

MONTHLY INFECTIOUS DISEASES SURVEILLANCE REPORT

Diseases of Public Health Significance cases for January to November 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 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 2019 to date (i.e., Jan. – Nov. 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. – Nov. 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	0	0	0	0	0	-	1	0.1	9	0.6
AIDS	5	5	3	3	8	4	4	8	4	7	4	-	55	3.8	65	4.6
Amebiasis	46	40	48	32	26	40	58	46	29	31	37	-	433	29.6	679	48.4
Blastomycosis	7	6	4	6	8	7	13	8	3	4	9	-	75	5.1	n/a	n/a
Botulism	0	0	0	0	0	1	0	0	1	0	0	-	2	0.1	2	0.1
Brucellosis	2	1	0	2	0	0	0	0	0	0	0	-	5	0.3	4	0.3
Campylobacter enteritis	200	193	207	239	222	315	466	437	320	297	186	-	3082	210.6	3287	234.3
Carbapenemase-Producing <i>Enterobacteriaceae</i> (CPE)	22	17	33	46	37	34	27	20	30	47	28	-	341	23.3	n/a	n/a
Chlamydial Infections	4565	3768	4488	4187	4254	3785	4479	4389	4616	4652	4375	-	47558	3249.8	38759	2763.2

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Cholera	0	0	1	0	0	1	0	0	0	0	1	-	3	0.2	1	0.1
Cryptosporidiosis	49	76	69	42	43	40	113	128	83	60	64	-	767	52.4	445	31.7
Cyclosporiasis	4	3	4	10	27	90	277	24	2	4	1	-	446	30.5	245	17.5
<i>Echinococcus multilocularis</i> Infection	0	0	0	0	0	0	0	0	0	0	0	-	0	0.0	n/a	n/a
Encephalitis	3	3	3	6	3	5	3	2	1	2	2	-	33	2.3	31	2.2
Encephalitis/Meningitis	6	7	11	6	11	19	12	32	24	26	21	-	175	12.0	170	12.1
Food Poisoning, All Causes	6	7	11	3	1	0	0	1	0	0	1	-	30	2.0	36	2.6
Giardiasis	106	95	119	98	89	99	113	138	126	99	71	-	1153	78.8	1279	91.2
Gonorrhoea (All Types)	1023	752	947	853	847	778	1028	1023	1015	1091	960	-	10317	705.0	6769	482.6
Group A Streptococcal Disease, Invasive	99	81	114	89	99	75	79	85	81	90	98	-	990	67.6	741	52.8
Group B Streptococcal Disease, Neonatal	9	1	3	5	0	1	4	4	1	0	2	-	30	2.0	48	3.4
<i>Haemophilus Influenzae</i> Disease, All Types, Invasive	183	138	147	135	159	106	128	113	125	126	96	-	1456	99.5	n/a	n/a
Hepatitis A	32	19	26	24	24	23	22	20	19	34	22	-	265	18.1		
Hepatitis B (Acute)	25	16	12	22	16	19	15	18	22	10	9	-	184	12.6	110	7.8
Hepatitis B (Chronic)	13	3	15	8	7	11	12	10	8	11	6	-	104	7.1	85	6.1
Hepatitis C	443	342	409	417	426	454	387	382	366	424	341	-	4391	300.0	4346	309.8
HIV	73	71	65	49	76	72	78	86	83	96	70	-	819	56.0	756	53.9

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Influenza	3914	2361	2021	1508	421	76	15	24	28	48	288	-	10704	731.4	11405	813.1
Legionellosis	8	15	6	13	24	34	38	78	53	43	28	-	340	23.2	176	12.5
Leprosy	0	0	0	0	0	0	0	0	0	0	0	-	0	0.0	4	0.3
Listeriosis	8	6	5	2	9	7	12	8	5	6	2	-	70	4.8	64	4.6
Lyme Disease	6	4	6	8	57	178	404	234	89	60	34	-	1080	73.8	544	38.8
Measles [#]	0	2	4	1	4	2	0	0	0	0	1	-	14	1.0	13	0.9
Meningitis	17	7	14	11	19	17	17	19	28	20	4	-	173	11.8	177	12.6
Meningococcal Disease, Invasive	3	5	4	1	5	1	3	5	2	4	1	-	34	2.3	28	2.0
Mumps	9	6	2	3	4	4	9	8	5	8	12	-	70	4.8	85	6.1
Ophthalmia neonatorum	0	0	0	0	0	0	0	0	0	0	0	-	0	0.0	3	0.2
Paralytic Shellfish Poisoning	0	0	0	0	0	0	0	0	0	0	0	-	0	0.0	0	0.0
Paratyphoid Fever	6	8	4	6	2	5	2	4	4	2	2	-	45	3.1	30	2.1
Pertussis (Whooping Cough)	23	15	26	32	32	51	66	65	29	32	36	-	407	27.8	450	32.1
Pneumococcal Disease, Invasive	152	109	109	117	129	88	51	48	69	104	111	-	1087	74.3	988	70.4
Q Fever	1	0	0	1	1	2	1	2	1	0	0	-	9	0.6	10	0.7
Rabies	0	0	0	0	0	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	0.0	0	0.0
Rubella, Congenital Syndrome [#]	0	0	0	0	0	0	0	0	0	0	0	-	0	0.0	0	0.0
Salmonellosis	203	213	230	205	209	175	209	253	206	168	170	-	2241	153.1	2701	192.6

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Shigellosis	38	23	31	23	26	16	35	20	26	18	17	-	273	18.7	274	19.5
Syphilis, Early Congenital	1	0	0	1	0	0	0	1	0	0	0	-	3	0.2	1	0.1
Syphilis, Infectious	222	174	210	189	177	161	219	174	198	206	145	-	2075	141.8	1282	91.4
Syphilis, Other	84	78	87	78	83	85	88	78	88	89	65	-	903	61.7	677	48.3
Tetanus	0	0	0	0	0	1	0	0	0	0	0	-	1	0.1	2	0.1
Tuberculosis	68	57	61	64	67	58	68	63	64	63	47	-	680	46.5	581	41.4
Tularemia	0	0	0	0	0	0	0	0	0	0	0	-	0	0.0	0	0.0
Typhoid Fever	10	18	13	14	9	2	2	15	15	8	2	-	108	7.4	76	5.4
Verotoxin Producing <i>E. coli</i> Including HUS	8	11	11	14	13	25	40	32	23	13	20	-	210	14.3	149	10.6
West Nile Virus Illness	0	0	1	0	0	0	3	5	11	1	2	-	23	1.6	80	5.7
Yersiniosis	18	23	39	31	24	16	29	26	26	18	16	-	266	18.2	229	16.3

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 [2020/01/08].

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'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, 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 [Infectious Disease Trends in Ontario reports](#).

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