

# Alignment of the APHEO Core Indicators with the Ontario Public Health Standards

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Epidemiologists in Ontario (APHEO) Core  
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Public Health Ontario

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## Introduction

This document allows users to identify the APHEO Core Indicators related to specific population health assessment and surveillance requirements in the [Ontario Public Health Standards \(OPHS\)](#), as well as its supporting [Population Health and Assessment and Surveillance \(PHAS\) Protocol](#). The OPHS establish requirements for fundamental public health programs and services carried out by boards of health, which include assessment and surveillance, health promotion and policy development, disease prevention and health protection. The OPHS consist of one Foundational Standard and 13 Program Standards that articulate broad societal goals resulting from the activities undertaken by boards of health and many others, including community partners, non-governmental organizations, and governmental bodies. The Foundational Standard identifies that evidence is the foundation of effective public health practice. As such, boards of health are required to assess the current health status, health behaviours and needs of the local population, monitor trends in population health and communicate findings to the public and community partners. The PHAS Protocol provides direction on population health assessment and surveillance activities defined in the OPHS to enable local public health units to effectively and efficiently identify and address current and evolving health issues. Although existing Core Indicators address many of the OPHS requirements and new indicators are in development, indicator and data gaps still exist (please refer to *Data Gaps in Public Health Indicators in Ontario*).

In this document, each OPHS program standard was presented in a table. The columns of the table represent assessment and surveillance requirements or in some cases, the health promotion and policy development or health protection requirements (e.g., work stress), within each program standard. Each Core Indicator listed along the left-hand side of the table functions as a hyperlink, allowing the user to quickly visit the APHEO webpage for details on the specific indicator(s). Indicators under development and expected to be released shortly, or indicators under consideration were also included. The primary data source, (and secondary data sources when available), that may be used to fulfill an assessment and surveillance requirement within the program standard were listed in the tables. Currently, no Emergency Preparedness Core Indicators exist and the Emergency Preparedness Program Standard has been excluded from the tables.

This work is an update of a document of the same name originally released on July 27, 2012 and includes new Core Indicators and data sources. Updates are summarized in the “Changes Made” table at the end of the document. Please refer to *Data Gaps in Public Health Indicators in Ontario* document on the APHEO website for more detailed information pertaining to data gaps related to the APHEO Core Indicators.

# Chronic Diseases and Injuries Program Standards

APHEO Core Indicators	Chronic Disease Prevention Standards								
	Healthy Eating	Healthy Weights	Comprehensive Tobacco Control	Physical Activity	Built Environment	Alcohol Use	Work Stress	Exposure to UV radiation	Food Affordability
<a href="#">Vegetable and Fruit Consumption</a>	CCHS, RRFSS <sup>*§</sup>								
<a href="#">Adult BMI</a>		CCHS, RRFSS <sup>*§</sup>							
<a href="#">Adolescent BMI</a>		CCHS							
<a href="#">Smoking Status</a>			CCHS, RRFSS <sup>*§</sup>						
<a href="#">Smoke-free Homes</a>			CCHS, RRFSS <sup>*§</sup>						
<a href="#">Non-smoker Second-hand Smoke Exposure</a>			CCHS, RRFSS <sup>*§</sup>						
<a href="#">Minors' Access to Tobacco</a>			PHU, RRFSS <sup>*§</sup>						
<a href="#">Smoking Cessation</a>			CCHS, RRFSS <sup>*§</sup>						
<a href="#">Smoking Attributable Mortality</a>			CCHS, RRFSS <sup>*§</sup> , VS-deaths						
<a href="#">Smoking During Pregnancy</a>			BORN, CCHS						
<a href="#">Leisure-time Physical Activity</a>				CCHS					
<a href="#">Screen Time</a>				CCHS					
<a href="#">Population Density</a>				Census					
<a href="#">Land Use Mix</a>				Parcel Data	Parcel Data				
<a href="#">Proximity to Community Focal Point</a>				ORN, RNF†, SLRN†	ORN, RNF†, SLRN†				
<a href="#">Underage Alcohol Drinking</a>						CCHS			
<a href="#">Drinking in Excess of the Low-Risk Alcohol Drinking Guidelines</a>						CCHS, RRFSS <sup>*§</sup>			
<a href="#">Heavy Drinking Episodes</a>						CCHS			
<a href="#">Self-perceived Work Stress</a>							CCHS		
<a href="#">Ultraviolet Radiation Exposure</a>								RRFSS <sup>§</sup>	
<a href="#">Food Insecurity</a>									CCHS, RRFSS <sup>*§</sup>
<a href="#">Cost of a Nutritious Food Basket</a>									PHU

## Data Sources

BORN - Better Outcomes Registry & Network

CCHS - Canadian Community Health Survey

\* CDP - Community Data Program

Census - Canadian Census

ORN - Ontario Road Network, Ministry of Natural Resources

Parcel Data - Municipal Property Assessment Corporation

Population Estimates - Statistics Canada

PHU - Collected by individual Public Health Units

RNF - Road Network File, Statistics Canada

RRFSS - Rapid Risk Factor Surveillance System

SLRN - Single Line Road Network – Local government agencies

VS - Vital Statistics

\* Secondary or alternative data source

§ Data may not be available for all health units

† Access to data source is under investigation

# Chronic Diseases and Injuries Program Standards

APHEO Core Indicators	Chronic Disease Prevention Standards								
	Healthy Eating	Healthy Weights	Comprehensive Tobacco Control	Physical Activity	Built Environment	Alcohol Use	Work Stress	Exposure to UV radiation	Food Affordability
<b>Indicators In Development or Under Consideration</b>									
Outlet Density	PHU, ORN			PHU, ORN	PHU, ORN	PHU, ORN			
Job Density				Population Estimates, Census, CDP§	Population Estimates, Census, CDP§				
Traffic Calming Measures				ORN, RNF†, SLRN†	ORN, RNF†, SLRN†				
Network Characteristics				ORN, RNF* local municipal datasets	ORN, RNF* local municipal datasets				
Traffic Counts				local municipal datasets ORN, RNF†, SLRN†	local municipal datasets ORN, RNF†, SLRN†				
Traffic Speed				local municipal datasets ORN, RNF†, SLRN†	local municipal datasets ORN, RNF†, SLRN†				
<p><b>Data Sources</b></p> <p>BORN - Better Outcomes Registry &amp; Network            CCHS - Canadian Community Health Survey            * CDP - Community Data Program            Census - Canadian Census</p> <p>ORN - Ontario Road Network, Ministry of Natural Resources            Parcel Data - Municipal Property Assessment Corporation            Population Estimates - Statistics Canada            PHU - Collected by individual Public Health Units</p> <p>RNF - Road Network File, Statistics Canada            RRFS - Rapid Risk Factor Surveillance System            SLRN - Single Line Road Network – Local government agencies            VS - Vital Statistics</p>									
<p>* Secondary or alternative data source            § Data may not be available for all health units            † Access to data source is under investigation</p>									

## Chronic Diseases and Injuries Program Standards (Continued)

APHEO Core Indicators	Prevention of Injury and Substance Misuse Standards			
	Alcohol and Other Substances (Alcohol misuse, drinking and driving, illicit substance use)	Falls Across the Lifespan (Falls in children, youth, adults and older adults)	Road and Off-road Safety (Motorized vehicles, pedestrians, cyclists, drivers and occupants)	Other Areas of Public Health Importance for the Prevention of Injuries (Includes violence, suicide, burns, drowning, farm injuries, poisonings, scalds, suffocation, sport and recreation, and playground safety)
<a href="#">Illicit Drug Use</a>	CCHS			
<a href="#">Underage Alcohol Drinking</a>	CCHS			
<a href="#">Drinking in Excess of the Low-risk Alcohol Drinking Guidelines</a>	CCHS, RRFSS* <sup>§</sup>			
<a href="#">Heavy Drinking Episodes</a>	CCHS, RRFSS* <sup>§</sup>			
<a href="#">Drinking and Driving Prevalence</a>	CCHS, RRFSS* <sup>§</sup>		CCHS, RRFSS* <sup>§</sup>	
<a href="#">Alcohol-related Injury and Mortality from Motor Vehicle Traffic Collisions</a>	MTO		MTO	
<a href="#">Adolescent Drug Use</a>	OSDUHS <sup>§</sup>			
<a href="#">Neurotrauma-related Hospitalization</a>	NACRS	NACRS	NACRS	NACRS
<a href="#">Injury-related Mortality</a>	VS-deaths	VS-deaths	VS-deaths	VS-deaths
<a href="#">Injury-related Hospitalization</a>	NACRS	NACRS	NACRS	NACRS CCHS*
<a href="#">Injury-related Emergency Department Visits</a>	NACRS	NACRS	NACRS	NACRS, CCHS*
<a href="#">Fall-related Emergency Department Visits</a>	NACRS	NACRS CCHS*		NACRS
<a href="#">Fall-related Hospitalization</a>		NACRS CCHS*		
<a href="#">Fall-related Mortality</a>		VS-deaths		
<a href="#">Self-reported Injury</a>		CCHS		CCHS
<a href="#">Cellphone Use and Text Messaging While Driving</a>			CCHS, RRFSS* <sup>§</sup>	
<a href="#">Seat Belt Use</a>			RRFSS <sup>§</sup>	
<a href="#">Child Car Restraint Use</a>			RRFSS <sup>§</sup>	

**Data Sources**

CCHS - Canadian Community Health Survey  
MTO - Ministry of Transportation Collision Database

NACRS - National Ambulatory Care Reporting System  
OSDUHS - Ontario Student Drug Use and Health Survey

RRFSS- Rapid Risk Factor Surveillance System  
VS - Vital Statistics

\* Secondary or alternative data source

§ Data may not be available for all health units

## Chronic Diseases and Injuries Program Standards (Continued)

APHEO Core Indicators	Prevention of Injury and Substance Misuse Standards			
	Alcohol and Other Substances (Alcohol misuse, drinking and driving, illicit substance use)	Falls Across the Lifespan (Falls in children, youth, adults and older adults)	Road and Off-road Safety (Motorized vehicles, pedestrians, cyclists, drivers and occupants)	Other Areas of Public Health Importance for the Prevention of Injuries (Includes violence, suicide, burns, drowning, farm injuries, poisonings, scalds, suffocation, sport and recreation, and playground safety)
<a href="#">Motor Vehicle Traffic Collisions Injuries</a>			MTO	
<a href="#">Suicide Mortality</a>				VS-deaths
<a href="#">Intentional Self-harm-related Hospitalization</a>				NACRS
<a href="#">Suicidal Thoughts and Attempts</a>				CCHS
Indicators In Development or Under Consideration				
Alcohol-attributable hospitalizations for chronic disease and injury	NACRS			
Alcohol-attributable deaths for chronic disease and injury	VS-deaths			
Data Sources				
CCHS - Canadian Community Health Survey MTO - Ministry of Transportation Collision Database		NACRS - National Ambulatory Care Reporting System OSDUHS - Ontario Student Drug Use and Health Survey		RRFSS - Rapid Risk Factor Surveillance System VS - Vital Statistics
* Secondary or alternative data source § Data may not be available for all health units				

# Family Health Program Standards

APHEO Core Indicators	Reproductive Health Standards			
	Preconception Health <sup>1</sup>	Healthy Pregnancies	Reproductive Health Outcomes	Preparation for Parenting
<b>Assumptions</b>	Can apply to males or females	Applies to pregnant women only	Related to the health of the baby and mother postpartum	Applies to both males & females who are pregnant or have children
<a href="#">Folic Acid Supplementation</a>	CCHS, RRFSS* <sup>§</sup>			
<a href="#">Smoking During Pregnancy</a>		BORN, CCHS		
<a href="#">Preterm Birth Rate</a>			VS-Live Births, Hospitalization, BORN	
<a href="#">Multiple Birth Rate</a>			VS-Live Births, Hospitalization, BORN	
<a href="#">Birth Weights</a>			VS-Live Births, Hospitalization, BORN	
<a href="#">Congenital Anomalies</a>			CCASS <sup>§</sup> , BORN	
<a href="#">Congenital Infections</a>			iPHIS	
<a href="#">Perinatal Mortality and Stillbirth Rates</a>			VS-Live Births, VS-Stillbirths, VS-Deaths, Hospitalization, BORN,	
<a href="#">Age of Parent at Infant's Birth</a>			VS-Live Births, Hospitalization, BORN	
<a href="#">Crude Birth Rate</a>			VS-Live Births, Hospitalization, BORN	
<a href="#">Fertility Rates</a>			VS-Live Births, Hospitalization, BORN	
<a href="#">Total Fertility Rate</a>			VS-Live Births, Hospitalization, BORN	
<a href="#">Pregnancy Rate</a>			VS-Live Births, VS-Stillbirths, Hospitalization, BORN, Medical Services	
<a href="#">Neonatal and Infant Mortality Rates</a>			VS-Deaths	
<b>Indicators In Development or Under Consideration</b>				
<a href="#">Maternal Obesity</a>		BORN		
<a href="#">Gestational Weight Gain</a>		BORN		
<a href="#">Maternal mental health</a>		NACRS, BORN		
<a href="#">Alcohol use during pregnancy</a>		BORN		
<a href="#">Substance use during pregnancy</a>		BORN		
<b>Data Sources</b>				
BORN - Better Outcomes Registry & Network		iPHIS - Integrated Public Health Information System		VS - Vital Statistics
CCASS - Canadian Congenital Anomalies Surveillance System		NACRS - National Ambulatory Care Reporting System		
CCHS - Canadian Community Health Survey		RRFSS - Rapid Risk Factor Surveillance System		
* Secondary or alternative data source				
§ Data may not be available for all health units				

<sup>1</sup> In order to achieve a state of optimal maternal health, minimize risk of adverse birth outcomes and promote healthy child development, families should be encouraged to reflect on pregnancy and parenting issues during the preconception period.

## Family Health Program Standards (Continued)

APHEO Core Indicators	Child <sup>2</sup> Health Standards					
	Positive Parenting <sup>3</sup>	Breastfeeding	Healthy Family Dynamics	Healthy Eating, Healthy Weights and Physical Activity	Growth and Development	Oral Health
<u>Breastfeeding Initiation and Duration</u>		CCHS, RRFSS <sup>§</sup>				
<u>Single Parent Families</u>			Census			
<u>Pregnancy Rate (Teen)</u>			VS-Live Births, VS-Stillbirths, Hospitalization, BORN, Medical Services			
<u>Underage Alcohol Drinking</u>			CCHS			
<u>Heavy Drinking Episodes</u>			CCHS			
<u>Adolescent Drug Use</u>			OSDUHS <sup>§</sup>			
<u>Vegetable and Fruit Consumption</u>				CCHS, RRFSS* <sup>§</sup>		
<u>Adolescent Body Mass Index</u>				CCHS		
<u>Leisure-Time Physical Activity</u>				CCHS		
<u>Screen Time</u>				CCHS		
<u>Deft/DMFT Index</u>						OHISS†
<u>Caries-free Children</u>						OHISS†
<u>Children with Dental Treatment Needs</u>						OHISS†
<u>Fluorosis Index</u>						OHISS†
<u>Early Childhood Tooth Decay</u>						OHISS†
<b>Indicators In Development or Under Consideration</b>						
<u>Intention to Breastfeed</u>		BORN				
<b>Data Sources</b>						
BORN - Better Outcomes Registry & Network		OSDUHS - Ontario Student Drug Use and Health Survey		RRFSS - Rapid Risk Factor Surveillance System		
CCHS - Canadian Community Health Survey		OHISS - Oral Health Information Support System		VS - Vital Statistics		
Census - Canadian Census		(formerly CINOT - Children in Need of Treatment and Health Screening)		OHS- Oral Health Screening		
Hospitalization - Discharge abstract database (DAD)						
* Secondary or alternative data source						
§ Data may not be available for all health units						
† Access to data source is under investigation						

<sup>2</sup> Child is defined as anyone less than 18 years of age.

<sup>3</sup> Positive parenting is defined as positive/warm and consistent parenting interactions with the child (e.g., parents frequently talk, play, praise, laugh and do special things together with their children, have clear and consistent expectations and use non-punitive consequences with regard to child behaviour)

# Infectious Diseases Program Standards

APHEO Core Indicators	Sexual Health, STIs, and Blood-borne Infections (including HIV) Standard					Vaccine Preventable Diseases Standard		
	STIs	Blood-borne infections	Reproductive outcomes	Risk behaviours	Distribution of harm reduction materials/ equipment	Child Immunization Status	Immunization coverage rates	Other indicators supporting this standard
<a href="#">Infectious Disease Incidence</a>	iPHIS	iPHIS						
<a href="#">Infectious Disease Mortality</a>	VS-Deaths	VS-Deaths						
<a href="#">Cancer Incidence (Cervical)</a>	OCR							
<a href="#">Cancer Mortality (Cervical)</a>	OCR, VS-Deaths*							
<a href="#">Congenital Infections</a>			iPHIS					
<a href="#">Pelvic Inflammatory Disease Incidence</a>			NACRS, Hospitalization					
<a href="#">Number of Sexual Partners</a>				CCHS				
<a href="#">Frequency of Condom Use Among Those at Risk for STDs</a>				CCHS				
<a href="#">Condom Use the Last Time Among Those at Risk for STDs</a>				CCHS				
<a href="#">Youth Sexual Activity</a>				CCHS				
<a href="#">Age of Sexual Debut</a>				CCHS				
<a href="#">Childhood Vaccination Coverage</a>						IRIS/Panorama PHU		
<a href="#">Influenza Vaccination Rates Among Staff at Long-Term Care Facilities and Hospitals</a>							PHU, RRFSS* <sup>§</sup>	
<a href="#">Influenza and Pneumococcal Vaccination Rates Among Long-Term Care Facility Residents</a>							PHU	
<a href="#">Vaccine Wastage</a>								PHU
<a href="#">Adverse Events Following Immunization</a>								iPHIS
<a href="#">Influenza Vaccination</a>								CCHS, RRFSS* <sup>§</sup>
<a href="#">Adult Pneumococcal Vaccination</a>								RRFSS <sup>§</sup>

## Data Sources

CCHS - Canadian Community Health Survey  
 OCR - Ontario Cancer Registry  
 Hospitalization - Discharge Abstract Database (DAD)

iPHIS- Integrated Public Health Information System  
 IRIS - Immunization Records Information System  
 NACRS - National Ambulatory Care Reporting System

PHU - Collected by individual Public Health Units  
 RRFSS - Rapid Risk Factor Surveillance System  
 VS - Vital Statistics

\* Secondary or alternative data source

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## Infectious Diseases Program Standards (Continued)

APHEO Core Indicators	Infectious Diseases/ Rabies/ Tuberculosis Prevention and Control Standards				
	Infectious Diseases of Public Health Importance (morbidity and mortality)	Associated Risk Factors	Infection Prevention and Control Practices of Inspected Premises	Rabies	Tuberculosis
<a href="#">Infectious Disease Incidence</a>	iPHIS			iPHIS	iPHIS
<a href="#">Infectious Disease Mortality</a>	VS-Deaths				
<a href="#">Pelvic Inflammatory Disease Incidence</a>	Hospitalization, NACRS				
<a href="#">Rabies</a>	MNR, iPHIS			MNR, iPHIS	
<a href="#">Cancer Incidence (Cervical)</a>	CCO				
<a href="#">Cancer Mortality (Cervical)</a>	CCO, VS-Deaths*				
<a href="#">Number of Sexual Partners</a>		CCHS			
<a href="#">Frequency of Condom Use Among Those at Risk for STDs</a>		CCHS			
<a href="#">Condom Use the Last Time Among Those at Risk for STDs</a>		CCHS			
<a href="#">Youth Sexual Activity</a>		CCHS			
<a href="#">Age of Sexual Debut</a>		CCHS			
<a href="#">Influenza and Pneumococcal Vaccination Rates Among Long-Term Care Facility Residents</a>			PHU		
<a href="#">Influenza Vaccination Rates Among Staff at Long-Term Care Facilities and Hospitals</a>			PHU, RRFSS* <sup>§</sup>		

### Data Sources

CCHS - Canadian Community Health Survey  
 OCR - Ontario Cancer Registry  
 Hospitalization - Discharge Abstract Database (DAD)

iPHIS - Integrated Public Health Information System  
 MNR - Ontario Ministry of Natural Resources  
 NACRS - National Ambulatory Care Reporting System

PHU - Collected by individual Public Health Units  
 RRFSS - Rapid Risk Factor Surveillance System  
 VS - Vital Statistics

\* Secondary or alternative data source

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## Environmental Health Program Standards

APHEO Core Indicators	Food Safety Standard	Safe Water Standard		Health Hazard Prevention and Management Standard
	Food-borne illnesses and associated risk factors	Drinking water illnesses and associated risk factors	Beach water illnesses and associated risk factors	Community Environmental Health Status and Risk Factors
<a href="#">Infectious Disease Incidence</a>	iPHIS	iPHIS	iPHIS	
<a href="#">Infectious Disease Mortality</a>	VS-Deaths	VS-Deaths	VS-Deaths	
<a href="#">Municipal Drinking Water Quality</a>		MEO		MEO
<a href="#">Private Well Water Testing</a>		RRFSS <sup>§</sup>		RRFSS <sup>§</sup>
<a href="#">Drinking Water Advisories</a>		PHU		PHU
<a href="#">Water Advisories</a>		PHU		PHU
<a href="#">Posted Bathing Beaches</a>			PHU	PHU

**Data Sources:**

iPHIS - Integrated Public Health Information System

MEO - The Ontario Ministry of the Environment

PHU - Collected by individual Public Health Units

RRFSS - Rapid Risk Factor Surveillance System

VS - Vital Statistics

**§ Data may not be available for all health units**

## Environmental Health Program Standards (Continued)

APHEO Core Indicators	Health Hazard Prevention and Management Standard								
	Community Environmental Health Status and Risk Factors	Risk Factors	Indoor Air Quality	Outdoor Air Quality	Extreme Weather	Climate Change	Radiation Exposure	Built Environment	Disease Vector and Host
<u>Air Quality</u>	MEO			MEO					
<u>Population Density</u>		Census							
<u>Smoke-free Homes</u>			CCHS, RRFSS*§						
<u>Non-smoker Second-hand Smoke Exposure</u>			CCHS, RRFSS*§						
<u>Proximity to Community Focal Point</u>				ORN, RNF†, SLRN†				ORN, RNF†, SLRN†	
<u>Land Use Mix</u>				Parcel Data				Parcel Data	
<u>Rabies</u>									MNR, iPHIS
<u>Infectious Disease Incidence</u>									iPHIS
<u>Infectious Disease Mortality</u>									VS-Deaths

### Indicators in Development or Under Consideration

<u>Job Density</u>		Population Estimates, Census, CDP§		Population Estimates, Census, CDP§				Population Estimates, Census, CDP§	
<u>Traffic Calming Measures</u>		ORN, RNF†, SLRN†		ORN, RNF†, SLRN†				ORN, RNF†, SLRN†	
<u>Outlet Density</u>		PHU, ORN						PHU, ORN	
<u>Traffic Counts</u>		local municipal datasets ORN, RNF†, SLRN†		local municipal datasets ORN, RNF†, SLRN†				local municipal datasets ORN, RNF†, SLRN†	

#### Data Sources:

CCHS - Canadian Community Health Survey

\*CDP – Community Data Program

Census - Canadian Census

iPHIS - Integrated Public Health Information System

MEO - The Ontario Ministry of the Environment

MNR - Ontario Ministry of Natural Resources

ORN – Ontario Road Network, Ministry of Natural Resources

Parcel Data - Municipal Property Assessment Corporation

PHU - Collected by individual Public Health Units

RNF – Road Network File, Statistics Canada

RRFSS - Rapid Risk Factor Surveillance System

SLRN - Single Line Road Network – Local government agencies

VS - Vital Statistics

\* Secondary or alternative data source

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† Access to data source is under investigation

## Environmental Health Program Standards (Continued)

APHEO Core Indicators	Health Hazard Prevention and Management Standard								
	Community Environmental Health Status and Risk Factors	Risk Factors	Indoor Air Quality	Outdoor Air Quality	Extreme Weather	Climate Change	Radiation Exposure	Built Environment	Disease Vector and Host
<b>Indicators in Development or Under Consideration</b>									
<a href="#">Traffic Speed</a>		local municipal datasets, ORN, RNF†, SLRN†						local municipal datasets, ORN, RNF†, SLRN†	
<a href="#">Network Characteristics</a>				ORN, LRNF, local municipal datasets				ORN, LRNF, local municipal datasets	
<p><u>Data Sources:</u>                      CCHS - Canadian Community Health Survey                      *CDP – Community Data Program                      Census - Canadian Census                      iPHIS - Integrated Public Health Information System                      MEO - The Ontario Ministry of the Environment</p> <p>MNR - Ontario Ministry of Natural Resources                      ORN – Ontario Road Network, Ministry of Natural Resources                      Parcel Data - Municipal Property Assessment Corporation                      PHU - Collected by individual Public Health Units</p> <p>RNF – Road Network File, Statistics Canada                      RRFSS - Rapid Risk Factor Surveillance System                      SLRN - Single Line Road Network – Local government agencies                      VS - Vital Statistics</p>									
<p>* Secondary or alternative data source                      § Data may not be available for all health units                      †Access to data source is under investigation</p>									

# Foundational Standard/Population Health Assessment and Surveillance Protocol

APHEO Core Indicators	Population Health Data: Socio-demographics										
	Age and Sex	Education	Employment	Income	Housing	Language	Immigration	Culture	Ability/ Disability	Cost of a Nutritional Food Basket	Other
<a href="#">Population by Age and Sex</a>	Population Estimates										
<a href="#">Dependency Ratios</a>	Population Estimates										
<a href="#">Education Level</a>		NHS, CCHS*									
<a href="#">Labour Force Indicators</a>			Census								
<a href="#">Low Income Rate</a>				NHS							
<a href="#">Income Inequality</a>				NHS							
<a href="#">Housing Affordability</a>					NHS						
<a href="#">Living Arrangements</a>					Census						
<a href="#">Mother Tongue</a>						Census, CCHS*, RRFSS*§					
<a href="#">Home Language</a>						Census, CCHS*, RRFSS*§					
<a href="#">Percent Who Cannot Speak English or French</a>						Census					
<a href="#">Immigrant Population</a>							NHS				
<a href="#">Ethnic/ Cultural Origin</a>								NHS			
<a href="#">Aboriginal Population</a>								Census			
<a href="#">Long-term Disability and Activity Restriction</a>									CCHS		
<a href="#">Need for Assistance with Activities of Daily Living</a>									CCHS		
<a href="#">Cost of a Nutritious Food Basket</a>										PHU	
<b>Data Sources</b>											
CCHS - Canadian Community Health Survey Census - Canadian Census			PHU - Collected by individual Public Health Units Population Estimates – Statistics Canada Population Projections - Ministry of Finance				RRFSS - Rapid Risk Factor Surveillance System				

\* Secondary or alternative data source  
 § Data may not be available for all health units

# Foundational Standard/Population Health Assessment and Surveillance Protocol

APHEO Core Indicators	Population Health Data: Socio-demographics										
	Age and Sex	Education	Employment	Income	Housing	Language	Immigration	Culture	Ability/ Disability	Cost of a Nutritional Food Basket	Other
<u>Population Growth</u>											Population Estimates
<u>Projected Population Growth</u>											Population Projections
<u>Family Structure</u>											Census
<u>Commuting Population</u>											Census
<u>Rural and Population Centre Population</u>											Census
<u>Sense of Community Belonging</u>											CCHS
<b>Indicators in Development or Under Consideration</b>											
<u>Visible Minority Status</u>											NHS
<b>Data Sources</b>											
CCHS - Canadian Community Health Survey				Population Projections - Ministry of Finance				Population Estimates – Statistics Canada			
Census - Canadian Census											
<b>§ Data may not be available for all health units</b>											



# Foundational Standard/Population Health Assessment and Surveillance Protocol

## APHEO Core Indicators

	Population Health Data: Morbidity and Mortality	
	Mortality	Morbidity
<a href="#">Fall-related Emergency Department Visits</a>		NACRS
<a href="#">Injury-related Emergency Department Visits</a>		NACRS
<a href="#">Self-reported Injury</a>		CCHS
<a href="#">Suicidal Thoughts and Attempts</a>		CCHS
<a href="#">Depression Prevalence</a>		CCHS
<a href="#">Caries-free Children</a>		OHISS†
<a href="#">Fluorosis Index</a>		OHISS†
<b>Data Sources</b>	Hospitalization - Discharge Abstract Database (DAD) iPHIS - Integrated Public Health Information System MTO - Ministry of Transportation Collision Database NACRS - National Ambulatory Care Reporting System	OHISS - Oral Health Information Support System RRFSS - Rapid Risk Factor Surveillance System VS - Vital Statistics
<b>* Secondary or alternative data source</b>	<b>†Access to data source is currently under investigation</b>	

# Foundational Standard/Population Health Assessment and Surveillance Protocol

## APHEO Core Indicators

APHEO Core Indicators	Population Health Data	
	Risk Factors	Preventive Health Practices
<a href="#">Depression Prevalence</a>	CCHS	
<a href="#">Self-perceived Life Stress</a>	CCHS	
<a href="#">Self-perceived Work Stress</a>	CCHS	
<a href="#">Illicit Drug Use</a>	CCHS	
<a href="#">Smoking Status</a>	CCHS, RRFSS* <sup>§</sup>	
<a href="#">Ultraviolet Radiation Exposure</a>	RRFSS <sup>§</sup>	
<a href="#">Underage Alcohol Drinking</a>	CCHS	
<a href="#">Drinking in Excess of the Low-risk Alcohol Drinking Guidelines</a>	CCHS, RRFSS* <sup>§</sup>	
<a href="#">Heavy Drinking Episodes</a>	CCHS	
<a href="#">Adolescent Drug Use</a>	OSDUHS <sup>§</sup>	
<a href="#">Vegetable and Fruit Consumption</a>	CCHS, RRFSS* <sup>§</sup>	
<a href="#">Adolescent BMI</a>	CCHS	
<a href="#">Adult BMI</a>	CCHS, RRFSS* <sup>§</sup>	
<a href="#">Leisure-time Physical Activity</a>	CCHS	
<a href="#">Cellphone Use and Text Messaging While Driving</a>	CCHS, RRFSS* <sup>§</sup>	
<a href="#">Contacts with Medical Doctors</a>		CCHS
<a href="#">Regular Medical Doctor</a>		CCHS
<a href="#">OBSP Mammography</a>		OBSP†
<a href="#">Screening Mammography</a>		CCHS, RRFSS* <sup>§</sup>
<a href="#">Cervical Cancer Screening</a>		CCHS, RRFSS* <sup>§</sup>
<a href="#">Colorectal Cancer Screening</a>		CCHS, RRFSS* <sup>§</sup>
<a href="#">Visits to Dentist in Past Year</a>		CCHS, RRFSS* <sup>§</sup>
<a href="#">Adult Pneumococcal Vaccination</a>		RRFSS <sup>§</sup>
<a href="#">Childhood Vaccination Coverage</a>		IRIS/Panorama, PHU
<a href="#">Influenza Vaccination Rates Among Staff at Long-Term Care Facilities and Hospitals</a>		PHU
<a href="#">Influenza and pneumococcal Vaccination Rates Among Long-Term Care Facility Residents</a>		PHU

### Data Sources

CCHS - Canadian Community Health Survey

IRIS - Immunization Records Information System

OBSP - Ontario Breast Screening Program

\* Secondary or alternative data source

§ Data may not be available for all health units

† Access to data source is currently under investigation

OSDUHS - Ontario Student Drug Use and Health Survey

PHU - Collected by individual Public Health Units

RRFSS - Rapid Risk Factor Surveillance System

# Foundational Standard/Population Health Assessment and Surveillance Protocol

## APHEO Core Indicators

	Population Health Data	
	Risk Factors	Preventive Health Practices
<u>Influenza Vaccination</u>		CCHS, RRFSS* <sup>§</sup>
<u>Frequency of Condom Use Among Those at Risk for STDs</u>		CCHS
<u>Condom Use the Last Time Among Those at Risk for STDs</u>		CCHS
<u>Breastfeeding Initiation and Duration</u>		CCHS, RRFSS* <sup>§</sup>
<u>Folic Acid Supplementation</u>		CCHS, RRFSS* <sup>§</sup>
<u>Seat Belt Use</u>		RRFSS <sup>§</sup>
<u>Child Car Restraint Use</u>		RRFSS <sup>§</sup>

<b>Data Sources</b>		
CCHS - Canadian Community Health Survey	OSDUHS - Ontario Student Drug Use and Health Survey	RRFSS - Rapid Risk Factor Surveillance System
IRIS - Immunization Records Information System	PHU - Collected by individual Public Health Units	
OBSP - Ontario Breast Screening Program		

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## Foundational Standard/Population Health Assessment and Surveillance Protocol

### APHEO Core Indicators

#### Population Health Data

	Reproductive Outcomes	Growth and Development	Physical Environment Factors	Other Relevant Data
<u>Crude Birth Rate</u>	VS-Live Births, Hospitalization, BORN			
<u>Fertility Rates</u>	VS-Live Births, Hospitalization, BORN			
<u>Total Fertility Rate</u>	VS-Live Births, Hospitalization, BORN			
<u>Pregnancy Rate</u>	VS-Live Births, VS-Stillbirths, Hospitalization, BORN, Medical Services			
<u>Preterm Births</u>	VS-Live Births, Hospitalization, BORN			
<u>Multiple Births</u>	VS-Live Births, Hospitalization, BORN			
<u>Birth Weights</u>	VS-Live Births, Hospitalization, BORN			
<u>Congenital Anomalies</u>	CCASS <sup>§</sup> , BORN			
<u>Air Quality</u>			MEO	
<u>Smoke-free Homes</u>			CCHS, RRFSS* <sup>§</sup>	
<u>Non-smoker Second-hand Smoke Exposure</u>			CCHS, RRFSS* <sup>§</sup>	
<u>Infectious Disease Incidence</u>			iPHIS	
<u>Infectious Disease Mortality</u>			VS-Deaths	
<u>Municipal Drinking Water Quality</u>			MEO	
<u>Private Well Water Testing</u>			RRFSS <sup>§</sup>	
<u>Water Advisories</u>			PHU	
<u>Posted Bathing Beaches</u>			PHU	

#### Data Sources

BORN - Better Outcomes Registry & Network  
 CCASS - Canadian Congenital Anomalies Surveillance System  
 CCHS - Canadian Community Health Survey  
 Hospitalization – Discharge Abstract Database (DAD)

iPHIS - Integrated Public Health Information System  
 MEO – Ontario Ministry of the Environment  
 PHU – Public Health Unit

RRFSS – Rapid Risk Factor Surveillance System  
 VS - Vital Statistics

\* Secondary or alternative data source

§ Data may not be available for all health units

## Changes Made

Year	Indicators no longer under development/consideration	Newly identified indicators for development/consideration	Retired Indicators
July 2013	<p>Core Indicators created and finalized in 2012/2013:</p> <p><b>Chronic Disease Prevention:</b> <i>Proximity to Community Focal Point; Land Use Mix</i></p> <p><b>Injury Prevention:</b> <i>Injury-Related Emergency Department Visits; Fall-Related Emergency Department Visits; Neurotrauma-Related Hospitalization; Cell Phone Use and Text Messaging While Driving; Child Car Restraint Use; Self-Reported Injury; Illicit Drug Use</i></p>	<p><b>Chronic Disease Prevention:</b> <i>Outlet Density; Traffic Calming Measures; Network Characteristics; Traffic Counts; Traffic Speed</i></p> <p><b>Reproductive Health:</b> <i>Maternal Obesity; Gestational Weight Gain; Maternal Mental Health; Alcohol Use During Pregnancy; Illicit Drug Use During Pregnancy.</i></p> <p><b>Child Health:</b> <i>Intention to Breastfeed</i></p>	<p><i>Labour Force Participation Rate and Unemployment Rate</i> indicators were combined into <i>Labour Force Information</i> (along with the new <i>Participation Rate</i> indicator) – January 2013</p>
March 2014	<p>Core Indicator created and finalized in 2014</p> <p><b>Social Determinants of Health:</b> <i>Sense of Community Belonging</i></p>	<p><b>Social Determinants of Health:</b> <i>Visible Minority Status</i></p>	