
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 15 August 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.

Table of contents

1. Key notifiable disease trends	1
2. Outbreaks	3
3. Deaths from notifiable diseases	4
4. Trends in selected diseases to July 2016	5
5. Data tables	6

1. Key notifiable disease trends

Chikungunya fever: Two confirmed cases of chikungunya fever were notified in July 2016 compared to two cases notified during the same month of the previous year. Seventeen cases have been notified in the year to date compared to 46 at the same time in the previous year. The cases were both female, in the 30–39 years and 40–49 years age groups, from Bay of Plenty and Southern DHBs, respectively. Both cases had travelled during the incubation period for the disease; countries visited were Tonga (1 case), Brazil and Argentina (1 case).

Cryptosporidiosis: 51 confirmed cases of cryptosporidiosis were notified in July 2016 compared to 23 cases notified during the same month of the previous year. The 12-month rate in July (19.4 cases per 100,000) was higher than at the same time in the previous year (12.8 per 100,000). The highest numbers of cases were reported from Capital & Coast (11 cases), Waitemata (10 cases) and Auckland (7 cases) DHBs. Cases ranged in age from 9 months to 74 years, with the highest numbers of cases in the 30–39 years (11 cases), 1–4 years and 20–29 years (9 cases each) age groups. Among the cases for which risk factor information was recorded, 44.4% (12/27) had recreational contact with water, 41.7% (10/24) had consumed food from a food premises, 39.3% (11/28) had contact with farm animals, 21.4% (6/28) had attended school, preschool or childcare, and 20.0% (5/25) had contact with faecal matter or vomit during the incubation period for the disease. One finalised *Cryptosporidium* outbreak (2 cases) and one interim outbreak (case numbers yet to be determined) were created in July.

Hydatid disease: One probable case of hydatid disease was notified in July 2016. The case was a female in the 30–39 years age group from Counties Manukau DHB. The case migrated from Tonga during childhood, and recent travel to Tonga was recorded.

Invasive pneumococcal disease: 60 cases of invasive pneumococcal disease (58 confirmed and 2 under investigation) were notified in July 2016 compared to 64 cases notified during the same month of the previous year. The highest numbers of cases were reported from Counties Manukau (13 cases), Waitemata and Auckland (8 cases each) DHBs. Cases ranged in age from 4 days to 98 years, with the highest number of cases in the 70+ years age group (24 cases). Forty-eight cases were hospitalised and four deaths were reported. Among the cases for which risk factor information was recorded, 63.8% (30/47) had a chronic illness, 21.7% (10/46) were immunocompromised and 20.5% (8/39) were smokers.

Legionellosis: Nine cases of legionellosis (4 confirmed, 1 probable and 4 under investigation) were notified in July 2016 compared to 18 cases notified during the previous month, and 11 during the same month of the previous year (Figure 1). Cases were reported from Northland (3 cases), Waitemata (2 cases), and Waikato, Capital & Coast, Canterbury and South Canterbury (1 case each) DHBs. The *Legionella* species was identified for seven cases as: *L. pneumophila* (5 cases) and *L. Longbeachae* (2 cases). The increase in notifications for the year to date compared to the same time in the previous year (cumulative total 152 in July 2016 compared to 103 in July 2015) may be due to the LegiNZ study, which began in May 2015 and involves 20 hospitals in 17 DHBs.

Listeriosis: One confirmed case of perinatal listeriosis was notified in July 2016. The mother was in the 30–39 years age group, of New Zealand European ethnicity and from Southern DHB. Gestation information was recorded, the baby was delivered at 29 weeks and survived. The serotype for the case was identified as *Listeria monocytogenes* serotype O4.

Measles: Seven cases of measles (5 confirmed and 2 under investigation) were notified in July 2016 compared to zero cases notified during the same month of the previous year (Figure 2). After further investigation, two cases have since been found not to meet the case criteria. Cases were reported from Waikato (3 cases), Capital & Coast and Hutt Valley (1 case each) DHBs. Cases were recorded in the less than 1 year (2 cases each), 1–4 years, 5–9 years and 15–19 years (1 case each) age groups. Immunisation information was recorded for 80.0% (4/5) of cases, of which one case (in the 15–19 years age group) was immunised and had received two doses of MMR vaccine. Three cases were linked to the ongoing Waikato outbreak, and two were exposed while on a family holiday in Indonesia.

Pertussis: 71 cases of pertussis (29 confirmed, 29 probable, 6 suspect and 7 under investigation) were notified in July 2016 compared to 102 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 July (26.6 cases per 100,000) was higher than at the same time in the previous year (20.7 per 100,000). Five cases were hospitalised and no deaths were reported. Forty-one percent (29/70) of cases were laboratory-confirmed (4 by culture, 24 by PCR, and 1 by culture and PCR). The highest numbers of cases were reported from Canterbury (17 cases) and Waitemata (13 cases) DHBs. Cases ranged in age from 3 months to 73 years, with 10.0% (7/70) under 5 years of age (including 2 cases aged less than 1 year). The highest number of cases was in the 20–29 years and 40–49 years age groups (12 cases each).

VTEC/STEC infection: 22 confirmed cases of VTEC/STEC infection were notified in July compared to 16 cases confirmed during the same month of the previous year. The 12-month rate in July 2016 (10.3 cases per 100,000) was notably higher than at the same time in the previous year (5.1 per 100,000). Cases were reported from Waitemata (6 cases), Counties Manukau (5 cases), Northland (4 cases), Auckland (3 cases), Bay of Plenty, MidCentral, Canterbury and Southern (1 case each) DHBs. Cases ranged in age from 13 months to 76 years, with the highest number of cases in the 1–4 years age group (6 cases). Three cases were hospitalised. Twenty-one 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 (6 cases) and non-O157 (15 cases). Of the cases for which risk factor information was recorded, 100.0% (7/7) had contact with animals, 42.9% (3/7) had contact with children in nappies, and 33.3% (3/9) 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: 60 confirmed cases of yersiniosis were notified in July 2016 compared to 46 cases notified in the same month of the previous year. The highest numbers of cases were reported from Southern (12 cases) and Canterbury (11 cases) DHBs. Cases ranged in age from 8 months to 85 years, with the highest number of cases in the 1–4 years, 30–39 years and 60–69 years age groups (9 cases each). Four cases were hospitalised. The *Yersinia* species involved was identified for 83.3% (50/60) cases; *Y. enterocolitica* (43 cases) and *Y. pseudotuberculosis* (7 cases). The most common *Y. enterocolitica* biotypes reported were biotype 2 (27 cases) and 1A (8 cases). Among the cases for which risk factor information was recorded, 56.5% (13/23) had consumed food from a food premises, 25.9% (7/27) had contact with farm animals, 14.8% (4/27) had recreational contact with water, and 8.7% (2/23) had contact with nappies during the incubation period for the disease. One interim *Yersinia* outbreak was created in July (case numbers yet to be determined).

2. Outbreaks

During July 2016, a total of 59 outbreaks (19 final and 40 interim) were created in EpiSurv (Table 1 and Table 2). Fifty (84.7%) were outbreaks of acute gastroenteritis (14 finalised and 36 interim) involving 413 cases in total. This compares with 28 acute gastroenteritis outbreaks involving 672 cases in total created during the same month of the previous year. Of the 50 acute gastroenteritis outbreaks, the pathogens were recorded as: norovirus (17 outbreaks), and sapovirus (1 outbreak). The most commonly reported mode of transmission in acute gastroenteritis outbreaks (46.0%, 23/50) was person-to-person (19 primary and 4 secondary). Of the outbreaks that had an exposure setting recorded (74.0%, 37/50) the most commonly reported settings were long term care facilities (21 outbreaks) and childcare centres (5 outbreaks).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Cryptosporidium</i> ²	Auckland	1	2
Gastroenteritis ¹	Waitemata, Lakes, Hawke's Bay, Capital & Coast, Southern	6	57
<i>Giardia</i> ¹	Auckland, Counties Manukau, Tairāwhiti	3	23
Influenza-like illness	Southern	1	13
Norovirus	Lakes, Hawke's Bay, MidCentral, Capital & Coast, Canterbury	7	151
Sapovirus	Canterbury	1	52
Total		19	298

¹ Includes outbreak reported to PHSs prior to July 2016: gastroenteritis (1) reported in May and *Giardia* (2), one reported in May and one reported June.

² Includes outbreak with an overseas exposure transmission (Thailand).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
Acute respiratory infection ²	South Canterbury	1	-
<i>Cryptosporidium</i> ¹	Auckland	1	2
Gastroenteritis ²	Northland, Waitemata, Auckland, Counties Manukau, Waikato, Taranaki, Capital & Coast, Canterbury, Southern	26	126
Norovirus ^{1,2}	Northland, Nelson Marlborough, West Coast, Canterbury	10	27
<i>Salmonella</i> ²	Waikato	1	-
<i>Yersinia</i> ¹	Waitemata	1	49
Total		40	204

¹ Includes outbreak reported to PHSs prior to July 2016: *Yersinia* (1) reported in May, *Cryptosporidium* (1) and norovirus (1) reported in June.

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

3. Deaths from notifiable diseases

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

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

Disease	District health board	Age group (years)
Invasive pneumococcal disease	Bay of Plenty	<1
Invasive pneumococcal disease	Counties Manukau	50–59
Invasive pneumococcal disease	Counties Manukau	70+
Invasive pneumococcal disease	Waikato	70+

4. Trends in selected diseases to July 2016

Figure 1. Legionellosis notifications by month, January 2009–July 2016

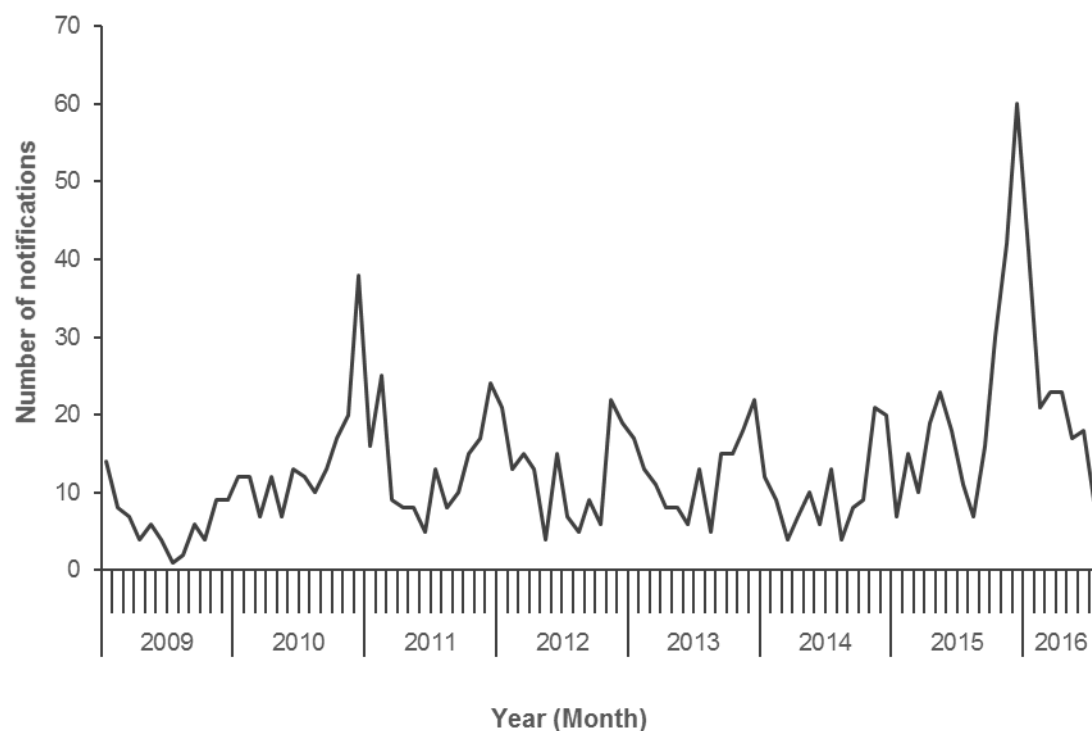
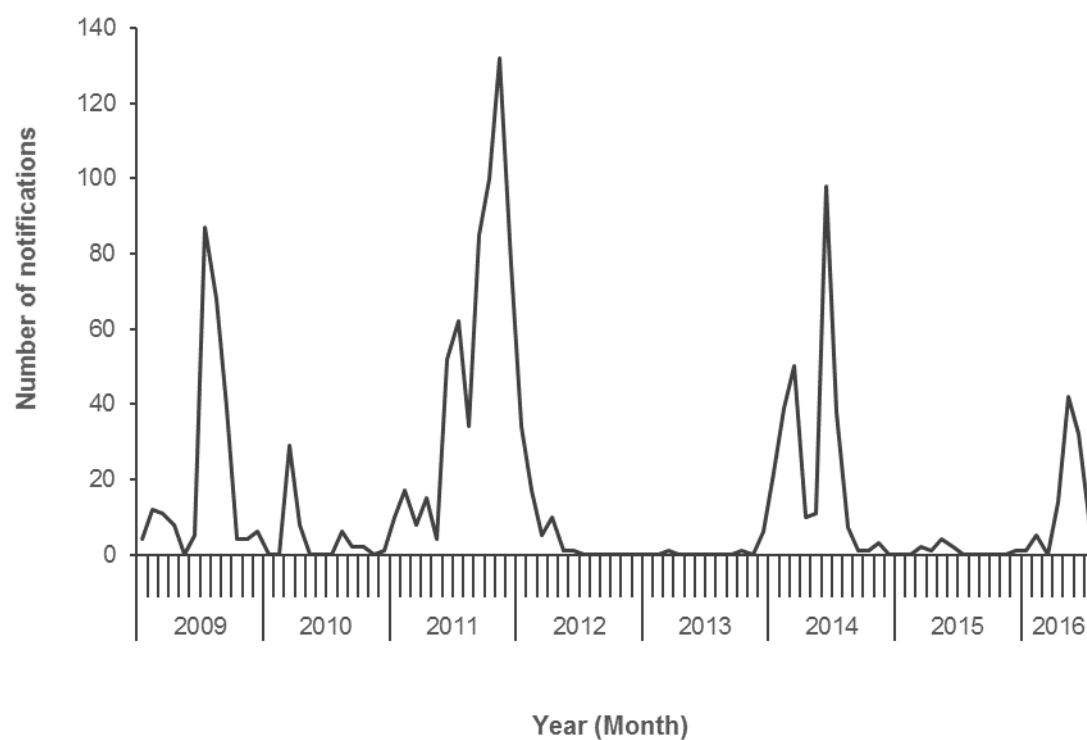


Figure 2. Measles notifications by month, January 2009–July 2016



5. Data tables

National Notifiable Disease Surveillance Data July 2016

Disease	Current Year - 2016 ¹			Previous Year - 2015		
	July 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	July 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	342	3023	134.8	420	3046	140.3
Cryptosporidiosis	51	375	19.4	23	181	12.8
Dengue fever	15	140	3.7	7	94	3.1
Gastroenteritis ³	53	302	11.5	43	278	14.8
Giardiasis	96	986	35.2	110	879	32.4
Haemophilus influenzae type b	2	4	0.1	0	3	0.1
Hepatitis A	5	24	1	2	27	1.2
Hepatitis B ⁴	8	23	0.9	1	17	0.7
Hepatitis C ⁴	2	22	0.8	3	19	0.6
Invasive pneumococcal disease	60	242	10.1	64	226	9.9
Legionellosis	9	152	6.5	11	103	3.6
Leptospirosis	11	51	1.5	8	45	1.5
Listeriosis	1	24	0.8	3	15	0.4
Malaria	2	20	0.8	3	20	0.8
Measles	7	101	2.2	0	9	0.5
Meningococcal disease	10	34	1.6	5	23	1
Mumps	1	3	0.2	2	5	0.3
Paratyphoid fever	1	21	0.7	2	22	0.6
Pertussis	71	591	26.6	102	537	20.7
Rheumatic fever ⁵	11	93	2.8	13	77	3.2
Rickettsial disease	0	5	0.2	0	3	0.2
Rubella	0	3	0.1	0	0	0
Salmonellosis	56	658	23	64	652	22.7
Shigellosis	8	82	2.6	5	72	2.6
Tuberculosis disease	23	177	6.5	21	174	6.6
Typhoid fever	1	28	1.1	3	20	0.7
Viral Haemorrhagic Fever	0	1	0	0	0	0
VTEC/STEC infection	22	301	10.3	16	158	5.1
Yersiniosis	60	408	16.6	46	278	15.7

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including July 2016) or the previous year (12 months up to and including July 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 July: Chikungunya fever (2), Hydatid disease (1).

Notifiable Disease Surveillance Data by District Health Board July 2016

		Cases ¹ and current rate ² for July 2016 by District Health Board ³																			
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Wairarapa	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	22	60	35	27	33	3	22	4	5	14	5	19	9	31	0	8	0	23	6	16
	Rate	162.8	141.9	106.9	93.5	156.9	141.2	107.9	128.7	189	174.5	140.6	134.2	117.4	119.2	134.3	135.4	208	134	235.5	165.6
Cryptosporidiosis	Cases	4	10	7	4	2	2	0	0	0	0	1	3	0	11	1	1	0	4	0	1
	Rate	32.7	23.1	18.4	18.6	32.5	11.5	6.8	16.9	18.1	17.4	20.8	29.1	6.9	12	32.4	9.7	12.2	16.2	25.6	20.1
Dengue fever	Cases	0	1	2	4	3	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.6	3.1	5.1	7.7	3.6	1	4.5	8.4	0.9	3.1	1.6	1.7	2.1	6	2.3	3.5	0	2.7	0	2.2
Gastroenteritis	Cases	5	8	9	7	2	3	0	0	4	0	1	4	0	3	0	0	2	4	0	1
	Rate	3	11.1	24.9	9.8	3.6	19.1	11.3	4.2	7.8	1.9	17.6	25	17.4	22.6	20.8	3.5	12.2	4.9	1.7	6.4
Giardiasis	Cases	3	18	15	11	8	2	3	1	1	4	1	1	1	6	0	3	1	12	1	4
	Rate	35.7	35.6	41	35.8	30.2	56.3	34.3	128.7	31.9	46.1	20.8	16.3	20.1	47.5	30.1	33.8	24.5	31.4	27.3	23.9
Haemophilus influenzae type b	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Rate	0	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	0
Hepatitis A	Cases	0	2	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
	Rate	2.4	1.7	1.2	1.7	0	0	0.9	0	0.9	0	0	0.6	0.7	0.7	0	2.1	0	0.6	0	0.6
Hepatitis B	Cases	0	0	0	2	1	0	2	0	0	1	1	0	0	0	0	0	0	0	0	1
	Rate	1.2	0.5	1.6	0.8	0.5	1.9	1.4	0	2.6	1.2	1.6	0.6	0.7	1	0	0	0	0.6	0	0.6
Hepatitis C	Cases	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	2.4	0.3	0.2	0	0	1	0	0	3.5	1.2	0	0	1.4	0.3	2.3	3.5	3.1	1.3	5.1	1.3
Invasive pneumococcal	Cases	2	8	8	13	6	2	4	0	0	2	1	0	2	2	0	0	0	5	3	2
	Rate	19	7.1	10	14.4	9.5	19.1	14.9	19	4.3	9.3	6.4	6.4	9	8.6	13.9	6.2	0	7.6	15.4	9.6
Legionellosis	Cases	3	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0
	Rate	16	8.5	5.5	6.1	6.1	2.9	12.2	0	3.5	5.6	1.6	9.9	4.9	3.7	9.3	2.8	6.1	6.3	6.8	3.8
Leptospirosis	Cases	5	0	0	1	2	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0
	Rate	8.3	0.2	0	1.2	3.8	1	1.4	0	3.5	5.6	1.6	1.7	0	0.3	0	0.7	6.1	0.6	1.7	1.3
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0	0.9	0.8	0.8	0.5	0	2.3	0	0	0.6	1.6	0	2.1	0.7	0	2.1	0	0.4	0	1
Malaria	Cases	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.2	2.2	1.2	0.3	0	0.9	0	0	1.2	0	0.6	1.4	0	2.3	0.7	0	0.4	0	0.3
Measles	Cases	0	0	1	0	4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	Rate	3.6	0.2	0.4	1.2	14.8	0	0	0	0	0	0	12.2	0.7	1	0	2.1	0	0.2	0	0
Meningococcal disease	Cases	0	0	0	3	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	Rate	2.4	1.6	0.2	2.5	1.5	1.9	2.7	2.1	1.7	1.9	1.6	1.2	0	2.3	2.3	0.7	3.1	0.4	1.7	3.8
Mumps	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	0.2	0	0.4	0	0	0	2.1	0.9	0.6	0	0	0	0.3	0	0	0	0	0	0.3
Paratyphoid fever	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.5	1.4	1.2	0	1	0.5	0	0	1.9	0	0	0	1	4.6	0	0	1	0	0.6
Pertussis	Cases	0	13	4	3	4	1	3	0	7	0	0	0	0	7	0	7	3	17	0	2
	Rate	7.1	17.5	14.9	18	34.3	16.2	13.5	2.1	27.6	10	41.5	10.5	14.6	25.2	4.6	50.4	9.2	67.9	8.5	41.7
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	0	2	2	1	0	0	1	0	0	1	0	0	1	2	0	0	0	1	0	0
	Rate	1.8	2.1	5.1	8.4	1.8	3.8	2.7	4.2	0.9	3.1	0	2.3	2.8	1.7	0	0	0	0.8	0	0.6
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	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	0	4	4	3	8	2	4	2	0	3	0	2	2	5	0	2	1	4	1	9
	Rate	19.6	20.7	20.8	12.1	20.7	20	16.3	128.7	18.1	19.3	6.4	24.4	21.5	19.9	23.1	18.6	27.5	24.3	56.3	46.2
Shigellosis	Cases	0	1	0	5	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	1.2	4	4.7	6.5	2.3	0	1.4	0	0	0.6	0	0.6	1.4	2.3	0	0.7	0	1.9	0	1.6
Tuberculosis disease	Cases	0	4	6	5	0	1	1	0	1	0	0	0	0	3	0	1	0	1	0	0
	Rate	0.6	6.6	11	11.7	7.9	5.7	4.5	2.1	2.6	9.3	4.8	4.1	2.1	7.6	0	2.1	3.1	6.1	0	2.2
Typhoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.3	2.9	4.2	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	4	6	3	5	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1
	Rate	30.3	19.5	11.8	15.5	12.3	6.7	10.4	0	8.6	1.2	3.2	3.5	2.8	1.3	0	6.9	9.2	5.3	1.7	7.3
Yersiniosis	Cases	2	8	5	4	2	1	2	0	1	1	0	0	4	5	0	0	0	11	2	12
	Rate	8.3	13.9	16.1	11.3	11.5	19.1	11.3	19	14.7	6.9	12.8	6.4	24.3	29.9	6.9	3.5	21.4	33.1	35.8	16.2

¹ These data are provisional.

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

Notifiable Disease Surveillance Data by District Health Board July 2016

		Cases ¹ and current rate ² for July 2016 by District Health Board ³																			
Disease		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	22	60	35	27	33	3	22	4	5	14	5	19	9	31	0	8	0	23	6	16
	Rate	162.8	141.9	106.9	93.5	156.9	141.2	107.9	128.7	189	174.5	140.6	134.2	117.4	119.2	134.3	135.4	208	134	235.5	165.6
Cryptosporidiosis	Cases	4	10	7	4	2	2	0	0	0	0	1	3	0	11	1	1	0	4	0	1
	Rate	32.7	23.1	18.4	18.6	32.5	11.5	6.8	16.9	18.1	17.4	20.8	29.1	6.9	12	32.4	9.7	12.2	16.2	25.6	20.1
Dengue fever	Cases	0	1	2	4	3	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.6	3.1	5.1	7.7	3.6	1	4.5	8.4	0.9	3.1	1.6	1.7	2.1	6	2.3	3.5	0	2.7	0	2.2
Gastroenteritis	Cases	5	8	9	7	2	3	0	0	4	0	1	4	0	3	0	0	2	4	0	1
	Rate	3	11.1	24.9	9.8	3.6	19.1	11.3	4.2	7.8	1.9	17.6	25	17.4	22.6	20.8	3.5	12.2	4.9	1.7	6.4
Giardiasis	Cases	3	18	15	11	8	2	3	1	1	4	1	1	1	6	0	3	1	12	1	4
	Rate	35.7	35.6	41	35.8	30.2	56.3	34.3	128.7	31.9	46.1	20.8	16.3	20.1	47.5	30.1	33.8	24.5	31.4	27.3	23.9
Haemophilus influenzae type b	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Rate	0	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	0
Hepatitis A	Cases	0	2	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
	Rate	2.4	1.7	1.2	1.7	0	0	0.9	0	0.9	0	0	0.6	0.7	0.7	0	2.1	0	0.6	0	0.6
Hepatitis B	Cases	0	0	0	2	1	0	2	0	0	1	1	0	0	0	0	0	0	0	0	1
	Rate	1.2	0.5	1.6	0.8	0.5	1.9	1.4	0	2.6	1.2	1.6	0.6	0.7	1	0	0	0	0.6	0	0.6
Hepatitis C	Cases	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	2.4	0.3	0.2	0	0	1	0	0	3.5	1.2	0	0	1.4	0.3	2.3	3.5	3.1	1.3	5.1	1.3
Invasive pneumococcal disease	Cases	2	8	8	13	6	2	4	0	0	2	1	0	2	2	0	0	0	5	3	2
	Rate	19	7.1	10	14.4	9.5	19.1	14.9	19	4.3	9.3	6.4	6.4	9	8.6	13.9	6.2	0	7.6	15.4	9.6
Legionellosis	Cases	3	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0
	Rate	16	8.5	5.5	6.1	6.1	2.9	12.2	0	3.5	5.6	1.6	9.9	4.9	3.7	9.3	2.8	6.1	6.3	6.8	3.8
Leptospirosis	Cases	5	0	0	1	2	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0
	Rate	8.3	0.2	0	1.2	3.8	1	1.4	0	3.5	5.6	1.6	1.7	0	0.3	0	0.7	6.1	0.6	1.7	1.3
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0	0.9	0.8	0.8	0.5	0	2.3	0	0	0.6	1.6	0	2.1	0.7	0	2.1	0	0.4	0	1
Malaria	Cases	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.2	2.2	1.2	0.3	0	0.9	0	0	1.2	0	0.6	1.4	0	2.3	0.7	0	0.4	0	0.3
Measles	Cases	0	0	1	0	4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
	Rate	3.6	0.2	0.4	1.2	14.8	0	0	0	0	0	0	12.2	0.7	1	0	2.1	0	0.2	0	0
Meningococcal disease	Cases	0	0	0	3	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	Rate	2.4	1.6	0.2	2.5	1.5	1.9	2.7	2.1	1.7	1.9	1.6	1.2	0	2.3	2.3	0.7	3.1	0.4	1.7	3.8
Mumps	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	0.2	0	0.4	0	0	0	2.1	0.9	0.6	0	0	0	0.3	0	0	0	0	0	0.3
Paratyphoid fever	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.5	1.4	1.2	0	1	0.5	0	0	1.9	0	0	0	1	4.6	0	0	1	0	0.6
Pertussis	Cases	0	13	4	3	4	1	3	0	7	0	0	0	0	7	0	7	3	17	0	2
	Rate	7.1	17.5	14.9	18	34.3	16.2	13.5	2.1	27.6	10	41.5	10.5	14.6	25.2	4.6	50.4	9.2	67.9	8.5	41.7
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	0	2	2	1	0	0	1	0	0	1	0	0	1	2	0	0	0	1	0	0
	Rate	1.8	2.1	5.1	8.4	1.8	3.8	2.7	4.2	0.9	3.1	0	2.3	2.8	1.7	0	0	0	0.8	0	0.6
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	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	0	4	4	3	8	2	4	2	0	3	0	2	2	5	0	2	1	4	1	9
	Rate	19.6	20.7	20.8	12.1	20.7	20	16.3	128.7	18.1	19.3	6.4	24.4	21.5	19.9	23.1	18.6	27.5	24.3	56.3	46.2
Shigellosis	Cases	0	1	0	5	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	1.2	4	4.7	6.5	2.3	0	1.4	0	0	0.6	0	0.6	1.4	2.3	0	0.7	0	1.9	0	1.6
Tuberculosis disease	Cases	0	4	6	5	0	1	1	0	1	0	0	0	0	3	0	1	0	1	0	0
	Rate	0.6	6.6	11	11.7	7.9	5.7	4.5	2.1	2.6	9.3	4.8	4.1	2.1	7.6	0	2.1	3.1	6.1	0	2.2
Typhoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.3	2.9	4.2	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	4	6	3	5	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1
	Rate	30.3	19.5	11.8	15.5	12.3	6.7	10.4	0	8.6	1.2	3.2	3.5	2.8	1.3	0	6.9	9.2	5.3	1.7	7.3
Yersiniosis	Cases	2	8	5	4	2	1	2	0	1	1	0	0	4	5	0	0	0	11	2	12
	Rate	8.3	13.9	16.1	11.3	11.5	19.1	11.3	19	14.7	6.9	12.8	6.4	24.3	29.9	6.9	3.5	21.4	33.1	35.8	16.2

¹ These data are provisional.

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

Notifiable Disease Surveillance Data for the 12 months ending July-2016 by District Health Board

Disease	Cases for the 12 months ending July 2016 ^{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
Campylobacteriosis	6195	274	817	524	488	613	148	239	61	219	280	88	231	169	359	58	196	68	705
Cryptosporidiosis	890	55	133	90	97	127	12	15	8	21	28	13	50	10	36	14	14	4	85
Dengue fever	171	1	18	25	40	14	1	10	4	1	5	1	3	3	18	1	5	0	14
Gastroenteritis	527	5	64	122	51	14	20	25	2	9	3	11	43	25	68	9	5	4	26
Giardiasis	1617	60	205	201	187	118	59	76	61	37	74	13	28	29	143	13	49	8	165
Haemophilus influenzae type b	4	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hepatitis A	44	4	10	6	9	0	0	2	0	1	0	0	1	1	2	0	3	0	3
Hepatitis B	40	2	3	8	4	2	2	3	0	3	2	1	1	1	3	0	0	0	3
Hepatitis C	38	4	2	1	0	0	1	0	0	4	2	0	0	2	1	1	5	1	7
Invasive pneumococcal disease	464	32	41	49	75	37	20	33	9	5	15	4	11	13	26	6	9	0	40
Legionellosis	297	27	49	27	32	24	3	27	0	4	9	1	17	7	11	4	4	2	33
Leptospirosis	69	14	1	0	6	15	1	3	0	4	9	1	3	0	1	0	1	2	3
Listeriosis	35	0	5	4	4	2	0	5	0	0	1	1	0	3	2	0	3	0	2
Malaria	38	1	7	11	6	1	0	2	0	0	2	0	1	2	0	1	1	0	2
Measles	102	6	1	2	6	58	0	0	0	0	0	0	21	1	3	0	3	0	1
Meningococcal disease	75	4	9	1	13	6	2	6	1	2	3	1	2	0	7	1	1	1	2
Mumps	11	3	1	0	2	0	0	0	1	1	1	0	0	0	1	0	0	0	0
Paratyphoid fever	33	0	3	7	6	0	1	1	0	0	3	0	0	0	3	2	0	0	5
Pertussis	1222	12	101	73	94	134	17	30	1	32	16	26	18	21	76	2	73	3	357
Q fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ³	128	3	12	25	44	7	4	6	2	1	5	0	4	4	5	0	0	0	4
Rickettsial disease	10	1	7	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Salmonellosis	1057	33	119	102	63	81	21	36	61	21	31	4	42	31	60	10	27	9	128
Shigellosis	121	2	23	23	34	9	0	3	0	0	1	0	1	2	7	0	1	0	10
Tuberculosis disease	299	1	38	54	61	31	6	10	1	3	15	3	7	3	23	0	3	1	32
Typhoid fever	51	0	2	14	22	4	0	4	0	0	0	0	1	0	1	0	2	0	0
Viral Haemorrhagic Fever	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
VTEC /STEC infection	473	51	112	58	81	48	7	23	0	10	2	2	6	4	4	0	10	3	28
Yersiniosis	764	14	80	79	59	45	20	25	9	17	11	8	11	35	90	3	5	7	174
Total	14779	609	1865	1507	1485	1392	346	585	221	395	518	178	502	366	950	125	420	113	1830

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 July 2016

	Current Year - 2016 ¹			Previous Year - 2015		
Disease	July 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	July 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	342	3023	134.8	420	3046	140.3
Cryptosporidiosis	51	375	19.4	23	181	12.8
Dengue fever	15	140	3.7	7	94	3.1
Gastroenteritis ³	53	302	11.5	43	278	14.8
Giardiasis	96	986	35.2	110	879	32.4
Haemophilus influenzae type b	2	4	0.1	0	3	0.1
Hepatitis A	5	24	1	2	27	1.2
Hepatitis B ⁴	8	23	0.9	1	17	0.7
Hepatitis C ⁴	2	22	0.8	3	19	0.6
Invasive pneumococcal disease	60	242	10.1	64	226	9.9
Legionellosis	9	152	6.5	11	103	3.6
Leptospirosis	11	51	1.5	8	45	1.5
Listeriosis	1	24	0.8	3	15	0.4
Malaria	2	20	0.8	3	20	0.8
Measles	7	101	2.2	0	9	0.5
Meningococcal disease	10	34	1.6	5	23	1
Mumps	1	3	0.2	2	5	0.3
Paratyphoid fever	1	21	0.7	2	22	0.6
Pertussis	71	591	26.6	102	537	20.7
Rheumatic fever ⁵	11	93	2.8	13	77	3.2
Rickettsial disease	0	5	0.2	0	3	0.2
Rubella	0	3	0.1	0	0	0
Salmonellosis	56	658	23	64	652	22.7
Shigellosis	8	82	2.6	5	72	2.6
Tuberculosis disease	23	177	6.5	21	174	6.6
Typhoid fever	1	28	1.1	3	20	0.7
Viral Haemorrhagic Fever	0	1	0	0	0	0
VTEC/STEC infection	22	301	10.3	16	158	5.1
Yersiniosis	60	408	16.6	46	278	15.7

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including July 2016) or the previous year (12 months up to and including July 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 July: Chikungunya fever (2), Hydatid disease (1).