

MONTHLY INFECTIOUS DISEASES SURVEILLANCE REPORT

Diseases of Public Health Significance cases for January to June 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. – Jun. 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. – Jun. 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	1	0	-	-	-	-	-	-	1	0.1	1	0.1
AIDS	4	4	3	1	7	3	-	-	-	-	-	-	22	1.5	32	2.3
Amebiasis	45	38	46	29	26	41	-	-	-	-	-	-	225	15.4	387	27.6
Blastomycosis	7	6	4	6	7	4	-	-	-	-	-	-	34	2.3	n/a	n/a
Botulism	0	0	0	0	0	1	-	-	-	-	-	-	1	0.1	1	0.1
Brucellosis	3	1	0	1	0	0	-	-	-	-	-	-	5	0.3	2	0.1
Campylobacter enteritis	194	195	204	234	217	306	-	-	-	-	-	-	1350	92.2	1365	97.3
Carbapenemase-Producing <i>Enterobacteriaceae</i> (CPE)	22	17	33	46	37	33	-	-	-	-	-	-	188	12.8	n/a	n/a
Chlamydial Infections	4562	3763	4478	4180	4256	3762	-	-	-	-	-	-	25001	1708.4	20292	1446.7

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Cholera	0	0	1	0	0	0	-	-	-	-	-	-	1	0.1	0	0.0
Cryptosporidiosis	49	76	69	40	43	40	-	-	-	-	-	-	317	21.7	142	10.1
Cyclosporiasis	4	3	4	10	25	77	-	-	-	-	-	-	123	8.4	140	10.0
<i>Echinococcus multilocularis</i> Infection	0	0	0	0	0	0	-	-	-	-	-	-	0	0.0	n/a	n/a
Encephalitis	3	3	3	6	3	5	-	-	-	-	-	-	23	1.6	15	1.1
Encephalitis/Meningitis	7	6	12	6	11	20	-	-	-	-	-	-	62	4.2	64	4.6
Food Poisoning, All Causes	6	7	11	3	1	0	-	-	-	-	-	-	28	1.9	25	1.8
Giardiasis	101	91	118	94	82	79	-	-	-	-	-	-	565	38.6	612	43.6
Gonorrhoea (All Types)	1023	752	943	854	846	776	-	-	-	-	-	-	5194	354.9	3312	236.1
Group A Streptococcal Disease, Invasive	98	81	113	90	100	74	-	-	-	-	-	-	556	38.0	470	33.5
Group B Streptococcal Disease, Neonatal	9	1	3	5	0	1	-	-	-	-	-	-	19	1.3	26	1.9
<i>Haemophilus Influenzae</i> Disease, All Types, Invasive	31	19	26	23	24	23	-	-	-	-	-	-	146	10.0	n/a	n/a
Hepatitis A	25	16	12	22	16	19	-	-	-	-	-	-	110	7.5	45	3.2
Hepatitis B (Acute)	14	4	18	9	6	12	-	-	-	-	-	-	63	4.3	50	3.6
Hepatitis B (Chronic)	160	117	123	120	147	92	-	-	-	-	-	-	759	51.9	993	70.8
Hepatitis C	434	339	401	414	416	421	-	-	-	-	-	-	2425	165.7	2357	168.0
HIV	73	68	67	48	76	70	-	-	-	-	-	-	402	27.5	397	28.3

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Influenza	3909	2363	2020	1508	421	76	-	-	-	-	-	-	10297	703.6	11074	789.5
Legionellosis	8	15	7	12	23	29	-	-	-	-	-	-	94	6.4	48	3.4
Leprosy	0	0	0	0	0	0	-	-	-	-	-	-	0	0.0	2	0.1
Listeriosis	8	6	5	2	9	7	-	-	-	-	-	-	37	2.5	29	2.1
Lyme Disease	4	4	5	6	40	121	-	-	-	-	-	-	180	12.3	176	12.5
Measles [#]	0	2	4	1	4	2	-	-	-	-	-	-	13	0.9	12	0.9
Meningitis	17	7	13	11	16	13	-	-	-	-	-	-	77	5.3	72	5.1
Meningococcal Disease, Invasive	3	5	4	2	4	1	-	-	-	-	-	-	19	1.3	17	1.2
Mumps	9	6	2	3	4	4	-	-	-	-	-	-	28	1.9	57	4.1
Ophthalmia neonatorum	0	0	0	0	0	0	-	-	-	-	-	-	0	0.0	1	0.1
Paralytic Shellfish Poisoning	0	0	0	0	0	0	-	-	-	-	-	-	0	0.0	0	0.0
Paratyphoid Fever	6	8	4	6	2	5	-	-	-	-	-	-	31	2.1	19	1.4
Pertussis (Whooping Cough)	23	15	26	33	32	51	-	-	-	-	-	-	180	12.3	223	15.9
Pneumococcal Disease, Invasive	152	108	108	117	128	87	-	-	-	-	-	-	700	47.8	621	44.3
Q Fever	1	0	0	1	1	2	-	-	-	-	-	-	5	0.3	5	0.4
Rabies	0	0	0	0	0	0	-	-	-	-	-	-	0	0.0	0	0.0
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	204	213	221	208	203	166	-	-	-	-	-	-	1215	83.0	1413	100.7

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Shigellosis	38	23	31	23	25	16	-	-	-	-	-	-	156	10.7	135	9.6
Syphilis, Early Congenital	1	0	0	0	0	0	-	-	-	-	-	-	1	0.1	1	0.1
Syphilis, Infectious	214	166	201	179	159	128	-	-	-	-	-	-	1047	71.5	665	47.4
Syphilis, Other	88	78	77	71	85	82	-	-	-	-	-	-	481	32.9	368	26.2
Tetanus	0	0	0	0	0	1	-	-	-	-	-	-	1	0.1	1	0.1
Tuberculosis	70	56	62	63	67	58	-	-	-	-	-	-	376	25.7	312	22.2
Tularemia	0	0	0	0	0	0	-	-	-	-	-	-	0	0.0	0	0.0
Typhoid Fever	10	18	13	14	9	2	-	-	-	-	-	-	66	4.5	45	3.2
Verotoxin Producing <i>E. coli</i> Including HUS	8	11	11	14	12	23	-	-	-	-	-	-	79	5.4	53	3.8
West Nile Virus Illness	0	0	0	0	0	0	-	-	-	-	-	-	0	0.0	2	0.1
Yersiniosis	17	23	37	30	26	16	-	-	-	-	-	-	149	10.2	133	9.5

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, integrated Public Health Information System (iPHIS) database, extracted by Public Health Ontario [2019/08/14].

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, 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 [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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