

SURVEILLANCE REPORT

Diseases of Public Health Significance Cases

Published: August 2024

Introduction

This monthly report publishes recent data on selected Diseases of Public Health Significance (DOPHS) in Ontario, as reported through the integrated Public Health Information System (iPHIS). The presented case counts and rates include confirmed cases for all diseases, and probable cases for select diseases (refer to the 'Data Caveats and Notes' section for details).

Please interpret surveillance results for DOPHS in 2020 through to 2023 with caution due to changes in the availability of health care, health seeking behaviours, public health follow up, and case entry during the COVID-19 pandemic and subsequent recovery period.

The following table provides case counts by month, followed by the total counts and rates per 1,000,000 population for 2024 to date (i.e., January to June 2024). The last two columns of the table provide the comparison historical data of 5-year counts and rates per 1,000,000 population for an average year-to-date (i.e., average of January to June counts based on data from 2019 to 2023).

Table 1: Selected Diseases of Public Health Significance case counts in Ontario, by month

DOPHS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2024 to date COUNT	2024 to date RATE per 1,000,000 population	5-year average year-to-date COUNT	5-year average year-to-date RATE
Acute Flaccid Paralysis	0	0	0	0	1	0							1	0.1	1	0.1
Acquired Immunodeficiency Syndrome	3	9	5	10	5	6							38	2.4	32	2.1
Amebiasis	19	31	35	27	23	16							151	9.7	170	11.4
Anaplasmosis	0	0	0	0	9	5							14	0.9	n/a	n/a
Babesiosis	1	0	0	0	1	0							2	0.1	n/a	n/a
Blastomycosis	5	14	9	9	4	1							42	2.7	38	2.5
Botulism	0	0	0	0	0	0							0	0.0	0	0.0
Brucellosis	1	1	0	0	2	1							5	0.3	3	0.2
Campylobacter enteritis	146	142	127	137	191	278							1,021	65.4	946	63.4
Carbapenemase-Producing Enterobacteriaceae	69	81	69	94	89	58							460	29.5	216	14.5
Chlamydial Infections	4,210	3,689	2,798	2,853	2,696	2,592							18,838	1,207.5	20,155	1,351.3

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Cholera	0	0	0	0	0	0							0	0.0	1	0.1
Cryptosporidiosis	36	61	43	47	35	55							277	17.8	174	11.7
Cyclosporiasis	4	0	5	3	37	72							121	7.8	225	15.1
Echinococcus multilocularis Infection	0	0	0	0	0	0							0	0.0	0	0.0
Encephalitis	4	2	0	1	0	1							8	0.5	17	1.1
Encephalitis/ Meningitis	9	5	17	13	16	12							72	4.6	50	3.4
Food Poisoning, All Causes	2	2	7	5	7	0							23	1.5	19	1.3
Giardiasis	106	81	66	79	64	86							482	30.9	408	27.4
Gonorrhoea (All Types)	1,273	1,082	1,004	1,029	1,062	1,002							6,452	413.6	5,200	348.6
Group A Streptococcal Disease, Invasive	264	193	188	161	143	118							1,067	68.4	590	39.6
Group B Streptococcal Disease, Neonatal	3	3	2	4	2	4							18	1.2	17	1.1

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Haemophilus Influenzae Disease, All Types, Invasive	44	26	40	29	34	23							196	12.6	96	6.4
Hepatitis A	13	9	17	10	10	8							67	4.3	61	4.1
Hepatitis B (Acute)	6	10	9	9	8	9							51	3.3	45	3.0
Hepatitis B (Chronic)	147	144	140	130	107	123							791	50.7	738	49.5
Hepatitis C	301	304	280	272	293	228							1,678	107.6	1,883	126.2
Human Immunodeficiency Virus	127	109	124	104	106	83							653	41.9	436	29.2
Influenza	5,655	4,186	3,367	1,736	509	137							15,590	999.3	4,902	328.7
Legionellosis	11	13	8	10	25	38							105	6.7	94	6.3
Leprosy	0	0	0	0	0	0							0	0.0	0	0.0
Listeriosis	6	7	7	11	3	12							46	2.9	31	2.1
Lyme Disease	24	24	23	47	150	452							720	46.2	428	28.7
Measles	1	4	5	10	3	1							24	1.5	4	0.3
Meningitis	8	6	8	4	14	10							50	3.2	62	4.2

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Meningococcal Disease, Invasive	3	3	5	6	6	1							24	1.5	11	0.7
Mpox	6	20	8	9	13	27							83	5.3	n/a	n/a
Mumps	4	5	10	3	5	2							29	1.9	20	1.3
Ophthalmia neonatorum	0	0	1	0	2	0							3	0.2	1	0.1
Paralytic Shellfish Poisoning	0	0	0	0	0	0							0	0.0	0	0.0
Paratyphoid Fever	2	10	11	10	8	3							44	2.8	32	2.1
Pertussis (Whooping Cough)	41	12	19	33	113	252							470	30.1	98	6.6
Pneumococcal Disease, Invasive	179	186	188	182	165	101							1,001	64.2	551	36.9
Powassan	0	0	0	0	0	0							0	0.0	n/a	n/a
Q Fever	0	0	1	0	1	2							4	0.3	6	0.4
Rabies	0	0	0	0	0	0							0	0.0	0	0.0
Salmonellosis	223	207	244	205	193	198							1,270	81.4	859	57.6
Shigellosis	23	28	23	17	11	17							119	7.6	107	7.2

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Syphilis, Early Congenital	2	3	5	3	0	2							15	1.0	5	0.3
Syphilis, Infectious	269	274	242	236	269	245							1,535	98.4	1,441	96.6
Syphilis, Other	212	234	270	210	217	198							1,341	86.0	710	47.6
Tetanus	0	0	0	1	0	0							1	0.1	1	0.1
Trichinosis	0	0	0	0	0	0							0	0.0	4	0.3
Tuberculosis	68	83	63	73	104	98							489	31.3	375	25.1
Tularemia	0	0	0	0	0	0							0	0.0	0	0.0
Typhoid Fever	12	16	10	14	18	8							78	5.0	57	3.8
Verotoxin Producing E. coli Including HUS	5	12	14	14	12	20							77	4.9	69	4.6
West Nile Virus Illness	0	2	0	0	1	0							3	0.2	4	0.3
Yersiniosis	21	27	18	19	24	11							120	7.7	116	7.8

Ontario Cases: Ontario Ministry of Health, iPHIS database, extracted by Public Health Ontario [2024 Aug 14].

Ontario Population: Ontario. Ministry of Health and Long-Term Care, IntelliHEALTH Ontario. Population Projections [2018-2023] [date extracted 2022 Jan 13].

= Although measles has been eliminated in Canada, it remains endemic in other countries and therefore, imported and import-related cases continue to occur in Ontario.

n/a = Five-year historical data are not yet available for these diseases (n/a):

- Mpox, first designated as a DOPHS, June 2022.
- Anaplasmosis, Babesiosis and Powassan, first designated as DOPHS, July 2023.

Data Notes and Caveats

- iPHIS is a dynamic reporting system which allows ongoing updates to data previously entered. As a result, data extracted from iPHIS represent a snap shot at the time of extraction and may differ from previous or subsequent reports. The data only represent selected cases reported to public health and recorded in iPHIS that meet the Ontario Ministry of Health's confirmed and/or probable [surveillance case definitions](#) in place at the time that the case was reported. Refer to the [Factors Affecting Reportable Diseases in Ontario](#) report for additional information on case definition changes and associated trends from 1991 to 2016. Note that the potential for underreporting and unresolved duplicates exists.
- Please note that the data presented in this report is subject to a time lag of 2 months to ensure completion of data entry requirements.
- Case counts for amebiasis, invasive *Haemophilus influenzae* disease (all types), invasive meningococcal disease, Lyme disease, mumps, pertussis, and West Nile Virus illness are based on the sum of confirmed and probable cases as reported in iPHIS. All other diseases reported in the table are based on confirmed cases only.
- Chronic and acute hepatitis B case counts are not mutually exclusive and should not be added to obtain a total for hepatitis B cases in Ontario.
- A case is reported as encephalitis and/or meningitis when an agent is not specifically identified through laboratory testing or is not reportable.
- Case counts of Carbapenemase-Producing *Enterobacteriaceae* (CPE) include CPE-Infection, CPE-Colonization, and CPE-Unspecified. Where multiple reports with the same carbapenemase are entered in iPHIS for a client, only the first report is included.
- Table 1 is not an exhaustive list of all DOPHS in Ontario. Historical annual counts and rates for most diseases designated as a DOPHS are available in the [Infectious Disease Trends in Ontario reports](#). The following designated diseases/outbreaks are omitted from the table:
 - Counts of Creutzfeldt-Jakob disease are not updated frequently enough for monthly publication as a result of an additional data reconciliation step that is required.
 - Diseases that are extremely rare or have zero incidence in recent years: anthrax, chancroid, diphtheria, hantavirus pulmonary syndrome, hemorrhagic fevers and Lassa fever, plague, acute poliomyelitis, psittacosis/ornithosis, rubella and rubella, congenital syndrome and smallpox.
 - Diseases that are only reportable in outbreak situations or as a combination of individual and aggregate counts: chickenpox (varicella), *Clostridioides difficile* infection (CDI) outbreaks in public hospitals, and gastroenteritis and respiratory infection outbreaks in institutions and public hospitals.
 - Counts of coronaviruses causing severe acute respiratory illness are not included, as COVID-19 cases are reported through other systems. Visit the [Ontario Respiratory Virus Tool](#) for respiratory virus activity in Ontario, including COVID-19, influenza and other respiratory viruses. Information on CDI outbreaks in public hospitals is available in the [Infectious Disease Trends in Ontario reports](#).

Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Diseases of public health significance cases. Toronto, ON: King's Printer for Ontario; 2024.

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