
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 18 January 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	5
4. Trends in selected diseases to December 2015	6
5. Data tables	7

1. Key notifiable disease trends

Campylobacteriosis: 757 cases of campylobacteriosis (753 confirmed and 4 under investigation) were notified in December 2015 compared to 893 cases notified during the same month of the previous year. For the 12 month period ending 31 December 2015, the highest rates were in West Coast (243.9 per 100,000 population, 9 cases), South Canterbury (216.9 per 100,000 population, 15 cases), and Taranaki (195.7 per 100,000 population, 30 cases) DHBs compared to a national rate of 138.1 per 100,000. One finalised *Campylobacter* outbreak (2 cases) and one interim outbreak (case numbers yet to be determined) were created in December.

Cronobacter species: One confirmed *Cronobacter* species was notified in December 2015. The case was a female in the 70+ years age group from Counties Manukau DHB.

Cryptosporidiosis: 32 cases of cryptosporidiosis (31 confirmed and 1 under investigation) were notified in December 2015 compared to 24 cases notified during the same month of the previous year (Figure 1). The highest numbers of cases were reported from Auckland (6 cases), and Counties Manukau and Waitemata (4 cases each) DHBs. The cases ranged in age from 13 months to 65 years, with the highest numbers of cases in the 1–4 years (11 cases), 30–39 years (6 cases) and 5–9 years (5 cases) age groups. Among the cases for which risk factor information was recorded, 54.5% (6/11) had contact with faecal matter or vomit, 50.0% (5/10) had recreational water contact, 33.3% (4/12) had consumed food from a food premises, 33.3% (5/15) had contact with other symptomatic people, 28.6% (4/14) had contact with farm animals, and 22.2% (2/9) had consumed untreated water during the incubation period. Two finalised *Cryptosporidium* outbreaks (5 cases total) were created in December.

Hepatitis A: Four cases of hepatitis A (3 confirmed and 1 under investigation) were notified in December 2015 compared to five cases notified during the previous month and one case notified during the same month of the previous year. All confirmed cases were lab confirmed. Ethnicity was recorded for all cases, and were reported in the Asian, European or Other, Māori, and Pacific peoples ethnic groups (1 case each). Cases were reported from Counties Manukau, Bay of Plenty, Canterbury and Southern DHBs (1 case each). The cases ranged in age from 29–47 years, with the highest number of cases in the 40–49 years age group (3 cases). Two confirmed cases were linked to the Hepatitis A outbreak from November 2015, which was associated with frozen berries. The other confirmed case had overseas travel during the incubation period recorded, the case had been to India.

Invasive pneumococcal disease: 34 cases of invasive pneumococcal disease (31 confirmed and 3 under investigation) were notified in December 2015 compared to 43 cases notified during the same month of the previous year. The highest numbers of cases were reported from Counties Manukau and Waikato DHBs (6 cases each). The age range for cases was 6 months–94 years, with the highest numbers reported in the 70+ years (13 cases), 60–69 years (8 cases) and 50–59 years (5 cases) age groups. Twenty-two cases were hospitalised and two deaths (Table 3) from invasive pneumococcal disease were reported. Of the cases for which risk factor information was recorded, 47.6% (10/21) had a chronic illness, 23.8% (5/21) were smokers, and 14.3% (3/21) were immunocompromised.

Legionellosis: 49 cases of legionellosis (27 confirmed, 11 probable and 11 under investigation) were notified in December 2015 compared to 53 cases notified during the previous month, and 20 during the same month of the previous year. The highest numbers of cases were reported from MidCentral (8 cases), Waikato (7 cases) and Counties Manukau (6 cases) DHBs. The *Legionella* species was identified for 29 cases as: *L. longbeachae* (23 cases) and *L. pneumophila* (6 cases). The increase in legionellosis notifications for the year (258 compared with 123 cases at the same time in 2014) may be due to the LegiNZ study, which began in May 2015 and involves 20 hospitals in 17 DHBs.

Measles: One confirmed case of measles was notified in December 2015 compared to no cases notified during the same month of the previous year. Overseas travel during the incubation period was recorded, the case had been to Australia. Ten confirmed cases have been notified in the year to date compared to 280 at the same time in the previous year.

Meningococcal disease: Six cases of meningococcal disease were notified in December 2015 compared to two cases notified during the same month of the previous year. After further investigation one case has since been found not to meet the case criteria. Cases were reported from Capital and Coast (2 cases), and Northland, Auckland and Waitemata (1 case each) DHBs. Cases were reported in the 1–4 years (2 cases), and 5–9 years, 20–29 years and 70+ years (1 case each) age groups. Four cases were hospitalised. Four cases were laboratory confirmed and the strain type was determined for all cases: group B (2 cases, including 1 group B:P1.7-2,4), group C (1 case), and group W135 (1 case).

Rheumatic fever: Six cases of initial attack rheumatic fever (5 confirmed and 1 probable) were notified in December 2015, compared to 11 cases during the same month of the previous year. All cases were from the North Island; Counties Manukau and Waitemata (2 cases each), and Hawke's Bay and Bay of Plenty (1 case each) DHBs. Cases ranged in age from 5 to 20 years, and were reported in the 10–14 years (4 cases), and 5–9 years and 20–29 years (1 case each) age groups. Cases were reported in the Pacific peoples and Māori ethnic groups (3 cases each). Hospitalisation status was recorded for all cases, of which 83.3% (5/6) were hospitalised. Numbers are based on report date which may not be a good indicator of newly incident cases as a high proportion of notifications have reporting delays.

Taeniasis: One confirmed case of taeniasis was notified in December 2015. The case was a female in the 30–39 years age group from Capital and Coast DHB. Overseas travel during the incubation period was recorded, the case had been to Ethiopia.

Typhoid fever: Ten cases of typhoid fever were notified in December 2015 compared to four cases notified during the same month of the previous year. After further investigation three cases have since been found not to meet the case criteria. Cases were reported from Auckland (3 cases), Counties Manukau (2 cases), and Nelson Marlborough and Southern (1 case each) DHBs. The cases were in the 20–29 years (2 cases) and 1–4 years, 5–9 years, 10–14 years, 30–39 years, 50–59 years (1 case each) age groups. Of the cases for which hospitalisation information was recorded, 100.0% (3/3) were hospitalised. Five cases reported travelling during the incubation period, and the countries visited were India (4/5) and Pakistan (1/5). Of the two cases that did not report overseas travel, one was part of an outbreak and the other had consumed raw fish and shellfish.

VTEC/STEC infection: 42 cases of VTEC/STEC infection (37 confirmed and 5 under investigation) were notified in December 2015 compared to 11 cases notified during the same month of the previous year (Figure 2). After further investigation one case has since been found not to meet the case criteria. The highest numbers of cases were reported from Counties Manukau (13 cases), Waitemata (11 cases) and Northland (7 cases) DHBs. The highest numbers of cases occurred in the 1–4 years (11 cases), 60–69 years (8 cases), and 15–19 years, 20–29 years, and 70+ years (5 cases each) age groups. Three cases were hospitalised. Thirty-three cases were 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 (27 cases). Among the cases for which risk factor information was recorded, 70.0% (7/10) had contact with animals, 50.0% (5/10) had contact with children in nappies, and 10.0% (1/10) had contact with a person with similar symptoms. The increase in notifications for DHBs in the Auckland region may be due to a recent change in laboratory methods; all faecal specimens are now screened for VTEC/STEC using PCR. Two finalised VTEC/STEC outbreaks (4 cases total) and one interim outbreak (case numbers yet to be determined) were created in December.

Zika virus: One confirmed case was notified in December 2015. The case was a male in the 30–39 years age group from Waitemata DHB, who reported overseas travel to Samoa during the incubation period.

2. Outbreaks

During December 2015, a total of 54 outbreaks (32 final and 22 interim) were created in EpiSurv (Table 1 and Table 2). 37 (68.5%) were outbreaks of acute gastroenteritis (19 finalised and 18 interim) involving 497 cases in total. This compares with 41 acute gastroenteritis outbreaks involving 935 cases in total created during the same month of the previous year. Of the 37 acute gastroenteritis outbreaks, 15 were recorded as norovirus and one as *C. perfringens*. The most commonly reported mode of transmission in acute gastroenteritis outbreaks (56.8%, 21/37) was person-to-person (17 primary and 4 secondary). Of the outbreaks that had an exposure setting recorded (30/37) the most commonly reported settings were long term care facilities (13 outbreaks), childcare centres, hospital (acute care), and restaurant/café/bakery (3 outbreaks each).

Table 1. Summary of final outbreaks created in EpiSurv during December 2015

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Waikato	3	6
<i>Campylobacter</i> ¹	MidCentral	1	2
<i>Clostridium perfringens</i>	Nelson Marlborough	1	18
<i>Cryptosporidium</i> ¹	Waitemata, Counties Manukau	2	5
Gastroenteritis ¹	Auckland, Waikato, Bay of Plenty, Canterbury, Southern	6	89
<i>Giardia</i>	Waitemata, Counties Manukau	2	4
Norovirus ¹	Auckland, Lakes, Bay of Plenty, Hawke's Bay, MidCentral, Canterbury, Southern	12	261
Rhinovirus	Northland	1	23
<i>Salmonella</i> Typhi	Counties Manukau	1	2
<i>Shigella</i> ²	Auckland	1	2
VTEC/STEC infection	Waitemata, Counties Manukau	2	4
Total		32	416

¹ Includes outbreak reported to PHSs prior to December 2015: *Campylobacter*, *Cryptosporidium*, gastroenteritis, *Shigella* (one outbreak each), and norovirus (two outbreaks) reported in November.

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

Table 2. Summary of interim outbreaks created in EpiSurv during December 2015

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Hutt Valley	1	6
<i>Campylobacter</i> ¹	Capital & Coast	1	-
Gastroenteritis ¹	Auckland, Waitemata, Counties Manukau, Tairāwhiti, Taranaki, MidCentral, Capital & Coast, Wairarapa, Canterbury, Southern	15	112
Norovirus ¹	Bay of Plenty, Canterbury, Southern	3	17
<i>Salmonella</i> ²	Auckland	1	2
VTEC/STEC infection	Counties Manukau	1	2
Total		22	140

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

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

3. Deaths from notifiable diseases

Four deaths, where the primary cause of death was a notifiable disease, were reported in December 2015 (Table 3).

Table 3. Summary of deaths from notifiable diseases reported during December 2015

Disease	District health board	Age group (years)
Hepatitis B	Hawke's Bay	40–49
Invasive pneumococcal disease	Canterbury	70+
Invasive pneumococcal disease	Waikato	70+
Listeriosis – perinatal	Auckland	30–39

4. Trends in selected diseases to December 2015

Figure 1. Cryptosporidiosis notifications by month, January 2009–December 2015

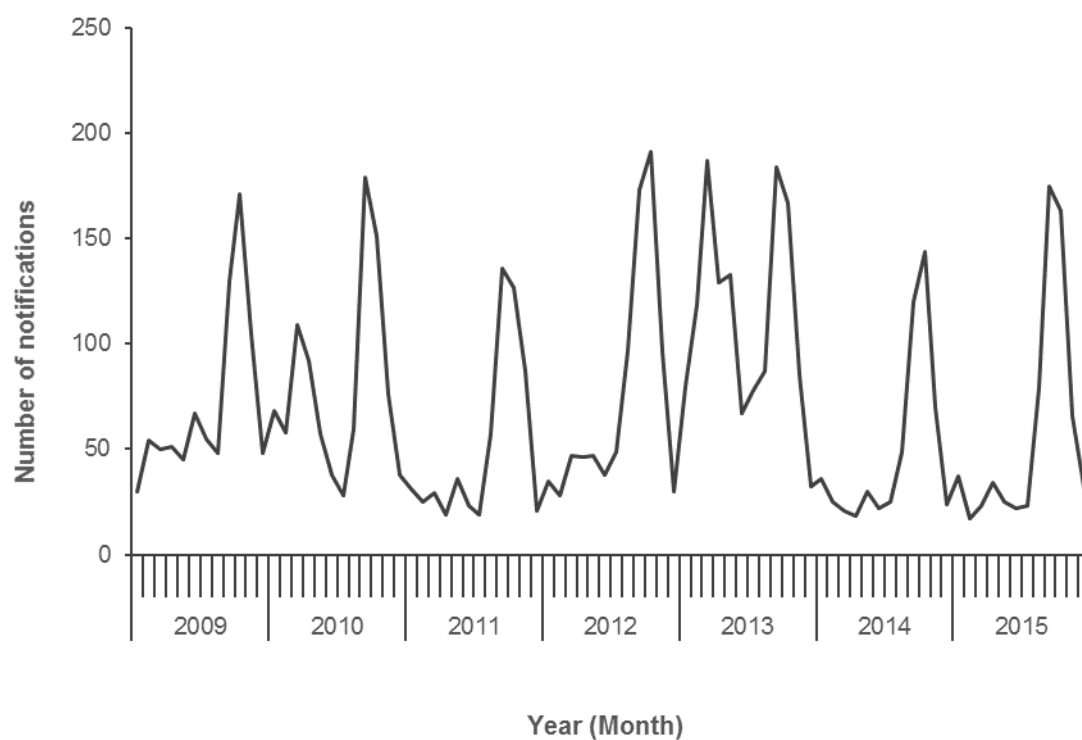
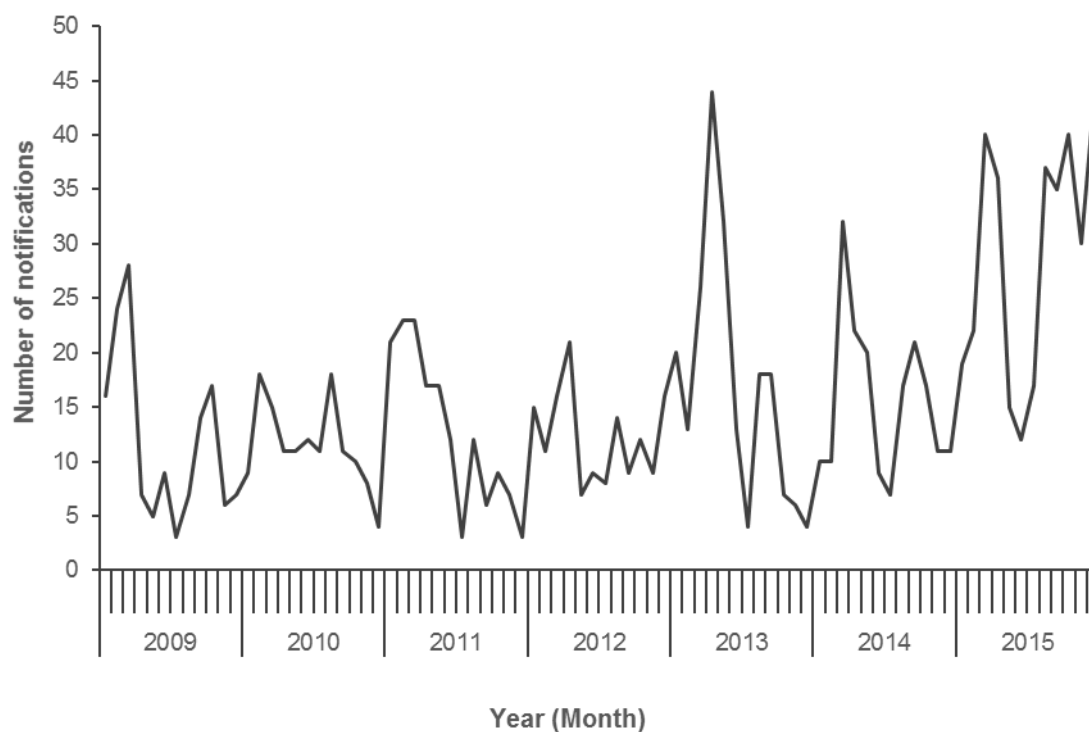


Figure 2. VTEC/STEC notifications by month, January 2009–December 2015



5. Data tables

National Notifiable Disease Surveillance Data December 2015

Disease	Current Year - 2015 ¹			Previous Year - 2014		
	December 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	December 2014 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	757	6229	138.1	893	6782	150.4
Cryptosporidiosis	32	696	15.4	24	584	12.9
Dengue fever	7	127	2.8	12	178	3.9
Gastroenteritis ³	67	505	11.2	53	756	16.8
Giardiasis	112	1512	33.5	122	1709	37.9
Haemophilus influenzae type b	1	5	0.1	1	5	0.1
Hepatitis A	4	48	1.1	1	74	1.6
Hepatitis B ⁴	2	36	0.8	2	35	0.8
Hepatitis C ⁴	1	39	0.9	0	29	0.6
Invasive pneumococcal disease	34	459	10.2	43	489	10.8
Legionellosis	49	258	5.7	20	123	2.7
Leptospirosis	5	74	1.6	7	56	1.2
Listeriosis	4	26	0.6	2	25	0.6
Malaria	6	38	0.8	2	33	0.7
Measles	1	10	0.2	0	280	6.2
Meningococcal disease	6	65	1.4	2	45	1.0
Mumps	3	17	0.4	1	18	0.4
Paratyphoid fever	1	31	0.7	2	19	0.4
Pertussis	94	1196	26.5	56	1099	24.4
Q fever	0	1	0.0	0	0	0.0
Rheumatic fever ⁵	6	113	2.5	11	200	4.4
Rickettsial disease	0	8	0.2	0	6	0.1
Rubella	0	0	0.0	0	4	0.1
Salmonellosis	81	1057	23.4	91	956	21.2
Shigellosis	4	111	2.5	10	128	2.8
Tuberculosis disease	37	312	6.9	33	302	6.7
Typhoid fever	10	47	1.0	4	42	0.9
VTEC/STEC infection	42	345	7.7	11	187	4.1
Yersiniosis	45	639	14.2	35	681	15.1

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including December 2015) or the previous year (12 months up to and including December 2014), 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 December: Cronobacter species (1), Taeniasis (1), Zika virus (1).

Notifiable Disease Surveillance Data by District Health Board December 2015

		Cases ¹ and current rate ² for December 2015 by District Health Board ³																			
Disease		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	41	95	55	67	64	15	30	7	30	32	13	28	18	48	9	25	9	89	15	67
	Rate	154.2	145.4	112.9	96.2	156.2	157.3	112.7	108.3	195.7	154.3	139.9	115.1	136.0	130.4	168.2	151.6	243.9	141.5	216.9	166.2
Cryptosporidiosis	Cases	3	4	6	4	2	0	1	1	0	0	2	0	0	3	0	1	0	2	0	3
	Rate	16.3	14.8	10.8	14.5	30.2	11.6	8.7	8.5	20.9	16.3	14.5	24.7	6.3	9.1	25.7	8.4	15.2	13.6	24.1	19.7
Dengue fever	Cases	0	0	1	0	2	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0
	Rate	0.0	3.4	7.4	5.7	2.1	1.0	1.4	2.1	0.9	0.0	0.0	0.6	1.4	4.7	0.0	1.4	0.0	1.2	1.7	1.3
Gastroenteritis	Cases	1	4	15	5	2	1	9	0	0	0	0	8	4	9	2	0	0	4	1	2
	Rate	1.2	11.6	23.9	6.3	1.8	13.5	8.3	6.4	6.1	0.6	27.3	41.1	16.0	25.3	11.7	0.7	18.3	6.4	1.7	3.9
Giardiasis	Cases	4	16	18	7	9	5	5	2	1	2	0	3	1	11	0	8	2	11	2	5
	Rate	36.7	37.5	38.8	31.8	29.5	57.9	29.9	44.6	24.3	46.4	28.9	17.0	13.9	52.6	32.7	44.7	33.5	26.2	22.4	23.9
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	0.2	0.0	0.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0
Hepatitis A	Cases	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	1.2	1.4	1.9	2.0	0.0	0.0	1.8	2.1	0.0	0.0	0.0	2.9	0.7	0.0	0.0	0.0	0.0	0.8	0.0	1.3
Hepatitis B	Cases	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.7	2.1	0.4	0.8	1.9	0.5	0.0	1.7	1.3	0.0	1.2	0.7	0.7	0.0	0.7	0.0	0.6	0.0	0.0
Hepatitis C	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	3.5	0.6	1.6	0.0	2.8	1.3	0.0	0.7	3.0	2.3	0.0	1.3
Invasive pneumococcal	Cases	4	4	4	6	6	1	2	0	0	1	0	0	0	0	0	2	0	3	0	1
	Rate	18.1	6.4	7.8	14.5	10.4	22.2	13.3	14.9	6.1	9.4	11.3	7.6	11.2	9.1	14.0	8.4	12.2	8.2	5.2	10.0
Legionellosis	Cases	5	5	1	6	7	1	5	0	0	1	0	8	1	1	1	0	0	4	0	3
	Rate	10.8	7.1	2.5	4.5	5.0	3.9	10.6	0.0	3.5	5.0	1.6	19.4	1.4	2.0	9.3	2.8	12.2	7.4	5.2	3.9
Leptospirosis	Cases	0	0	0	0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
	Rate	0.0	0.4	0.0	0.4	3.1	1.0	2.3	2.1	4.3	5.0	6.4	1.8	1.4	0.3	7.0	3.5	12.2	0.8	6.9	2.6
Listeriosis	Cases	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1
	Rate	0.0	0.4	0.6	0.6	0.3	0.0	2.8	0.0	0.0	0.0	1.6	0.0	0.7	1.0	2.3	0.7	0.0	0.6	0.0	0.3
Malaria	Cases	0	0	2	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	Rate	0.0	1.8	1.7	1.6	0.0	0.0	0.9	0.0	0.0	1.3	0.0	0.0	1.4	0.3	0.0	0.7	0.0	0.6	0.0	0.3
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.0	0.0	0.0	0.4	0.5	0.0	0.5	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Meningococcal disease	Cases	1	1	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
	Rate	4.8	1.8	0.6	1.6	1.0	1.9	0.9	2.1	2.6	1.9	1.6	1.8	0.0	1.7	2.3	0.7	3.0	0.8	1.7	1.3
Mumps	Cases	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	2.4	0.5	0.0	0.4	0.0	0.0	0.0	2.1	2.6	0.0	1.6	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0
Paratyphoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.7	1.1	0.8	1.6	1.0	0.0	0.0	0.0	0.6	1.6	0.0	0.0	0.3	2.3	1.4	0.0	0.6	0.0	0.6
Pertussis	Cases	0	7	6	8	13	1	1	0	2	0	0	2	5	1	0	8	0	38	0	2
	Rate	22.3	24.2	15.9	28.3	23.7	14.5	9.2	10.6	9.6	9.4	35.4	13.5	11.9	27.0	14.0	51.7	3.0	48.6	6.9	54.9
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	2.4	1.8	3.4	7.1	2.3	5.8	3.7	6.4	1.7	1.9	0.0	1.8	3.5	1.0	2.3	0.0	0.0	0.6	0.0	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	0.6	0.9	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis	Cases	1	8	7	2	2	2	2	4	1	4	0	4	1	9	1	4	0	13	2	14
	Rate	24.1	25.8	25.9	13.6	16.4	18.3	18.4	25.5	21.7	15.7	14.5	22.3	17.4	20.9	23.4	20.3	21.3	30.1	44.8	43.9
Shigellosis	Cases	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.0	2.3	5.5	4.5	1.6	1.0	2.3	0.0	0.9	0.0	0.0	1.8	2.1	3.7	0.0	0.0	0.0	2.3	0.0	2.3
Tuberculosis disease	Cases	0	8	5	5	5	0	0	0	1	1	0	1	1	3	0	0	0	6	0	1
	Rate	1.8	7.1	13.1	13.2	7.0	6.8	3.2	4.2	2.6	5.6	4.8	4.7	3.5	7.8	0.0	2.8	3.0	6.8	0.0	1.9
Typhoid fever	Cases	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1
	Rate	0.0	0.4	2.1	4.1	0.3	0.0	0.9	0.0	0.0	0.6	0.0	0.6	0.0	0.7	0.0	2.1	0.0	0.2	0.0	1.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VTEC/STEC infection	Cases	7	11	3	14	1	0	1	0	1	0	0	0	0	0	0	1	0	2	0	1
	Rate	16.3	11.4	9.5	9.8	13.6	4.8	6.9	0.0	7.0	1.3	4.8	1.8	0.7	2.0	2.3	9.1	9.1	4.7	12.0	5.2
Yersiniosis	Cases	0	4	1	4	2	0	0	1	0	2	0	1	6	6	0	0	1	11	0	6
	Rate	4.8	9.6	10.0	9.6	12.5	11.6	17.0	21.2	13.9	7.5	9.6	5.9	20.2	20.9	2.3	7.0	21.3	32.3	27.5	12.6

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including December 2015 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 December 2015

		Cases ¹ and current rate ² for December 2015 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	41	95	55	67	64	15	30	7	30	32	13	28	18	48	9	25	9	89	15	67
	Rate	154.2	145.4	112.9	96.2	156.2	157.3	112.7	108.3	195.7	154.3	139.9	115.1	136.0	130.4	168.2	151.6	243.9	141.5	216.9	166.2
Cryptosporidiosis	Cases	3	4	6	4	2	0	1	1	0	0	2	0	0	3	0	1	0	2	0	3
	Rate	16.3	14.8	10.8	14.5	30.2	11.6	8.7	8.5	20.9	16.3	14.5	24.7	6.3	9.1	25.7	8.4	15.2	13.6	24.1	19.7
Dengue fever	Cases	0	0	1	0	2	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0
	Rate	0.0	3.4	7.4	5.7	2.1	1.0	1.4	2.1	0.9	0.0	0.0	0.6	1.4	4.7	0.0	1.4	0.0	1.2	1.7	1.3
Gastroenteritis	Cases	1	4	15	5	2	1	9	0	0	0	0	8	4	9	2	0	0	4	1	2
	Rate	1.2	11.6	23.9	6.3	1.8	13.5	8.3	6.4	6.1	0.6	27.3	41.1	16.0	25.3	11.7	0.7	18.3	6.4	1.7	3.9
Giardiasis	Cases	4	16	18	7	9	5	5	2	1	2	0	3	1	11	0	8	2	11	2	5
	Rate	36.7	37.5	38.8	31.8	29.5	57.9	29.9	44.6	24.3	46.4	28.9	17.0	13.9	52.6	32.7	44.7	33.5	26.2	22.4	23.9
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	0.2	0.0	0.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0
Hepatitis A	Cases	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	1.2	1.4	1.9	2.0	0.0	0.0	1.8	2.1	0.0	0.0	0.0	2.9	0.7	0.0	0.0	0.0	0.0	0.8	0.0	1.3
Hepatitis B	Cases	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.7	2.1	0.4	0.8	1.9	0.5	0.0	1.7	1.3	0.0	1.2	0.7	0.7	0.0	0.7	0.0	0.6	0.0	0.0
Hepatitis C	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	3.5	0.6	1.6	0.0	2.8	1.3	0.0	0.7	3.0	2.3	0.0	1.3
Invasive pneumococcal disease	Cases	4	4	4	6	6	1	2	0	0	1	0	0	0	0	0	2	0	3	0	1
	Rate	18.1	6.4	7.8	14.5	10.4	22.2	13.3	14.9	6.1	9.4	11.3	7.6	11.2	9.1	14.0	8.4	12.2	8.2	5.2	10.0
Legionellosis	Cases	5	5	1	6	7	1	5	0	0	1	0	8	1	1	1	0	0	4	0	3
	Rate	10.8	7.1	2.5	4.5	5.0	3.9	10.6	0.0	3.5	5.0	1.6	19.4	1.4	2.0	9.3	2.8	12.2	7.4	5.2	3.9
Leptospirosis	Cases	0	0	0	0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
	Rate	0.0	0.4	0.0	0.4	3.1	1.0	2.3	2.1	4.3	5.0	6.4	1.8	1.4	0.3	7.0	3.5	12.2	0.8	6.9	2.6
Listeriosis	Cases	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1
	Rate	0.0	0.4	0.6	0.6	0.3	0.0	2.8	0.0	0.0	0.0	1.6	0.0	0.7	1.0	2.3	0.7	0.0	0.6	0.0	0.3
Malaria	Cases	0	0	2	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	Rate	0.0	1.8	1.7	1.6	0.0	0.0	0.9	0.0	0.0	1.3	0.0	0.0	1.4	0.3	0.0	0.7	0.0	0.6	0.0	0.3
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.0	0.0	0.0	0.4	0.5	0.0	0.5	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Meningococcal disease	Cases	1	1	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
	Rate	4.8	1.8	0.6	1.6	1.0	1.9	0.9	2.1	2.6	1.9	1.6	1.8	0.0	1.7	2.3	0.7	3.0	0.8	1.7	1.3
Mumps	Cases	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	2.4	0.5	0.0	0.4	0.0	0.0	0.0	2.1	2.6	0.0	1.6	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0
Paratyphoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.7	1.1	0.8	1.6	1.0	0.0	0.0	0.0	0.6	1.6	0.0	0.0	0.3	2.3	1.4	0.0	0.6	0.0	0.6
Pertussis	Cases	0	7	6	8	13	1	1	0	2	0	0	2	5	1	0	8	0	38	0	2
	Rate	22.3	24.2	15.9	28.3	23.7	14.5	9.2	10.6	9.6	9.4	35.4	13.5	11.9	27.0	14.0	51.7	3.0	48.6	6.9	54.9
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	2.4	1.8	3.4	7.1	2.3	5.8	3.7	6.4	1.7	1.9	0.0	1.8	3.5	1.0	2.3	0.0	0.0	0.6	0.0	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	0.6	0.9	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis	Cases	1	8	7	2	2	2	2	4	1	4	0	4	1	9	1	4	0	13	2	14
	Rate	24.1	25.8	25.9	13.6	16.4	18.3	18.4	25.5	21.7	15.7	14.5	22.3	17.4	20.9	23.4	20.3	21.3	30.1	44.8	43.9
Shigellosis	Cases	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.0	2.3	5.5	4.5	1.6	1.0	2.3	0.0	0.9	0.0	0.0	1.8	2.1	3.7	0.0	0.0	0.0	2.3	0.0	2.3
Tuberculosis disease	Cases	0	8	5	5	5	0	0	0	1	1	0	1	1	3	0	0	0	6	0	1
	Rate	1.8	7.1	13.1	13.2	7.0	6.8	3.2	4.2	2.6	5.6	4.8	4.7	3.5	7.8	0.0	2.8	3.0	6.8	0.0	1.9
Typhoid fever	Cases	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1
	Rate	0.0	0.4	2.1	4.1	0.3	0.0	0.9	0.0	0.0	0.6	0.0	0.6	0.0	0.7	0.0	2.1	0.0	0.2	0.0	1.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VTEC/STEC infection	Cases	7	11	3	14	1	0	1	0	1	0	0	0	0	0	0	1	0	2	0	1
	Rate	16.3	11.4	9.5	9.8	13.6	4.8	6.9	0.0	7.0	1.3	4.8	1.8	0.7	2.0	2.3	9.1	9.1	4.7	12.0	5.2
Yersiniosis	Cases	0	4	1	4	2	0	0	1	0	2	0	1	6	6	0	0	1	11	0	6
	Rate	4.8	9.6	10.0	9.6	12.5	11.6	17.0	21.2	13.9	7.5	9.6	5.9	20.2	20.9	2.3	7.0	21.3	32.3	27.5	12.6

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including December 2015 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 December 2015

Disease	Current Year - 2015 ¹			Previous Year - 2014		
	December 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	December 2014 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	757	6229	138.1	893	6782	150.4
Cryptosporidiosis	32	696	15.4	24	584	12.9
Dengue fever	7	127	2.8	12	178	3.9
Gastroenteritis ³	67	505	11.2	53	756	16.8
Giardiasis	112	1512	33.5	122	1709	37.9
Haemophilus influenzae type b	1	5	0.1	1	5	0.1
Hepatitis A	4	48	1.1	1	74	1.6
Hepatitis B ⁴	2	36	0.8	2	35	0.8
Hepatitis C ⁴	1	39	0.9	0	29	0.6
Invasive pneumococcal disease	34	459	10.2	43	489	10.8
Legionellosis	49	258	5.7	20	123	2.7
Leptospirosis	5	74	1.6	7	56	1.2
Listeriosis	4	26	0.6	2	25	0.6
Malaria	6	38	0.8	2	33	0.7
Measles	1	10	0.2	0	280	6.2
Meningococcal disease	6	65	1.4	2	45	1.0
Mumps	3	17	0.4	1	18	0.4
Paratyphoid fever	1	31	0.7	2	19	0.4
Pertussis	94	1196	26.5	56	1099	24.4
Q fever	0	1	0.0	0	0	0.0
Rheumatic fever ⁵	6	113	2.5	11	200	4.4
Rickettsial disease	0	8	0.2	0	6	0.1
Rubella	0	0	0.0	0	4	0.1
Salmonellosis	81	1057	23.4	91	956	21.2
Shigellosis	4	111	2.5	10	128	2.8
Tuberculosis disease	37	312	6.9	33	302	6.7
Typhoid fever	10	47	1.0	4	42	0.9
VTEC/STEC infection	42	345	7.7	11	187	4.1
Yersiniosis	45	639	14.2	35	681	15.1

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including December 2015) or the previous year (12 months up to and including December 2014), 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 December: Cronobacter species (1), Taeniasis (1), Zika virus (1).

National Notifiable Disease Surveillance Data – Monthly totals for December 2015 and preceding 11 Months¹

Disease	Dec 2015	Nov 2015	Oct 2015	Sep 2015	Aug 2015	Jul 2015	Jun 2015	May 2015	Apr 2015	Mar 2015	Feb 2015	Jan 2015
Campylobacteriosis	757	781	579	571	490	420	372	383	327	418	455	676
Cryptosporidiosis	32	66	163	175	79	23	22	25	34	23	17	37
Dengue fever	7	6	7	4	8	7	5	4	5	21	24	29
Gastroenteritis ²	67	47	27	54	29	44	40	32	43	41	41	40
Giardiasis	112	140	120	124	137	110	114	127	122	132	150	124
Haemophilus influenzae type b	1	1	0	0	0	0	2	0	1	0	0	0
Hepatitis A	4	5	7	0	5	2	3	2	2	2	9	7
Hepatitis B ³	2	2	5	5	4	2	1	4	3	4	2	2
Hepatitis C ³	1	8	5	4	2	2	3	2	2	1	5	4
Invasive pneumococcal disease	34	48	44	44	55	65	50	30	25	30	16	18
Legionellosis	49	53	31	16	8	11	16	23	19	10	14	8
Leptospirosis	5	7	8	1	3	8	2	9	6	11	9	5
Listeriosis	4	3	1	3	0	3	4	3	0	2	2	1
Malaria	6	1	2	5	4	3	2	4	3	2	3	3
Measles	1	0	0	0	0	0	2	4	1	2	0	0
Meningococcal disease	6	4	6	11	15	5	9	0	2	0	2	5
Mumps	3	0	2	4	2	2	1	1	0	0	0	2
Paratyphoid fever	1	3	3	2	1	2	0	2	6	3	7	1
Pertussis	94	111	93	184	165	104	95	67	74	78	70	61
Q fever	0	0	0	0	1	0	0	0	0	0	0	0
Rheumatic fever ⁴	6	9	9	4	8	13	14	19	6	4	12	9
Rickettsial disease	0	0	1	2	2	0	2	0	0	0	0	1
Salmonellosis	81	72	96	95	58	64	59	83	96	103	111	139
Shigellosis	4	8	10	10	7	5	7	9	7	11	9	24
Tuberculosis disease	37	33	24	23	21	22	22	29	25	34	22	20
Typhoid fever	10	9	3	1	3	3	2	2	1	4	1	8
VTEC/STEC infection	42	30	40	35	37	17	12	15	36	40	22	19
Yersiniosis	45	116	69	63	68	46	31	35	34	44	37	51

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.