
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 11 July 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.

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1. Key notifiable disease trends

Campylobacteriosis: 369 cases of campylobacteriosis (361 confirmed, 1 probable and 7 under investigation) were notified in June 2017 compared to 334 cases notified during the same month of the previous year. The highest rates were reported in Hawke's Bay (816.6 cases per 100,000 population, 20 cases), South Canterbury (244.9 per 100,000, 5 cases) and Southern (196.3 per 100,000, 35 cases) DHBs, compared to a national rate of 160.7 per 100,000. Thirty-one people were hospitalised. Cases ranged in age from four months to 93 years, and the highest numbers of cases were reported in the 70 years and over (68 cases) and 20–29 years (55 cases) age groups. One finalised *Campylobacter* outbreak (3 cases total) was created in June.

Chikungunya fever: One confirmed case of chikungunya fever was notified in June 2017. The case was a male in the 30–39 years age group from South Canterbury DHB. The case reported overseas travel to Indonesia during the incubation period for the disease.

Cryptosporidiosis: 81 cases of cryptosporidiosis (79 confirmed and 2 probable) were notified in June 2017 compared to 48 cases notified during the same month of the previous year. The 12-month rate for the period ending 30 June (23.4 cases per 100,000 population) was higher than at the same time in the previous year (18.8 per 100,000). Cases notified in June ranged in age from 7 months to 79 years, with the highest numbers of cases in the 1–4 years, 30–39 (14 cases each) and 5–9 years (12 cases) age groups. Among the cases for which risk factor information was recorded, 50.0% (25/50) had recreational contact with water, 35.8% (19/53) had attended school, preschool or childcare, and 29.4% (15/51) had contact with other symptomatic people during the incubation period for the disease. One finalised *Cryptosporidium* outbreak (4 cases) and one interim outbreaks (case numbers yet to be determined) were created in June.

Invasive pneumococcal disease: 60 cases of invasive pneumococcal disease (56 confirmed and 4 under investigation) were notified in June 2017 compared to 48 cases notified during the same month of the previous year. The highest numbers of cases were reported from Auckland (9 cases), Counties Manukau (8 cases) and Capital & Coast (6 cases) DHBs. The cases ranged in age from seven months to 91 years, with the highest numbers of cases in the 70 years and over age group (22 cases). Forty-seven cases were hospitalised and three deaths were reported. Among the cases for which risk factor information was recorded, 58.1% (25/43) had a chronic illness, 18.2% (8/44) had chronic lung disease or cystic fibrosis, and 17.8% (8/45) were immunocompromised

Leprosy: One confirmed leprosy case was notified in June 2017. The case was a male in the 20–29 years age group from Waikato DHB and travelled to Kiribati during the incubation period for the disease.

Leptospirosis: 23 cases of leptospirosis (16 confirmed and 7 under investigation) were notified in June 2017 compared to six cases notified during the same month of the previous year. Due to technical issues with lab notifications 10 of these cases had an onset date of well before June 2017 and therefore will not be included in further analysis. The highest number of cases were reported from Waikato, Canterbury and Waikato DHBs (2 cases). Cases were reported in the 50–59 years (6 cases), 40–49 years (3 cases), 30–39 years (2 cases), 20–29 years and 70 years and over (1 case each) age groups. Occupational exposure risk factor information was recorded for seven cases, all of which reported being exposed. Five were farmers or farm workers and the remaining two cases reported exposure through animals via contact at home and consuming contaminated snow. Four cases did not have any risk factor information recorded. The *Leptospira* species was recorded for five cases, which were *L. Ballum* (3 cases), *L. Hardjo* (1 case) and *L. Tarassovi* (1 case).

Meningococcal disease: Thirteen cases of meningococcal disease (12 confirmed and 1 under investigation) were notified in June 2017 compared to four cases notified during the same month of the previous year (Figure 1). Cases were reported from Capital & Coast, Canterbury (3 cases each), Northland, Bay of Plenty (2 cases each), Counties Manukau, Waikato, and Lakes DHBs (1 case each). Cases were in the 1–4 years (5 cases), less than 1 year, 15–19 years, 20–29 years (2 cases each), 5–9 years and 60–69 years age groups (1 case each). All cases were hospitalised and one death was reported. Ninety-two percent of cases (12/13) were laboratory confirmed and the group was determined for 11 cases: group B (9 cases, including 3 NZ B:P1.7-2,4), group C (1 case), and group W (1 case).

Mumps: 48 cases of mumps (36 confirmed, 1 probable and 11 under investigation) were notified in June 2017 compared with zero cases notified during the same month of the previous year (Figure 2). The cases were reported from Waitemata (15 cases), Counties Manukau (12 cases), Auckland (8 cases), Waikato (7 cases), Bay of Plenty, Taranaki, Capital & Coast, Nelson Marlborough, Canterbury and Southern DHBs (1 case each). Cases were in the 15–19 years (16 cases), 20–29 years (12 cases), 10–14 years (10 cases), 40–49 years (5 cases), 1–4 years, 30–39 years, (2 cases each), and 5–9 years (1 case) age groups. Ten cases were recorded as being vaccinated against mumps, of which four cases had received two doses of the vaccine and five cases had received just one dose. One further case had been vaccinated, but no dose information was available. One interim mumps virus outbreak (case numbers yet to be determined) was created in June.

Pertussis: 133 cases of pertussis (66 confirmed, 43 probable, 5 suspect and 19 under investigation) were notified in June 2016 compared to 72 cases in the same month of the previous year. After further investigation, one case has since been found not to meet the case criteria. The 12-month rate for the period ending 30 June (26.4 cases per 100,000) was lower than at the same time in the previous year (27.0 per 100,000). Six cases were hospitalised and no deaths were reported. Fifty-one percent (68/132) of cases were laboratory-confirmed (16 by culture, 44 by PCR, and 8 by culture and PCR). The highest number of cases was reported from Nelson Marlborough, Southern (18 cases each), followed by Waitemata (17 cases) and Auckland (13 cases) DHBs. Cases ranged in age from 1 month to 86 years, with 18.9% (25/132) under 5 years of age (including seven cases aged less than one year). The highest numbers of cases were in the 1–4 years, 5–9 years (18 cases each) and 30–39 years (17 cases) age groups.

VTEC/STEC infection: 34 cases of VTEC/STEC infection (20 confirmed and 14 under investigation) were notified in June 2017 compared to 15 cases confirmed during the same month of the previous year. After further investigation, one case has since been found to not meet the case criteria. The 12-month rate for the period ending 30 June 2017 (10.1 cases per 100,000 population) was higher than the rate for the equivalent period the previous year (9.9 cases per 100,000 population). The highest numbers of cases were reported from Waitemata (9 cases), Auckland (7 cases), and Counties Manukau (5 cases) DHBs. Cases ranged in age from six months to 81 years, with the highest number of cases in the 1–4 years (6 cases), 60–69 years and 70 years and over (5 cases each) age groups. Five cases were hospitalised. Seventeen 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* non-O157 (10 cases) and O157:H7 (7 cases). Of the cases for which risk factor information was recorded, 90.0% (9/10) had contact with animals, 50.0% (5/10) had contact with a person with similar symptoms, and 16.6% (2/12) had contact with children in nappies during the incubation period for the disease.

Yersiniosis: 65 cases of yersiniosis (62 confirmed and 3 under investigation) were notified in June 2017 compared to 54 cases notified in the same month of the previous year. The 12-month rate for the period ending 30 June (19.6 per 100,000 population) was higher than at the same time in the previous year (16.3 per 100,000). The highest number of cases was reported from Canterbury (10 cases), Waitemata and Counties Manukau (8 cases each) DHB. Cases ranged in age from 2 months to 80 years, with the highest numbers of cases in the 1–4 years (13 cases) less than one years and 50–59 years (9 cases each) age groups. Six cases were hospitalised. The *Yersinia* species involved was identified by the Enteric Reference Laboratory for 89.2% (58/65) cases; all *Y. enterocolitica*. The most common *Y. enterocolitica* biotypes reported were biotype 2 (34 cases), 1A and 3 (10 cases each). Among the cases for which risk factor information was recorded, 30.0% (9/30) had contact with faecal matter or vomit, 26.9% (7/26) had consumed food from a food premises, 19.4% (6/31), attended school, preschool or childcare and 17.2% (5/29) had recreational contact with water during the incubation period for the disease.

2. Outbreaks

During June 2017, a total of 43 outbreaks (15 final and 28 interim) were created in EpiSurv (Table 1 and Table 2). Thirty-three (76.7%) were outbreaks of acute gastroenteritis (10 finalised and 23 interim) involving 470 cases in total. This compares with 39 acute gastroenteritis outbreaks involving 871 cases in total created during the same month of the previous year. Of the 33 acute gastroenteritis outbreaks, the pathogens were recorded as norovirus (12 outbreaks) and sapovirus (1 outbreak). The most commonly reported mode of transmission in acute gastroenteritis outbreaks (48.5%, 16/33) was person-to-person (15 primary and 1 secondary). Of the outbreaks that had an exposure setting recorded (78.8%, 26/33) the most commonly reported setting were long term care facilities (12 outbreaks) and childcare centres (9 outbreaks).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Hawke's Bay	1	3
<i>Cryptosporidium</i>	Counties Manukau	1	4
Gastroenteritis	Waitemata, Waikato, Hawke's Bay	4	26
<i>Giardia</i> ¹	Auckland, Bay of Plenty	2	5
Norovirus	Waitemata, Waikato, Taranaki, Wairarapa, Canterbury	6	186
<i>Shigella</i> ²	Bay of Plenty	1	6
Total		15	230

¹ Includes outbreak reported to PHSs prior to June 2017: one *Giardia* reported in May 2017.

² Includes outbreaks with an overseas exposure transmission: one *Shigella* (Samoa).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases ¹
<i>Cryptosporidium</i>	Nelson Marlborough	1	-
Gastroenteritis	Auckland, Waikato, MidCentral, Hutt Valley, Capital & Coast, Nelson Marlborough, Canterbury Southern	16	97
<i>Giardia</i>	Nelson Marlborough	1	-
Influenza-like illness	Whanganui, West Coast	2	80
Mumps virus	Counties Manukau	1	3
Norovirus ²	Auckland, Whanganui, Capital & Coast, West Coast, Canterbury	6	161
Sapovirus	Canterbury	1	-
Total		28	341

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

² Includes outbreak reported to PHSs prior to June 2017: one norovirus reported in May 2017.

3. Deaths from notifiable diseases

Four deaths, where the primary cause of death was a notifiable disease, were reported in June 2017 (Table 3).

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

Disease	District health board	Age group (years)
Invasive pneumococcal disease	Auckland	60–69
Invasive pneumococcal disease	Auckland	70+
Invasive pneumococcal disease	Capital & Coast	60–69
Meningococcal disease	Bay of Plenty	20–29

4. Trends in selected diseases to June 2017

Figure 1. Meningococcal disease notifications by month, January 2010–June 2017

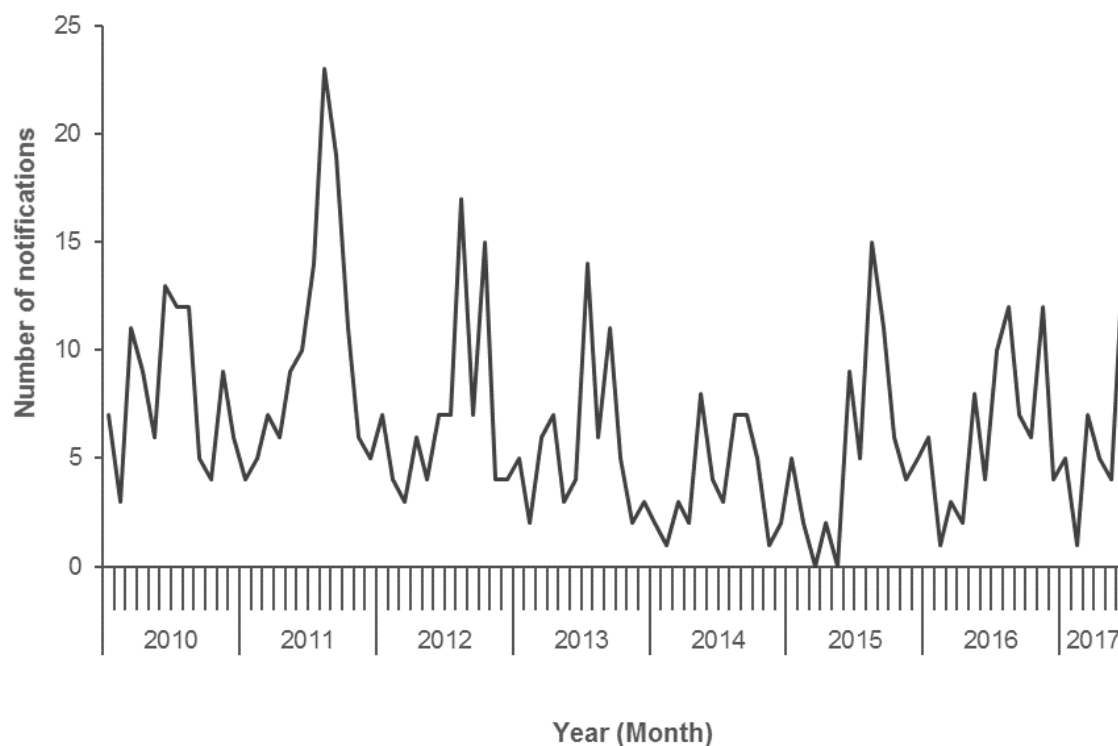
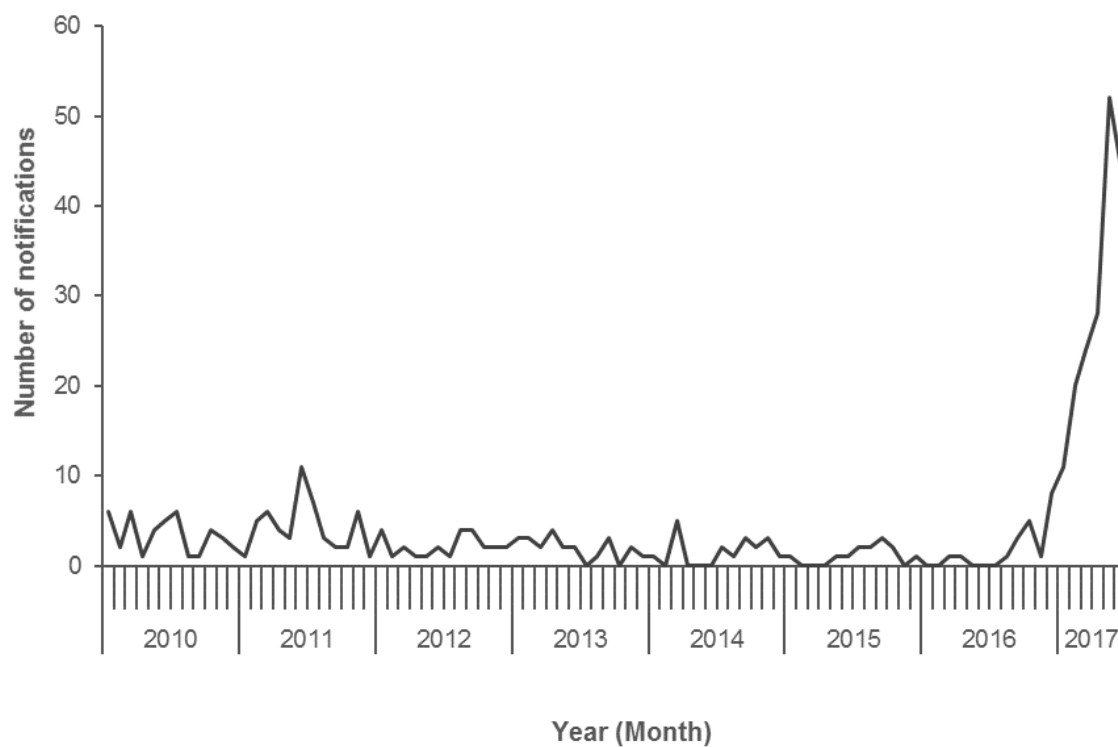


Figure 2. Mumps Virus notifications by month, January 2010–June 2017



5. Data tables

National Notifiable Disease Surveillance Data June 2017

Disease	Current Year - 2017 ¹			Previous Year - 2016		
	June 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	June 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	369	2766	160.7	334	2681	136.5
Cryptosporidiosis	81	362	23.4	48	324	18.8
Dengue fever	15	71	2.9	21	125	3.5
Gastroenteritis ³	32	176	9.4	43	247	11.2
Giardiasis	162	864	33.9	121	890	35.5
Haemophilus influenzae type b	2	2	0.1	0	1	0
Hepatitis A	0	22	0.9	1	17	0.8
Hepatitis B ⁴	8	21	0.9	1	12	0.7
Hepatitis C ⁴	4	16	0.6	0	17	0.8
Invasive pneumococcal disease	60	201	10.6	48	181	10.1
Legionellosis	12	141	5.3	15	140	6.4
Leptospirosis	23	91	3	6	33	1.3
Listeriosis	3	10	0.5	3	22	0.8
Malaria	1	17	0.5	3	18	0.8
Measles	0	14	0.5	32	93	2
Meningococcal disease	13	35	1.8	4	24	1.5
Mumps	48	183	4.3	0	2	0.3
Paratyphoid fever	1	15	0.6	3	20	0.7
Pertussis	133	654	26.4	72	507	27
Rheumatic fever ⁵	13	80	2.9	15	79	2.8
Rickettsial disease	0	1	0	1	4	0.2
Rubella	0	0	0	0	3	0.1
Salmonellosis	73	592	23.1	66	601	23.2
Shigellosis	14	112	4.5	12	74	2.6
Tuberculosis disease	24	158	6.4	27	152	6.4
Typhoid fever	3	48	1.3	4	27	1.2
VTEC/STEC infection	34	322	10.1	15	267	9.9
Yersiniosis	65	407	19.6	54	346	16.3

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including June 2017) or the previous year (12 months up to and including June 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 June: Chikungunya fever (1) , Leprosy (1) , Ross River virus infection (2) , Zika virus (1)

Notifiable Disease Surveillance Data by District Health Board June 2017

		Cases ¹ and current rate ² for June 2017 by District Health Board ³																			
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāhiti	Taranaki	Hawke's Bay	Whanganui	MtC central	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Disease																					
Campylobacteriosis	Cases	10	45	40	23	27	9	18	2	7	20	7	14	16	29	3	9	1	49	5	35
	Rate	158.1	123.9	105.5	93.6	135.7	138.8	107.6	142.3	192.6	816.6	179.4	179.7	137.8	140.9	185.8	129.8	163.1	149	244.9	196.3
Cryptosporidiosis	Cases	3	6	5	13	5	2	3	1	1	3	0	2	0	0	0	25	1	8	0	3
	Rate	53.1	20.3	17	25.1	29.8	20.6	8.8	29.3	41.1	13.6	31.7	28.7	6.9	19.6	36.7	37.6	15.4	23.2	25.3	21.3
Dengue fever	Cases	0	0	4	6	0	0	1	1	0	0	1	0	0	0	0	0	0	1	1	0
	Rate	1.2	2.9	4.3	4.3	2.5	1.9	5.7	2.1	5.1	2.5	1.6	1.7	2.1	2.6	0	2.7	0	2.2	3.4	1.3
Gastroenteritis	Cases	1	3	8	1	1	1	0	0	0	1	1	4	0	5	0	1	0	4	0	1
	Rate	11.1	7.6	15.4	4.9	1.8	9.4	8.8	2.1	3.4	1.2	22.2	25.3	16.4	20.9	11.5	1.4	27.7	10.6	3.4	2.5
Giardiasis	Cases	8	17	12	18	27	3	11	8	1	7	0	3	0	9	1	8	1	15	4	9
	Rate	35	30.5	32.7	38.2	43.1	52.5	32.2	104.6	30	42.8	39.7	21.2	21.2	35.6	16.1	32.1	27.7	26.9	37.2	29.2
Haemophilus influenzae type b	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.4	0.4	2.4	0.5	0	0	0	0.9	0	0	0	0.7	1.6	0	1.4	3.1	0.4	0	0.9
Hepatitis B	Cases	0	3	3	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	0	0.7	1.6	1.7	1.5	0	0.4	0	0.9	1.9	0	0	0	0.7	2.3	1.4	0	0.7	0	0.6
Hepatitis C	Cases	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1
	Rate	0.6	0.2	0.2	0	0	0.9	0	0	3.4	0.6	0	0.6	2.1	0.7	0	2	0	1.3	1.7	1.3
Invasive pneumococcal	Cases	2	4	9	8	5	5	5	1	2	3	1	3	0	6	0	0	0	2	1	3
	Rate	17.5	9.5	10.4	15.5	8.8	19.7	18.5	14.6	4.3	11.2	9.5	5.2	6.9	9.8	6.9	10.2	6.2	7.6	15.2	6.9
Legionellosis	Cases	2	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	Rate	15.2	7.4	4.3	3.7	2.5	4.7	8.4	0	3.4	1.2	0	1.7	4.1	1.3	2.3	9.6	18.5	8.5	3.4	4.4
Leptospirosis	Cases	1	0	1	0	12	0	0	0	0	1	0	1	0	0	0	1	1	2	1	2
	Rate	5.8	1.2	0.4	0.2	11.5	0.9	1.8	2.1	6	8.7	6.3	5.2	0.7	0	9.2	4.8	12.3	1.7	5.1	2.8
Listeriosis	Cases	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.6	0.7	0.5	0	1.3	2.1	0	0.6	0	0	1.4	0.3	0	0.7	0	0.6	0	0.3
Malaria	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.5	0.8	0.6	0.8	0	0.4	0	1.7	0.6	0	0	0	0.7	0	1.4	0	0.4	0	0.3
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.5	0.4	0	0.8	0	0.9	0	0	0	0	4	1.4	1	0	0	0	0.2	0	0.3
Meningococcal disease	Cases	2	0	0	1	1	1	2	0	0	0	0	0	0	3	0	0	0	3	0	0
	Rate	2.9	0.8	1.2	2.2	2.5	1.9	3.5	2.1	0	1.2	0	1.1	0	2.9	2.3	0.7	3.1	1.3	0	4.4
Mumps	Cases	0	15	8	12	7	0	1	0	1	0	0	0	0	1	0	1	0	1	0	1
	Rate	2.9	16.3	3.5	7.9	4	2.8	0.4	0	1.7	0	0	0	1.4	1.3	0	1.4	3.1	1.3	0	0.6
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0	0.8	1.2	0.4	0	0	0.4	0	0.9	0.6	0	1.1	0.7	1	0	0.7	0	0.4	0	0.6
Pertussis	Cases	0	17	13	10	9	6	4	1	0	10	0	0	4	9	0	18	0	12	1	19
	Rate	8.2	18.8	14.6	10.1	25.5	52.5	26	18.8	80.5	20.4	15.9	16.6	22.6	47.9	0	42.3	15.4	38	18.6	41.4
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	1	0	2	5	3	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
	Rate	3.5	2.7	4.1	8	3.8	1.9	4.4	2.1	0.9	3.7	0	1.1	2.7	2.3	0	0.7	0	0.4	0	0.3
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	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	4	5	3	4	2	3	1	5	4	0	0	2	6	2	3	1	10	1	12
	Rate	26.8	15.7	19.1	14	32.3	21.6	16.8	31.4	18.8	24.8	20.6	19.5	15.1	26.7	32.1	23.2	18.5	31.3	27	35.7
Shigellosis	Cases	0	1	0	3	0	1	2	0	1	1	0	0	0	0	0	0	1	2	0	2
	Rate	4.1	6.1	6.9	9.7	2.8	2.8	4.9	8.4	0.9	4.3	1.6	1.1	3.4	4.6	0	0.7	3.1	2	0	3.1
Tuberculosis disease	Cases	1	2	1	4	4	0	1	0	0	0	0	4	2	3	0	0	0	1	0	1
	Rate	1.2	7.4	11.4	10.7	5.3	3.8	2.6	0	3.4	7.4	0	5.2	6.9	7.5	13.8	3.4	0	5.6	3.4	2.8
Typhoid fever	Cases	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1	4.1	3.4	0.5	2.8	0	0	0	0.6	1.6	1.1	0.7	0	0	0	0	0.4	0	0.6
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	4	10	7	5	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	4
	Rate	34.4	12.7	6.9	11.4	9.8	11.3	7.5	2.1	11.1	8.7	11.1	1.7	0.7	2.9	4.6	5.5	3.1	4.1	25.3	24.8
Yersiniosis	Cases	4	8	5	8	4	1	2	2	3	3	1	2	2	3	0	0	0	10	0	7
	Rate	18.7	18.6	18.5	11.4	15.5	27.2	30.9	25.1	11.1	18	6.3	9.8	26	26.7	9.2	5.5	21.5	31.7	25.3	19.1

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including June 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 June 2017

Disease		Cases ¹ and current rate ² for June 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	Southern
Campylobacteriosis	Cases	10	45	40	23	27	9	18	2	7	20	7	14	16	29	3	9	1	49	5	35
	Rate	158.1	123.9	105.5	93.6	135.7	138.8	107.6	142.3	192.6	816.6	179.4	179.7	137.8	140.9	185.8	129.8	163.1	149	244.9	196.3
Cryptosporidiosis	Cases	3	6	5	13	5	2	3	1	1	3	0	2	0	0	0	25	1	8	0	3
	Rate	53.1	20.3	17	25.1	29.8	20.6	8.8	29.3	41.1	13.6	31.7	28.7	6.9	19.6	36.7	37.6	15.4	23.2	25.3	21.3
Dengue fever	Cases	0	0	4	6	0	0	1	1	0	0	1	0	0	0	0	0	0	1	1	0
	Rate	1.2	2.9	4.3	4.3	2.5	1.9	5.7	2.1	5.1	2.5	1.6	1.7	2.1	2.6	0	2.7	0	2.2	3.4	1.3
Gastroenteritis	Cases	1	3	8	1	1	1	0	0	0	1	1	4	0	5	0	1	0	4	0	1
	Rate	11.1	7.6	15.4	4.9	1.8	9.4	8.8	2.1	3.4	1.2	22.2	25.3	16.4	20.9	11.5	1.4	27.7	10.6	3.4	2.5
Giardiasis	Cases	8	17	12	18	27	3	11	8	1	7	0	3	0	9	1	8	1	15	4	9
	Rate	35	30.5	32.7	38.2	43.1	52.5	32.2	104.6	30	42.8	39.7	21.2	21.2	35.6	16.1	32.1	27.7	26.9	37.2	29.2
Haemophilus influenzae type b	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.4	0.4	2.4	0.5	0	0	0	0.9	0	0	0	0.7	1.6	0	1.4	3.1	0.4	0	0.9
Hepatitis B	Cases	0	3	3	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	0	0.7	1.6	1.7	1.5	0	0.4	0	0.9	1.9	0	0	0	0.7	2.3	1.4	0	0.7	0	0.6
Hepatitis C	Cases	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1
	Rate	0.6	0.2	0.2	0	0	0.9	0	0	3.4	0.6	0	0.6	2.1	0.7	0	2	0	1.3	1.7	1.3
Invasive pneumococcal disease	Cases	2	4	9	8	5	5	5	1	2	3	1	3	0	6	0	0	0	2	1	3
	Rate	17.5	9.5	10.4	15.5	8.8	19.7	18.5	14.6	4.3	11.2	9.5	5.2	6.9	9.8	6.9	10.2	6.2	7.6	15.2	6.9
Legionellosis	Cases	2	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	Rate	15.2	7.4	4.3	3.7	2.5	4.7	8.4	0	3.4	1.2	0	1.7	4.1	1.3	2.3	9.6	18.5	8.5	3.4	4.4
Leptospirosis	Cases	1	0	1	0	12	0	0	0	0	1	0	1	0	0	0	1	1	2	1	2
	Rate	5.8	1.2	0.4	0.2	11.5	0.9	1.8	2.1	6	8.7	6.3	5.2	0.7	0	9.2	4.8	12.3	1.7	5.1	2.8
Listeriosis	Cases	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.6	0.7	0.5	0	1.3	2.1	0	0.6	0	0	1.4	0.3	0	0.7	0	0.6	0	0.3
Malaria	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.5	0.8	0.6	0.8	0	0.4	0	1.7	0.6	0	0	0	0.7	0	1.4	0	0.4	0	0.3
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.5	0.4	0	0.8	0	0.9	0	0	0	0	4	1.4	1	0	0	0	0.2	0	0.3
Meningococcal disease	Cases	2	0	0	1	1	1	2	0	0	0	0	0	0	3	0	0	0	3	0	0
	Rate	2.9	0.8	1.2	2.2	2.5	1.9	3.5	2.1	0	1.2	0	1.1	0	2.9	2.3	0.7	3.1	1.3	0	4.4
Mumps	Cases	0	15	8	12	7	0	1	0	1	0	0	0	0	1	0	1	0	1	0	1
	Rate	2.9	16.3	3.5	7.9	4	2.8	0.4	0	1.7	0	0	0	1.4	1.3	0	1.4	3.1	1.3	0	0.6
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0	0.8	1.2	0.4	0	0	0.4	0	0.9	0.6	0	1.1	0.7	1	0	0.7	0	0.4	0	0.6
Pertussis	Cases	0	17	13	10	9	6	4	1	0	10	0	0	4	9	0	18	0	12	1	19
	Rate	8.2	18.8	14.6	10.1	25.5	52.5	26	18.8	80.5	20.4	15.9	16.6	22.6	47.9	0	42.3	15.4	38	18.6	41.4
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	1	0	2	5	3	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
	Rate	3.5	2.7	4.1	8	3.8	1.9	4.4	2.1	0.9	3.7	0	1.1	2.7	2.3	0	0.7	0	0.4	0	0.3
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	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	4	5	3	4	2	3	1	5	4	0	0	2	6	2	3	1	10	1	12
	Rate	26.8	15.7	19.1	14	32.3	21.6	16.8	31.4	18.8	24.8	20.6	19.5	15.1	26.7	32.1	23.2	18.5	31.3	27	35.7
Shigellosis	Cases	0	1	0	3	0	1	2	0	1	1	0	0	0	0	0	0	1	2	0	2
	Rate	4.1	6.1	6.9	9.7	2.8	2.8	4.9	8.4	0.9	4.3	1.6	1.1	3.4	4.6	0	0.7	3.1	2	0	3.1
Tuberculosis disease	Cases	1	2	1	4	4	0	1	0	0	0	0	4	2	3	0	0	0	1	0	1
	Rate	1.2	7.4	11.4	10.7	5.3	3.8	2.6	0	3.4	7.4	0	5.2	6.9	7.5	13.8	3.4	0	5.6	3.4	2.8
Typhoid fever	Cases	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1	4.1	3.4	0.5	2.8	0	0	0	0.6	1.6	1.1	0.7	0	0	0	0	0.4	0	0.6
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	4	10	7	5	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	4
	Rate	34.4	12.7	6.9	11.4	9.8	11.3	7.5	2.1	11.1	8.7	11.1	1.7	0.7	2.9	4.6	5.5	3.1	4.1	25.3	24.8
Yersiniosis	Cases	4	8	5	8	4	1	2	2	3	3	1	2	2	3	0	0	0	10	0	7
	Rate	18.7	18.6	18.5	11.4	15.5	27.2	30.9	25.1	11.1	18	6.3	9.8	26	26.7	9.2	5.5	21.5	31.7	25.3	19.1

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including June 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 for the 12 months ending June-2017 by District Health Board

Disease	Cases for the 12 months ending June 2017 ^{1 2} by District Health Board																				
	Total	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	Southern
Campylobacteriosis	7541	271	732	535	500	542	148	244	68	225	1318	113	313	201	432	81	190	53	804	145	626
Cryptosporidiosis	1100	91	120	86	134	119	22	20	14	48	22	20	50	10	60	16	55	5	125	15	68
Dengue fever	137	2	17	22	23	10	2	13	1	6	4	1	3	3	8	0	4	0	12	2	4
Gastroenteritis	441	19	45	78	26	7	10	20	1	4	2	14	44	24	64	5	2	9	57	2	8
Giardiasis	1590	60	180	166	204	172	56	73	50	35	69	25	37	31	109	7	47	9	145	22	93
Haemophilus influenzae type b	3	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	40	0	8	2	13	2	0	0	0	1	0	0	0	1	5	0	2	1	2	0	3
Hepatitis B	43	0	4	8	9	6	0	1	0	1	3	0	0	0	2	1	2	0	4	0	2
Hepatitis C	30	1	1	1	0	0	1	0	0	4	1	0	1	3	2	0	3	0	7	1	4
Invasive pneumococcal disease	497	30	56	53	83	35	21	42	7	5	18	6	9	10	30	3	15	2	41	9	22
Legionellosis	248	26	44	22	20	10	5	19	0	4	2	0	3	6	4	1	14	6	46	2	14
Leptospirosis	143	10	7	2	1	46	1	4	1	7	14	4	9	1	0	4	7	4	9	3	9
Listeriosis	24	1	1	3	4	2	0	3	1	0	1	0	0	2	1	0	1	0	3	0	1
Malaria	25	1	3	4	3	3	0	1	0	2	1	0	0	0	2	0	2	0	2	0	1
Measles	24	0	3	2	0	3	0	2	0	0	0	0	7	2	3	0	0	0	1	0	1
Meningococcal disease	86	5	5	6	12	10	2	8	1	0	2	0	2	0	9	1	1	1	7	0	14
Mumps	201	5	96	18	42	16	3	1	0	2	0	0	0	2	4	0	2	1	7	0	2
Paratyphoid fever	27	0	5	6	2	0	0	1	0	1	1	0	2	1	3	0	1	0	2	0	2
Pertussis	1240	14	111	74	54	102	56	59	9	94	33	10	29	33	147	0	62	5	205	11	132
Q fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ³	138	6	16	21	43	15	2	10	1	1	6	0	2	4	7	0	1	0	2	0	1
Rickettsial disease	2	0	0	1	1	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	0	0	0	0
Salmonellosis	1082	46	93	97	75	129	23	38	15	22	40	13	34	22	82	14	34	6	169	16	114
Shigellosis	212	7	36	35	52	11	3	11	4	1	7	1	2	5	14	0	1	1	11	0	10
Tuberculosis disease	302	2	44	58	57	21	4	6	0	4	12	0	9	10	23	6	5	0	30	2	9
Typhoid fever	59	0	6	21	18	2	3	0	0	0	1	1	2	1	0	0	0	0	2	0	2
Viral Haemorrhagic Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	473	59	75	35	61	39	12	17	1	13	14	7	3	1	9	2	8	1	22	15	79
Yersiniosis	919	32	110	94	61	62	29	70	12	13	29	4	17	38	82	4	8	7	171	15	61
Total	16627	689	1818	1450	1500	1364	403	663	186	493	1600	219	578	411	1102	145	467	111	1886	260	1282

¹ These data are provisional.

² Further data are available from the local Medical Officer of Health.

³ 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.

National Notifiable Disease Surveillance Data June 2017

	Current Year - 2017 ¹			Previous Year - 2016		
Disease	June 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	June 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	369	2766	160.7	334	2681	136.5
Cryptosporidiosis	81	362	23.4	48	324	18.8
Dengue fever	15	71	2.9	21	125	3.5
Gastroenteritis ³	32	176	9.4	43	247	11.2
Giardiasis	162	864	33.9	121	890	35.5
Haemophilus influenzae type b	2	2	0.1	0	1	0
Hepatitis A	0	22	0.9	1	17	0.8
Hepatitis B ⁴	8	21	0.9	1	12	0.7
Hepatitis C ⁴	4	16	0.6	0	17	0.8
Invasive pneumococcal disease	60	201	10.6	48	181	10.1
Legionellosis	12	141	5.3	15	140	6.4
Leptospirosis	23	91	3	6	33	1.3
Listeriosis	3	10	0.5	3	22	0.8
Malaria	1	17	0.5	3	18	0.8
Measles	0	14	0.5	32	93	2
Meningococcal disease	13	35	1.8	4	24	1.5
Mumps	48	183	4.3	0	2	0.3
Paratyphoid fever	1	15	0.6	3	20	0.7
Pertussis	133	654	26.4	72	507	27
Rheumatic fever ⁵	13	80	2.9	15	79	2.8
Rickettsial disease	0	1	0	1	4	0.2
Rubella	0	0	0	0	3	0.1
Salmonellosis	73	592	23.1	66	601	23.2
Shigellosis	14	112	4.5	12	74	2.6
Tuberculosis disease	24	158	6.4	27	152	6.4
Typhoid fever	3	48	1.3	4	27	1.2
VTEC/STEC infection	34	322	10.1	15	267	9.9
Yersiniosis	65	407	19.6	54	346	16.3

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including June 2017) or the previous year (12 months up to and including June 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 June: Chikungunya fever (1) , Leprosy (1) , Ross River virus infection (2) , Zika virus (1)