
MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by Public Health Service (PHS) staff as at 19 July 2016. 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

Chikungunya fever: One confirmed case of chikungunya fever was notified in June 2016 compared to three confirmed and one probable case notified during the same month of the previous year. Fifteen cases have been notified in the year to date compared to 44 at the same time in the previous year. The case was in the 20–29 years age group, from Waitemata DHB and travelled to Fiji during the incubation period for the disease.

Dengue fever: 21 cases of dengue fever (19 confirmed and 2 probable) were notified in June 2016 compared to five cases notified during the same month of the previous year. All cases had been overseas during the incubation period, and countries visited included Indonesia (13 cases), Fiji (3 cases), Samoa (2 cases), Cook Islands, French Polynesia and Papua New Guinea (1 case each). One interim dengue fever outbreak was created in June (case numbers yet to be determined, cases had travelled to Indonesia).

Leptospirosis: Eight cases of leptospirosis (4 confirmed and 4 under investigation) were notified in June compared to two cases notified during the same month of the previous year. Cases were reported from Northland (4 cases), Waikato (2 cases), Bay of Plenty and Southern (1 case each) DHBs. Cases were in the 60–69 years (3 cases), 20–29 years and 40–49 years (2 cases each), and 30–39 years (1 case) age groups. Occupational exposure risk factor information was recorded for 62.5% (5/8) of cases; three were farmers, one was a possum trapper and one was a pest controller. The *Leptospira* species was recorded for three cases; *L. Ballum* (3 cases) and *L. Canico* (1 case). One case had two species recorded.

Listeriosis: Three confirmed cases of listeriosis (2 non-perinatal and 1 perinatal) were notified in June 2016. The non-perinatal cases were in the 50–59 years and 60–69 years age groups, of European or Other ethnicity and from Waitemata and Capital & Coast DHBs, respectively. Risk factor information was recorded, and both had an underlying illness. The mother in the perinatal case was in the 15–19 years age group, of Pacific peoples ethnicity and from Counties Manukau DHB. Gestation information was recorded and the baby was delivered at 34 weeks and survived. The serotype was identified for all cases as *Listeria monocytogenes* serotype O4.

Measles: 34 cases of measles (32 confirmed and 2 under investigation) were notified in June 2016 compared to two cases notified during the same month of the previous year (Figure 1). Cases were reported from Waikato (22 cases), MidCentral (8 cases), Capital & Coast (2 cases), Counties Manukau and Whanganui (1 case each) DHBs. The highest number of cases were recorded in the 1–4 years (11 cases), 10–14 years and

15–19 years (7 cases each) age groups. All confirmed cases have been linked to the ongoing Waikato outbreak.

Meningococcal disease: Four confirmed cases of meningococcal disease were notified in June 2016 compared to nine cases notified during the same month of the previous year. Cases were reported from Counties Manukau, Waikato, Bay of Plenty and Capital & Coast DHBs (1 case each). Cases were reported in the 1–4 years (3 cases) and less than 1 year (1 case) age groups. All cases were hospitalised and no deaths were reported. All cases were laboratory confirmed and the strain types were as follows: group C (2 cases) and group B (2 cases, including 1 group B:P1.7-2,4).

Pertussis: 85 cases of pertussis (44 confirmed, 29 probable, 1 suspect and 11 under investigation) were notified in June 2016 compared to 93 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 in June (27.4 cases per 100,000) was higher than at the same time in the previous year (20.8 per 100,000). Four cases were hospitalised and no deaths were reported. Thirty-eight percent (37/84) of cases were laboratory-confirmed (5 by culture, 26 by PCR, and 6 by culture and PCR). The highest number of cases was reported from Canterbury DHB (38 cases). Cases ranged in age from 1 month to 79 years, with 15.5% (13/84) under 5 years of age (including 8 cases aged less than 1 year). The highest numbers of cases were in the 5–9 years (18 cases), 40–49 years and 50–59 years (12 cases each) age groups. Three finalised *B. pertussis* outbreaks (9 cases total) and one interim outbreak (case numbers yet to be determined) were created in June. The interim outbreak was in Canterbury.

Rickettsial disease: One case of rickettsial disease was notified in June 2016. After further investigation, the case has been updated to a confirmed case of murine typhus. The case was a female in the 50–59 years age group from Waikato DHB and was hospitalised. Overseas travel during the incubation period for the disease was not reported.

Ross River virus infection: One case of Ross River virus infection (under investigation) was notified in June 2016. The case was a female in the 60–69 years age group from West Coast DHB. The case reported overseas travel to Australia during the incubation period for the disease.

Taeniasis: One confirmed case of taeniasis was notified in June 2016. The case was a male in the 50–59 years age group from Counties Manukau DHB. The case reported overseas travel to Thailand during the incubation period for the disease.

Typhoid fever: Four confirmed cases of typhoid fever were notified in June 2016 compared to two cases notified during the same month of the previous year. Cases were reported from Auckland (2 cases), Bay of Plenty and Capital & Coast (1 case each) DHBs. Cases were in the 20–29 years (2 cases), 50–59 years and 70 years and over (1 case each) age groups. Three cases were hospitalised. All cases were lab confirmed and the species was recorded as *Salmonella* Typhi. Overseas travel information was recorded for 75.0% (3/4) cases, of which 2 cases reported travelling during the incubation period for the disease. Countries visited were India and Pakistan (1 case each).

VTEC/STEC infection: 20 confirmed cases of VTEC/STEC infection were notified in June compared to 11 cases confirmed during the same month of the previous year (Figure 2). The 12-month rate in June (10.2 cases per 100,000) was notably higher than at the same time in the previous year (5.0 per 100,000). Cases were reported from Counties Manukau (4 cases), Waitemata (3 cases), Auckland, Waikato and Lakes (2 cases each), Northland, Bay of Plenty, Hawke's Bay, MidCentral, Nelson Marlborough, Canterbury and Southern (1 case each) DHBs. Cases ranged in age from 11 months to 74 years, with the highest numbers of cases in the 1–4 years and 40–49 years age groups (4 cases each). Six cases were hospitalised. Thirteen 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 (8 cases) and non-O157 (5 cases). Of the cases for which risk factor information was recorded, 50.0% (7/14) had contact with animals, 33.3% (3/9) had contact with children in nappies, and 23.1% (3/13) had contact with a person with similar symptoms. The increase in notifications for DHBs in the Auckland region may be due to a change in laboratory methods in July 2015; all faecal specimens are now screened for VTEC/STEC using PCR.

Yersiniosis: 56 cases of yersiniosis (54 confirmed and 2 under investigation) were notified in June 2016 compared to 31 cases notified in the same month of the previous year. After further investigation two cases have since been found not to meet the case criteria. The highest numbers of cases were reported from Waitemata (12 cases) and Canterbury (8 cases) DHBs. Cases ranged in age from 4 months to 86 years, with the highest numbers of cases in the 1–4 years and 20–29 years age groups (10 cases each). Two cases were hospitalised. The *Yersinia* species involved was identified for 88.9% (48/54) cases; all were *Y. enterocolitica*. The most common biotypes reported were *Y. enterocolitica* biotype 2 (32 cases), 1A (7 cases) and 4 (6 cases). Among the cases for which risk factor information was recorded, 50.0% (11/22) had consumed food from a food premises, 31.8% (7/22) had contact with faecal matter or vomit, and 20.7% (6/29) had contact with farm animals.

Zika virus infection: Two confirmed cases of zika virus infection were notified in June 2016. Cases were reported in the 15–19 years and 50–59 years age groups (1 case each) and both were confirmed by PCR. Both cases travelled during the incubation period for the disease, and countries visited were Fiji (1 case), Nicaragua and the United States of America (1 case).

2. Outbreaks

During June 2016, a total of 58 outbreaks (28 final and 30 interim) were created in EpiSurv (Table 1 and Table 2). Forty-three (74.1%) were outbreaks of acute gastroenteritis (17 finalised and 26 interim) involving 359 cases in total. This compares with 29 acute gastroenteritis outbreaks involving 568 cases in total created during the same month of the previous year. Of the 43 acute gastroenteritis outbreaks, the pathogens were recorded as: norovirus (10 outbreaks), histamine (scombroid) fish poisoning, norovirus/astrovirus, rotavirus, and sapovirus (1 outbreak each). The most commonly reported mode of transmission in acute gastroenteritis outbreaks (46.5%, 20/43) was person-to-person (16 primary and 4 secondary). Of the outbreaks that had an exposure setting recorded (76.7%, 33/43) the most commonly reported settings were long term care facilities (16 outbreaks) and childcare centres (9 outbreaks).

Table 1. Summary of final outbreaks created in EpiSurv during June 2016

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
Astrovirus ¹	Canterbury	1	22
<i>Bordetella pertussis</i>	Waikato, Bay of Plenty	3	9
Gastroenteritis	Auckland, Waikato, Lakes, Bay of Plenty, Hawke's Bay Capital & Coast	9	82
<i>Giardia</i>	Northland, Waitemata, Counties Manukau, Bay of Plenty Hawke's Bay	5	20
Histamine (scombroid) fish poisoning	Capital & Coast Hawke's Bay, Capital & Coast	1	3
Norovirus ^{1,2}	Canterbury	6	152
<i>Salmonella</i> ³	Waitemata, Bay of Plenty	2	5
Sapovirus	Lakes	1	23
VTEC/STEC	Waikato	1	2
Total		28	296

¹ Outbreak involved more than one pathogen therefore individual pathogen outbreak numbers may not sum to group totals.

² Includes outbreak reported to PHSs prior to June 2016: norovirus (1) reported in May.

³ Includes outbreak with an overseas exposure transmission (Thailand).

Table 2. Summary of interim outbreaks created in EpiSurv during June 2016

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i> ²	Canterbury	1	-
<i>Campylobacter</i> ^{1, 2}	MidCentral	1	-
Dengue fever ³	Waikato	1	3
Gastroenteritis ²	Northland, Waitemata, Auckland, Counties Manukau Waikato, Hawke's Bay Hutt Valley, Nelson Marlborough West Coast, Canterbury, Southern	20	90
<i>Mycobacterium tuberculosis</i>	Counties Manukau	1	2
Norovirus ²	Counties Manukau, Taranaki Nelson Marlborough, Canterbury Southern	5	9
Rotavirus ²	Hutt Valley	1	-
Total		30	104

¹ Includes outbreak reported to PHSs prior to June 2016: *Campylobacter* (1) reported in May.

² Interim outbreak(s) where total number of cases had not been completed.

³ Includes outbreak with an overseas exposure transmission (Indonesia).

3. Deaths from notifiable diseases

Two deaths, where the primary cause of death was a notifiable disease, were reported in June 2016 (Table 3).

Table 3. Summary of deaths from notifiable diseases reported during June 2016

Disease	District health board	Age group (years)
Invasive pneumococcal disease	Waikato	50–59
Invasive pneumococcal disease	Waitemata	60–69

4. Trends in selected diseases to June 2016

Figure 1. Measles notifications by month, January 2009–June 2016

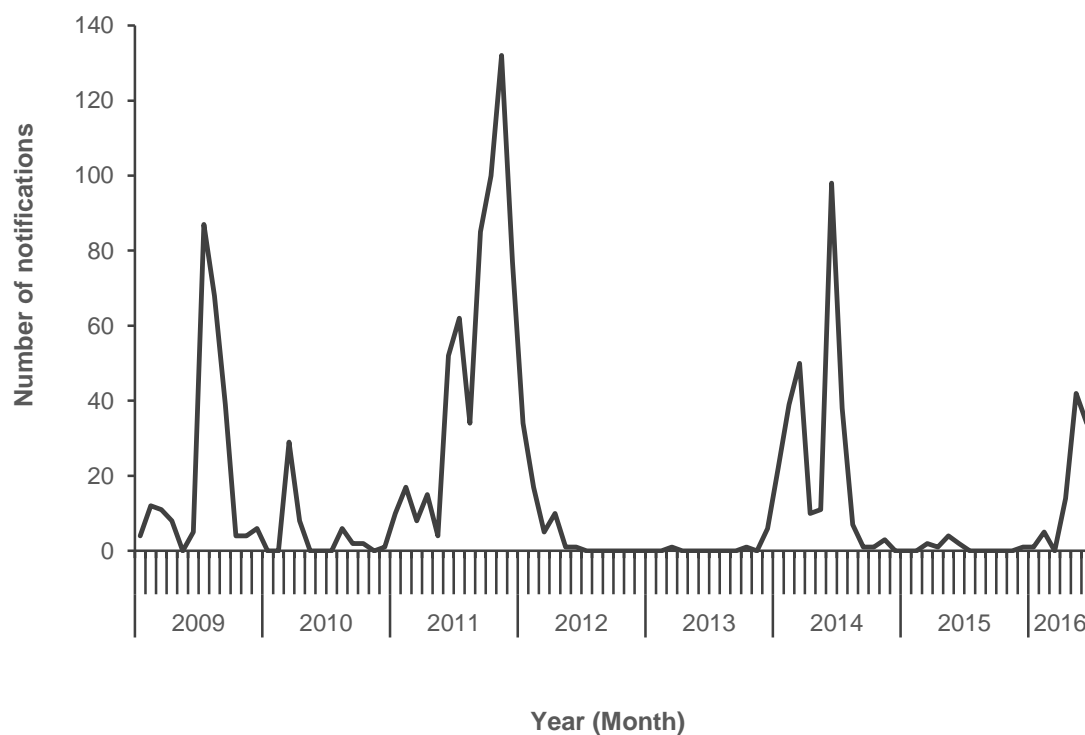
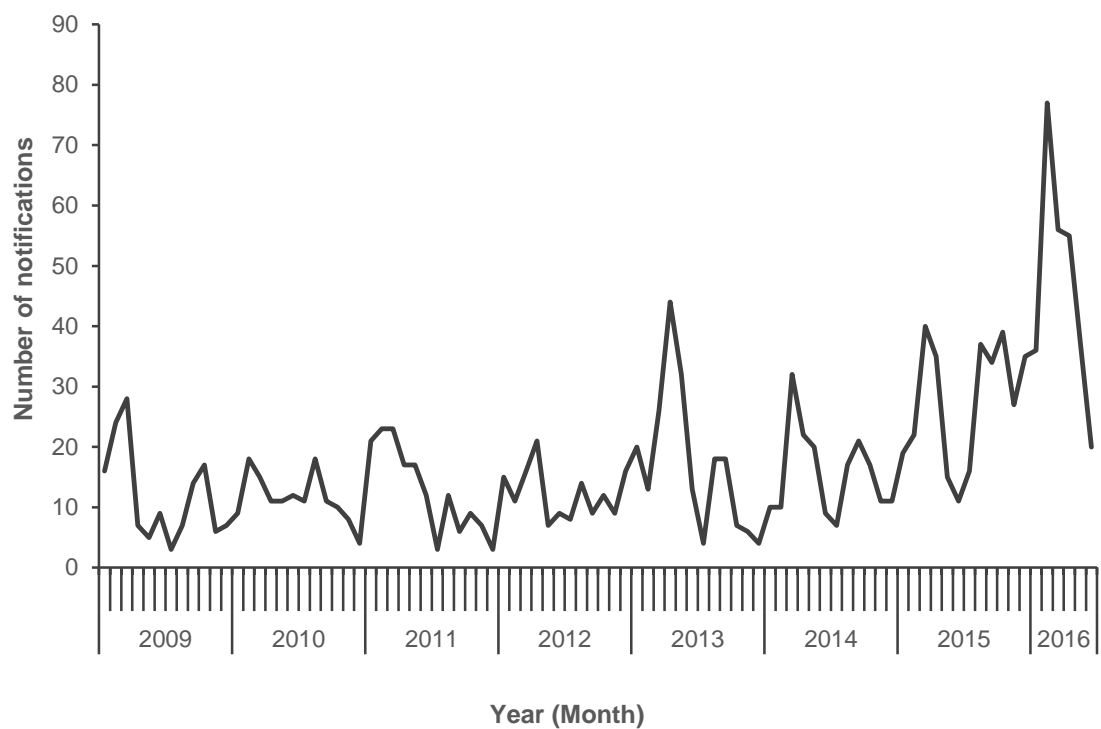


Figure 2. VTEC/STEC notifications by month, January 2009–June 2016



5. Data tables

National Notifiable Disease Surveillance Data June 2016

Disease	Current Year - 2016 ¹			Previous Year - 2015		
	June 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	June 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	334	2681	136.5	371	2626	142.1
Cryptosporidiosis	48	324	18.8	22	158	13.1
Dengue fever	21	125	3.5	5	87	3.3
Gastroenteritis ³	42	250	11.3	39	235	15.3
Giardiasis	121	890	35.5	114	769	34.1
Haemophilus influenzae type b	1	2	0	2	3	0.1
Hepatitis A	2	19	0.9	3	25	1.3
Hepatitis B ⁴	4	15	0.7	1	16	0.8
Hepatitis C ⁴	3	22	0.9	3	16	0.6
Invasive pneumococcal disease	48	182	10.2	50	164	10.2
Legionellosis	16	142	6.5	18	92	3.7
Leptospirosis	8	41	1.5	2	37	1.6
Listeriosis	3	23	0.8	4	12	0.5
Malaria	3	18	0.8	2	17	0.9
Measles	34	96	2.1	2	9	1.3
Meningococcal disease	4	24	1.5	9	18	1
Mumps	1	4	0.3	1	3	0.3
Paratyphoid fever	2	19	0.7	1	20	0.6
Pertussis	85	527	27.4	93	435	20.8
Rheumatic fever ⁵	15	82	2.8	14	64	3.7
Rickettsial disease	1	5	0.2	2	3	0.2
Rubella	0	3	0.1	0	0	0.1
Salmonellosis	68	603	23.2	58	588	23.3
Shigellosis	14	76	2.6	7	67	2.8
Tuberculosis disease	29	159	6.6	22	152	6.6
Typhoid fever	4	28	1.2	2	17	0.8
Viral Haemorrhagic Fever	0	1	0	0	0	0
VTEC/STEC infection	20	281	10.2	11	142	5
Yersiniosis	56	350	16.4	31	232	15.8

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including June 2016) or the previous year (12 months up to and including June 2015), 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), Hepatitis NOS (2), Ross River virus infection (1), Taeniasis (1), Zika virus (2).

Notifiable Disease Surveillance Data by District Health Board June 2016

Disease		Cases ¹ and current rate ² for June 2016 by District Health Board ³																			
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawkes Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	6	37	32	26	23	9	21	6	5	16	8	20	7	33	4	9	5	34	4	29
	Rate	164	141.9	107.8	95.3	159.2	143.1	103.4	130.8	195	175.7	140.6	130.2	125.7	120.9	145.8	138.8	223.2	137.4	235.5	168.5
Cryptosporidiosis	Cases	6	11	4	6	5	0	0	0	1	0	0	0	2	1	1	2	0	6	1	2
	Rate	31.5	22.4	17.1	18	33	10.5	6.8	16.9	19	17.4	19.2	27.3	8.3	8.3	32.4	9	12.2	15.8	25.6	20.4
Dengue fever	Cases	0	1	0	2	5	0	3	0	1	1	0	1	0	1	1	0	0	5	0	0
	Rate	0.6	3.5	4.9	6.9	2.8	1	2.7	8.4	1.7	3.1	0	1.7	2.1	6.3	2.3	3.5	0	2.9	0	2.2
Gastroenteritis	Cases	0	8	14	3	1	1	2	0	0	1	1	1	5	1	0	1	0	1	0	2
	Rate	0	10.4	23.9	8.8	3.1	16.2	12.6	4.2	7.8	1.9	17.6	27.3	19.4	24.2	20.8	3.5	9.2	5.3	1.7	6.1
Giardiasis	Cases	5	18	4	10	9	5	9	7	3	8	0	1	6	12	1	2	0	13	0	8
	Rate	39.2	34.6	41	36.6	29.4	59.2	33.9	128.7	31.9	52.3	19.2	16.9	20.1	48.5	30.1	37.3	24.5	30.6	25.6	23.2
Haemophilus influenzae type b	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	2.4	1.6	1.2	1.5	0	0	0.9	0	0	0	0	1.2	0.7	0.7	0	1.4	0	0.6	0	0.6
Hepatitis B	Cases	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	1.2	0.5	1.6	0.4	0.5	1.9	0.5	0	2.6	0.6	0	0.6	0.7	1	0	0	0	0.6	0	0.3
Hepatitis C	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	Rate	3	0.3	0.2	0	0	0	0	0	3.5	1.2	0	0	1.4	0.7	2.3	4.1	3.1	1.5	5.1	1.3
Invasive pneumococcal	Cases	3	7	4	7	3	2	5	1	0	0	0	1	0	2	1	1	0	5	1	5
	Rate	19	6.4	9.2	13.6	9.7	21	14	21.1	5.2	9.3	8	8.1	8.3	10	13.9	6.9	9.2	8.4	11.9	9.9
Legionellosis	Cases	3	1	1	5	1	0	4	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	14.9	8.3	5.5	6.3	5.9	2.9	13.1	0	3.5	5.6	1.6	9.9	4.9	4	9.3	4.1	6.1	6.3	5.1	3.8
Leptospirosis	Cases	4	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	5.3	0.2	0	1	3.3	1.9	1.8	0	4.3	6.2	1.6	1.7	0	0.3	0	0.7	6.1	0.4	1.7	2.2
Listeriosis	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0	0.9	0.8	1.2	0.5	0	2.3	0	0	0.6	1.6	0	2.1	0.7	2.3	2.1	0	0.4	0	0.6
Malaria	Cases	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1	2.2	1.2	0.3	0	0.9	0	0	1.2	0	0.6	1.4	0.3	2.3	1.4	0	0.4	0	0.3
Measles	Cases	0	0	0	1	22	0	0	0	0	0	1	8	0	2	0	0	0	0	0	0
	Rate	3.6	0.2	0.2	1.2	14.1	0	0	0	0	0	1.6	12.2	0	0.7	0	2.1	0	0.2	0	0
Meningococcal disease	Cases	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	3	1.9	0.2	1.9	1	1	1.8	2.1	1.7	1.9	1.6	1.2	0	2.7	2.3	0.7	3.1	0.6	1.7	3.2
Mumps	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	0.3	0	0.4	0	0	0	2.1	1.7	0.6	0	0.6	0	0.3	0	0	0	0	0	0.3
Paratyphoid fever	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.5	1.2	1.2	0	1	0.5	0	0	1.9	0	0	0	1	4.6	0.7	0	1	0	0.6
Pertussis	Cases	0	3	3	5	6	6	4	0	7	0	0	0	2	2	0	6	0	39	1	1
	Rate	8.9	17.5	14.9	19.7	34.6	15.3	13.1	2.1	22.4	10.6	41.5	11.6	15.3	24.2	4.6	52.5	0	68.4	10.2	50.6
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	1	3	9	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	2.1	5.1	9	1.8	6.7	2.7	4.2	0.9	2.5	0	2.3	2.1	1.3	0	0	0	0.6	0	0.6
Rickettsial disease	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.2	0	0	0.5	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	0.2	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.2	0	0
Salmonellosis	Cases	3	11	5	8	8	0	5	0	2	1	1	3	2	1	1	2	0	8	2	5
	Rate	20.8	21	21.6	12.1	19.7	20	17.2	124.5	20.7	19.3	6.4	25.6	20.8	19.6	25.5	18.6	24.5	25.7	54.6	44.9
Shigellosis	Cases	0	4	3	3	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
	Rate	1.2	4	4.7	5.8	2	1	1.4	0	0	0.6	0	0.6	1.4	2.3	0	0.7	0	2.3	0	1.9
Tuberculosis disease	Cases	0	5	6	5	4	0	2	0	0	2	0	0	0	2	0	0	0	2	0	1
	Rate	1.2	6.4	11	12.3	7.7	4.8	4.5	2.1	3.5	9.3	4.8	4.1	2.8	6.6	0	2.1	3.1	6.7	0	2.5
Typhoid fever	Cases	0	0	2	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0	0.3	3.1	4.6	1	0	1.8	0	0	0	0	0.6	0	0.3	0	1.4	0	0	0	0.3
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	1	3	2	4	2	2	1	0	0	1	0	1	0	0	0	1	0	1	0	1
	Rate	27.9	18.9	12	15.7	12.8	6.7	10.4	0	8.6	1.2	3.2	2.9	2.8	1.3	0	6.9	9.2	5.5	1.7	7
Yersiniosis	Cases	1	12	4	6	7	2	0	0	0	0	0	0	0	6	2	0	1	8	2	5
	Rate	7.7	13.4	15.3	12.5	12.5	19.1	11.3	21.1	13.8	7.5	12.8	7.6	21.5	28.9	9.3	4.1	21.4	32.9	32.4	13.4

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including June 2016 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 June 2016

Disease	Current Year - 2016 ¹			Previous Year - 2015		
	June 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	June 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	334	2681	136.5	371	2626	142.1
Cryptosporidiosis	48	324	18.8	22	158	13.1
Dengue fever	21	125	3.5	5	87	3.3
Gastroenteritis ³	42	250	11.3	39	235	15.3
Giardiasis	121	890	35.5	114	769	34.1
Haemophilus influenzae type b	1	2	0	2	3	0.1
Hepatitis A	2	19	0.9	3	25	1.3
Hepatitis B ⁴	4	15	0.7	1	16	0.8
Hepatitis C ⁴	3	22	0.9	3	16	0.6
Invasive pneumococcal disease	48	182	10.2	50	164	10.2
Legionellosis	16	142	6.5	18	92	3.7
Leptospirosis	8	41	1.5	2	37	1.6
Listeriosis	3	23	0.8	4	12	0.5
Malaria	3	18	0.8	2	17	0.9
Measles	34	96	2.1	2	9	1.3
Meningococcal disease	4	24	1.5	9	18	1
Mumps	1	4	0.3	1	3	0.3
Paratyphoid fever	2	19	0.7	1	20	0.6
Pertussis	85	527	27.4	93	435	20.8
Rheumatic fever ⁵	15	82	2.8	14	64	3.7
Rickettsial disease	1	5	0.2	2	3	0.2
Rubella	0	3	0.1	0	0	0.1
Salmonellosis	68	603	23.2	58	588	23.3
Shigellosis	14	76	2.6	7	67	2.8
Tuberculosis disease	29	159	6.6	22	152	6.6
Typhoid fever	4	28	1.2	2	17	0.8
Viral Haemorrhagic Fever	0	1	0	0	0	0
VTEC/STEC infection	20	281	10.2	11	142	5
Yersiniosis	56	350	16.4	31	232	15.8

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including June 2016) or the previous year (12 months up to and including June 2015), 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), Hepatitis NOS (2), Ross River virus infection (1), Taeniasis (1), Zika virus (2).

National Notifiable Disease Surveillance Data – Monthly totals for June 2016 and preceding 11 Months¹

Disease	Jun 2016	May 2016	Apr 2016	Mar 2016	Feb 2016	Jan 2016	Dec 2015	Nov 2015	Oct 2015	Sep 2015	Aug 2015	Jul 2015
Campylobacteriosis	334	391	364	418	454	720	756	779	579	570	488	420
Cryptosporidiosis	48	77	65	51	42	41	32	66	163	175	79	23
Dengue fever	21	19	8	21	41	15	6	6	7	4	8	7
Gastroenteritis ²	42	35	44	51	42	36	66	50	27	54	28	43
Giardiasis	121	129	144	182	181	133	112	139	120	123	137	110
Haemophilus influenzae type b	1	0	0	0	0	1	0	0	0	0	0	0
Hepatitis A	2	8	1	4	2	2	3	5	7	0	5	2
Hepatitis B ³	4	3	3	1	4	0	2	2	5	4	4	1
Hepatitis C ³	3	3	4	4	3	5	1	5	4	4	2	3
Invasive pneumococcal disease	48	45	28	24	13	24	34	47	44	42	55	65
Legionellosis	16	18	23	23	21	41	50	42	30	16	7	11
Leptospirosis	8	10	9	5	5	4	2	7	7	0	2	8
Listeriosis	3	4	5	6	2	3	4	3	1	3	0	3
Malaria	3	4	1	3	4	3	6	1	2	5	4	3
Measles	34	42	14	0	5	1	1	0	0	0	0	0
Meningococcal disease	4	8	2	3	1	6	5	4	6	11	15	5
Mumps	1	1	1	1	0	0	1	0	2	3	2	2
Paratyphoid fever	2	1	5	5	4	2	3	3	3	2	1	2
Pertussis	85	74	78	81	84	125	88	109	92	181	161	102
Rheumatic fever ⁴	15	24	15	9	9	10	6	9	9	4	7	13
Rickettsial disease	1	1	1	0	0	2	0	0	1	2	2	0
Rubella	0	1	0	1	1	0	0	0	0	0	0	0
Salmonellosis	68	81	107	102	133	112	79	72	96	94	58	64
Shigellosis	14	10	11	9	15	17	4	8	10	10	7	5
Tuberculosis disease	29	31	26	22	28	23	30	27	22	23	20	22
Typhoid fever	4	2	5	5	5	7	7	9	3	1	3	3
Viral Haemorrhagic Fever	0	0	0	0	0	1	0	0	0	0	0	0
VTEC/STEC infection	20	37	55	56	77	36	35	27	39	34	37	16
Yersiniosis	56	68	77	46	41	62	41	116	68	63	68	46

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.

Notifiable Disease Surveillance Data by District Health Board June 2016

		Cases ¹ and current rate ² for June 2016 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
Disease																					
Campylobacteriosis	Cases	6	37	32	26	23	9	21	6	5	16	8	20	7	33	4	9	5	34	4	29
	Rate	164	141.9	107.8	95.3	159.2	143.1	103.4	130.8	195	175.7	140.6	130.2	125.7	120.9	145.8	138.8	223.2	137.4	235.5	168.5
Cryptosporidiosis	Cases	6	11	4	6	5	0	0	0	1	0	0	0	2	1	1	2	0	6	1	2
	Rate	31.5	22.4	17.1	18	33	10.5	6.8	16.9	19	17.4	19.2	27.3	8.3	8.3	32.4	9	12.2	15.8	25.6	20.4
Dengue fever	Cases	0	1	0	2	5	0	3	0	1	1	0	1	0	1	1	0	0	5	0	0
	Rate	0.6	3.5	4.9	6.9	2.8	1	2.7	8.4	1.7	3.1	0	1.7	2.1	6.3	2.3	3.5	0	2.9	0	2.2
Gastroenteritis	Cases	0	8	14	3	1	1	2	0	0	1	1	1	5	1	0	1	0	1	0	2
	Rate	0	10.4	23.9	8.8	3.1	16.2	12.6	4.2	7.8	1.9	17.6	27.3	19.4	24.2	20.8	3.5	9.2	5.3	1.7	6.1
Giardiasis	Cases	5	18	4	10	9	5	9	7	3	8	0	1	6	12	1	2	0	13	0	8
	Rate	39.2	34.6	41	36.6	29.4	59.2	33.9	128.7	31.9	52.3	19.2	16.9	20.1	48.5	30.1	37.3	24.5	30.6	25.6	23.2
Haemophilus influenzae type b	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	2.4	1.6	1.2	1.5	0	0	0.9	0	0	0	0	1.2	0.7	0.7	0	1.4	0	0.6	0	0.6
Hepatitis B	Cases	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	1.2	0.5	1.6	0.4	0.5	1.9	0.5	0	2.6	0.6	0	0.6	0.7	1	0	0	0	0.6	0	0.3
Hepatitis C	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	Rate	3	0.3	0.2	0	0	0	0	0	3.5	1.2	0	0	1.4	0.7	2.3	4.1	3.1	1.5	5.1	1.3
Invasive pneumococcal disease	Cases	3	7	4	7	3	2	5	1	0	0	0	1	0	2	1	1	0	5	1	5
	Rate	19	6.4	9.2	13.6	9.7	21	14	21.1	5.2	9.3	8	8.1	8.3	10	13.9	6.9	9.2	8.4	11.9	9.9
Legionellosis	Cases	3	1	1	5	1	0	4	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	14.9	8.3	5.5	6.3	5.9	2.9	13.1	0	3.5	5.6	1.6	9.9	4.9	4	9.3	4.1	6.1	6.3	5.1	3.8
Leptospirosis	Cases	4	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	5.3	0.2	0	1	3.3	1.9	1.8	0	4.3	6.2	1.6	1.7	0	0.3	0	0.7	6.1	0.4	1.7	2.2
Listeriosis	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0	0.9	0.8	1.2	0.5	0	2.3	0	0	0.6	1.6	0	2.1	0.7	2.3	2.1	0	0.4	0	0.6
Malaria	Cases	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1	2.2	1.2	0.3	0	0.9	0	0	1.2	0	0.6	1.4	0.3	2.3	1.4	0	0.4	0	0.3
Measles	Cases	0	0	0	1	22	0	0	0	0	0	1	8	0	2	0	0	0	0	0	0
	Rate	3.6	0.2	0.2	1.2	14.1	0	0	0	0	0	1.6	12.2	0	0.7	0	2.1	0	0.2	0	0
Meningococcal disease	Cases	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	3	1.9	0.2	1.9	1	1	1.8	2.1	1.7	1.9	1.6	1.2	0	2.7	2.3	0.7	3.1	0.6	1.7	3.2
Mumps	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	0.3	0	0.4	0	0	0	2.1	1.7	0.6	0	0.6	0	0.3	0	0	0	0	0	0.3
Paratyphoid fever	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.5	1.2	1.2	0	1	0.5	0	0	1.9	0	0	0	1	4.6	0.7	0	1	0	0.6
Pertussis	Cases	0	3	3	5	6	6	4	0	7	0	0	0	2	2	0	6	0	39	1	1
	Rate	8.9	17.5	14.9	19.7	34.6	15.3	13.1	2.1	22.4	10.6	41.5	11.6	15.3	24.2	4.6	52.5	0	68.4	10.2	50.6
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	1	3	9	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	2.1	5.1	9	1.8	6.7	2.7	4.2	0.9	2.5	0	2.3	2.1	1.3	0	0	0	0.6	0	0.6
Rickettsial disease	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.2	0	0	0.5	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	0.2	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.2	0	0
Salmonellosis	Cases	3	11	5	8	8	0	5	0	2	1	1	3	2	1	1	2	0	8	2	5
	Rate	20.8	21	21.6	12.1	19.7	20	17.2	124.5	20.7	19.3	6.4	25.6	20.8	19.6	25.5	18.6	24.5	25.7	54.6	44.9
Shigellosis	Cases	0	4	3	3	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
	Rate	1.2	4	4.7	5.8	2	1	1.4	0	0	0.6	0	0.6	1.4	2.3	0	0.7	0	2.3	0	1.9
Tuberculosis disease	Cases	0	5	6	5	4	0	2	0	0	2	0	0	0	2	0	0	0	2	0	1
	Rate	1.2	6.4	11	12.3	7.7	4.8	4.5	2.1	3.5	9.3	4.8	4.1	2.8	6.6	0	2.1	3.1	6.7	0	2.5
Typhoid fever	Cases	0	0	2	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0	0.3	3.1	4.6	1	0	1.8	0	0	0	0	0.6	0	0.3	0	1.4	0	0	0	0.3
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	1	3	2	4	2	2	1	0	0	1	0	1	0	0	0	1	0	1	0	1
	Rate	27.9	18.9	12	15.7	12.8	6.7	10.4	0	8.6	1.2	3.2	2.9	2.8	1.3	0	6.9	9.2	5.5	1.7	7
Yersiniosis	Cases	1	12	4	6	7	2	0	0	0	0	0	0	0	6	2	0	1	8	2	5
	Rate	7.7	13.4	15.3	12.5	12.5	19.1	11.3	21.1	13.8	7.5	12.8	7.6	21.5	28.9	9.3	4.1	21.4	32.9	32.4	13.4

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including June 2016 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.