

## MONTHLY INFECTIOUS DISEASES SURVEILLANCE REPORT

### Diseases of Public Health Significance cases for January to June 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. – Jun. 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. – Jun. 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	1	0.1
AIDS	3	3	6	5	7	6							30	2.0	33	2.3
Amebiasis	47	28	21	17	6	13							132	8.9	357	25.1
Blastomycosis	5	0	5	3	2	1							16	1.1	n/a	n/a
Botulism	0	0	0	0	0	0							0	0.0	1	0.1
Brucellosis	0	0	1	0	1	0							2	0.1	3	0.2
Campylobacter enteritis	180	154	107	59	79	170							749	50.4	1340	94.3
Carbapenemase-Producing <i>Enterobacteriaceae</i> (CPE)	41	34	31	17	7	5							135	9.1	n/a	n/a
Chlamydial Infections	4867	4221	3163	1635	1797	1859							17542	1180.1	21794	1533.4

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Cholera	0	0	0	0	0	0							0	0.0	1	0.1
Cryptosporidiosis	45	41	18	7	18	18							147	9.9	185	13.0
Cyclosporiasis	2	0	2	2	17	97							120	8.1	151	10.6
<i>Echinococcus multilocularis</i> Infection	0	0	0	0	0	0							0	0.0	n/a	n/a
Encephalitis	3	2	2	0	1	2							10	0.7	17	1.2
Encephalitis/Meningitis	11	7	9	3	12	10							52	3.5	63	4.4
Food Poisoning, All Causes	1	0	3	1	11	0							16	1.1	27	1.9
Giardiasis	82	89	64	21	15	33							304	20.5	625	44.0
Gonorrhoea (All Types)	1104	865	731	395	458	481							4034	271.4	3813	268.3
Group A Streptococcal Disease, Invasive	126	114	110	81	92	57							580	39.0	490	34.5
Group B Streptococcal Disease, Neonatal	1	2	2	2	0	1							8	0.5	24	1.7
<i>Haemophilus Influenzae</i> Disease, All Types, Invasive	26	24	14	11	6	5							86	5.8	n/a	n/a
Hepatitis A	16	18	10	7	5	2							58	3.9	59	4.2
Hepatitis B (Acute)	9	15	8	1	3	6							42	2.8	52	3.7
Hepatitis B (Chronic)	127	98	55	19	42	49							390	26.2	979	68.9
Hepatitis C	398	292	247	109	135	194							1375	92.5	2428	170.8
HIV	82	76	74	30	37	41							340	22.9	417	29.3

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Influenza	5578	2847	1209	51	28	4							9717	653.7	11558	813.2
Legionellosis	13	8	12	7	11	25							76	5.1	62	4.4
Leprosy	0	0	0	0	0	0							0	0.0	2	0.1
Listeriosis	3	1	6	5	2	1							18	1.2	33	2.3
Lyme Disease	16	7	8	23	47	105							206	13.9	214	15.1
Measles <sup>#</sup>	0	0	0	0	0	0							0	0.0	10	0.7
Meningitis	15	8	4	8	9	6							50	3.4	80	5.6
Meningococcal Disease, Invasive	2	6	4	2	1	0							15	1.0	17	1.2
Mumps	16	17	10	4	1	0							48	3.2	62	4.4
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	7	10	6	0	1	1							25	1.7	22	1.5
Pertussis (Whooping Cough)	47	25	17	5	1	8							103	6.9	244	17.2
Pneumococcal Disease, Invasive	158	104	79	40	46	29							456	30.7	645	45.4
Q Fever	1	1	0	2	0	0							4	0.3	5	0.4
Rabies	0	0	0	0	0	0							0	0.0	0	0.0
Rubella <sup>#</sup>	0	0	0	0	0	0							0	0.0	0	0.0
Rubella, Congenital Syndrome <sup>#</sup>	0	0	0	0	0	0							0	0.0	0	0.0
Salmonellosis	174	155	130	48	55	115							677	45.5	1370	96.4

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Shigellosis	35	41	11	6	6	11							110	7.4	141	9.9
Syphilis, Early Congenital	0	0	0	0	0	0							0	0.0	2	0.1
Syphilis, Infectious	233	192	184	102	104	108							923	62.1	820	57.7
Syphilis, Other	93	97	73	22	46	46							377	25.4	407	28.6
Tetanus	1	0	0	0	0	0							1	0.1	0	0.0
Trichinosis	0	0	0	1	0	0							1	0.1	4	0.3
Tuberculosis	58	53	55	43	45	52							306	20.6	327	23.0
Tularemia	0	1	0	0	0	0							1	0.1	0	0.0
Typhoid Fever	10	12	9	3	2	0							36	2.4	50	3.5
Verotoxin Producing <i>E. coli</i> Including HUS	7	10	8	3	4	19							51	3.4	60	4.2
West Nile Virus Illness	0	0	0	0	0	1							1	0.1	2	0.1
Yersiniosis	26	17	26	6	5	10							90	6.1	146	10.3

**Ontario Cases:** Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Public Health Ontario [2020/08/13].

**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):

- 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](#).

## Citation

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