

SURVEILLANCE REPORT

Monthly Infectious Diseases Surveillance Report (September 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 (July)		2012-2016 avg Year-to-month (July)	
	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						3	0.2	n/a	n/a
AIDS	3	2	5	9	4	3	5						31	2.2	47.0	3.4
Amebiasis	85	56	65	63	60	65	68						462	32.7	500.4	36.6
Botulism	0	0	0	0	0	0	0						0	0.0	1.4	0.1
Brucellosis	1	0	0	0	0	0	0						1	0.1	3.8	0.3
Campylobacter enteritis	189	181	201	230	267	328	518						1914	135.5	1932.0	141.2
Chlamydial Infections	3925	3284	3816	3425	3689	3515	3655						25309	1791.1	21726.6	1588.4
Cholera	0	0	0	2	0	0	2						4	0.3	0.0	0.0
Cryptosporidiosis	23	17	25	21	15	24	46						171	12.1	163.4	11.9
Cyclosporiasis	3	0	6	4	59	123	74						269	19.0	134.4	9.8
Encephalitis	6	0	1	3	1	2	2						15	1.1	15.0	1.1
Encephalitis/Meningitis	12	6	13	16	7	23	28						105	7.4	82.8	6.1
Food Poisoning, All Causes	15	17	9	1	8	0	0						50	3.5	23.0	1.7
Giardiasis	111	79	84	82	81	91	126						654	46.3	715.8	52.3
Gonorrhoea (All Types)	559	443	558	506	572	658	727						4023	284.7	3072.4	224.6
Group A Streptococcal Disease, Invasive	97	85	103	80	75	64	69						573	40.6	416.8	30.5
Group B Streptococcal Disease, Neonatal	6	3	3	5	4	5	3						29	2.1	28.8	2.1
Haemophilus Influenzae B Disease, Invasive	2	0	1	0	0	0	0						3	0.2	4.0	0.3
Hepatitis A	6	2	12	6	5	9	10						50	3.5	54.0	3.9

Reportable disease	2017 Case counts by month												2017 Year-to-month (July)		2012-2016 avg Year-to-month (July)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Count	Rate ‡	Count	Rate ‡
Hepatitis B (Acute)	12	15	8	8	4	9	6						62	4.4	62.8	4.6
Hepatitis B (Chronic)	142	104	134	116	134	112	95						837	59.2	n/a	n/a
Hepatitis C	425	347	395	325	376	356	351						2575	182.2	2522.2	184.4
HIV	64	58	69	68	60	82	71						472	33.4	444.8	32.5
Influenza	4591	2559	1572	805	294	52	19						9892	700.1	7648.0	559.1
Legionellosis	8	11	3	12	9	14	36						93	6.6	72.6	5.3
Leprosy	0	0	0	0	0	0	0						0	0.0	2.6	0.2
Listeriosis	4	0	2	3	6	3	2						20	1.4	33.6	2.5
Lyme Disease	3	2	4	5	28	136	212						390	27.6	206.2	15.1
Malaria	20	8	14	12	26	18	20						118	8.4	112.8	8.2
Measles	0	0	6	0	0	0	0						6	0.4	#	#
Meningitis	11	13	5	6	16	23	26						100	7.1	74.0	5.4
Meningococcal Disease, Invasive	4	3	5	0	3	3	4						22	1.6	17.0	1.2
Mumps	9	41	65	20	17	4	4						160	11.3	15.2	1.1
Ophthalmia neonatorum	0	0	0	0	0	0	1						1	0.1	2.0	0.1
Paralytic Shellfish Poisoning	0	0	0	0	0	0	0						0	0.0	n/a	n/a
Paratyphoid Fever	2	2	6	5	4	0	0						19	1.3	23.0	1.7
Pertussis (Whooping Cough)	40	23	29	34	25	54	53						258	18.3	328.2	24.0
Q Fever	0	0	0	0	3	0	1						4	0.3	8.4	0.6
Rabies	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	#	#
Rubella, Congenital Syndrome	0	0	0	0	0	0	0						0	0.0	#	#
Salmonellosis	189	199	244	249	234	230	289						1634	115.6	1709.6	125.0
Shigellosis	23	11	33	18	15	17	27						144	10.2	167.4	12.2
Streptococcus Pneumoniae, Invasive	127	90	121	115	104	47	46						650	46.0	654.2	47.8
Syphilis, Early Congenital	0	1	0	0	0	0	0						1	0.1	1.2	0.1
Syphilis, Infectious	148	111	109	96	98	99	107						768	54.4	576.0	42.1
Syphilis, Other	51	54	76	57	49	73	43						403	28.5	393.2	28.7
Tetanus	0	0	0	0	0	0	0						0	0.0	1.4	0.1

Reportable disease	2017 Case counts by month												2017 Year-to-month (July)		2012-2016 avg Year-to-month (July)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Count	Rate ‡	Count	Rate ‡
Tuberculosis	46	46	75	41	70	63	52						393	27.8	362.6	26.5
Tularemia	0	0	0	0	1	0	0						1	0.1	0.2	0.0
Typhoid Fever	9	8	14	14	7	1	5						58	4.1	40.6	3.0
Verotoxin Producing E. coli Including HUS	5	8	10	4	12	6	16						61	4.3	86.8	6.3
West Nile Virus Illness	0	0	0	0	0	1	14						15	1.1	12.8	0.9
Yellow Fever	0	0	0	0	0	0	0						0	0.0	1.0	0.1
Yersiniosis	16	16	38	28	23	25	38						184	13.0	122.2	8.9

‡ 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 [2017/09/13].

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.