

MONTHLY INFECTIOUS DISEASES SURVEILLANCE REPORT

Diseases of Public Health Significance cases for January to March 2020

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).

The following table provides case counts by month, followed by the total counts and rates per 1,000,000 population for 2020 to date (i.e., Jan. – Mar. 2020). 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. – Mar. counts based on data from 2015 to 2019).

Disease of Public Health Significance	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2020 to date COUNT	2020 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	0.0
AIDS	3	2	5										10	0.7	15	1.1
Amebiasis	45	28	20										93	6.3	179	12.6
Blastomycosis	5	0	4										9	0.6	n/a	n/a
Botulism	0	0	0										0	0.0	0	0.0
Brucellosis	0	0	1										1	0.1	2	0.1
Campylobacter enteritis	179	152	111										442	29.7	562	39.5
Carbapenemase-Producing <i>Enterobacteriaceae</i> (CPE)	28	22	25										75	5.0	n/a	n/a
Chlamydial Infections	4861	4217	2878										11956	804.3	11054	777.8

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Cholera	0	0	0										0	0.0	0	0.0
Coronaviruses causing severe acute respiratory illness	5	42	5269										5316	357.6	n/a	n/a
Cryptosporidiosis	45	40	16										101	6.8	98	6.9
Cyclosporiasis	2	0	2										4	0.3	10	0.7
<i>Echinococcus multilocularis</i> Infection	0	0	0										0	0.0	n/a	n/a
Encephalitis	0	0	0										0	0.0	10	0.7
Encephalitis/Meningitis	12	9	6										27	1.8	28	2.0
Food Poisoning, All Causes	1	0	3										4	0.3	21	1.5
Giardiasis	82	84	57										223	15.0	326	22.9
Gonorrhoea (All Types)	1102	863	657										2622	176.4	1862	131.0
Group A Streptococcal Disease, Invasive	124	112	105										341	22.9	267	18.8
Group B Streptococcal Disease, Neonatal	1	2	1										4	0.3	14	1.0
<i>Haemophilus Influenzae</i> Disease, All Types, Invasive	26	23	14										63	4.2	n/a	n/a
Hepatitis A	16	18	10										44	3.0	28	2.0
Hepatitis B (Acute)	7	15	8										30	2.0	26	1.8
Hepatitis B (Chronic)	122	89	49										260	17.5	496	34.9

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Hepatitis C	401	284	222										907	61.0	1211	85.2
HIV	81	77	70										228	15.3	200	14.1
Influenza	5577	2752	1132										9461	636.5	10020	705.0
Legionellosis	12	7	12										31	2.1	23	1.6
Leprosy	0	0	0										0	0.0	1	0.1
Listeriosis	3	1	6										10	0.7	14	1.0
Lyme Disease	10	9	7										26	1.7	15	1.1
Measles [#]	0	0	0										0	0.0	8	0.6
Meningitis	13	6	4										23	1.5	34	2.4
Meningococcal Disease, Invasive	2	6	4										12	0.8	10	0.7
Mumps	16	16	8										40	2.7	41	2.9
Ophthalmia neonatorum	0	0	0										0	0.0	1	0.1
Paralytic Shellfish Poisoning	0	0	0										0	0.0	0	0.0
Paratyphoid Fever	7	7	6										20	1.3	13	0.9
Pertussis (Whooping Cough)	47	24	14										85	5.7	77	5.4
Pneumococcal Disease, Invasive	155	102	77										334	22.5	355	25.0
Q Fever	1	1	0										2	0.1	2	0.1
Rabies	0	0	0										0	0.0	0	0.0
Rubella [#]	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
Salmonellosis	171	146	132										449	30.2	680	47.8
Shigellosis	34	42	9										85	5.7	81	5.7
Syphilis, Early Congenital	0	0	0										0	0.0	1	0.1
Syphilis, Infectious	224	180	138										542	36.5	413	29.1
Syphilis, Other	90	85	62										237	15.9	200	14.1
Tetanus	1	0	0										1	0.1	0	0.0
Trichinosis	0	0	0										0	0.0	3	0.2
Tuberculosis	59	53	56										168	11.3	150	10.6
Tularemia	0	1	0										1	0.1	0	0.0
Typhoid Fever	10	12	9										31	2.1	29	2.0
Verotoxin Producing <i>E. coli</i> Including HUS	7	10	6										23	1.5	22	1.5
West Nile Virus Illness	1	0	0										1	0.1	0	0.0
Yersiniosis	26	14	26										66	4.4	75	5.3

Ontario Cases: Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Public Health Ontario [2020/05/13].

Ontario Population: Population Projections [2018-2020] and Estimates [2015-2017], 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):

- Coronaviruses causing severe acute respiratory illness, first designated under diseases of public health significance in January 2020.

- 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.
- 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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