

QUARTERLY INFECTIOUS DISEASES SURVEILLANCE REPORT

Diseases of Public Health Significance Cases for January to June 2023

This report publishes recent data on 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 Diseases of Public Health Significance in 2020, 2021, 2022 and 2023 with caution due to changes in the availability of health care, health seeking behaviour, public health follow up, and case entry during the COVID-19 pandemic.

The following table provides case counts by month, followed by the total counts and rates per 1,000,000 population for 2023 to date (i.e., January to June 2023). 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 – December counts based on data from 2018 to 2022).

Disease of Public Health Significance	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2023 to date COUNT	2023 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	2	0	0							2	0.1	0	0.0
AIDS	4	4	4	6	2	2							22	1.4	32	2.2
Amebiasis	37	24	35	27	35	20							178	11.6	187	12.7
Blastomycosis	12	5	8	3	7	4							39	2.5	33	2.2
Botulism	0	0	0	0	0	0							0	0.0	1	0.1
Brucellosis	0	1	0	1	1	0							3	0.2	3	0.2
Campylobacter enteritis	136	155	157	138	205	260							1,051	68.3	987	67.0

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Carbapenemase-Producing <i>Enterobacteriaceae</i> (CPE)	54	44	75	74	64	66							377	24.5	151	10.2
Chlamydial Infections	3,935	3,264	4,119	3,515	3,738	3,867							22,438	1,459.0	20,231	1,372.6
Cholera	0	0	0	0	0	0							0	0.0	1	0.1
Cryptosporidiosis	23	22	18	12	18	31							124	8.1	194	13.2
Cyclosporiasis	5	8	5	14	160	225							417	27.1	174	11.8
<i>Echinococcus multilocularis</i> Infection	0	0	0	0	0	0							0	0.0	0	0.0
Encephalitis	3	1	2	1	1	2							10	0.7	17	1.2
Encephalitis/Meningitis	11	9	9	11	7	10							57	3.7	50	3.4
Food Poisoning, All Causes	1	6	7	1	2	1							18	1.2	19	1.3
Giardiasis	75	76	101	66	58	65							441	28.7	467	31.7
Gonorrhoea (All Types)	1,106	935	1,111	1,037	1,197	1,230							6,616	430.2	4,778	324.2
Group A Streptococcal Disease, Invasive	126	129	156	190	204	176							981	63.8	526	35.7
Group B Streptococcal Disease, Neonatal	5	4	4	2	6	2							23	1.5	19	1.3
<i>Haemophilus Influenzae</i> Disease, All Types, Invasive	30	27	31	24	23	19							154	10.0	75	5.1
Hepatitis A	13	9	22	9	20	9							82	5.3	56	3.8
Hepatitis B (Acute)	12	5	8	4	11	12							52	3.4	47	3.2

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Hepatitis B (Chronic)	97	92	94	98	107	139							627	40.8	757	51.4
Hepatitis C	232	249	266	237	260	265							1,509	98.1	1,973	133.9
HIV	83	99	131	77	121	104							615	40.0	391	26.5
Influenza	649	246	485	588	550	301							2,819	183.3	7,593	515.2
Legionellosis	8	14	16	17	13	19							87	5.7	89	6.0
Leprosy	0	0	0	0	0	0							0	0.0	1	0.1
Listeriosis	6	6	7	4	5	4							32	2.1	32	2.2
Lyme Disease	21	15	16	29	86	261							428	27.8	371	25.2
Measles [#]	0	2	0	2	0	1							5	0.3	4	0.3
Meningitis	8	4	9	8	15	10							54	3.5	66	4.5
Meningococcal Disease, Invasive	1	2	0	3	3	2							11	0.7	12	0.8
Mumps	2	4	3	1	1	5							16	1.0	34	2.3
Ophthalmia neonatorum	0	0	1	0	0	0							1	0.1	1	0.1
Paralytic Shellfish Poisoning	0	0	0	0	0	0							0	0.0	0	0.0
Paratyphoid Fever	5	6	23	13	2	5							54	3.5	24	1.6
Pertussis (Whooping Cough)	42	59	48	21	14	8							192	12.5	100	6.8
Pneumococcal Disease, Invasive	139	119	146	147	138	103							792	51.5	539	36.6
Q Fever	2	0	2	1	1	0							6	0.4	5	0.3
Rabies	0	0	0	0	0	0							0	0.0	0	0.0

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Rubella [#]	0	0	0	0	0	0							0	0.0	0	0.0
Rubella, Congenital Syndrome [#]	0	0	0	0	0	0							0	0.0	0	0.0
Salmonellosis	191	196	209	176	189	172							1,133	73.7	885	60.0
Shigellosis	23	24	25	10	20	19							121	7.9	108	7.3
Syphilis, Early Congenital	3	1	1	2	2	2							11	0.7	4	0.3
Syphilis, Infectious	302	250	353	249	243	263							1,660	107.9	1,270	86.2
Syphilis, Other	197	183	222	171	219	191							1,183	76.9	553	37.5
Tetanus	0	1	0	0	0	0							1	0.1	1	0.1
Trichinosis	0	0	0	0	0	0							0	0.0	4	0.3
Tuberculosis	76	54	73	70	81	76							430	28.0	347	23.5
Tularemia	0	0	0	0	0	0							0	0.0	0	0.0
Typhoid Fever	15	12	20	17	13	10							87	5.7	52	3.5
Verotoxin Producing <i>E. coli</i> Including HUS	9	7	9	12	9	12							58	3.8	71	4.8
West Nile Virus Illness	0	0	0	0	0	0							0	0.0	4	0.3
Yersiniosis	18	23	24	17	17	16							115	7.5	125	8.5

Ontario Cases: Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Public Health Ontario [2023/09/01].

Ontario Population: Population Projections [2018-2023], Ontario Ministry of Health and Long-Term Care, IntelliHEALTH Ontario, Dates Extracted [2022/01/13].

[#] Although measles, rubella, and congenital rubella syndrome have been eliminated in Canada, these diseases remain endemic in other countries and therefore, imported and import-related cases continue to occur in Ontario.

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 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.
- 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 Diseases of Public Health Significance (DOPHS) in Ontario. Historical annual counts and rates for most diseases designated under 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, and smallpox.
 - Diseases that are only reportable in outbreak situations or as a combination of individual and aggregate counts: chickenpox (varicella), *Clostridium 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 no longer included, because COVID-19 cases are now reported through several other systems in addition to iPHIS. Visit [COVID-19 data and surveillance](#) for detailed, up-to-date reporting on COVID-19 activity in Ontario.
- Detailed reporting on respiratory infection outbreaks in institutions and public hospitals is available in the [Ontario Respiratory Pathogen Bulletin](#).
- Information on CDI outbreaks in public hospitals is available in the [Infectious Disease Trends in Ontario reports](#).

Citation

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