

Database of Public Health Surveillance Systems, 2016

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Surveillance is an integral part of our work as public health practitioners. Sometimes, it can be hard to keep all the different surveillance systems in order so the below database is a handy resource that lists many of the key surveillance systems.

Database name	Description	Jurisdiction
<u>Infectious Diseases Query</u>	Aggregated infectious disease data from the integrated Public Health Information System (iPHIS); updated weekly; only accessible by authorized users <ul style="list-style-type: none"> - See this <u>link</u> for monthly, publicly-accessible reports - See <u>Reportable Burdensome Infectious Disease Incidence</u> for data from 2003 to 2013; georeferenced incidences of 14 infectious diseases for the 36 local public health units 	Ontario
<u>Alberta Real Time Syndromic Surveillance Net</u>	Real-time or near-real-time georeferenced data from Health Link Alberta calls, emergency department visits, school absenteeism, lab reports, and online data forms	Alberta
<u>Acute Care Enhanced Surveillance System (ACES)</u>	Near-real-time, georeferenced emergency department syndromic surveillance system of over 100 hospitals (both ED visits and admissions)	Ontario
<u>Influenza-like Illness (ILI) Mapper</u>	Map of influenza-like activity in Ontario by health unit, based on data from ACES (above)	Ontario
<u>Public Health Information Management System (PHIMS)</u>	Geo-visualization of population marginalization and deprivation, cloud cover and precipitation data, stream gauge locations, heat, First Nations reserves, street view, forest fire locations and smoke plumes, well water uranium levels, nuclear station locations, earthquake locations, and air quality (health) index	Ontario
<u>Social Determinants of Health (SDOH) Mapper</u>	Geo-visualization the Ontario Marginalization Index, using Statistics Canada data	Ontario
<u>Notifiable Diseases On-Line</u>	Incidences of nationally notifiable diseases by year, age, and sex	Canada
<u>FluWatch</u>	Positive lab reports of influenza and other respiratory viruses, lab-confirmed outbreak reports, antiviral sales, influenza-associated deaths, and influenza-	Canada

	associated hospitalizations from across Canada, by week, as well as strain characteristics and province-specific incidence	
<i>Global Public Health Intelligence Network</i>	Geo-referenced reports of potential health threats based on active monitoring of websites	Global
<u>Canadian Integrated Program for Antimicrobial Resistance Surveillance</u>	A mixed passive and active surveillance system collecting data from physician diagnoses, hospital purchasing, pharmacy sales, sentinel farms, and the Canadian Animal Health Institute on antimicrobial use	Canada
<u>Canadian Chronic Diseases Surveillance system</u>	Prevalence, incidence, mortality, complications, co-morbid conditions, and health services utilization of chronic diseases, based on provincial and territorial health administration databases (open data available from 1999 to 2011)	Canada
<u>Canadian Immunization Monitoring Program Active (IMPACT)</u>	Pediatric hospital-based active surveillance system that monitors for adverse events following immunization	Canada
<u>National Enteric Surveillance Program (NESP)</u>	Reports of lab-confirmed enteric illnesses are submitted to the National Microbiology Lab, which reviews the reports for trends and potential outbreaks; weekly summary of data is available to the provinces	Canada
<u>PulseNet</u>	National database of pulse-field gel electrophoresis patterns of all cases of <i>E. coli</i> and most cases of <i>Salmonella</i> ; used to detect related cases across large geographical areas; system based on the CDC's PulseNet USA	Canada
<u>Canadian Travel Medicine Network (CanTravNet)</u>	Network of travel and tropical medicine clinics; sentinel surveillance program for illness in returned Canadian travellers and new immigrants; the sites are a subset of the GeoSentinel Surveillance Network	Canada/ Global
<u>Canadian Influenza Sentinel Practitioner Surveillance Network (CSPSN)</u>	Sentinel health care practitioners obtain laboratory specimens, patient history, and vaccination status for all influenza-like illnesses to determine influenza vaccine effectiveness using the "test-negative" design (led by the BC Influenza Sentinel Practitioner Surveillance Network)	Canada/BC
<u>The Alberta Recording and Research Network (TARRANT) Viral</u>	Sentinel health care practitioners obtain laboratory specimens, patient history, and vaccination status for: <ul style="list-style-type: none"> - influenza-like illness (part of the CSPSN); and - pediatric gastroenteritis cases (the Community Pediatric Gastroenteritis 	Alberta

<u>Watch</u>	Surveillance (CPGS) system)	
<u>Sentinel Influenza Vaccine Effectiveness Study</u>	Sentinel health care practitioners obtain laboratory specimens, patient history, and vaccination status for all influenza-like illnesses to determine influenza vaccine effectiveness (part of the CSPSN)	Ontario
<u>FoodNet Canada</u>	Sentinel local public health units and provincial public health laboratories report cases of food- and water-borne illnesses, along with an in-depth investigation of each case	Canada
<u>Advanced Syndromic Surveillance and Emergency Triage (ASSET)</u>	Uses data from Ottawa-area hospital ER visits to generate syndrome-based alerts for Ottawa Public Health, based on the Real-time Outbreak and Disease Surveillance System developed at the University of Pittsburgh	Ottawa
<u>Reseau d'Alerte et d'Information Zoosanitaire (RAIZO)</u>	Sentinel veterinarian surveillance of zoonoses	Quebec
<u>Ontario Respiratory Virus Bulletin</u>	Weekly counts of lab-confirmed influenza cases (and how many were hospitalized or died), percent of respiratory samples positive for influenza, number of influenza outbreaks, influenza activity reported by health unit (provided as raw numbers, proportions, graphs, and influenza activity map by health unit)	Ontario
<u>CSC Infectious Disease Surveillance System (IDSS)</u>	Correctional Service Canada offers screening for HIV, HCV, HAV, HBV, STI and TB to all inmates upon admission; cases of TB are tracked in the IDSS system	Canada
<u>STI Lab Data Decision Support Tool</u>	Lab reports on gonorrhea and chlamydia, aggregated by health unit	Ontario
<u>Carbapenemase-producing Enterobacteriaceae Surveillance</u>	Bi-annual reports of CPE isolates voluntarily sent by Ontario hospitals to Public Health Ontario Laboratory for confirmatory testing	Ontario
<u>Vector-borne Disease Surveillance</u>	Weekly case counts of West Nile virus, Lyme disease, and Eastern equine encephalitis (published during the summer and fall)	Ontario
<u>Federally Reportable Diseases in Animals</u>	Animal owners, veterinarians and laboratories are required to immediately report confirmed or suspected cases of 31 diseases to the CFIA	Canada