

# Population Health Assessment: Measuring the Health of Hamiltonians

November 13, 2017

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# Outline & Objectives

### **Outline:**

- 1. Overview of population health assessment
- 2. Population health assessment products
- 3. Public health needs in Hamilton



# Overview of Population Health Assessment (PHA)



<u>Hamilton</u>

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# Population Health Assessment (PHA) is the measuring, monitoring, and reporting of the health of the population (SPHPS, 2017). Report and disseminate Source: Population Health Assessment? Data access, collection, and management Action Analysis and interpretation Report and disseminate

# We commonly use 20+ data sources! Select examples:

### What data do we have?

Oral Health Information Support System (OHISS)

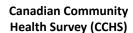


Hamilton PHS did **100,085 oral screenings** of school children since 2011

Integrated Public Health Information System (iPHIS)



There were **35,091 infectious diseases** reported to Hamilton PHS since 2005





**1,493 Hamiltonians** completed the 2013-2014 Canadian Community Health Survey.

Better Outcomes Registry & Network (BORN)



Data on **21,000 local births** is captured for the past 4 years



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# Why is PHA important?

**Decision Making** 

• Good decisions are based on good evidence.

Planning and Evaluation

• What services are a priority? Are the services working?

Policy Development

• Informs actionable healthy public policies.

Strategic Spending

• How can limited resources have the greatest impact?

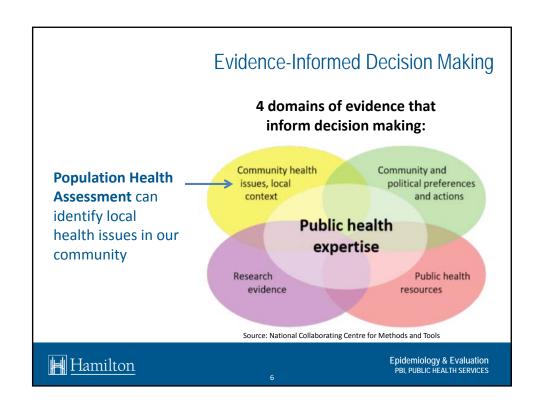
**Accountability** 

• Are we fulfilling our mandated requirements?

Awareness and Advocacy

• Used to popularize important issues.







# Standards for Public Health Programs and Services Consultation Doursett Services Consultation



# PHA is a priority and a mandate

Mapping Wellness: "Local-level population health data can be used to make informed, evidence-based decisions to improve the health of communities, through targeted investment and planning."

- Dr. David Williams, Chief Medical Officer of Health

**Standards of Public Health Programs and Services** (2017): PHA is a Foundational Standard of the MOHLTC's mandate.

- Boards of Health are required to <u>do</u> and <u>use</u> PHA.
- Greater emphasis on <u>health equity</u> assessment



Patients First: support health system planning with LHINs

- Defined set of indicators to inform planning
- · Local assessment to address information needs
- Knowledge and expertise to translate health information into health intelligence



# Population Health Assessment (PHA) Products



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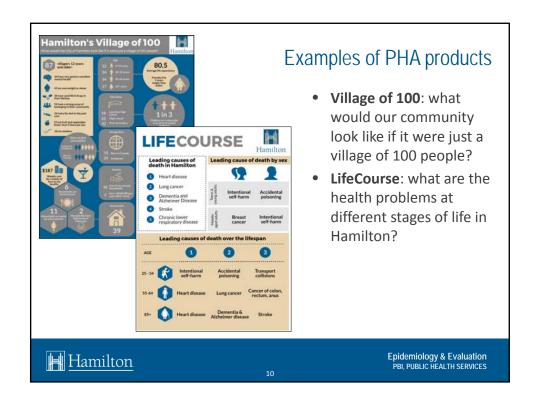
# Quiz:

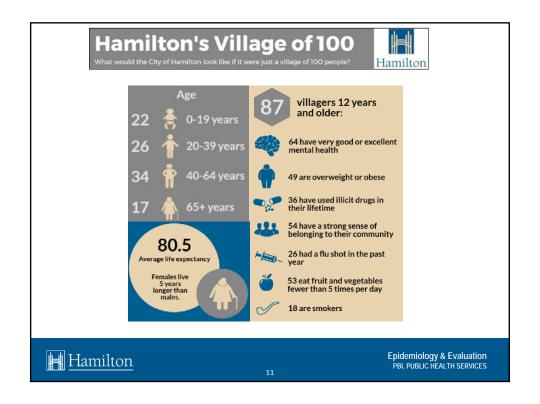
How much do we know about Hamilton's health?

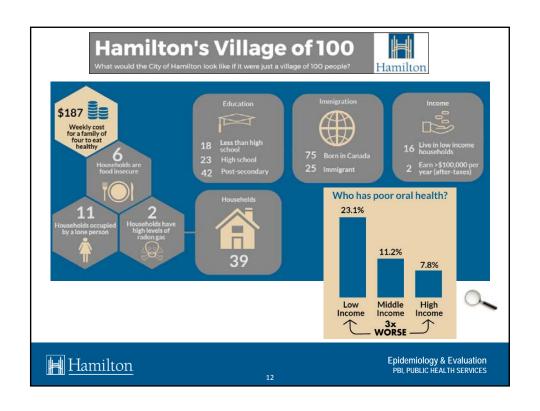
### True or False?

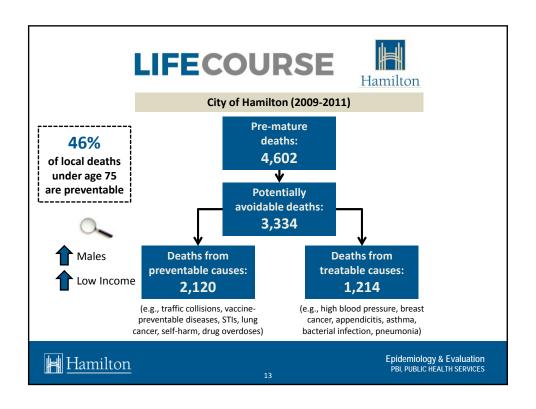
Over 20,000 yearly visits to Hamilton ERs for injuries due to falling	TRUE	
Less than 30% of Hamiltonians have ever used an illegal drug	FALSE 43%	
Suicide is the leading cause of death for Hamiltonians under 45	TRUE	
Annually, over 50 local deaths are attributed to radon exposure	TRUE	

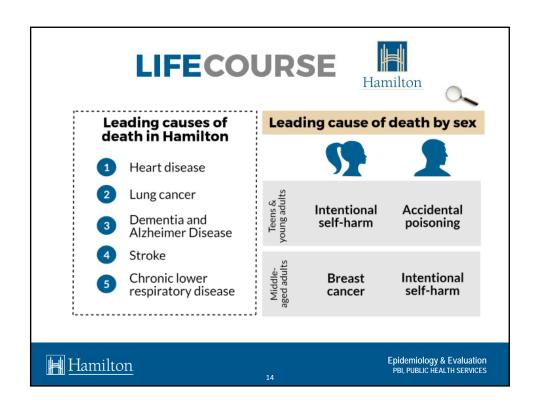


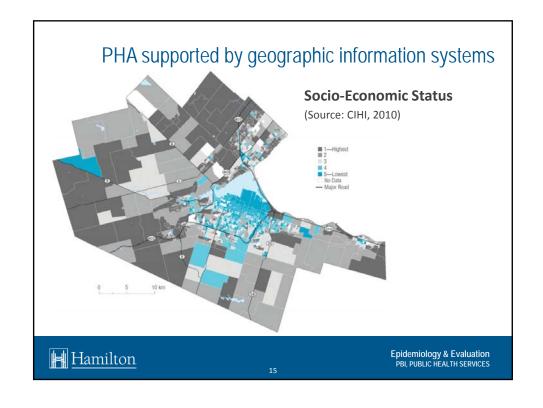


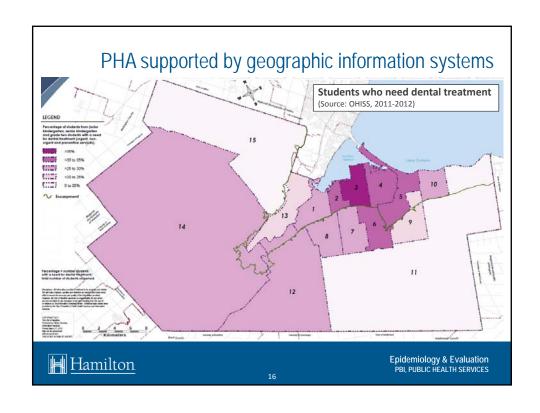


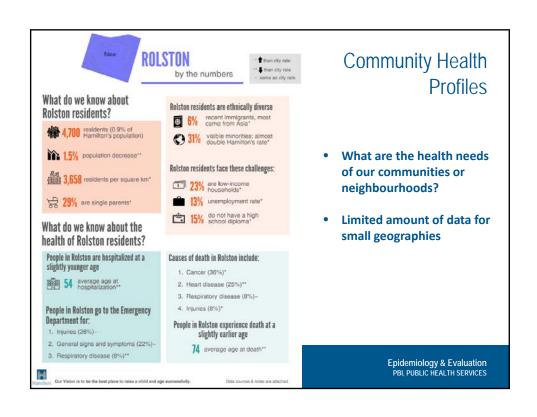












# Evidence to Action: Hamilton's Opioid Response

 Leading up to 2016, opioid use identified as an emerging local issue... this resulted in data-driven actions:

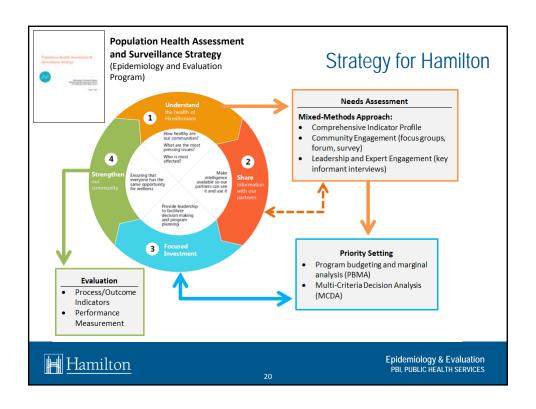
ACTION	ROLE OF DATA	DATA			
Naloxone expansion; increased hours for needle exchange	Data collection and reporting of service utilization	>600,000 needles collected in 2015 compared to 50,000 in 2000			
Opioid response strategy	Allows for data sharing between partners & alerts	Data sharing with HPS: 307 paramedic calls in Q1-3 of 2017			
Communication and awareness campaign	Data informs key messages & used to raise awareness	52 Hamiltonians died of opioid overdoses last year			
Monitoring system on our website	Data made available to the community	Week of Oct 9 <sup>th</sup> : 28 ER visits for suspected drug overdoses			
Began feasibility study of SIS	Data being used to determine need for SIS	Interviews with residents who have lived experience			

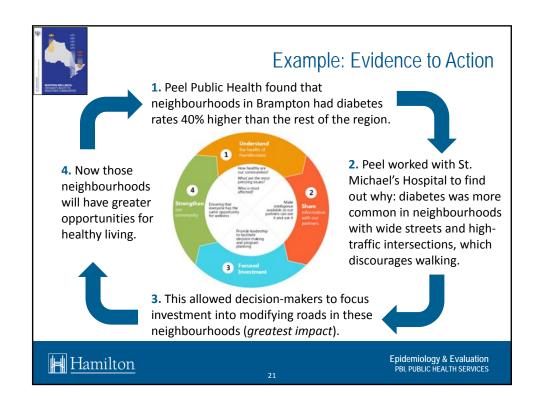


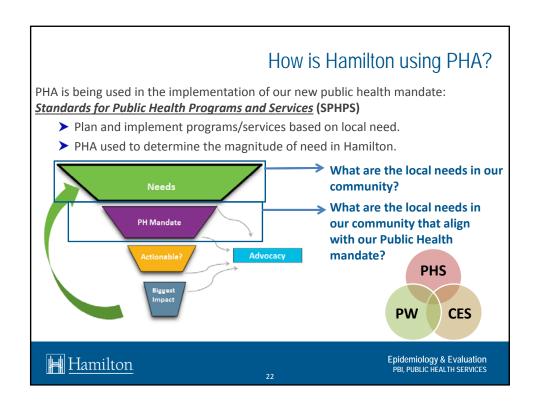
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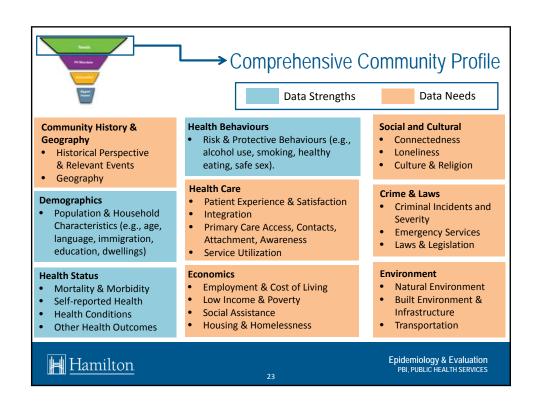
## Public Health Needs in Hamilton

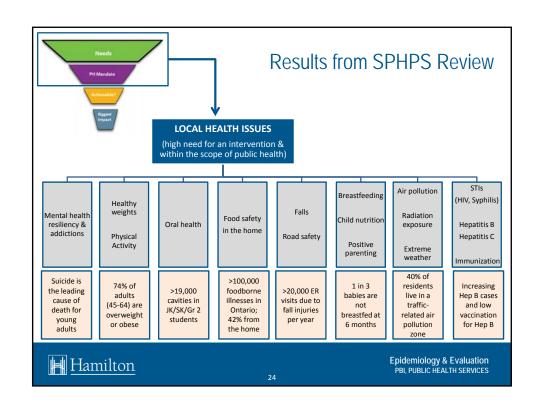












# Results from SPHPS Review

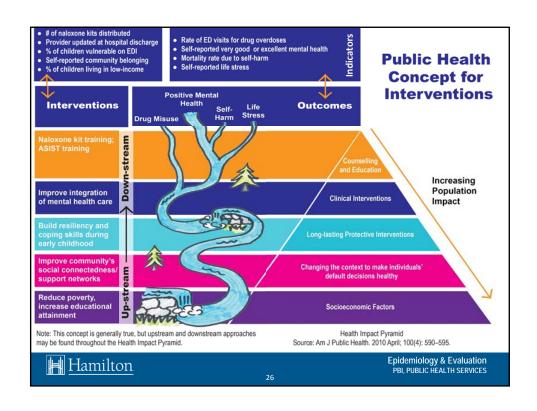
### **Priority Populations:**

- Population is disadvantaged with respect to one or more determinants of health or population is at risk for adverse health outcomes.
- Public health interventions may be reasonably considered to have a substantial impact at the population level

### Examples:

Local Health Issue	Mental health	Healthy weights & risk factors	Food safety in the home	Falls	Road safety	Extreme weather	STI (syphilis, HIV)	Oral Health
Local Priority Population	Females under 20 Males 45-64 Low income	Youth Males Low income	Seniors Children	Seniors Children	Males 20-44	Males Low income High dependency	Males 20-54  Men who have sex with men (MSM)	Low income







# PHA is mandated and a priority PHA is important for decisionmaking and strategic spending Work with others & provide intelligence to our community This work is just beginning: it will be evolving and growing... Epidemiology & Evaluation PBI, PUBLIC HEALTH SERVICES

