

## 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 February 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

**Campylobacteriosis:** 720 cases of campylobacteriosis (708 confirmed and 12 under investigation) were notified in January 2016 compared to 676 cases notified during the same month of the previous year (Figure 1). For the 12 month period ending 31 January 2016, the highest rates were in West Coast (241.6 per 100,000 population, 79 cases), South Canterbury (221.8 per 100,000 population, 130 cases) and Taranaki (197.6 per 100,000 population, 229 cases) DHBs, compared to a national rate of 136.3 per 100,000 population. No campylobacteriosis outbreaks were created in January.

**Dengue fever:** 16 cases of dengue fever (15 confirmed and 1 under investigation) were notified in January 2016 compared to 28 cases notified in the same month of the previous year. The travel history was recorded for all cases, and all cases had travelled overseas during the incubation period for the disease. The countries visited included: Samoa (9 cases), Australia, French Polynesia and the Philippines (2 cases each). Some cases reported travel to more than one country.

**Legionellosis:** 40 cases of legionellosis (26 confirmed and 14 probable) were notified in January 2016 compared to 51 cases notified during the previous month, and 7 during the same month of the previous year (Figure 2). The highest numbers of cases were reported from Waitemata (7 cases), Bay of Plenty (6 cases) and Capital and Coast (5 cases) DHBs. The *Legionella* species was identified for 22 cases as: *L. longbeachae* (18 cases) and *L. pneumophila* (4 cases). The increase in legionellosis notifications compared to the same time in the previous year may be due to the LegiNZ study, which began in May 2015 and involves 20 hospitals in 17 DHBs.

**Paralytic shellfish poisoning:** One probable case of paralytic shellfish poisoning was notified in January 2016. The case was a male in the 50–59 years age group from Lakes DHB. The case was hospitalised. The case had consumed kina and paua collected from the Bay of Plenty coastline.

**Pertussis:** 127 cases of pertussis (67 confirmed, 49 probable, 2 suspect and 9 under investigation) were notified in January 2016 compared to 61 cases in the same month of the previous year. After further investigation, one case has since been found not to meet the case criteria. Eleven cases were hospitalised and no deaths were reported. Fifty-six percent (71/126) of cases were laboratory-confirmed (16 by culture, 39 by PCR, and 16 by culture and PCR). The highest numbers of cases were reported from Canterbury (42 cases), Capital and Coast (19 cases) and Waikato (17 cases) DHBs. The cases ranged in age from 1 month to 80 years, with 23.8% (30/127) under 5 years of age (including 15 cases aged less than 1 year). The highest

numbers of cases were in the 5–9 years (18 cases), <1 year, 1–4 years, 40–49 years and 50–59 years (15 cases each) age groups. The vaccination status was recorded for 90.5% (57/63) of cases aged under 20 years. Of these, 27 were reported as not vaccinated, four received one dose of vaccine, two received two doses of vaccine, and 22 received three or more doses (including three who had received all five doses). Two cases were immunised but had no dose information recorded. Of the cases where the relevant information was recorded, 41.8% (28/67) had contact with a laboratory-confirmed case, and 17.8% (19/107) had attended school, pre-school or childcare. Two finalised *B. pertussis* outbreaks were created in January (2 cases each).

*Rheumatic fever:* 12 cases of rheumatic fever (11 initial attack and 1 recurrent attack) were notified in January 2016, compared to 9 cases during the same month of the previous year. After further investigation, two cases have since been found not to meet the case criteria. All cases except one were from the North Island: Auckland and Counties Manukau (2 cases each), Bay of Plenty, Hawke's Bay, Southern, Tairāwhiti, Waikato and Waitemata (1 case each) DHBs. Cases ranged in age from 9 to 24 years, and were reported in the 10–14 years (7 cases), 20–29 years (2 cases) and 5–9 years (1 case) age groups. Cases were reported in Pacific Peoples (5 cases), Māori (4 cases) and European or Other (1 case) ethnic groups. Hospitalisation status was recorded for all cases, of which 90.0% (9/10) 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.

*Rickettsial disease:* Two confirmed cases of rickettsial disease were notified in January 2016. The cases were females in the 30–39 years and 60–69 years age groups. One case was hospitalised. One case reported overseas travel to Australia during the incubation period. The other case is under review.

*Toxic shellfish poisoning:* One suspect case of toxic shellfish poisoning was notified in January 2016. The case was a male in the 40–49 years age group from Nelson Marlborough DHB. The case had consumed fresh mussels purchased from a local retailer but others who consumed the same meal were not affected. Because the case was a late notification tracking and testing of the mussels was not able to be done.

*Tuberculosis disease:* 26 cases of tuberculosis disease (all new cases) were notified in January 2016 compared to 20 cases notified during the same month of the previous year. The highest number of cases was reported in the Auckland region (9 cases). The cases ranged in age from 12 to 87 years, with the highest numbers of cases reported in the 20–29 years age group (8 cases). Of the cases for which risk factor information was recorded, 80.0% (16/20) of cases were born outside of New Zealand. Nineteen cases were laboratory confirmed, and of these the mycobacterial species was recorded for 11 cases as *M. tuberculosis*. One death due to tuberculosis disease (new case) was reported in January (Table 3).

*Haemorrhagic fever with renal syndrome:* One probable case was notified in January 2016. The case was a male in the 40–49 years age group, who reported overseas travel to the People's Republic of China during the incubation period for the disease.

*VTEC/STEC infection:* 40 cases of VTEC/STEC infection (37 confirmed and 3 under investigation) were notified in January 2016 compared to 19 cases notified during the same month of the previous year. The highest numbers of cases were reported from Waitemata (14 cases), Auckland (6 cases), Bay of Plenty, Counties Manukau and Northland (4 cases each) DHBs. The highest numbers of cases occurred in the 60–69 years (8 cases), 1–4 years (6 cases) and 20–29 years (5 cases) age groups. Eleven cases were hospitalised. Thirty-one 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 (13 cases) and non-O157 (18 cases). Among the cases for which risk factor information was recorded, 66.7% (10/15) had contact with animals, 40.0% (6/15) had recreational contact with water, 26.7% (4/15) contact with children in nappies, and 9.5% (2/21) 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. One interim VTEC/STEC outbreak (case numbers yet to be determined) was created in January.

*Zika virus infection:* 10 confirmed cases of zika virus infection were notified in January 2016. Cases were reported in the 40–49 years (3 cases), 20–29 years and 50–59 years (2 cases each), 1–4 years, 10–14 years and 60–69 years (1 case each) age groups. All cases were confirmed by the Clinical Virology lab by PCR. All cases reported overseas travel during the incubation period, and countries visited included Samoa (5 cases), Tonga (4 cases) and American Samoa (1 case).

## 2. Outbreaks

During January 2016, a total of 34 outbreaks (19 final and 15 interim) were created in EpiSurv (Table 1 and Table 2). 24 (70.6%) were outbreaks of acute gastroenteritis (14 finalised and 10 interim) involving 293 cases in total. This compares with 20 acute gastroenteritis outbreaks involving 340 cases in total created during the same month of the previous year. Of the 24 acute gastroenteritis outbreaks, seven were recorded as norovirus, two as rotavirus, and one as *Clostridium perfringens*. The most commonly reported mode of transmission in acute gastroenteritis outbreaks (54.2%, 13/24) was person-to-person (9 primary and 4 secondary). Of the outbreaks that had an exposure setting recorded (66.7%, 16/24) the most commonly reported settings were long term care facilities (7 outbreaks).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Waikato	2	4
<i>Clostridium perfringens</i>	MidCentral	1	2
<i>Cryptosporidium</i> <sup>1, 3</sup>	Lakes	1	4
Gastroenteritis <sup>2</sup>	Waitemata, Auckland, Waikato, MidCentral	4	36
<i>Giardia</i> <sup>1, 3</sup>	Lakes	1	4
Norovirus <sup>2</sup>	Auckland, Bay of Plenty, MidCentral, Hutt Valley, Nelson Marlborough, Canterbury	7	162
Rotavirus	Canterbury	2	62
<i>Salmonella</i>	Auckland	1	4
<i>Salmonella</i> Typhi <sup>2</sup>	Counties Manukau	1	2
<b>Total</b>		<b>19</b>	<b>276</b>

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

<sup>2</sup> Includes outbreak reported to PHSs prior to January 2016: gastroenteritis, norovirus, and *S. Typhi* (one outbreak each) reported in December.

<sup>3</sup> Includes outbreak with an overseas exposure transmission (India).

**Table 1. Summary of interim outbreaks created in EpiSurv during January 2016**

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
Ciguatera fish poisoning <sup>1</sup>	Capital & Coast	1	-
VTEC/STEC infection	Auckland	1	3
Gastroenteritis <sup>1</sup>	Northland, Auckland, Counties Manukau, Bay of Plenty, Hawke's Bay	10	31
<i>Giardia</i>	Southern	1	3
<i>Salmonella</i>	Counties Manukau, Capital & Coast	2	21
<b>Total</b>		<b>15</b>	<b>58</b>

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

### 3. Deaths from notifiable diseases

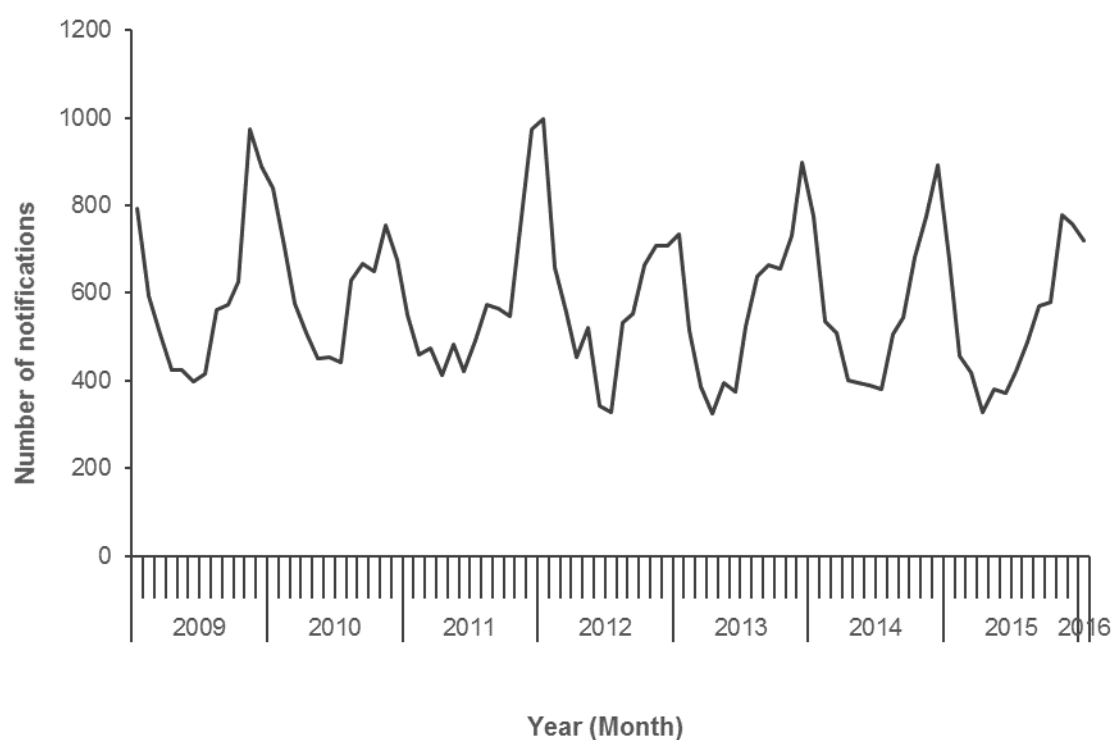
One death, where the primary cause of death was a notifiable disease, was reported in January 2016 (Table 3).

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

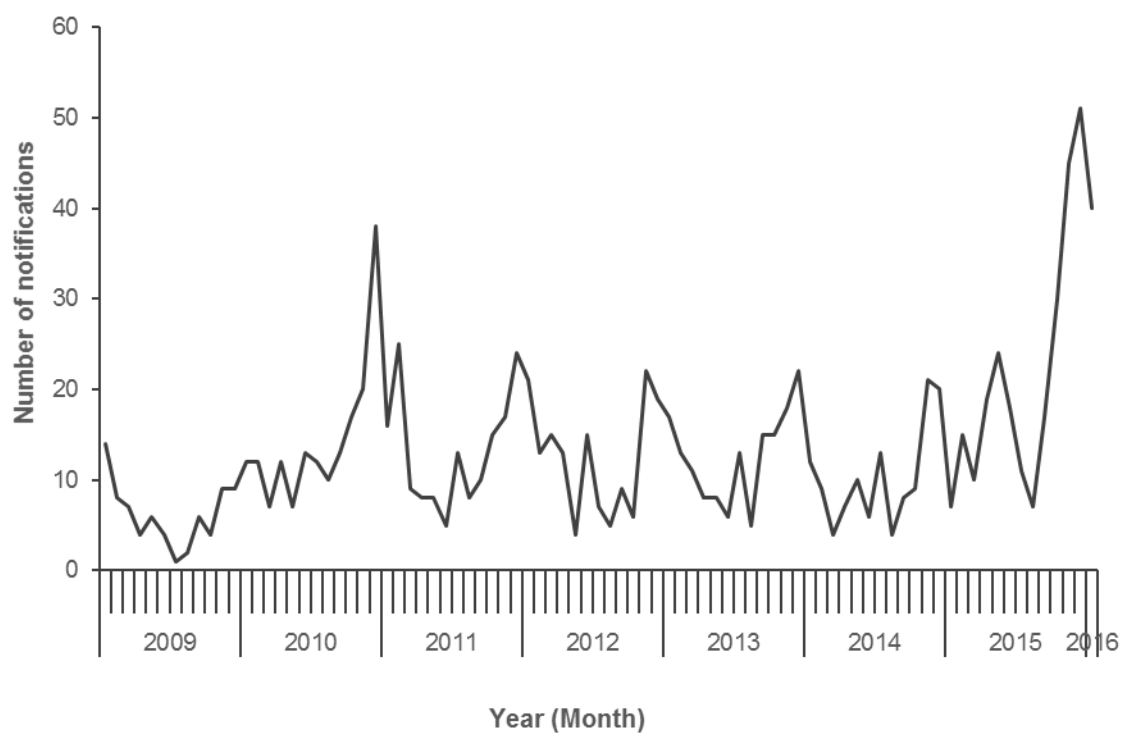
Disease	District health board	Age group (years)
Tuberculosis disease – new case	Waikato	70+

#### 4. Trends in selected diseases to January 2016

**Figure 1. Campylobacteriosis notifications by month, January 2009–January 2016**



**Figure 2. Legionellosis notifications by month, January 2009–January 2016**



## 5. Data tables

### National Notifiable Disease Surveillance Data January 2016

	Current Year - 2016 <sup>1</sup>			Previous Year - 2015		
Disease	January 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	January 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	720	720	136.3	676	676	148.2
Cryptosporidiosis	41	41	15.2	37	37	13.0
Dengue fever	16	16	2.5	28	28	4.1
Gastroenteritis <sup>3</sup>	35	35	10.8	39	39	16.5
Giardiasis	134	134	33.1	124	124	36.8
Haemophilus influenzae type b	2	2	0.1	0	0	0.1
Hepatitis A	2	2	0.9	7	7	1.6
Hepatitis B <sup>4</sup>	1	1	0.7	2	2	0.8
Hepatitis C <sup>4</sup>	6	6	0.8	4	4	0.6
Invasive pneumococcal disease	24	24	9.9	18	18	10.7
Legionellosis	40	40	6.2	7	7	2.6
Leptospirosis	5	5	1.4	5	5	1.3
Listeriosis	3	3	0.6	1	1	0.5
Malaria	3	3	0.8	3	3	0.8
Measles	1	1	0.2	0	0	5.7
Meningococcal disease	6	6	1.4	5	5	1.1
Mumps	2	2	0.3	1	1	0.4
Paratyphoid fever	2	2	0.8	1	1	0.4
Pertussis	127	127	26.9	61	61	22.1
Rheumatic fever <sup>5</sup>	12	12	2.5	9	9	4.2
Rickettsial disease	2	2	0.2	1	1	0.2
Rubella	1	1	0.0	0	0	0.1
Salmonellosis	112	112	22.3	139	139	22.0
Shigellosis	17	17	2.3	24	24	3.2
Tuberculosis disease	26	26	6.7	20	20	6.4
Typhoid fever	7	7	0.9	7	7	0.9
Viral Haemorrhagic Fever	1	1	0.0	0	0	0.0
VTEC/STEC infection	40	40	7.6	19	19	4.3
Yersiniosis	62	62	14.0	51	51	15.0

<sup>1</sup> These data are provisional.

<sup>2</sup> Rate is based on the cumulative total for the current year (12 months up to and including January 2016) or the previous year (12 months up to and including January 2015), expressed as cases per 100,000. This includes cases still under investigation.

<sup>3</sup> Cases of gastroenteritis from a common source or foodborne intoxication.

<sup>4</sup> Only acute cases of this disease are currently notifiable.

<sup>5</sup> 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 January: Paralytic shellfish poisoning (1), Toxic shellfish poisoning (1), Zika virus (10).

# Notifiable Disease Surveillance Data by District Health Board January 2016

		Cases <sup>1</sup> and current rate <sup>2</sup> for January 2016 by District Health Board <sup>3</sup>																			
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	32	112	56	61	63	18	27	4	27	36	12	24	19	42	6	24	5	67	23	62
	Rate	156.9	147.0	107.1	94.1	154.4	158.4	108.4	99.2	197.6	158.9	139.0	116.8	129.2	128.2	166.7	154.7	241.6	134.4	221.8	166.9
Cryptosporidiosis	Cases	2	9	9	2	1	3	1	3	0	0	1	1	0	4	0	1	0	2	1	1
	Rate	17.2	14.8	11.4	14.2	29.2	14.3	9.0	14.8	19.8	15.6	16.0	24.4	5.6	9.0	23.1	7.6	15.3	12.5	25.6	18.5
Dengue fever	Cases	0	0	3	4	0	0	1	3	0	0	0	1	0	3	0	0	0	0	0	1
	Rate	0.0	3.0	5.1	4.8	1.8	1.0	1.4	8.4	0.9	0.0	0.0	1.2	0.0	5.3	0.0	1.4	0.0	0.8	1.7	1.6
Gastroenteritis	Cases	0	2	11	2	1	1	1	1	1	0	0	5	0	6	1	2	0	1	0	0
	Rate	0.6	10.6	23.5	6.5	2.0	13.4	7.7	8.4	6.0	0.6	27.2	40.7	12.5	24.9	11.6	2.1	18.3	5.5	1.7	3.5
Giardiasis	Cases	1	13	21	20	11	4	6	6	3	12	2	3	1	4	0	3	0	12	2	10
	Rate	33.3	35.6	39.4	32.4	31.2	55.3	29.8	54.9	23.3	51.1	27.2	16.3	11.8	47.5	30.1	40.7	33.6	26.6	22.2	23.9
Haemophilus influenzae type b	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.4	0.0	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	1.8	1.4	0.6	1.7	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.7	1.8	0.4	0.5	1.9	0.9	0.0	0.9	0.6	0.0	1.2	0.7	0.7	0.0	0.7	0.0	0.6	0.0	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	2	0
	Rate	1.8	0.3	0.4	0.0	0.0	0.0	0.0	0.0	1.7	0.6	1.6	0.0	2.1	1.0	0.0	2.8	3.1	1.7	3.4	1.3
Invasive pneumococcal	Cases	2	1	4	4	1	1	1	1	1	1	0	2	0	2	0	0	0	2	0	1
	Rate	17.8	5.9	8.2	14.0	10.0	21.9	12.6	16.9	6.9	10.0	8.0	9.3	10.4	9.0	13.9	6.9	12.2	7.8	5.1	9.9
Legionellosis	Cases	4	7	3	3	2	0	6	0	1	1	0	1	3	5	1	0	0	2	0	1
	Rate	9.5	9.0	3.5	5.2	5.1	2.9	13.1	0.0	4.3	5.6	1.6	14.5	3.5	4.0	9.3	2.8	9.2	7.6	5.1	3.8
Leptospirosis	Cases	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.3	0.0	0.4	2.6	1.9	2.3	0.0	3.5	5.6	4.8	1.7	1.4	0.3	4.6	2.8	12.2	0.4	1.7	2.2
Listeriosis	Cases	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	0.5	0.8	0.6	0.3	0.0	2.7	0.0	0.0	0.0	1.6	0.0	1.4	1.0	2.3	0.7	0.0	0.4	0.0	0.3
Malaria	Cases	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0
	Rate	0.0	1.7	1.4	1.3	0.0	0.0	0.5	0.0	0.0	1.2	0.0	0.6	1.4	0.3	0.0	1.4	0.0	0.8	0.0	0.3
Measles	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.6	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	0	0	0	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	Rate	4.2	1.7	0.4	1.5	1.3	1.9	0.9	2.1	2.6	1.9	1.6	1.7	0.0	2.0	2.3	0.7	3.1	0.8	1.7	1.3
Mumps	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	0.5	0.0	0.6	0.0	0.0	0.0	2.1	2.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.9	1.0	0.8	1.5	1.9	0.0	0.0	0.0	1.2	1.6	0.0	0.0	0.7	2.3	0.7	0.0	0.6	0.0	1.0
Pertussis	Cases	1	6	10	8	17	2	3	1	1	3	0	2	2	19	1	1	0	42	1	7
	Rate	20.8	21.5	16.3	26.3	27.6	14.3	9.9	10.5	8.6	9.3	33.5	12.8	11.8	31.6	16.2	51.1	0.0	50.9	8.5	55.4
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rheumatic fever <sup>4</sup>	Cases	1	1	2	2	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	1
	Rate	2.4	1.4	3.7	6.5	2.6	4.8	4.1	8.4	1.7	2.5	0.0	2.3	2.8	1.0	2.3	0.0	0.0	0.6	0.0	0.6
Rickettsial disease	Cases	0	2	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	0.0	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	1
	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	0.3
Salmonellosis	Cases	2	17	17	10	5	1	2	9	3	1	0	1	5	13	3	2	0	10	3	8
	Rate	13.7	24.5	23.7	13.2	14.3	15.3	16.7	46.4	19.0	15.6	12.8	22.1	15.3	22.6	25.5	20.7	21.4	28.3	46.1	43.6
Shigellosis	Cases	0	4	3	5	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	1
	Rate	0.0	2.6	4.9	5.2	1.3	1.0	1.8	0.0	0.9	0.6	0.0	1.7	1.4	1.7	0.0	0.0	0.0	2.1	0.0	1.6
Tuberculosis disease	Cases	1	1	3	5	3	1	3	0	0	3	0	1	0	3	0	0	0	2	0	0
	Rate	1.8	6.4	12.0	13.4	6.4	7.6	4.1	2.1	2.6	7.5	4.8	4.6	2.1	8.6	0.0	2.1	0.0	5.9	0.0	1.6
Typhoid fever	Cases	0	0	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	1.8	4.0	1.0	0.0	0.9	0.0	0.0	0.0	0.0	0.6	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.6
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	1	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	1.0	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	4	14	6	4	3	1	4	0	0	0	0	0	0	0	0	2	0	2	0	0
	Rate	16.0	12.7	9.6	9.4	13.8	5.7	7.7	0.0	6.0	1.2	3.2	1.7	0.7	2.0	2.3	7.6	9.2	4.6	6.8	4.5
Yersiniosis	Cases	0	6	6	7	2	2	2	0	0	1	1	1	3	7	1	1	0	16	2	4
	Rate	4.2	9.6	9.8	10.5	11.5	11.5	16.3	19.0	12.9	8.1	11.2	5.8	20.8	21.3	4.6	6.2	21.4	30.8	30.7	13.1

<sup>1</sup> These data are provisional.

<sup>2</sup> Current rate is based on the cumulative total for the 12 months up to and including January 2016 expressed as cases per 100,000. This includes cases still under investigation.

<sup>3</sup> Further data are available from the local Medical Officer of Health.

<sup>4</sup> 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 January 2016

		Cases <sup>1</sup> and current rate <sup>2</sup> for January 2016 by District Health Board <sup>3</sup>																			
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	32	112	56	61	63	18	27	4	27	36	12	24	19	42	6	24	5	67	23	62
	Rate	156.9	147.0	107.1	94.1	154.4	158.4	108.4	99.2	197.6	158.9	139.0	116.8	129.2	128.2	166.7	154.7	241.6	134.4	221.8	166.9
Cryptosporidiosis	Cases	2	9	9	2	1	3	1	3	0	0	1	1	0	4	0	1	0	2	1	1
	Rate	17.2	14.8	11.4	14.2	29.2	14.3	9.0	14.8	19.8	15.6	16.0	24.4	5.6	9.0	23.1	7.6	15.3	12.5	25.6	18.5
Dengue fever	Cases	0	0	3	4	0	0	1	3	0	0	0	1	0	3	0	0	0	0	0	1
	Rate	0.0	3.0	5.1	4.8	1.8	1.0	1.4	8.4	0.9	0.0	0.0	1.2	0.0	5.3	0.0	1.4	0.0	0.8	1.7	1.6
Gastroenteritis	Cases	0	2	11	2	1	1	1	1	1	0	0	5	0	6	1	2	0	1	0	0
	Rate	0.6	10.6	23.5	6.5	2.0	13.4	7.7	8.4	6.0	0.6	27.2	40.7	12.5	24.9	11.6	2.1	18.3	5.5	1.7	3.5
Giardiasis	Cases	1	13	21	20	11	4	6	6	3	12	2	3	1	4	0	3	0	12	2	10
	Rate	33.3	35.6	39.4	32.4	31.2	55.3	29.8	54.9	23.3	51.1	27.2	16.3	11.8	47.5	30.1	40.7	33.6	26.6	22.2	23.9
Haemophilus influenzae type b	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.4	0.0	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	1.8	1.4	0.6	1.7	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.7	1.8	0.4	0.5	1.9	0.9	0.0	0.9	0.6	0.0	1.2	0.7	0.7	0.0	0.7	0.0	0.6	0.0	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	2	0
	Rate	1.8	0.3	0.4	0.0	0.0	0.0	0.0	0.0	1.7	0.6	1.6	0.0	2.1	1.0	0.0	2.8	3.1	1.7	3.4	1.3
Invasive pneumococcal disease	Cases	2	1	4	4	1	1	1	1	1	1	0	2	0	2	0	0	0	2	0	1
	Rate	17.8	5.9	8.2	14.0	10.0	21.9	12.6	16.9	6.9	10.0	8.0	9.3	10.4	9.0	13.9	6.9	12.2	7.8	5.1	9.9
Legionellosis	Cases	4	7	3	3	2	0	6	0	1	1	0	1	3	5	1	0	0	2	0	1
	Rate	9.5	9.0	3.5	5.2	5.1	2.9	13.1	0.0	4.3	5.6	1.6	14.5	3.5	4.0	9.3	2.8	9.2	7.6	5.1	3.8
Leptospirosis	Cases	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.3	0.0	0.4	2.6	1.9	2.3	0.0	3.5	5.6	4.8	1.7	1.4	0.3	4.6	2.8	12.2	0.4	1.7	2.2
Listeriosis	Cases	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	0.5	0.8	0.6	0.3	0.0	2.7	0.0	0.0	0.0	1.6	0.0	1.4	1.0	2.3	0.7	0.0	0.4	0.0	0.3
Malaria	Cases	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0
	Rate	0.0	1.7	1.4	1.3	0.0	0.0	0.5	0.0	0.0	1.2	0.0	0.6	1.4	0.3	0.0	1.4	0.0	0.8	0.0	0.3
Measles	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.6	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	0	0	0	2	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	Rate	4.2	1.7	0.4	1.5	1.3	1.9	0.9	2.1	2.6	1.9	1.6	1.7	0.0	2.0	2.3	0.7	3.1	0.8	1.7	1.3
Mumps	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.8	0.5	0.0	0.6	0.0	0.0	0.0	2.1	2.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.9	1.0	0.8	1.5	1.9	0.0	0.0	0.0	1.2	1.6	0.0	0.0	0.7	2.3	0.7	0.0	0.6	0.0	1.0
Pertussis	Cases	1	6	10	8	17	2	3	1	1	3	0	2	2	19	1	1	0	42	1	7
	Rate	20.8	21.5	16.3	26.3	27.6	14.3	9.9	10.5	8.6	9.3	33.5	12.8	11.8	31.6	16.2	51.1	0.0	50.9	8.5	55.4
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rheumatic fever <sup>4</sup>	Cases	1	1	2	2	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	1
	Rate	2.4	1.4	3.7	6.5	2.6	4.8	4.1	8.4	1.7	2.5	0.0	2.3	2.8	1.0	2.3	0.0	0.0	0.6	0.0	0.6
Rickettsial disease	Cases	0	2	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	0.0	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	1
	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	0.3
Salmonellosis	Cases	2	17	17	10	5	1	2	9	3	1	0	1	5	13	3	2	0	10	3	8
	Rate	13.7	24.5	23.7	13.2	14.3	15.3	16.7	46.4	19.0	15.6	12.8	22.1	15.3	22.6	25.5	20.7	21.4	28.3	46.1	43.6
Shigellosis	Cases	0	4	3	5	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	1
	Rate	0.0	2.6	4.9	5.2	1.3	1.0	1.8	0.0	0.9	0.6	0.0	1.7	1.4	1.7	0.0	0.0	0.0	2.1	0.0	1.6
Tuberculosis disease	Cases	1	1	3	5	3	1	3	0	0	3	0	1	0	3	0	0	0	2	0	0
	Rate	1.8	6.4	12.0	13.4	6.4	7.6	4.1	2.1	2.6	7.5	4.8	4.6	2.1	8.6	0.0	2.1	0.0	5.9	0.0	1.6
Typhoid fever	Cases	0	0	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	1.8	4.0	1.0	0.0	0.9	0.0	0.0	0.0	0.0	0.6	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.6
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	1	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	1.0	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	4	14	6	4	3	1	4	0	0	0	0	0	0	0	0	2	0	2	0	0
	Rate	16.0	12.7	9.6	9.4	13.8	5.7	7.7	0.0	6.0	1.2	3.2	1.7	0.7	2.0	2.3	7.6	9.2	4.6	6.8	4.5
Yersiniosis	Cases	0	6	6	7	2	2	2	0	0	1	1	1	3	7	1	1	0	16	2	4
	Rate	4.2	9.6	9.8	10.5	11.5	11.5	16.3	19.0	12.9	8.1	11.2	5.8	20.8	21.3	4.6	6.2	21.4	30.8	30.7	13.1

<sup>1</sup> These data are provisional.

<sup>2</sup> Current rate is based on the cumulative total for the 12 months up to and including January 2016 expressed as cases per 100,000. This includes cases still under investigation.

<sup>3</sup> Further data are available from the local Medical Officer of Health.

<sup>4</sup> 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 January 2016

Disease	Current Year - 2016 <sup>1</sup>			Previous Year - 2015		
	January 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	January 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	720	720	136.3	676	676	148.2
Cryptosporidiosis	41	41	15.2	37	37	13.0
Dengue fever	16	16	2.5	28	28	4.1
Gastroenteritis <sup>3</sup>	35	35	10.8	39	39	16.5
Giardiasis	134	134	33.1	124	124	36.8
Haemophilus influenzae type b	2	2	0.1	0	0	0.1
Hepatitis A	2	2	0.9	7	7	1.6
Hepatitis B <sup>4</sup>	1	1	0.7	2	2	0.8
Hepatitis C <sup>4</sup>	6	6	0.8	4	4	0.6
Invasive pneumococcal disease	24	24	9.9	18	18	10.7
Legionellosis	40	40	6.2	7	7	2.6
Leptospirosis	5	5	1.4	5	5	1.3
Listeriosis	3	3	0.6	1	1	0.5
Malaria	3	3	0.8	3	3	0.8
Measles	1	1	0.2	0	0	5.7
Meningococcal disease	6	6	1.4	5	5	1.1
Mumps	2	2	0.3	1	1	0.4
Paratyphoid fever	2	2	0.8	1	1	0.4
Pertussis	127	127	26.9	61	61	22.1
Rheumatic fever <sup>5</sup>	12	12	2.5	9	9	4.2
Rickettsial disease	2	2	0.2	1	1	0.2
Rubella	1	1	0.0	0	0	0.1
Salmonellosis	112	112	22.3	139	139	22.0
Shigellosis	17	17	2.3	24	24	3.2
Tuberculosis disease	26	26	6.7	20	20	6.4
Typhoid fever	7	7	0.9	7	7	0.9
Viral Haemorrhagic Fever	1	1	0.0	0	0	0.0
VTEC/STEC infection	40	40	7.6	19	19	4.3
Yersiniosis	62	62	14.0	51	51	15.0

<sup>1</sup> These data are provisional.

<sup>2</sup> Rate is based on the cumulative total for the current year (12 months up to and including January 2016) or the previous year (12 months up to and including January 2015), expressed as cases per 100,000. This includes cases still under investigation.

<sup>3</sup> Cases of gastroenteritis from a common source or foodborne intoxication.

<sup>4</sup> Only acute cases of this disease are currently notifiable.

<sup>5</sup> 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 January: Paralytic shellfish poisoning (1), Toxic shellfish poisoning (1), Zika virus (10).

# National Notifiable Disease Surveillance Data – Monthly totals for January 2016 and preceding 11 Months<sup>1</sup>

Disease	Jan 2016	Dec 2015	Nov 2015	Oct 2015	Sep 2015	Aug 2015	Jul 2015	Jun 2015	May 2015	Apr 2015	Mar 2015	Feb 2015
Campylobacteriosis	720	756	779	579	570	488	420	371	380	327	417	455
Cryptosporidiosis	41	32	66	163	175	79	23	22	25	34	23	17
Dengue fever	16	6	6	7	4	8	7	5	4	5	21	24
Gastroenteritis <sup>2</sup>	35	66	47	27	54	28	43	40	32	43	41	41
Giardiasis	134	112	139	120	123	137	110	114	127	122	132	150
Haemophilus influenzae type b	2	0	0	0	0	0	0	2	0	1	0	0
Hepatitis A	2	3	5	7	0	5	2	3	2	2	2	9
Hepatitis B <sup>3</sup>	1	2	2	5	4	4	1	1	4	3	4	2
Hepatitis C <sup>3</sup>	6	1	6	4	4	2	2	3	2	1	1	5
Invasive pneumococcal disease	24	34	47	44	42	55	65	50	27	25	29	15
Legionellosis	40	51	45	30	17	7	11	18	24	19	10	15
Leptospirosis	5	3	6	7	0	2	8	2	8	4	10	8
Listeriosis	3	4	3	1	3	0	3	4	3	0	2	2
Malaria	3	6	1	2	5	4	3	2	4	3	2	3
Measles	1	1	0	0	0	0	0	2	4	1	2	0
Meningococcal disease	6	5	4	6	11	15	5	9	0	2	0	2
Mumps	2	1	0	2	3	2	2	1	1	0	0	0
Paratyphoid fever	2	3	3	3	2	1	2	1	2	6	3	7
Pertussis	127	88	109	92	181	161	102	93	65	70	77	69
Rheumatic fever <sup>4</sup>	12	6	9	9	4	7	13	14	19	6	4	12
Rickettsial disease	2	0	0	1	2	2	0	2	0	0	0	0
Rubella	1	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	112	79	72	96	94	58	64	58	83	96	103	109
Shigellosis	17	4	8	10	10	7	5	7	9	7	11	9
Tuberculosis disease	26	33	27	23	23	20	22	22	29	25	34	22
Typhoid fever	7	7	9	3	1	3	3	2	2	1	4	1
Viral Haemorrhagic Fever	1	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	40	35	27	39	34	37	16	11	15	35	40	22
Yersiniosis	62	41	116	68	63	68	46	31	35	34	44	37

<sup>1</sup> These data are provisional.

<sup>2</sup> Cases of gastroenteritis from a common source or foodborne intoxication.

<sup>3</sup> Only acute cases of this disease are currently notifiable.

<sup>4</sup> 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.