

SURVEILLANCE REPORT

Diseases of Public Health Significance Cases

Published: January 2025

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 November 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 November 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	0	3	0	1	0		5	0.3	1	0.1
Acquired Immunodeficiency Syndrome	2	8	5	9	3	4	1	2	3	2	2		41	2.6	63	4.2
Amebiasis	20	32	36	27	23	18	26	23	23	15	15		258	16.5	312	20.9
Anaplasmosis	0	0	0	0	8	15	9	5	3	4	5		49	3.1	n/a	n/a
Babesiosis	1	0	0	0	1	0	0	1	1	0	0		4	0.3	n/a	n/a
Blastomycosis	6	14	9	9	6	2	5	6	5	12	12		86	5.5	85	5.7
Botulism	0	0	0	0	0	0	0	0	0	0	0		0	0	2	0.1
Brucellosis	1	1	0	1	3	1	1	0	2	2	0		12	0.8	5	0.3
Campylobacter enteritis	149	146	126	141	190	287	376	328	241	232	180		2,396	153.6	2,292	153.7
Carbapenemase-Producing Enterobacteriaceae	69	81	68	95	105	81	107	94	99	99	100		998	64	436	29.2
Chlamydial Infections	4,215	3,727	3,604	3,680	3,558	3,316	3,547	3,402	3,496	3,727	3,405		39,677	2,543.3	38,561	2,585.3

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Cholera	0	0	0	0	0	0	0	0	0	0	0		0	0	1	0.1
Cryptosporidiosis	39	62	46	47	37	62	214	143	70	44	37		801	51.3	536	35.9
Cyclosporiasis	4	0	6	3	38	85	205	61	6	3	3		414	26.5	406	27.2
Echinococcus multilocularis Infection	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Encephalitis	4	2	0	1	0	2	2	2	0	1	2		16	1	32	2.1
Encephalitis/ Meningitis	9	5	17	12	16	10	19	22	15	9	14		148	9.5	120	8
Food Poisoning, All Causes	2	2	7	7	6	0	2	5	0	1	1		33	2.1	31	2.1
Giardiasis	107	87	69	80	64	96	163	184	157	99	71		1,177	75.4	908	60.9
Gonorrhoea (All Types)	1,276	1,082	1,004	1,030	1,064	1,005	1,269	1,269	1,243	1,292	1,139		12,673	812.4	10,317	691.7
Group A Streptococcal Disease, Invasive	264	191	189	162	143	114	110	110	101	114	133		1,631	104.5	1,041	69.8
Group B Streptococcal Disease, Neonatal	3	3	2	4	2	4	2	2	1	2	3		28	1.8	34	2.3

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Haemophilus Influenzae Disease, All Types, Invasive	42	25	40	29	34	23	12	22	23	25	33		308	19.7	187	12.5
Hepatitis A	12	8	17	9	10	9	10	12	10	12	11		120	7.7	108	7.2
Hepatitis B (Acute)	6	9	8	9	9	9	6	10	11	15	9		101	6.5	84	5.6
Hepatitis B (Chronic)	159	156	154	148	123	148	143	117	126	150	142		1,566	100.4	1,416	94.9
Hepatitis C	302	310	284	283	304	252	235	271	225	237	204		2,907	186.3	3,447	231.1
Human Immunodeficiency Virus	123	111	122	106	104	84	97	78	68	86	100		1,079	69.2	858	57.5
Influenza	5,658	4,191	3,369	1,737	509	138	125	72	97	79	157		16,132	1,034.1	7,487	502
Legionellosis	11	14	9	10	25	41	83	57	46	22	15		333	21.3	334	22.4
Leprosy	0	0	0	0	0	0	0	0	0	0	0		0	0	1	0.1
Listeriosis	6	7	7	12	3	12	13	13	10	9	10		102	6.5	69	4.6
Lyme Disease	24	23	25	48	174	539	583	347	219	168	90		2,240	143.6	1,419	95.1
Measles	1	4	5	10	3	1	0	1	0	8	2		35	2.2	4	0.3
Meningitis	8	6	8	5	14	14	10	14	11	10	8		108	6.9	126	8.4

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Meningococcal Disease, Invasive	3	3	5	6	6	1	2	0	3	2	3		34	2.2	23	1.5
Mpox	6	20	8	9	13	28	53	48	43	26	17		271	17.4	n/a	n/a
Mumps	4	5	10	4	6	2	1	0	4	14	28		78	5	35	2.3
Ophthalmia neonatorum	0	0	1	0	2	0	0	0	0	0	0		3	0.2	2	0.1
Paralytic Shellfish Poisoning	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Paratyphoid Fever	2	10	12	10	10	2	5	7	2	1	2		63	4	45	3
Pertussis (Whooping Cough)	41	12	21	31	113	275	375	315	218	146	116		1,663	106.6	196	13.1
Pneumococcal Disease, Invasive	180	186	188	183	164	102	88	59	114	176	147		1,587	101.7	937	62.8
Powassan	0	0	0	0	0	0	1	0	0	0	0		1	0.1	n/a	n/a
Q Fever	0	0	1	0	2	2	2	3	0	0	0		10	0.6	9	0.6
Rabies	0	0	0	0	0	0	0	1	0	0	0		1	0.1	0	0
Salmonellosis	226	214	242	209	195	205	254	279	193	176	182		2,375	152.2	1,728	115.9
Shigellosis	25	29	23	18	11	18	18	24	23	34	21		244	15.6	201	13.5

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Syphilis, Early Congenital	2	4	7	3	0	2	2	0	0	1	1		22	1.4	10	0.7
Syphilis, Infectious	269	284	251	246	281	270	234	195	200	232	177		2,639	169.2	2,726	182.8
Syphilis, Other	218	235	265	207	216	204	172	218	192	204	208		2,339	149.9	1,366	91.6
Tetanus	0	0	0	1	0	0	0	1	1	0	0		3	0.2	2	0.1
Trichinosis	0	0	0	1	0	0	0	0	0	0	0		1	0.1	5	0.3
Tuberculosis	70	87	65	75	105	100	98	91	82	87	66		926	59.4	704	47.2
Tularemia	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Typhoid Fever	12	16	10	15	18	11	6	10	10	6	6		120	7.7	87	5.8
Verotoxin Producing E. coli Including HUS	5	12	15	14	12	23	35	23	11	13	10		173	11.1	164	11
West Nile Virus Illness	0	3	0	0	1	0	8	34	36	3	0		85	5.4	49	3.3
Yersiniosis	22	28	16	18	24	12	29	21	28	25	12		235	15.1	213	14.3

Ontario Cases: Ontario Ministry of Health, iPHIS database, extracted by Public Health Ontario [2025 Jan 8].

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 DoOPHS 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](#).
 - Toronto Public Health (since mid-March 2020) and Ottawa Public Health (since mid-December 2023) report sporadic laboratory-confirmed influenza cases in aggregate to Public Health Ontario for inclusion in the Ontario Respiratory Virus Tool. These cases are not entered in iPHIS which means that the laboratory-confirmed influenza case counts since April 2020 that are presented in this monthly report are incomplete. For more complete seasonal laboratory-confirmed influenza case totals, refer to the [Ontario Respiratory Virus Tool](#).

Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Diseases of public health significance cases. Toronto, ON: King's Printer for Ontario; 2025.

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