

SURVEILLANCE REPORT

Monthly Infectious Diseases Surveillance Report (December 2017)

Reportable disease cases by month in Ontario, 2017

Table 1. Confirmed cases of reportable diseases, and probable cases of select reportable diseases, by month: Ontario, 2017

Reportable disease	2017 Case counts by month												2017 Year-to-month (October)		2012-2016 avg Year-to-month (October)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Count	Rate †	Count	Rate †
Acute Flaccid Paralysis	1	1	0	1	0	0	0	0	0	0			3	0.2	n/a	n/a
AIDS	3	2	5	9	4	3	5	5	4	2			42	3.0	65.8	4.8
Amebiasis	85	58	66	65	65	70	71	60	36	45			621	43.9	695.6	50.9
Botulism	0	0	0	0	0	0	0	0	0	0			0	0.0	1.8	0.1
Brucellosis	1	0	0	0	0	0	0	0	1	0			2	0.1	5.0	0.4
Campylobacter enteritis	189	181	201	231	270	336	524	470	345	311			3058	216.4	3181.4	232.6
Chlamydial Infections	3928	3286	3821	3427	3689	3528	3682	4025	3843	4025			37254	2636.5	31533.8	2305.4
Cholera	0	0	0	2	0	0	2	0	0	1			5	0.4	0.2	0.0
Cryptosporidiosis	23	17	25	22	16	24	46	68	55	31			327	23.1	323.6	23.7
Cyclosporiasis	3	0	6	5	59	124	77	13	3	1			291	20.6	164.4	12.0
Encephalitis	7	0	1	3	1	2	3	3	4	0			24	1.7	24.4	1.8
Encephalitis/Meningitis	11	6	13	17	7	22	29	35	19	16			175	12.4	142.4	10.4
Food Poisoning, All Causes	15	17	9	1	8	0	0	1	3	1			55	3.9	61.6	4.5
Giardiasis	113	79	84	87	91	101	143	140	149	122			1109	78.5	1134.8	83.0
Gonorrhoea (All Types)	559	442	560	506	571	664	731	726	798	822			6379	451.4	4540.2	331.9
Group A Streptococcal Disease, Invasive	97	85	103	81	76	66	71	61	54	78			772	54.6	532.8	39.0
Group B Streptococcal Disease, Neonatal	6	3	3	5	4	5	4	7	3	4			44	3.1	43.0	3.1
Haemophilus Influenzae B Disease, Invasive	2	0	1	0	0	0	0	0	1	0			4	0.3	4.8	0.4
Hepatitis A	6	2	12	6	5	9	10	11	13	21			95	6.7	82.4	6.0

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Hepatitis B (Acute)	12	16	8	9	3	8	5	11	5	5			82	5.8	81.0	5.9
Hepatitis B (Chronic)	158	116	152	134	155	133	132	126	92	95			1293	91.5	n/a	n/a
Hepatitis C	427	347	398	332	384	369	361	362	362	353			3695	261.5	3593.2	262.7
HIV	64	59	71	68	58	85	73	76	78	71			703	49.8	643.0	47.0
Influenza	4596	2561	1573	805	295	52	19	22	47	50			10020	709.1	7727.4	564.9
Legionellosis	8	11	3	12	9	14	37	32	23	28			177	12.5	151.0	11.0
Leprosy	0	0	0	0	0	0	0	0	0	0			0	0.0	3.4	0.2
Listeriosis	4	0	2	3	6	3	2	8	6	5			39	2.8	51.0	3.7
Lyme Disease	4	2	5	5	35	174	318	162	45	17			767	54.3	290.4	21.2
Malaria	20	8	14	12	27	19	22	28	21	15			186	13.2	173.2	12.7
Measles	0	0	6	0	0	0	0	1	0	0			7	0.5	#	#
Meningitis	11	13	5	6	16	24	29	21	16	22			163	11.5	128.6	9.4
Meningococcal Disease, Invasive	4	3	5	0	3	3	4	2	3	1			28	2.0	24.8	1.8
Mumps	9	41	65	20	17	4	4	22	35	26			243	17.2	21.6	1.6
Ophthalmia neonatorum	0	0	0	0	0	0	1	1	0	0			2	0.1	2.6	0.2
Paralytic Shellfish Poisoning	0	0	0	0	0	0	0	0	0	0			0	0.0	n/a	n/a
Paratyphoid Fever	2	2	6	5	4	0	0	3	4	1			27	1.9	32.6	2.4
Pertussis (Whooping Cough)	40	23	29	34	25	54	57	75	47	76			460	32.6	485.0	35.5
Q Fever	0	0	0	0	3	0	1	1	2	0			7	0.5	12.6	0.9
Rabies	0	0	0	0	0	0	0	0	0	0			0	0.0	0.2	0.0
Rubella	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	#	#
Salmonellosis	190	200	243	250	236	236	298	270	251	207			2381	168.5	2532.0	185.1
Shigellosis	23	11	33	18	15	18	31	22	27	39			237	16.8	239.4	17.5
Streptococcus Pneumoniae, Invasive	127	90	121	115	104	47	47	48	66	90			855	60.5	865.6	63.3
Syphilis, Early Congenital	0	1	0	0	0	0	0	0	0	0			1	0.1	1.2	0.1
Syphilis, Infectious	151	114	111	100	115	108	140	136	97	103			1175	83.2	831.8	60.8
Syphilis, Other	55	54	78	61	56	75	51	44	58	54			586	41.5	551.4	40.3
Tetanus	0	0	0	0	0	0	0	3	0	0			3	0.2	2.0	0.1

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Tuberculosis	47	46	73	42	72	70	53	45	53	58			559	39.6	519.6	38.0
Tularemia	0	0	0	0	1	0	0	0	0	0			1	0.1	0.4	0.0
Typhoid Fever	9	8	14	14	7	1	5	6	13	6			83	5.9	58.4	4.3
Verotoxin Producing E. coli Including HUS	5	8	10	4	13	6	16	24	12	9			107	7.6	147.8	10.8
West Nile Virus Illness	0	0	0	0	0	2	19	91	41	4			157	11.1	85.0	6.2
Yellow Fever	0	0	0	0	0	0	0	0	0	0			0	0.0	1.2	0.1
Yersiniosis	16	16	38	30	23	27	38	24	19	9			240	17.0	172.2	12.6

‡ Rates are for cases per 1,000,000 population.

n/a Acute Flaccid Paralysis and Paralytic Shellfish Poisoning became reportable in Ontario in December 2013, and Hepatitis B (Chronic) became reportable in Ontario in December 2014; therefore, five-year historical data are not yet available for comparisons (n/a).

Historical comparison data are not provided for measles, rubella, and congenital rubella syndrome because these diseases have been eliminated in Canada. However, as these diseases remain endemic in other countries, imported and import-related cases continue to occur in Ontario.

Ontario Cases: Ontario Ministry of Health and Long-Term Care, integrated Public Health Information System (iPHIS) database, extracted by Public Health Ontario [2017/12/13].

Ontario Population: Population Projections [2016-2017] and Estimates [2012-2015], Ontario Ministry of Health and Long-Term Care, IntelliHEALTH Ontario, Date Extracted: [2016/09/02].

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. The potential for underreporting and unresolved duplicates exists.
- Case counts for amebiasis, 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.
- Table 1 is not an exhaustive list of all reportable diseases in Ontario. Historical annual counts and rates for most reportable diseases are available in the [Reportable Disease Trends in Ontario reports](#). The following reportable diseases/outbreaks are omitted from the table:
 - Counts of Creutzfeldt-Jakob disease, which 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 institutional outbreaks of gastroenteritis and respiratory infections.
- Detailed reporting on institutional outbreaks of respiratory infections 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](#).
- Cases that do not reside in Ontario or for whom the Disposition Status was reported as entered in error, does not meet definition, or as a duplicate record have been excluded.
- Case counts for tuberculosis and AIDS are based on diagnosis date, HIV case counts are based on encounter date, congenital rubella syndrome cases are based on the date of birth, and case counts for all other diseases are based on episode date. The episode date is an estimate of the onset date

of disease for a case. In order to determine this date, the following hierarchy is in place in iPHIS: Onset Date > Specimen Collection Date > Lab Test Date > Reported Date. If an onset date exists ,it will be used as the episode date. If not available, then the next available date in the hierarchy will be used.