
MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by Public Health Service (PHS) staff at 6 December 2017. Changes made to EpiSurv data after this date will not be reflected in this report. The results presented may be updated and should be regarded as provisional.

Table of contents

1. Key notifiable disease trends	1
2. Outbreaks	3
3. Deaths from notifiable diseases	4
4. Trends in selected diseases to October 2017	5
5. Data tables	6

1. Key notifiable disease trends

Cryptosporidiosis: 119 cases of cryptosporidiosis (118 confirmed and 1 under investigation) were notified in November 2017 compared to 95 cases notified in November 2016. The 12-month rate for the period ending 30 November (25.6 cases per 100,000 population) was slightly higher than for the same period in the previous year (22.3 per 100,000). Cases ranged in age from 9 months to 95 years, with the highest numbers of cases in the 1–4 years (31 cases) and 20–29 years (23 cases) age groups. Among the cases for which risk factor information was recorded, 54.1% (33/61) had contact with farm animals, 41.5% (22/53) consumed untreated water, 40.0% (24/60) had attended school, preschool or childcare, 26.8% (15/56) had contact with faecal matter or vomit, 21.6% (11/51) had contact with sick animals and 20.4 (11/54) had consumed food from a food premises) during the incubation period. Three finalised *Cryptosporidium* outbreak (8 cases) were created in November.

Dengue Fever: 25 cases of dengue fever (24 confirmed and 1 under investigation) were notified in November 2017 compared to 13 cases notified in November 2016. All cases had been overseas during the incubation period. The countries/regions visited included Samoa (16 cases), India (5 cases), American Samoa, China, French Polynesia, Malaysia, North Africa, Singapore, and Sri Lanka (1 case each). Three cases reported overseas travel to more than one country.

Hepatitis A: 10 cases of hepatitis A (9 confirmed and 1 under investigation) were notified in November 2017 compared to eight cases notified in October 2017 and three cases notified in November 2016. The cases were reported from Waikato, MidCentral (3 cases each), Northland (2 cases), Auckland and Counties Manukau (1 case each) DHBs. Nine cases were laboratory confirmed. Ethnicity was recorded for 80.0% (8/10) cases, and were reported as being in Māori (5 cases) and European or Other (3 cases). The cases ranged in age from 3 to 81 years, with the highest number of cases in the 1–4 years and 30–39 years age groups (2 cases each). Risk factor information was recorded for six cases: eating recreationally collected shellfish (3 cases), attending a pre-school or childcare (2 cases) and overseas travel (1 case).

Leptospirosis: 21 cases of leptospirosis (14 confirmed, 3 probable, and 4 under investigation) were notified in November 2017 compared to 12 cases notified in November 2016. The highest number of cases was reported in the 50–59 years (6 cases) and 20–29 years (5 cases) age groups. Occupation was recorded for 85.7% (18/21) of cases. Of these, 15 were engaged in occupation previously identified as high risk exposure to *Leptospira* species: farmers or farm workers (14 cases) and meat workers (1 case). Two additional cases reported exposure through contact with animal/manure. Four cases did not have any risk factor information recorded. One interim *Leptospira* outbreak (case numbers yet to be determined) was created in November.

Meningococcal disease: 11 cases of meningococcal disease (9 confirmed and 2 under investigation) were notified in November 2017 compared to 12 cases notified in November 2016. The highest number of cases were reported from Waitemata and Bay of Plenty (2 cases each) DHBs. The cases were in the less than one year (3 cases), 1–4 years, 70 years and over (2 cases each), 5–9 years, 15–19 years, 50–59 years, and 60–69 (1 case each) age groups. Ten cases were hospitalised and no deaths were reported. Ten cases were laboratory confirmed and the group was determined for nine of these cases: group B (5 cases, including 2 NZ B:P1.7-2,4), group W (2 cases), group C (1 case) and group Y (1 case).

Mumps: 261 cases of mumps (134 confirmed, 48 probable and 79 under investigation) were notified in November 2017 compared with one case notified in November 2016 (Figure 1). The 12-month rate for the period ending 30 November was 25.5 cases per 100,000 population. The highest numbers of cases were reported from Counties Manukau (91 cases), Auckland (74 cases), and Waitemata (41 cases) DHBs. The highest numbers of cases were in the 20–29 years (95 cases) and 15–19 years (54 cases) age groups. Ninety-one cases were recorded as being vaccinated against mumps, of which 70 cases had received two doses of the vaccine and 19 cases had received just one dose. Two further cases had been vaccinated, but no dose information was available and 49 cases were recorded as non-vaccinated. Vaccination status was unknown for 82 cases. One interim mumps outbreak (cases number yet to be determined) was created in November.

Pertussis: 436 cases of pertussis (211 confirmed, 146 probable, 7 suspected, and 72 under investigation) were notified in November 2017 compared to 107 cases in November 2016 (Figure 2). The 12-month rate for the period ending 30 November (38.1 cases per 100,000) was higher than for the same period in the previous year (22.6 per 100,000). Twenty cases were hospitalised and no deaths were reported. Forty-nine percent (215/436) of cases were laboratory-confirmed (33 by culture, 147 by PCR, and 35 by culture and PCR). The highest number of cases was reported from Nelson Marlborough DHB (86 cases), followed by Waikato (47 cases), Auckland (45 cases) and Waitemata (40 cases) DHBs. Cases ranged in age from 1 month to 92 years, with 11.7% (51/436) under five years of age (including 19 cases aged less than 1 year). The highest numbers of cases were in the 10–14 years (69 cases), 5–9 years (67 cases), 15–19 years (51 cases) and 40–49 years (50 cases) age groups.

Shigellosis: 26 confirmed cases of shigellosis were notified in November 2017 compared with 18 cases notified in November 2016. The 12-month rate for the period ending 30 November (5.2 cases per 100,000 population) was higher than at the same time in the previous year (3.3 per 100,000). The highest number of cases was reported from Auckland (5 cases) DHB. The serotype involved was recorded for 73.1% (19/26) of cases: *S. sonnei* biotype g (5 cases), *S. flexneri* 1b (4 cases), *S. flexneri* 2a, *S. sonnei* biotype a (3 cases each), *S. flexneri* 3b (2 cases), *S. boydii* 4 and *S. flexneri* 2b (1 case each). Information on overseas travel during the incubation period was recorded for 65.4% (17/26) of cases, of which 70.6% (12/17) of cases recorded overseas travel during this period. Countries visited included: India, Indonesia, Tonga, Vanuatu (2 cases each), Cambodia, Croatia, Fiji, Kiribati, Samoa and Vietnam (1 case each). Two cases reported overseas travel to more than one country.

VTEC/STEC infection: 48 cases of VTEC/STEC infection (39 confirmed and 9 under investigation) were notified in November 2017 compared to 32 cases notified in November 2016. The 12-month rate for the period ending 31 November 2017 (11.5 cases per 100,000 population) was higher than at the same time period in the previous year (9.3 cases per 100,000 population). The highest numbers of cases were reported from Southern (18 cases) and Waitemata (9 cases) DHBs. Cases ranged in age from 1 month to 85 years, with the highest number of cases in the 1–4 years (9 cases) age group. Nine cases were hospitalised. Twenty cases have been confirmed by the Enteric Reference Laboratory as being infected with VTEC/STEC, and of these the serotype was identified as *Escherichia coli* O157:H7 (7 cases) and non-O157 (13 cases). Of the cases for which risk factor information was recorded, 70.0% (21/30) had contact with animals, 29.6% (8/27) had contact with children in nappies, 22.6% (7/31) had contact with a person with similar symptoms and 18.5% (5/27) had recreational contact with water during the incubation period. One final (2 cases) and one interim VTEC/STEC infection outbreak (case numbers yet to be determined) was created in November.

2. Outbreaks

During November 2017, a total of 76 outbreaks (29 final and 47 interim) were created in EpiSurv (Table 1 and Table 2). Sixty-five (85.5%) were outbreaks of acute gastroenteritis (22 finalised and 43 interim) involving 480 cases in total. This compares with 30 acute gastroenteritis outbreaks involving 683 cases in total created during the same month of the previous year. Of the 65 acute gastroenteritis outbreaks, the pathogens were recorded as norovirus (23 outbreaks) and *Clostridium botulinum* (1 outbreak). The most commonly reported mode of transmission in acute gastroenteritis outbreaks (46.2%, 30/65) was person-to-person (28 primary and 2 secondary). Of the outbreaks that had an exposure setting recorded (64.6%, 42/65) the most commonly reported setting were long term care facilities (30 outbreaks) and childcare centres (4 outbreaks).

Table 1. Summary of final outbreaks created in EpiSurv during November 2017

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Cryptosporidium</i>	MidCentral, Southern	3	8
<i>Escherichia coli</i> O157:H7	Counties Manukau	1	2
Gastroenteritis ¹	Waitemata, Auckland, Waikato, Taranaki, Hawke's Bay, MidCentral, Capital & Coast	11	90
<i>Giardia</i>	Southern	1	3
Hepatitis A virus	Northland	1	3
<i>Norovirus</i>	Auckland, Counties Manukau, Bay of Plenty, Hawke's Bay, MidCentral, Hutt Valley, Capital & Coast, Canterbury, Southern	11	201
<i>Shigella</i>	Capital & Coast	1	2
Total		29	309

¹ Includes outbreak reported to PHSs prior to November 2017: gastroenteritis (1) reported in October.

Table 2. Summary of interim outbreaks created in EpiSurv during November 2017

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases ¹
<i>Clostridium botulinum</i>	Waikato	1	3
<i>Escherichia coli</i> O26:H11	Southern	1	3
Gastroenteritis	Waitemata, Auckland, Counties Manukau, Waikato, Tairāwhiti, Taranaki, Hawke's Bay, MidCentral, Hutt Valley, Wairarapa, Canterbury, Southern	30	65
<i>Leptospira</i>	Hawke's Bay	1	0
Mumps virus	Northland, Southern	2	2
Norovirus	Northland, Auckland, Bay of Plenty, Whanganui, Capital & Coast, West Coast, Canterbury, Southern	12	121
Total		47	194

¹ Interim outbreak(s) where total number of cases had not been completed.

3. Deaths from notifiable diseases

One death, where the primary cause of death was a notifiable disease, was reported in November 2017 (Table 3).

Table 3. Summary of deaths from notifiable diseases reported during November 2017

Disease	District health board	Age group (years)
Invasive pneumococcal disease	Capital & Coast	70+

4. Trends in selected diseases to November 2017

Figure 1. Mumps virus notifications by month, January 2010–November 2017

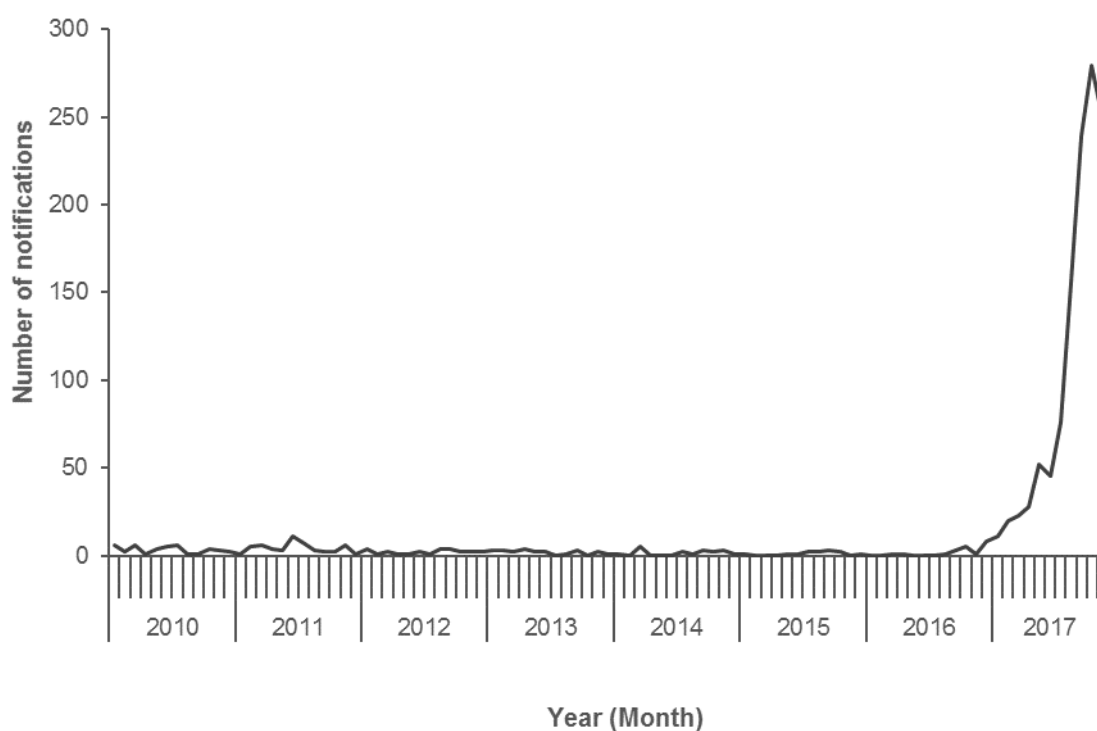
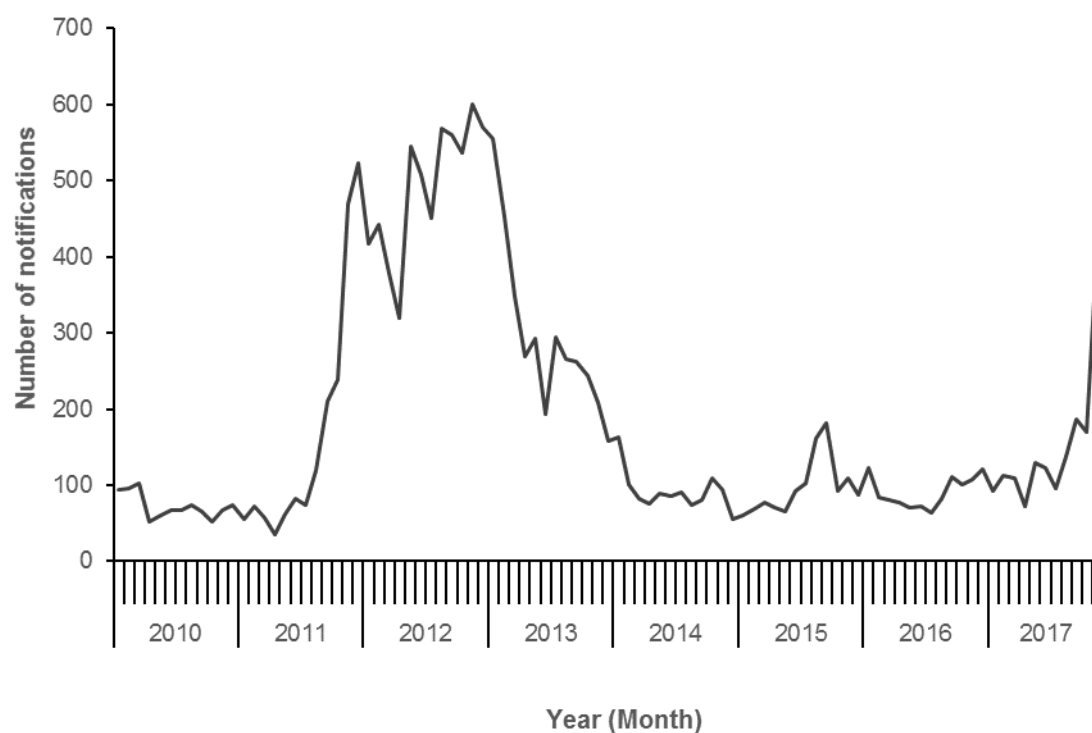


Figure 2. Pertussis notifications by month, January 2010– November 2017



5. Data tables

National Notifiable Disease Surveillance Data November 2017

Disease	Current Year - 2017 ¹			Previous Year - 2016		
	November 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	November 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	795	5848	141.6	1103	6661	158.1
Cryptosporidiosis	119	1153	25.6	95	1014	22.3
Dengue fever	25	136	3	13	185	4.1
Gastroenteritis ³	36	300	6.9	36	485	11.7
Giardiasis	154	1532	34.8	130	1515	34.7
Haemophilus influenzae type b	1	5	0.1	0	2	0
Hepatitis A	10	48	1.1	3	31	0.7
Hepatitis B ⁴	19	50	1.2	5	30	0.7
Hepatitis C ⁴	1	22	0.5	3	28	0.6
Invasive pneumococcal disease	31	489	11.1	41	446	10.2
Legionellosis	48	209	4.9	31	226	5.9
Leptospirosis	21	147	3.3	12	78	1.7
Listeriosis	3	18	0.4	4	33	0.8
Malaria	4	40	0.9	0	25	0.7
Measles	1	15	0.3	0	103	2.2
Meningococcal disease	11	103	2.3	12	71	1.6
Mumps	261	1190	25.5	1	12	0.3
Paratyphoid fever	3	43	0.9	1	31	0.7
Pertussis	436	1667	38.1	107	973	22.6
Rheumatic fever ⁵	5	148	3.2	4	133	3
Rickettsial disease	1	5	0.1	0	5	0.1
Rubella	0	0	0	0	3	0.1
Salmonellosis	83	1043	23.7	80	1020	23.4
Shigellosis	26	224	5.2	18	153	3.3
Tuberculosis disease	36	287	6.8	32	263	6.2
Typhoid fever	1	58	1.3	3	37	0.9
VTEC/STEC infection	48	521	11.5	32	401	9.3
Yersiniosis	86	879	20.2	113	789	17.7

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including November 2017) or the previous year (12 months up to and including November 2016), expressed as cases per 100 000. This includes cases still under investigation.

³ Cases of gastroenteritis from a common source or foodborne intoxication.

⁴ Only acute cases of this disease are currently notifiable.

⁵ Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

Other notifiable infectious disease reported in November: Chikungunya fever (2) , Cholera (1) , Hepatitis NOS (2) , Hydatid disease (2) , Taeniasis (1) , Trichinellosis (1) , Zika virus (1)

Notifiable Disease Surveillance Data by District Health Board November 2017

Disease		Cases ¹ and current rate ² for November 2017 by District Health Board ³																			
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Wanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	33	112	59	62	57	13	24	6	23	39	7	32	18	38	13	25	8	100	20	106
	Rate	149.4	132.2	107.8	87.8	145.2	150.1	103.2	125.5	202.1	172.9	147.6	166.5	111.7	118.7	178.9	147.5	200	161.8	243.2	236.8
Cryptosporidiosis	Cases	2	4	7	7	5	2	7	2	1	2	5	5	0	4	3	3	0	16	10	34
	Rate	29.8	18.8	18.7	25.6	29.8	19.7	13.7	50.2	20.5	12.4	28.6	35.6	4.8	10.8	45.9	56	18.5	30	55.7	45.5
Dengue fever	Cases	0	3	5	10	0	0	0	0	0	1	0	2	1	0	0	0	0	3	0	0
	Rate	1.8	3.2	5.3	6.2	2	2.8	1.3	2.1	3.4	1.2	3.2	2.3	0.7	2.6	0	2	0	3.3	3.4	0.3
Gastroenteritis	Cases	2	2	6	4	1	0	1	0	0	0	3	0	2	9	0	0	0	5	0	1
	Rate	7.6	4.2	10.1	3.4	1.5	7.5	3.5	2.1	0	1.2	27	21.2	15.8	17.9	6.9	0.7	21.5	7	3.4	3.1
Giardiasis	Cases	11	20	21	14	14	4	7	7	3	2	2	1	0	12	4	5	0	19	1	7
	Rate	43.2	30.3	39	35.8	41.8	47.8	44.1	92.1	20.5	41.5	34.9	19.5	18.5	37.5	68.8	31.4	18.5	26.9	37.2	28.5
Haemophilus influenzae type b	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0.3	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0.3
Hepatitis A	Cases	2	0	1	1	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
	Rate	1.2	1.2	1	3.7	1.3	0	0	0	0	0	0	2.3	0	1.3	0	0	0	0.6	0	0.6
Hepatitis B	Cases	0	2	0	4	0	0	0	1	0	0	1	7	0	1	0	0	0	0	0	3
	Rate	1.2	0.7	1	2.1	0.5	0	0	2.1	0.9	1.2	6.3	5.7	0	0.7	0	1.4	0	0.7	0	1.3
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.6	0.3	0.6	0	0	0	0	0	4.3	0.6	0	0.6	0	0.7	0	2	0	0.4	0	1.6
Invasive pneumococcal	Cases	2	1	1	11	6	1	0	0	0	4	1	0	0	1	1	0	0	1	0	1
	Rate	16.3	8.3	8.3	14.8	11	16.9	19	14.6	8.6	13	17.5	10.3	8.2	10.8	13.8	10.2	12.3	8.2	8.4	10.7
Legionellosis	Cases	4	2	4	4	4	0	1	0	0	0	0	0	0	0	0	1	0	24	0	4
	Rate	13.4	4.1	2.4	3.6	2.3	3.8	9.3	0	2.6	0.6	0	1.1	3.4	0.7	0	7.5	15.4	13.2	6.8	4.4
Leptospirosis	Cases	1	0	0	0	8	2	4	0	1	2	1	1	0	0	0	0	0	0	0	1
	Rate	4.7	1.2	0.2	0	13.5	2.8	3.1	0	5.1	9.9	14.3	4.6	0.7	0	9.2	3.4	9.2	2.2	5.1	2.2
Listeriosis	Cases	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	1.2	0.2	0.4	0.7	0.3	0	1.3	0	0	0.6	0	0.6	0	0.3	0	1.4	0	0.4	1.7	0
Malaria	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	Rate	2.3	0.7	1.4	0.7	1	0.9	0.4	0	1.7	0.6	0	0	0.7	1.3	0	2	0	0.6	0	0.6
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Rate	0	0.3	0.2	0	0	0	0.9	0	0	0	0	4	0.7	0	0	0	0	0.2	1.7	0
Meningococcal disease	Cases	0	2	1	0	1	0	2	0	0	1	0	0	0	1	1	0	1	0	0	1
	Rate	2.9	1.9	1.8	3.6	2.3	0.9	3.5	2.1	0	3.7	1.6	1.7	1.4	3.3	2.3	0	9.2	2	0	2.2
Mumps	Cases	14	41	74	91	7	0	1	0	2	0	6	1	0	7	0	1	0	7	0	9
	Rate	16.3	45.7	55.8	74.5	18	3.8	1.8	0	7.7	1.9	11.1	4.6	5.5	8.2	0	7.5	0	3.9	0	14.7
Paratyphoid fever	Cases	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.4	1.6	0.7	0.3	0	0.9	4.2	0.9	6.2	0	1.1	0	1	0	0.7	0	0.2	0	0.3
Pertussis	Cases	21	40	45	29	47	4	36	4	4	18	2	8	6	15	0	87	3	39	6	23
	Rate	32.7	28.9	28.4	18.2	37	41.3	38.4	31.4	55.7	55.8	20.6	16.1	37	55.4	6.9	102.5	21.5	41.3	22	65.5
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ⁴	Cases	2	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	6.4	2.2	4.5	9.5	4.3	2.8	3.1	6.3	0	2.5	3.2	1.1	2.7	1.3	0	0.7	0	0.7	0	0.6
Rickettsial disease	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.6	0.2	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	Cases	5	7	10	3	7	2	3	3	0	3	0	3	3	4	1	1	1	17	4	6
	Rate	37.3	17.6	22.9	13.3	27	20.6	16.3	43.9	23.1	19.2	19	21.2	15.1	24.1	29.8	21.2	15.4	36.9	35.5	31
Shigellosis	Cases	0	4	5	4	1	1	1	0	0	1	0	1	0	2	0	0	0	3	0	4
	Rate	5.3	5.8	10.6	10.7	1.3	3.8	1.8	2.1	1.7	8.1	1.6	1.7	2.7	5.5	0	0.7	3.1	3.2	0	5.6
Tuberculosis disease	Cases	2	6	5	9	2	0	2	0	1	0	0	0	3	1	0	0	0	4	0	1
	Rate	2.3	7.3	12	11.2	6	2.8	3.1	0	6	9.3	0	4	7.5	6.8	13.8	3.4	0	6.7	0	2.5
Typhoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.2	3.4	3.9	0.5	1.9	0	0	0	0.6	1.6	1.1	0.7	0	0	0.7	0	0.2	0	0.9
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	3	9	2	7	2	1	0	0	0	1	1	1	0	0	0	1	0	1	2	18
	Rate	40.3	13.2	7.5	11.8	8.8	12.2	9.7	2.1	10.3	6.8	7.9	2.9	0.7	3.3	2.3	6.1	6.2	4.6	20.3	39.5
Yersiniosis	Cases	1	4	9	5	3	1	1	0	3	5	2	3	2	12	1	1	0	26	2	5
	Rate	13.4	19.6	21.3	12.7	15.5	22.5	28.2	23	18.8	21.1	15.9	9.8	26	29	29.8	5.5	9.2	30.6	28.7	17.6

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including November 2017 expressed as cases per 100 000. This includes cases still under investigation.

³ Further data are available from the local Medical Officer of Health.

⁴ Rates are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

Notifiable Disease Surveillance Data by District Health Board November 2017

Disease	Cases ¹ and current rate ² for November 2017 by District Health Board ³																			
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury
Campylobacteriosis	Cases	33	112	59	62	57	13	24	6	23	39	7	32	18	38	13	25	8	100	20
	Rate	149.4	132.2	107.8	87.8	145.2	150.1	103.2	125.5	202.1	172.9	147.6	166.5	111.7	118.7	178.9	147.5	200	161.8	243.2
Cryptosporidiosis	Cases	2	4	7	7	5	2	7	2	1	2	5	5	0	4	3	3	0	16	10
	Rate	29.8	18.8	18.7	25.6	29.8	19.7	13.7	50.2	20.5	12.4	28.6	35.6	4.8	10.8	45.9	56	18.5	30	55.7
Dengue fever	Cases	0	3	5	10	0	0	0	0	0	1	0	2	1	0	0	0	0	3	0
	Rate	1.8	3.2	5.3	6.2	2	2.8	1.3	2.1	3.4	1.2	3.2	2.3	0.7	2.6	0	2	0	3.3	4.0
Gastroenteritis	Cases	2	2	6	4	1	0	1	0	0	0	3	0	2	9	0	0	0	5	0
	Rate	7.6	4.2	10.1	3.4	1.5	7.5	3.5	2.1	0	1.2	27	21.2	15.8	17.9	6.9	0.7	21.5	7	3.4
Giardiasis	Cases	11	20	21	14	14	4	7	7	3	2	2	1	0	12	4	5	0	19	1
	Rate	43.2	30.3	39	35.8	41.8	47.8	44.1	92.1	20.5	41.5	34.9	19.5	18.5	37.5	68.8	31.4	18.5	26.9	37.2
Haemophilus influenzae type b	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0.3	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0.3
Hepatitis A	Cases	2	0	1	1	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0
	Rate	1.2	1.2	1	3.7	1.3	0	0	0	0	0	0	2.3	0	1.3	0	0	0	0.6	0
Hepatitis B	Cases	0	2	0	4	0	0	0	1	0	0	1	7	0	1	0	0	0	0	3
	Rate	1.2	0.7	1	2.1	0.5	0	0	2.1	0.9	1.2	6.3	5.7	0	0.7	0	1.4	0	0.7	1.3
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Rate	0.6	0.3	0.6	0	0	0	0	0	4.3	0.6	0	0.6	0	0.7	0	2	0	0.4	0
Invasive pneumococcal disease	Cases	2	1	1	11	6	1	0	0	0	4	1	0	0	1	1	0	0	1	0
	Rate	16.3	8.3	8.3	14.8	11	16.9	19	14.6	8.6	13	17.5	10.3	8.2	10.8	13.8	10.2	12.3	8.2	10.7
Legionellosis	Cases	4	2	4	4	4	0	1	0	0	0	0	0	0	0	0	1	0	24	0
	Rate	13.4	4.1	2.4	3.6	2.3	3.8	9.3	0	2.6	0.6	0	1.1	3.4	0.7	0	7.5	15.4	13.2	6.8
Leptospirosis	Cases	1	0	0	0	8	2	4	0	1	2	1	1	0	0	0	0	0	0	1
	Rate	4.7	1.2	0.2	0	13.5	2.8	3.1	0	5.1	9.9	14.3	4.6	0.7	0	9.2	3.4	9.2	2.2	5.1
Listeriosis	Cases	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	1.2	0.2	0.4	0.7	0.3	0	1.3	0	0	0.6	0	0.6	0	0.3	0	1.4	0	0.4	1.7
Malaria	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	Rate	2.3	0.7	1.4	0.7	1	0.9	0.4	0	1.7	0.6	0	0	0.7	1.3	0	2	0	0.6	0
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0	0.3	0.2	0	0	0	0.9	0	0	0	0	4	0.7	0	0	0	0	0.2	1.7
Meningococcal disease	Cases	0	2	1	0	1	0	2	0	0	1	0	0	0	1	1	0	1	0	1
	Rate	2.9	1.9	1.8	3.6	2.3	0.9	3.5	2.1	0	3.7	1.6	1.7	1.4	3.3	2.3	0	9.2	2	2.2
Mumps	Cases	14	41	74	91	7	0	1	0	2	0	6	1	0	7	0	1	0	7	9
	Rate	16.3	45.7	55.8	74.5	18	3.8	1.8	0	7.7	1.9	11.1	4.6	5.5	8.2	0	7.5	0	3.9	14.7
Paratyphoid fever	Cases	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
	Rate	0	1.4	1.6	0.7	0.3	0	0.9	4.2	0.9	6.2	0	1.1	0	1	0	0.7	0	0.2	0
Pertussis	Cases	21	40	45	29	47	4	36	4	4	18	2	8	6	15	0	87	3	39	6
	Rate	32.7	28.9	28.4	18.2	37	41.3	38.4	31.4	55.7	55.8	20.6	16.1	37	55.4	6.9	102.5	21.5	41.3	22
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ⁴	Cases	2	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	Rate	6.4	2.2	4.5	9.5	4.3	2.8	3.1	6.3	0	2.5	3.2	1.1	2.7	1.3	0	0.7	0	0.7	0
Rickettsial disease	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.6	0.2	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	Cases	5	7	10	3	7	2	3	3	0	3	0	3	3	4	1	1	1	17	4
	Rate	37.3	17.6	22.9	13.3	27	20.6	16.3	43.9	23.1	19.2	19	21.2	15.1	24.1	29.8	21.2	15.4	36.9	35.5
Shigellosis	Cases	0	4	5	4	1	1	1	0	0	1	0	1	0	2	0	0	0	3	0
	Rate	5.3	5.8	10.6	10.7	1.3	3.8	1.8	2.1	1.7	8.1	1.6	1.7	2.7	5.5	0	0.7	3.1	3.2	5.6
Tuberculosis disease	Cases	2	6	5	9	2	0	2	0	1	0	0	0	3	1	0	0	0	4	0
	Rate	2.3	7.3	12	11.2	6	2.8	3.1	0	6	9.3	0	4	7.5	6.8	13.8	3.4	0	6.7	2.5
Typhoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.2	3.4	3.9	0.5	1.9	0	0	0	0.6	1.6	1.1	0.7	0	0	0.7	0	0.2	0
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	3	9	2	7	2	1	0	0	0	1	1	1	0	0	0	1	0	1	2
	Rate	40.3	13.2	7.5	11.8	8.8	12.2	9.7	2.1	10.3	6.8	7.9	2.9	0.7	3.3	2.3	6.1	6.2	4.6	20.3
Yersiniosis	Cases	1	4	9	5	3	1	1	0	3	5	2	3	2	12	1	1	0	26	2
	Rate	13.4	19.6	21.3	12.7	15.5	22.5	28.2	23	18.8	21.1	15.9	9.8	26	29	29.8	5.5	9.2	30.6	28.7

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including November 2017 expressed as cases per 100 000. This includes cases still under investigation.

³ Further data are available from the local Medical Officer of Health.

⁴ Rates are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

National Notifiable Disease Surveillance Data November 2017

Disease	Current Year - 2017 ¹			Previous Year - 2016		
	November 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	November 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	795	5848	141.6	1103	6661	158.1
Cryptosporidiosis	119	1153	25.6	95	1014	22.3
Dengue fever	25	136	3	13	185	4.1
Gastroenteritis ³	36	300	6.9	36	485	11.7
Giardiasis	154	1532	34.8	130	1515	34.7
Haemophilus influenzae type b	1	5	0.1	0	2	0
Hepatitis A	10	48	1.1	3	31	0.7
Hepatitis B ⁴	19	50	1.2	5	30	0.7
Hepatitis C ⁴	1	22	0.5	3	28	0.6
Invasive pneumococcal disease	31	489	11.1	41	446	10.2
Legionellosis	48	209	4.9	31	226	5.9
Leptospirosis	21	147	3.3	12	78	1.7
Listeriosis	3	18	0.4	4	33	0.8
Malaria	4	40	0.9	0	25	0.7
Measles	1	15	0.3	0	103	2.2
Meningococcal disease	11	103	2.3	12	71	1.6
Mumps	261	1190	25.5	1	12	0.3
Paratyphoid fever	3	43	0.9	1	31	0.7
Pertussis	436	1667	38.1	107	973	22.6
Rheumatic fever ⁵	5	148	3.2	4	133	3
Rickettsial disease	1	5	0.1	0	5	0.1
Rubella	0	0	0	0	3	0.1
Salmonellosis	83	1043	23.7	80	1020	23.4
Shigellosis	26	224	5.2	18	153	3.3
Tuberculosis disease	36	287	6.8	32	263	6.2
Typhoid fever	1	58	1.3	3	37	0.9
VTEC/STEC infection	48	521	11.5	32	401	9.3
Yersiniosis	86	879	20.2	113	789	17.7

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including November 2017) or the previous year (12 months up to and including November 2016), expressed as cases per 100 000. This includes cases still under investigation.

³ Cases of gastroenteritis from a common source or foodborne intoxication.

⁴ Only acute cases of this disease are currently notifiable.

⁵ Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

Other notifiable infectious disease reported in November: Chikungunya fever (2) , Cholera (1) , Hepatitis NOS (2) , Hydatid disease (2) , Taeniasis (1) , Trichinellosis (1) , Zika virus (1)

National Notifiable Disease Surveillance Data – Monthly totals for November 2017 and preceding 11 Months¹

Disease	Nov 2017	Oct 2017	Sep 2017	Aug 2017	Jul 2017	Jun 2017	May 2017	Apr 2017	Mar 2017	Feb 2017	Jan 2017	Dec 2016
Campylobacteriosis	795	687	593	569	440	367	430	370	426	527	644	795
Cryptosporidiosis	119	236	244	135	57	81	82	58	49	43	49	48
Dengue fever	25	14	11	12	3	15	19	8	8	12	9	6
Gastroenteritis ²	36	21	20	16	26	42	29	22	30	29	29	25
Giardiasis	154	126	124	150	114	162	156	125	162	145	114	101
Haemophilus influenzae type b	1	0	2	1	1	0	0	0	0	0	0	0
Hepatitis A	10	8	2	5	1	0	1	2	2	10	7	4
Hepatitis B ³	19	8	6	1	1	3	3	2	0	5	2	4
Hepatitis C ³	1	2	1	2	2	3	1	3	2	3	2	3
Invasive pneumococcal disease	31	46	46	70	92	60	34	31	21	22	36	34
Legionellosis	48	17	10	9	12	7	25	10	19	21	31	21
Leptospirosis	21	9	11	10	8	20	23	12	13	9	11	7
Listeriosis	3	3	0	1	1	3	3	1	2	0	1	3
Malaria	4	3	4	8	4	1	2	2	5	2	5	1
Measles	1	0	0	0	0	0	4	0	2	7	1	0
Meningococcal disease	11	14	10	23	11	12	4	5	7	1	5	4
Mumps	261	279	239	156	76	45	52	28	23	20	11	8
Paratyphoid fever	3	5	17	1	2	1	3	1	4	6	0	1
Pertussis	437	170	187	137	96	123	130	72	109	113	93	120
Rheumatic fever ⁴	5	14	20	13	17	13	17	9	18	12	10	3
Rickettsial disease	1	2	1	0	0	0	0	0	0	1	0	0
Salmonellosis	83	94	105	103	67	72	94	106	114	95	110	71
Shigellosis	27	18	17	20	30	14	29	15	19	14	21	21
Tuberculosis disease	36	33	29	16	25	21	30	21	22	19	35	31
Typhoid fever	1	1	2	6	0	3	4	18	15	3	5	1
VTEC/STEC infection	49	53	47	38	25	29	53	68	85	49	25	17
Yersiniosis	86	111	102	109	66	64	74	50	82	67	68	69

¹ These data are provisional.

² Cases of gastroenteritis from a common source or foodborne intoxication.

³ Only acute cases of this disease are currently notifiable.

⁴ Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.