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MONTHLY INFECTIOUS DISEASES SURVEILLANCE REPORT

Diseases of Public Health Significance cases for January to November 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. – Nov. 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. – Nov. 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	0	0		0	0.0	6	0.4
AIDS	4	3	7	5	7	6	4	10	6	2	5		59	4.0	64	4.5
Amebiasis	47	29	23	20	16	22	25	20	21	27	11		261	17.6	628	44.2
Blastomycosis	6	0	5	4	2	2	5	5	3	1	2		35	2.4	n/a	n/a
Botulism	0	0	0	0	0	0	0	0	0	0	0		0	0.0	2	0.1
Brucellosis	0	0	2	0	1	0	0	0	2	0	0		5	0.3	5	0.4
Campylobacter enteritis	181	156	111	66	99	217	312	293	226	136	127		1924	129.4	3192	224.6
Carbapenemase-Producing *Enterobacteriaceae* (CPE)	42	35	31	20	9	10	24	19	24	12	21		247	16.6	n/a	n/a
Chlamydial Infections	4871	4222	3166	1637	1806	2384	2888	3206	3451	3175	3145		33951	2284.0	41638	2929.7

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Cholera	0	0	0	0	0	0	1	0	0	0	0		1	0.1	2	0.1
Cryptosporidiosis	45	43	20	9	23	35	99	100	48	25	12		459	30.9	532	37.4
Cyclosporiasis	2	0	2	3	25	138	130	44	3	3	0		350	23.5	307	21.6
Echinococcus multilocularis Infection	0	0	0	0	0	0	0	0	0	0	0		0	0.0	n/a	n/a
Encephalitis	3	3	2	0	2	2	5	0	4	2	1		24	1.6	34	2.4
Encephalitis/Meningitis	11	7	10	1	13	11	7	7	9	15	5		96	6.5	175	12.3
Food Poisoning, All Causes	1	0	3	1	11	0	1	0	0	0	0		17	1.1	38	2.7
Giardiasis	90	97	67	33	21	66	82	105	95	84	40		780	52.5	1276	89.8
Gonorrhoea (All Types)	1104	865	734	394	461	654	727	741	842	856	909		8287	557.5	7760	546.0
Group A Streptococcal Disease, Invasive	126	114	111	82	93	60	74	77	56	73	85		951	64.0	807	56.8
Group B Streptococcal Disease, Neonatal	1	2	3	3	0	1	4	1	4	2	1		22	1.5	45	3.2
Haemophilus Influenzae Disease, All Types, Invasive	26	24	14	11	6	5	2	5	4	5	8		110	7.4	n/a	n/a
Hepatitis A	17	18	10	7	5	3	4	2	3	3	1		73	4.9	132	9.3
Hepatitis B (Acute)	9	16	8	3	2	7	12	7	5	4	6		79	5.3	89	6.3
Hepatitis B (Chronic)	141	110	67	26	50	58	50	108	70	73	60		813	54.7	1784	125.5
Hepatitis C	401	295	253	112	139	206	250	221	214	218	244		2553	171.8	4457	313.6
HIV	82	78	77	30	38	42	48	47	59	40	39		580	39.0	792	55.7

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Influenza	5579	2853	1263	51	30	4	7	5	5	3	3		9803	659.5	11897	837.1
Legionellosis	13	8	13	7	11	28	42	51	28	46	22		269	18.1	221	15.5
Leprosy	0	0	0	0	0	0	0	0	0	0	0		0	0.0	3	0.2
Listeriosis	3	1	6	6	2	1	5	12	8	7	7		58	3.9	69	4.9
Lyme Disease	16	9	10	25	56	161	181	118	78	62	41		757	50.9	729	51.3
Measles[#]	0	0	0	0	0	0	0	0	0	0	0		0	0.0	11	0.8
Meningitis	15	8	6	10	10	11	10	7	5	6	5		93	6.3	190	13.4
Meningococcal Disease, Invasive	2	6	4	2	1	0	1	2	0	1	2		21	1.4	30	2.1
Mumps	16	17	10	4	1	0	0	2	0	1	0		51	3.4	97	6.8
Ophthalmia neonatorum	0	0	0	0	0	0	0	0	0	0	0		0	0.0	2	0.1
Paralytic Shellfish Poisoning	0	0	0	0	0	0	0	0	0	0	0		0	0.0	0	0.0
Paratyphoid Fever	7	10	6	0	1	1	0	1	1	0	0		27	1.8	34	2.4
Pertussis (Whooping Cough)	47	25	17	5	2	7	1	1	1	0	0		106	7.1	481	33.8
Pneumococcal Disease, Invasive	157	106	79	40	47	32	17	22	24	54	31		609	41.0	1013	71.3
Q Fever	1	1	1	2	0	0	0	0	0	0	0		5	0.3	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	176	155	129	50	57	119	223	181	136	125	82		1433	96.4	2583	181.7

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Shigellosis	35	41	11	6	6	11	14	9	8	7	14		162	10.9	278	19.6
Syphilis, Early Congenital	0	0	0	0	1	0	0	1	0	0	0		2	0.1	2	0.1
Syphilis, Infectious	238	202	191	109	115	156	169	195	214	184	188		1961	131.9	1571	110.5
Syphilis, Other	93	99	73	26	46	42	88	72	79	80	85		783	52.7	754	53.1
Tetanus	1	0	0	0	0	0	0	0	1	0	0		2	0.1	1	0.1
Trichinosis	0	0	0	1	0	0	0	0	0	0	0		1	0.1	6	0.4
Tuberculosis	59	55	60	46	48	55	56	67	66	63	40		615	41.4	611	43.0
Tularemia	0	1	0	0	0	0	0	0	0	0	0		1	0.1	0	0.0
Typhoid Fever	10	12	9	3	2	0	1	6	2	3	1		49	3.3	83	5.8
Verotoxin Producing *E. coli* Including HUS	8	10	9	3	4	20	23	22	14	10	4		127	8.5	168	11.8
West Nile Virus Illness	1	0	1	0	0	4	5	51	20	5	4		91	6.1	83	5.8
Yersiniosis	27	17	27	6	9	17	13	17	23	12	16		184	12.4	255	17.9

Ontario Cases: Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Public Health Ontario [2021/01/13].
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).

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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.

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