

MONTHLY INFECTIOUS DISEASES SURVEILLANCE REPORT

Diseases of Public Health Significance cases for January to April 2019

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 disease (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 2019 to date (i.e., Jan. – Apr. 2019). 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. – Apr. counts based on data from 2014 to 2018).

Disease of Public Health Significance	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019 to date COUNT	2019 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	1	0.1
AIDS	3	4	2	1	-	-	-	-	-	-	-	-	10	0.7	21	1.5
Amebiasis	45	36	43	26	-	-	-	-	-	-	-	-	150	10.2	253	18.0
Blastomycosis	6	4	3	5	-	-	-	-	-	-	-	-	18	1.2	n/a	n/a
Botulism	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	1	0.1
Brucellosis	3	1	0	0	-	-	-	-	-	-	-	-	4	0.3	1	0.1
Campylobacter enteritis	193	200	204	236	-	-	-	-	-	-	-	-	833	56.9	775	55.3
Carbapenemase-Producing <i>Enterobacteriaceae</i> (CPE)	22	17	33	42	-	-	-	-	-	-	-	-	114	7.8	n/a	n/a
Chlamydial Infections	4560	3761	4475	4162	-	-	-	-	-	-	-	-	16958	1158.8	13574	967.7

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Cholera	0	0	1	0	-	-	-	-	-	-	-	-	1	0.1	0	0.0
Cryptosporidiosis	48	74	68	39	-	-	-	-	-	-	-	-	229	15.6	92	6.6
Cyclosporiasis	4	3	3	8	-	-	-	-	-	-	-	-	18	1.2	15	1.1
<i>Echinococcus multilocularis</i> Infection	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	n/a	n/a
Encephalitis	3	3	3	4	-	-	-	-	-	-	-	-	13	0.9	11	0.8
Encephalitis/Meningitis	8	5	12	6	-	-	-	-	-	-	-	-	31	2.1	39	2.8
Food Poisoning, All Causes	6	7	11	3	-	-	-	-	-	-	-	-	27	1.8	20	1.4
Giardiasis	100	90	112	86	-	-	-	-	-	-	-	-	388	26.5	411	29.3
Gonorrhoea (All Types)	1023	747	942	855	-	-	-	-	-	-	-	-	3567	243.7	2117	150.9
Group A Streptococcal Disease, Invasive	97	81	112	89	-	-	-	-	-	-	-	-	379	25.9	336	24.0
Group B Streptococcal Disease, Neonatal	8	1	2	5	-	-	-	-	-	-	-	-	16	1.1	18	1.3
<i>Haemophilus Influenzae</i> Disease, All Types, Invasive	30	19	26	23	-	-	-	-	-	-	-	-	98	6.7	n/a	n/a
Hepatitis A	25	15	12	22	-	-	-	-	-	-	-	-	74	5.1	29	2.1
Hepatitis B (Acute)	14	4	18	9	-	-	-	-	-	-	-	-	45	3.1	34	2.4
Hepatitis B (Chronic)	155	116	123	108	-	-	-	-	-	-	-	-	502	34.3	673	48.0
Hepatitis C	432	337	393	405	-	-	-	-	-	-	-	-	1567	107.1	1564	111.5
HIV	67	66	66	47	-	-	-	-	-	-	-	-	246	16.8	256	18.3

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Influenza	3909	2359	2015	1495	-	-	-	-	-	-	-	-	9778	668.2	10713	763.8
Legionellosis	8	14	8	8	-	-	-	-	-	-	-	-	38	2.6	26	1.9
Leprosy	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	2	0.1
Listeriosis	7	6	5	2	-	-	-	-	-	-	-	-	20	1.4	17	1.2
Lyme Disease	3	2	5	5	-	-	-	-	-	-	-	-	15	1.0	20	1.4
Measles [#]	0	2	4	1	-	-	-	-	-	-	-	-	7	0.5	10	0.7
Meningitis	18	8	13	9	-	-	-	-	-	-	-	-	48	3.3	39	2.8
Meningococcal Disease, Invasive	4	5	4	2	-	-	-	-	-	-	-	-	15	1.0	12	0.9
Mumps	9	5	2	3	-	-	-	-	-	-	-	-	19	1.3	43	3.1
Ophthalmia neonatorum	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	1	0.1
Paralytic Shellfish Poisoning	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	0	0.0
Paratyphoid Fever	6	8	4	4	-	-	-	-	-	-	-	-	22	1.5	14	1.0
Pertussis (Whooping Cough)	23	15	27	31	-	-	-	-	-	-	-	-	96	6.6	108	7.7
Pneumococcal Disease, Invasive	151	108	107	112	-	-	-	-	-	-	-	-	478	32.7	457	32.6
Q Fever	0	1	0	2	-	-	-	-	-	-	-	-	3	0.2	3	0.2
Rabies	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	0	0.0
Rubella [#]	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	0	0.0
Rubella, Congenital Syndrome [#]	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	0	0.0
Salmonellosis	203	211	215	200	-	-	-	-	-	-	-	-	829	56.6	935	66.7

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Shigellosis	37	23	30	24	-	-	-	-	-	-	-	-	114	7.8	99	7.1
Syphilis, Early Congenital	1	0	0	0	-	-	-	-	-	-	-	-	1	0.1	1	0.1
Syphilis, Infectious	208	161	187	148	-	-	-	-	-	-	-	-	704	48.1	448	31.9
Syphilis, Other	84	72	69	59	-	-	-	-	-	-	-	-	284	19.4	243	17.3
Tetanus	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	0	0.0
Tuberculosis	68	55	58	63	-	-	-	-	-	-	-	-	244	16.7	190	13.5
Tularemia	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	0	0.0
Typhoid Fever	10	18	13	14	-	-	-	-	-	-	-	-	55	3.8	35	2.5
Verotoxin Producing <i>E. coli</i> Including HUS	8	11	10	15	-	-	-	-	-	-	-	-	44	3.0	28	2.0
West Nile Virus Illness	0	0	0	0	-	-	-	-	-	-	-	-	0	0.0	0	0.0
Yersiniosis	16	21	37	25	-	-	-	-	-	-	-	-	99	6.8	92	6.6

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).

Ontario Cases: Ontario Ministry of Health and Long-Term Care, integrated Public Health Information System (iPHIS) database, extracted by Public Health Ontario [2019/06/12].

Ontario Population: Population Projections [2017-2019] and Estimates [2014-2016], Ontario Ministry of Health and Long-Term Care, IntelliHEALTH Ontario, Dates Extracted [2017/10/24] for Projections and [2017/10/19] for Estimates.

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 and Long-Term Care'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, 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 [Reportable 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, severe acute respiratory syndrome (SARS), smallpox, and trichinosis.
 - 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 [Reportable Disease Trends in Ontario reports](#).

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