

SURVEILLANCE REPORT

Diseases of Public Health Significance Cases for January to December 2024

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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 December 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 December 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	0	5	0.3	1	0.1
Acquired Immunodeficiency Syndrome	2	8	5	8	3	4	2	2	3	2	2	6	47	3	67	4.5
Amebiasis	21	32	36	27	23	18	26	24	24	15	16	18	280	17.9	336	22.5
Anaplasmosis	0	0	2	0	17	42	31	16	14	15	16	7	160	10.3	n/a	n/a
Babesiosis	1	0	0	0	1	0	0	1	1	0	0	0	4	0.3	n/a	n/a

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Blastomycosis	6	14	9	9	6	2	6	8	7	14	13	9	103	6.6	96	6.4
Botulism	0	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	0	12	0.8	5	0.3
Campylobacter enteritis	150	146	126	141	190	288	376	328	243	236	182	127	2,533	162.4	2,427	162.7
Carbapenemase-Producing Enterobacteriaceae	69	81	68	95	105	81	107	95	102	101	101	62	1,067	68.4	473	31.7
Chlamydial Infections	4,218	3,728	3,606	3,681	3,554	3,323	3,555	3,401	3,502	3,737	3,572	2,896	42,773	2,741.8	41,769	2,800.4
Cholera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Cryptosporidiosis	39	62	45	47	38	63	216	143	70	45	40	19	827	53	559	37.5
Cyclosporiasis	4	0	6	3	39	85	207	59	6	3	4	3	419	26.9	410	27.5
Echinococcus multilocularis Infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Encephalitis	4	2	0	1	0	2	2	2	0	2	2	3	20	1.3	35	2.3
Encephalitis/Meningitis	8	5	17	12	16	10	19	21	15	8	14	9	154	9.9	129	8.6
Food Poisoning, All Causes	2	2	7	7	6	0	2	5	0	1	1	4	37	2.4	39	2.6

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Giardiasis	111	87	69	81	64	97	162	189	163	101	76	81	1,281	82.1	965	64.7
Gonorrhoea (All Types)	1,280	1,082	1,005	1,028	1,064	1,007	1,270	1,269	1,243	1,292	1,140	924	13,604	872	11,205	751.2
Group A Streptococcal Disease, Invasive	266	191	189	163	144	113	110	110	101	117	135	144	1,783	114.3	1,178	79
Group B Streptococcal Disease, Neonatal	3	3	2	4	2	4	2	4	1	2	3	3	33	2.1	38	2.5
Haemophilus Influenzae Disease, All Types, Invasive	41	25	40	29	35	23	12	22	23	25	34	34	343	22	219	14.7
Hepatitis A	13	8	16	9	10	9	10	12	10	12	13	10	132	8.5	116	7.8
Hepatitis B (Acute)	5	9	8	9	10	9	6	11	10	14	11	8	110	7.1	91	6.1
Hepatitis B (Chronic)	171	165	170	165	134	163	155	126	139	164	156	128	1,836	117.7	1,550	103.9
Hepatitis C	305	309	283	284	304	258	242	279	237	257	231	168	3,157	202.4	3,698	247.9
Human Immunodeficiency Virus	122	115	123	107	105	83	99	78	71	90	92	78	1,163	74.5	928	62.2
Influenza	5,660	4,200	3,370	1,737	509	138	125	72	97	79	158	2,010	18,155	1,163.8	10,420	698.6
Legionellosis	11	14	9	10	25	41	84	57	46	22	15	29	363	23.3	354	23.7
Leprosy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1

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Listeriosis	6	7	7	12	3	12	13	13	10	9	10	2	104	6.7	72	4.8
Lyme Disease	25	23	26	49	175	544	589	355	228	178	97	48	2,337	149.8	1,450	97.2
Measles	1	4	5	10	3	1	0	1	0	8	2	3	38	2.4	4	0.3
Meningitis	9	6	8	5	14	14	11	14	11	10	9	7	118	7.6	137	9.2
Meningococcal Disease, Invasive	3	3	5	6	6	1	2	0	3	2	3	5	39	2.5	25	1.7
Mpox	6	20	8	9	13	28	53	48	43	26	17	9	280	17.9	n/a	n/a
Mumps	4	6	10	4	6	2	1	0	4	14	29	19	99	6.3	39	2.6
Ophthalmia neonatorum	0	0	1	0	2	0	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	0
Paratyphoid Fever	2	10	12	10	10	2	5	7	2	1	2	1	64	4.1	47	3.2
Pertussis (Whooping Cough)	41	12	21	31	113	275	374	316	219	150	119	60	1,731	111	223	15
Pneumococcal Disease, Invasive	181	188	188	184	164	102	88	59	113	182	154	219	1,822	116.8	1,093	73.3
Powassan	0	0	0	0	0	0	1	0	0	0	0	0	1	0.1	n/a	n/a
Q Fever	0	0	1	0	2	2	2	3	0	0	0	2	12	0.8	10	0.7
Rabies	0	0	0	0	0	0	0	1	0	0	0	0	1	0.1	0	0

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Salmonellosis	226	216	241	209	196	207	252	281	194	177	192	186	2,577	165.2	1,853	124.2
Shigellosis	25	29	23	18	12	18	19	24	24	34	22	23	271	17.4	218	14.6
Syphilis, Early Congenital	2	3	7	3	0	2	2	0	1	1	1	2	24	1.5	11	0.7
Syphilis, Infectious	270	286	253	250	281	277	236	202	204	246	206	157	2,868	183.8	2,957	198.2
Syphilis, Other	219	235	260	210	217	200	176	213	193	204	201	166	2,494	159.9	1,485	99.6
Tetanus	0	0	0	1	0	0	0	1	1	0	0	0	3	0.2	2	0.1
Trichinosis	0	0	0	1	0	0	0	0	0	0	0	0	1	0.1	5	0.3
Tuberculosis	71	89	65	74	106	100	101	94	83	88	71	55	997	63.9	765	51.3
Tularemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	12	17	10	15	18	11	6	10	10	8	10	11	138	8.8	96	6.4
Verotoxin Producing E. coli Including HUS	5	12	15	14	12	23	35	23	11	13	11	9	183	11.7	174	11.7
West Nile Virus Illness	0	3	0	0	1	0	8	34	37	4	0	0	87	5.6	49	3.3
Yersiniosis	21	28	16	19	24	13	28	21	28	26	12	9	245	15.7	227	15.2

Ontario Cases: Ontario Ministry of Health, iPHIS database, extracted by Public Health Ontario [2025 Mar 12].

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, anaplasmosis, babesiosis, invasive *Haemophilus influenzae* disease (all types), invasive meningococcal disease, Lyme disease, mumps, pertussis, Powassan virus, 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

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