

MONTHLY INFECTIOUS DISEASES SURVEILLANCE REPORT

Diseases of Public Health Significance Cases for January to May 2021

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 and 2021 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 2021 to date (i.e., Jan. to May 2021). 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 Jan. – May counts based on data from 2016 to 2021).

Disease of Public Health Significance	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2021 to date COUNT	2021 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	0								0	0.0	1	0.1
AIDS	4	1	6	5	3								19	1.3	26	1.8
Amebiasis	18	14	17	16	8								73	4.8	251	17.4
Blastomycosis	8	1	3	4	2								18	1.2	n/a	n/a
Botulism	0	0	0	0	0								0	0.0	1	0.1
Brucellosis	0	0	0	0	0								0	0.0	2	0.1
Campylobacter enteritis	95	88	85	80	94								442	29.4	936	64.9

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Carbapenemase-Producing <i>Enterobacteriaceae</i> (CPE)	16	19	18	18	10								81	5.4	n/a	n/a
Chlamydial Infections	2993	2599	3002	2640	1900								13134	872.5	18268	1266.2
Cholera	0	0	0	0	0								0	0.0	1	0.1
Cryptosporidiosis	10	12	15	12	9								58	3.9	163	11.3
Cyclosporiasis	0	0	1	1	3								5	0.3	50	3.5
<i>Echinococcus multilocularis</i> Infection	0	0	0	0	0								0	0.0	n/a	n/a
Encephalitis	0	0	2	2	0								4	0.3	15	1.0
Encephalitis/Meningitis	8	12	13	4	8								45	3.0	47	3.3
Food Poisoning, All Causes	0	0	0	2	0								2	0.1	25	1.7
Giardiasis	42	39	26	32	30								169	11.2	477	33.1
Gonorrhoea (All Types)	806	668	747	628	529								3378	224.4	3386	234.7
Group A Streptococcal Disease, Invasive	80	69	64	59	61								333	22.1	473	32.8
Group B Streptococcal Disease, Neonatal	3	2	4	2	2								13	0.9	20	1.4
<i>Haemophilus Influenzae</i> Disease, All Types, Invasive	3	2	5	6	11								27	1.8	n/a	n/a
Hepatitis A	2	2	3	1	3								11	0.7	53	3.7
Hepatitis B (Acute)	6	9	5	5	2								27	1.8	46	3.2
Hepatitis B (Chronic)	77	58	69	54	63								321	21.3	751	52.1

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Hepatitis C	234	217	278	259	230								1218	80.9	1887	130.8
HIV	40	41	47	38	29								195	13.0	332	23.0
Influenza	2	3	2	0	1								8	0.5	11583	802.8
Legionellosis	10	7	12	14	10								53	3.5	49	3.4
Leprosy	0	0	1	0	0								1	0.1	1	0.1
Listeriosis	5	1	3	4	5								18	1.2	27	1.9
Lyme Disease	7	6	11	25	63								112	7.4	79	5.5
Measles [#]	0	0	0	0	0								0	0.0	5	0.3
Meningitis	4	4	2	7	6								23	1.5	60	4.2
Meningococcal Disease, Invasive	1	1	1	0	1								4	0.3	15	1.0
Mumps	1	1	0	0	0								2	0.1	61	4.2
Ophthalmia neonatorum	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
Paratyphoid Fever	0	0	2	2	1								5	0.3	20	1.4
Pertussis (Whooping Cough)	0	1	1	0	0								2	0.1	153	10.6
Pneumococcal Disease, Invasive	54	35	44	52	41								226	15.0	564	39.1
Q Fever	0	0	1	1	2								4	0.3	4	0.3
Rabies	0	0	0	0	0								0	0.0	0	0.0
Rubella [#]	0	0	0	0	0								0	0.0	0	0.0

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Rubella, Congenital Syndrome [#]	0	0	0	0	0								0	0.0	0	0.0
Salmonellosis	53	46	48	46	78								271	18.0	1033	71.6
Shigellosis	14	10	9	5	4								42	2.8	127	8.8
Syphilis, Early Congenital	0	0	1	1	0								2	0.1	1	0.1
Syphilis, Infectious	228	199	218	181	135								961	63.8	781	54.1
Syphilis, Other	84	84	115	119	115								517	34.3	352	24.4
Tetanus	1	0	1	0	0								2	0.1	0	0.0
Trichinosis	0	0	1	0	1								2	0.1	4	0.3
Tuberculosis	40	61	45	48	61								255	16.9	269	18.6
Tularemia	0	0	0	0	0								0	0.0	0	0.0
Typhoid Fever	0	2	1	2	0								5	0.3	49	3.4
Verotoxin Producing <i>E. coli</i> Including HUS	1	4	6	12	8								31	2.1	42	2.9
West Nile Virus Illness	0	0	0	1	0								1	0.1	1	0.1
Yersiniosis	19	14	25	15	15								88	5.8	128	8.9

Ontario Cases: Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Public Health Ontario [2021/07/14].

Ontario Population: Population Projections [2018-2021] and Estimates [2016-2017], Ontario Ministry of Health and Long-Term Care, IntelliHEALTH Ontario, Dates Extracted [2019/11/26].

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.

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

- Blastomycosis, carbapenemase-producing *Enterobacteriaceae*, and *Echinococcus multilocularis* Infection, first designated under diseases of public health significance in May 2018.
- Invasive *Haemophilus influenzae* (all types), due to changes in reporting. As of May 1, 2018, all serotypes became reportable (prior to which only serotype b was reportable)

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](#).

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