach Well-Being Indicator Chart



**About this indicator:** Population Change is the percent change in the population over a 5 year period. This indicator is based on Census Population.

**Indicator Source:** Compiled by the Community Accounts Unit based on information provided from the Census of Population 1996, 2001, 2006, 2011 and 2016 Statistics Canada.

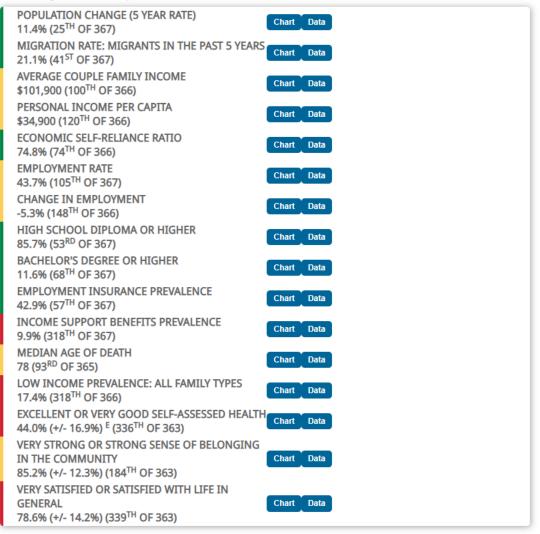
#### Understanding the Well-Being Indicator Chart

The chart attempts to answer the question, "How is the area doing relative to all other communities in the province?"

The range of values representing the bottom range of communities is colored red, the top range is colored green and the range of values representing the middle group of communities is colored yellow. We then show where the value for your chosen geography falls on the line (represented by the triangle); from this you can determine how a community or region is doing compared to all communities in the province which are available for this indicator.

Keep in mind that each color represents a percentage of communities but it is the range of values that will determine the width of the color in the chart.

#### Well-Being Indicators Report for Clarke's Beach



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https://nl.communityaccounts.ca//profiles.asp?\_=vb7En4WVgaSzyHQ\_









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#### **Demographics**

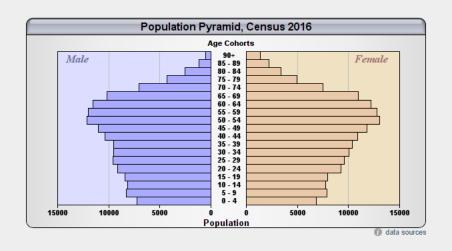
#### return to top

#### 2016 Census Population

The 2016 Census population for Eastern Health Authority was 313,385. This represents an increase of 2.2% since 2011 (313,385 in 2016, up from 306,625). Over the same period, the entire province experienced a population increase of 1.0% since 2011 (519,715 in 2016, up from 514,535). The median age in Eastern Health Authority was 44 in 2016. The 2016 median age in Newfoundland and Labrador was 46.

Eastern Health Authority Profile



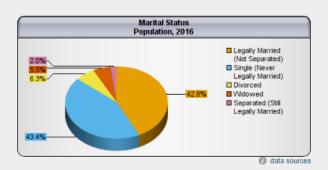


#### Migration

The Residual Net Migration for Eastern Health Authority was -0.28% (-850 individuals) in 2019. For the Province, it was -0.39% (-1,995 individuals) in 2019. Net migration using the residual method is calculated by subtracting the current population from the population in the previous year and then removing the affect that births and deaths has on the population. By doing so, the remainder/residual is the number of people who migrated into or out of the area.

#### Marital Status

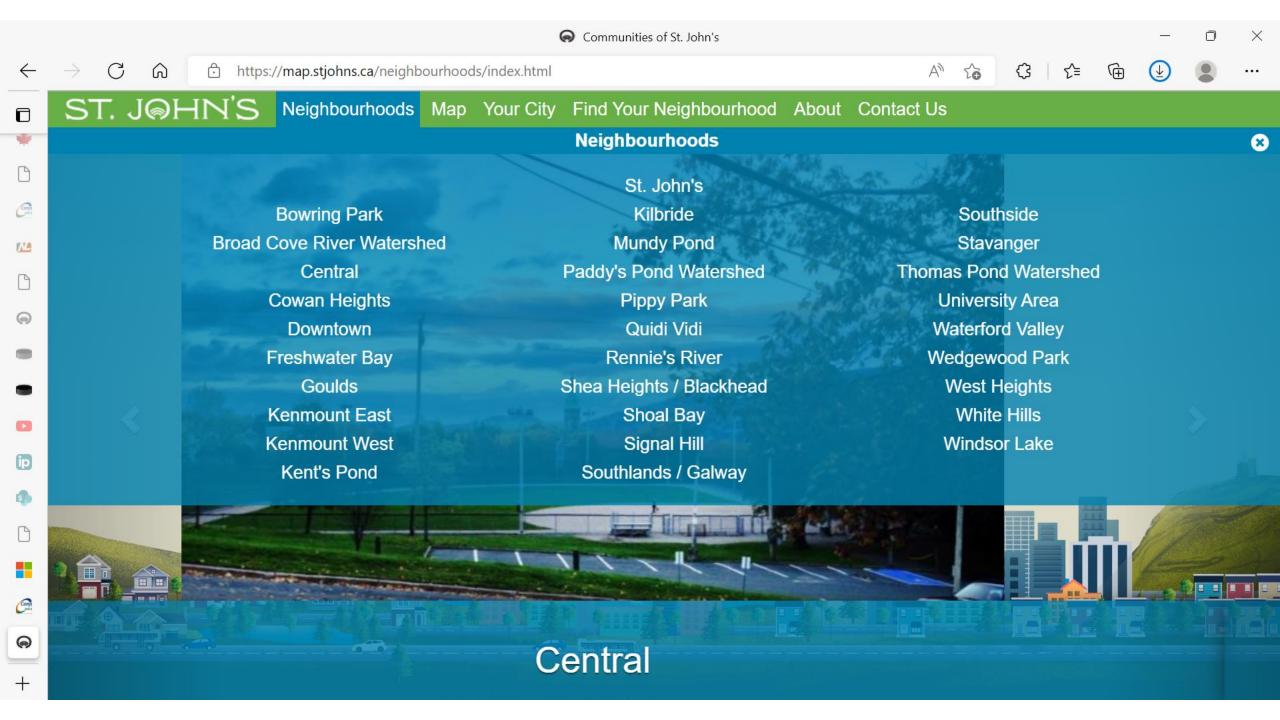
In Eastern Health Authority in 2016 there were 134,145 legally married (not separated), 17,300 widowed, 19,745 divorced, 6,250 separated, 135,955 single people (never legally married). It should also be noted that in this geography, there were 55,725 people 17 years of age or younger in 2016.



### CITY OF ST. JOHN'S: NEIGHBORHOODS

Communities of St. John's (stjohns.ca)

ST. J@HN'S















https://map.stjohns.ca/neighbourhoods/index.html

Neighbourhoods Map Your City Find Your Neighbourhood About Contact Us

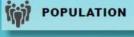
#### Southlands - Galway

#### **DEMOGRAPHICS**

St. John's is a vibrant city unlike any other. From iconic Signal Hill and the Narrows to our beautiful parks and historic downtown, we offer residents and visitors alike a one-of-a kind experience. We are known for our friendly people, our thriving arts scene, our ocean expertise, our innovative post-secondary community, and our constantly emerging culinary appeal.

For more details on the latest Statistics Canada information for St. John's, click here.

#### Southlands/Galway Neighbourhood Demographics

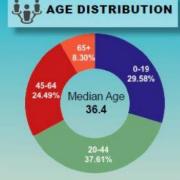








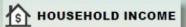




#### EMPLOYMENT STATUS

34.60% Retired or do not work

65.30% Employed (full time, part-time, casual, seasonal, etc.)



62.10% Reported a household income of \$100,000 or more

16.20% Reported a household income of under \$60,000



价价价 84.96% own ♠ ♠ 15.03% rent



Median Household Income







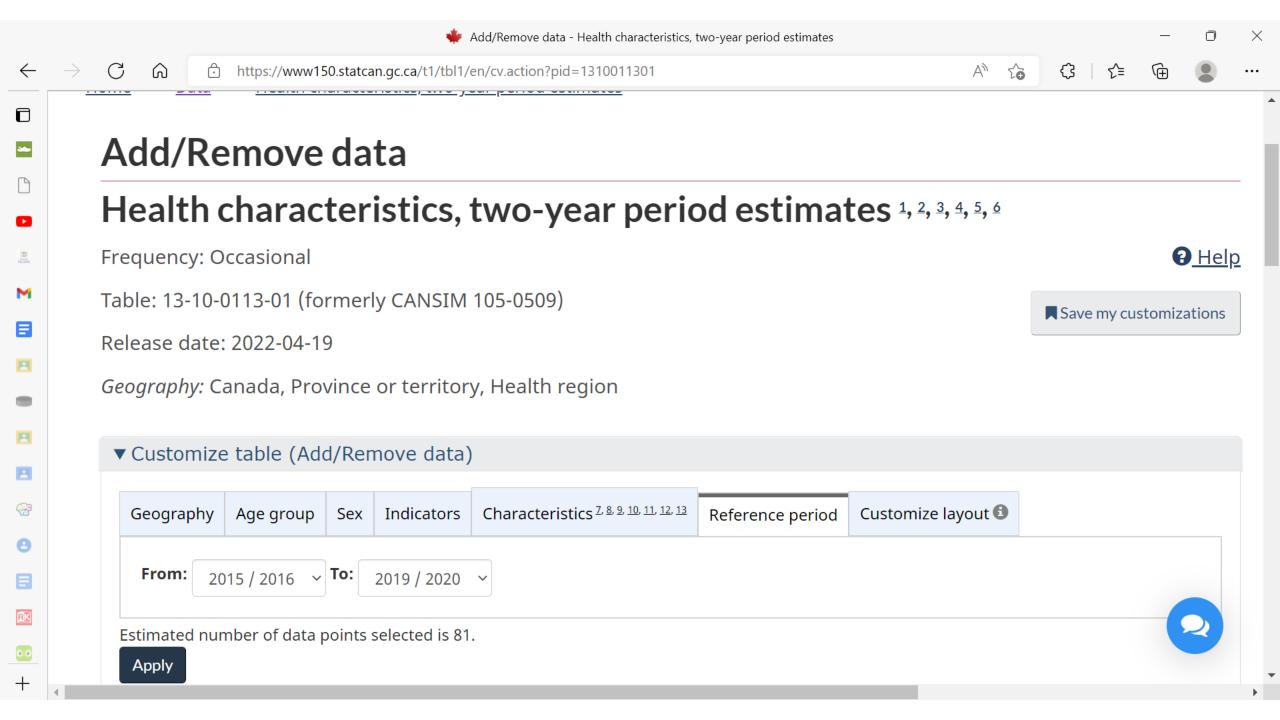


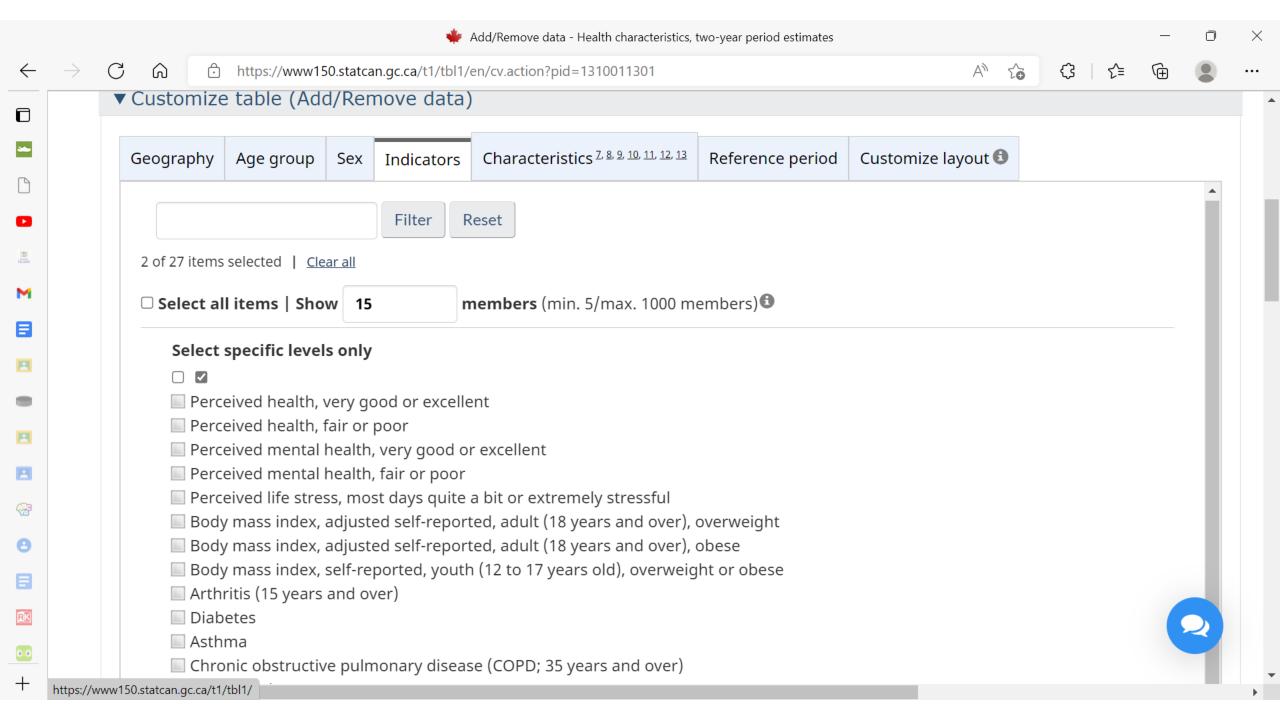
## CANADIAN COMMUNITY HEALTH SURVEY (CCHS)

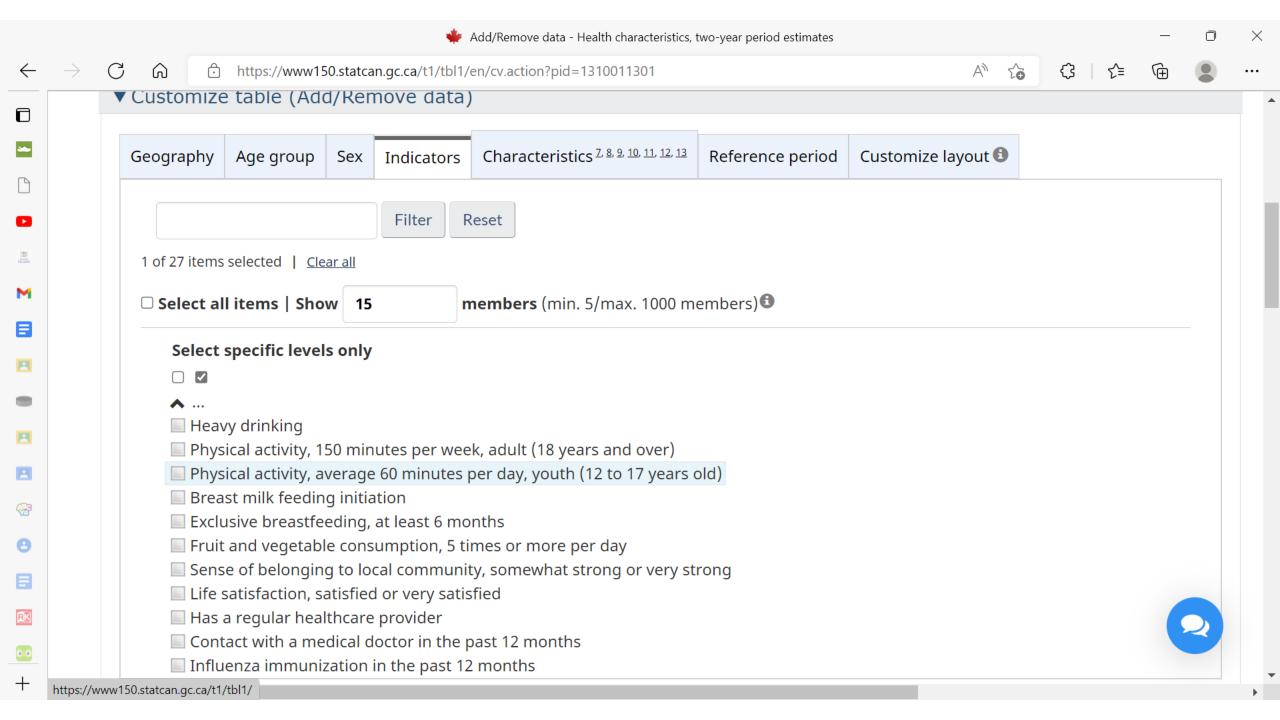
Health characteristics, two-year period estimates (statcan.gc.ca)



Statistics Canada Statistique Canada







## **SUMMARY: THE ROAD AHEAD**

Turning information to action

