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## MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by Public Health Service (PHS) staff at 07 April 2017. Changes made to EpiSurv data after this date will not be reflected in this report. The results presented may be updated and should be regarded as provisional.

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### 1. Key notifiable disease trends

*Cronobacter species*: One confirmed *Cronobacter* species was notified in March 2017. The case was a male in the 60–69 years age group from Tairāwhiti DHB.

*Dengue Fever*: Eight cases of dengue fever (7 confirmed and 1 probable) were notified in March 2017 compared to 21 cases notified during the same month of the previous year. All cases had been overseas during the incubation period. The countries visited included Fiji (3 cases), Solomon Islands and Vanuatu (2 cases each), and Malaysia (1 case).

*Leptospirosis*: 16 cases of leptospirosis (8 confirmed, 1 probable and 7 under investigation) were notified in March 2017 compared to five cases notified during the same month of the previous year (Figure 1). The highest number of cases was reported from Waikato (5 cases) DHB. Cases were reported in the 60–69 years (4 cases), 20–29 years, 30–39 years, 40–49 years, and 50–59 years (3 cases each) age groups. Occupation was recorded for 81.3% (13/16) of cases. Of these, eight were engaged in occupation previously identified as high risk exposure to *Leptospira* species: farmers or farm workers (7 cases) and meat worker (1 case). One case reported exposure through swimming in stream water and another through time spent camping in a forest. Six cases did not have any risk factor information recorded. The *Leptospira* species was recorded for four cases which included: *L. Ballum*, *L. Hardjo*, *L. Pomona*, and *L. Tarassovi*.

*Mumps*: 30 cases of mumps (20 confirmed, 2 probable and 8 under investigation) were notified in March 2017 compared with one case notified during the same month of the previous year. The cases were reported from Waitemata (15 cases), Counties Manukau (5 cases), Canterbury (3 cases), Auckland, Waikato (2 cases each), and Northland, MidCentral, and Southern DHBs (1 case each). Cases were in the 15–19 years (8 cases), 5–9 years (6 cases), 10–14 years (5 cases), 30–39 years, 40–49 years (3 cases each), 20–29 years (2 cases), less than one year, 1–4 years, and 70 years and over (1 case each) age groups. Ten cases were recorded as immunised of which seven cases had received two doses of the vaccine and three cases had received one dose. One interim mumps virus outbreak (case numbers yet to be determined) was created in March.

*Pertussis*: 112 cases of pertussis (59 confirmed, 45 probable, 1 suspected, and 7 under investigation) were notified in March 2017 compared to 81 cases in the same month of the previous year. The 12-month rate for the period ending 31 March (24.0 cases per 100,000) was lower than at the same time in the previous year

(27.2 per 100,000). Six cases were hospitalised and no deaths were reported. Fifty-one percent (57/112) of cases were laboratory-confirmed (11 by culture, 41 by PCR, and 5 by culture and PCR). The highest number of cases was reported from Southern (16 cases), followed by Capital & Coast (15 cases) and Canterbury (12 cases) DHBs. Cases ranged in age from three months to 86 years, with 14.3% (16/112) under five years of age (including 3 cases aged less than 1 year). The highest numbers of cases were in the 5–9 years (17 cases) and 15–19 years (15 cases) age groups. Three finalised *Bordetella pertussis* outbreaks (12 cases) and three interim outbreaks (case numbers yet to be determined) were created in March.

*Rheumatic fever*: Eighteen cases of rheumatic fever - initial attack (14 confirmed, 3 probable and 1 suspect) and one probable case of rheumatic fever – recurrent attack were notified in March 2017. This compares with nine cases (7 initial and 2 recurrent attack) in the same month of the previous year. The cases were reported from Counties Manukau (6 cases), Waikato (4 cases), Waitemata, Auckland, Bay of Plenty (2 cases each), MidCentral, Hutt Valley and Nelson Marlborough (1 case each) DHBs. Cases ranged in age from 6 to 40 years, with the highest number of cases in the 5–9 years (6 cases) and 10–14 years (5 cases) age groups. Cases were reported in the Pacific peoples (10 cases), Māori (8 cases) and European or Other (1 case) ethnic groups. Seventeen cases 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.

*Typhoid fever*: Fifteen confirmed cases of typhoid fever were notified in March 2017 compared to four cases notified during the same month of the previous year (Figure 2). Cases were reported from Auckland (9 cases), Counties Manukau (5 cases), and Southern (1 case) DHBs. Age was recorded for 14/15 cases. Cases were in the 20–29 years (4 cases), 5–9 years (3 cases), 1–4 years, 10–14 years (2 cases each), 30–39 years, 50–59 years and 60–69 years (1 case each) age groups. Twelve cases were hospitalised. All cases were lab confirmed, of these 12 cases had the phage type recorded as *Salmonella* Typhi phage type E1a. Overseas travel information was recorded for all cases, of which five cases reported travelling during the incubation period for the disease, including one case who visited more than one country. Countries visited were India (3 cases), Thailand (2 cases), Myanmar and Samoa (1 case each). One interim *Salmonella* Typhi outbreak (case numbers yet to be determined) was created in March.

*VTEC/STEC infection*: 91 cases of VTEC/STEC infection (81 confirmed and 10 under investigation) were notified in March 2017 compared to 55 cases confirmed during the same month of the previous year. The 12-month rate for the period ending 31 March 2017 (9.0 cases per 100,000 population) was the same as the equivalent period for the previous year. The highest numbers of cases were reported from Northland, Southern (15 cases each), Counties Manukau (13 cases), and Waitemata (12 cases) DHBs. Cases ranged in age from three months to 99 years, with the highest number of cases in the 1–4 years (22 cases). Twenty-one cases were hospitalised. Thirty-eight 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 (38 cases) and non-O157 15 cases). Of the cases for which risk factor information was recorded, 73.6% (39/53) had contact with animals, 25.0% (12/48) had recreational contact with water, 25.0% (12/48) had contact with children in nappies, and 13.7% (7/51) had contact with a person with similar symptoms during the incubation periods for the disease. One finalised *E. coli* O157 outbreak was created in March (2 cases).

*Yersiniosis*: 82 cases of yersiniosis (80 confirmed, 1 probable, and 1 under investigation) were notified in March 2017 compared to 46 cases notified in the same month of the previous year. The highest numbers of cases were reported from Auckland, Canterbury (11 cases), Bay of Plenty (10 cases) and Hutt valley (9 cases) DHBs. Cases ranged in age from three months to 93 years, with the highest number of cases in the 1–4 years (23 cases), 60–69 years (11 cases), and 50–59 years (9 cases) age groups. Five cases were hospitalised. The *Yersinia* species involved was identified by ESR for 91.5% (75/82) cases. The most common *Y. enterocolitica* biotypes reported were Biotype 2 (40 cases), Biotype 4 (15 cases) and Biotype 3 (13 cases). Among the cases for which risk factor information was recorded, 42.9% (18/42) had consumed food from a food premises, 29.3% (12/41) had recreational contact with water, 14.3% (6/42) attended school, preschool or childcare during the incubation period for the disease and 15.8% (6/38) had contact with other faecal matter or vomit. One finalised *Yersinia* outbreak was created in March (5 cases).

## 2. Outbreaks

During March 2017, a total of 40 outbreaks (15 final and 25 interim) were created in EpiSurv (Table 1 and Table 2). Twenty-five (62.5%) were outbreaks of acute gastroenteritis (6 finalised and 19 interim) involving 194 cases in total. This compares with 34 acute gastroenteritis outbreaks involving 585 cases in total created during the same month of the previous year. Of the 25 acute gastroenteritis outbreaks, the pathogens were recorded as: norovirus (3 outbreaks), rotavirus and sapovirus (1 outbreak each). The most commonly reported mode of transmission in acute gastroenteritis outbreaks (48.0%, 12/25) was person-to-person (11 primary and 1 secondary). Of the outbreaks that had an exposure setting recorded (68.0%, 17/25) the most commonly reported setting were childcare centres (9 outbreaks) and long term care facilities (6 outbreaks).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Waikato, Southern	3	12
<i>Campylobacter</i>	Auckland	1	5
<i>Escherichia coli</i> O157:H7	Counties Manukau	1	2
Flavivirus <sup>1</sup>	Hawke's Bay	1	3
Gastroenteritis	Auckland, Bay of Plenty, Hutt Valley, Capital & Coast, Canterbury	5	50
<i>Giardia</i>	Bay of Plenty, Nelson Marlborough	2	7
Rotavirus	Taranaki	1	8
<i>Salmonella</i>	Counties Manukau	1	2
<i>Yersinia</i>	Auckland	1	5
<b>Total</b>		<b>15</b>	<b>89</b>

<sup>1</sup> Includes outbreak reported to PHSs prior to March 2017: flavivirus (1) reported in February 2017.

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i> <sup>1</sup>	Hawke's Bay, Hutt Valley Capital & Coast	3	15
Gastroenteritis <sup>1</sup>	Northland, Waitemata, Auckland, Waikato, Taranaki, Hawke's Bay Whanganui, Hutt Valley Capital & Coast, Nelson Marlborough, Southern	15	69
Influenza-like illness	Capital & Coast	1	29
Mumps virus <sup>1</sup>	Waitemata	1	-
Norovirus	Auckland, Whanganui, Capital & Coast	3	56
<i>Salmonella</i> <sup>1</sup>	Waikato	1	-
<i>Salmonella</i> Typhi <sup>1</sup>	Auckland	1	7
Sapovirus	Southern	1	11
<b>Total</b>		<b>25</b>	<b>158</b>

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

### 3. Deaths from notifiable diseases

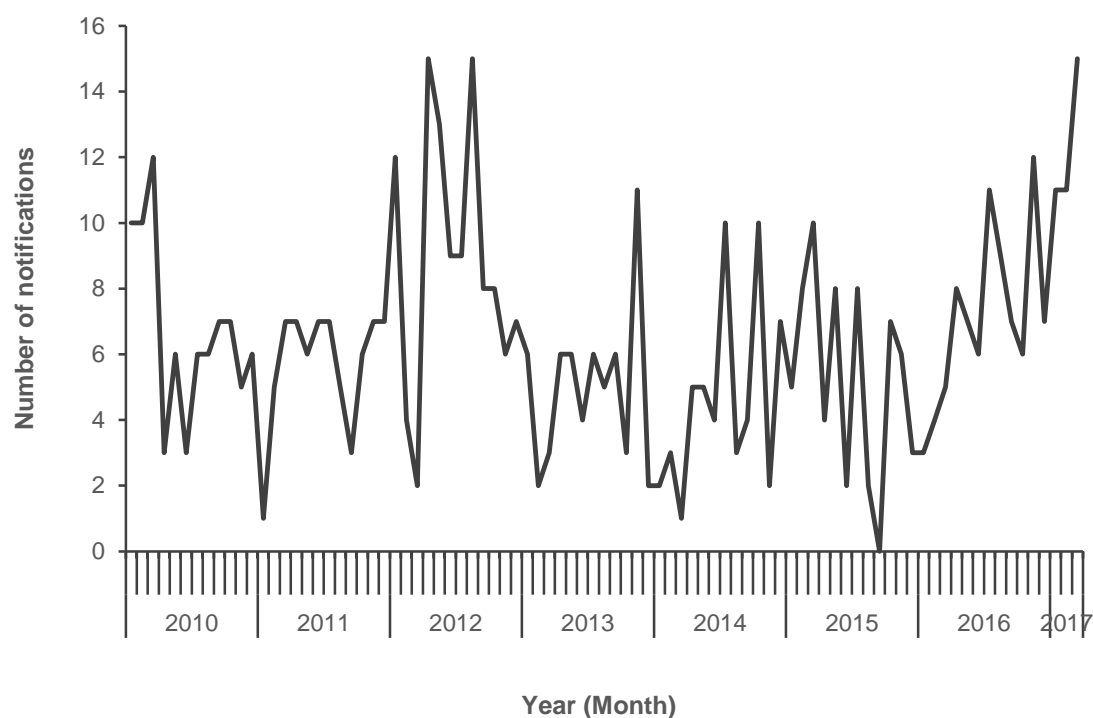
Two deaths, where the primary cause of death was a notifiable disease, were reported in March 2017 (Table 3).

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

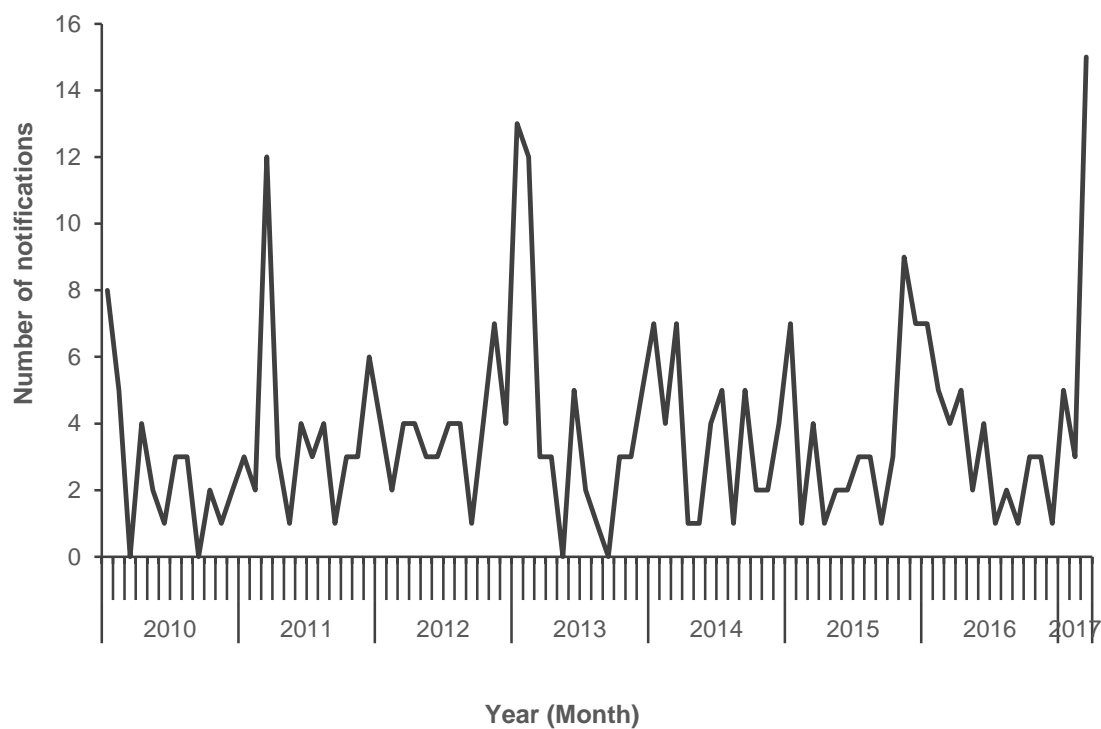
Disease	District health board	Age group (years)
Invasive pneumococcal disease	Waikato	70+
Typhoid fever	Auckland	50–59

#### 4. Trends in selected diseases to March 2017

**Figure 1. Leptospirosis infection notifications by month, January 2010–March 2017**



**Figure 2. Typhoid fever notifications by month, January 2010–March 2017**



## 5. Data tables

### National Notifiable Disease Surveillance Data March 2017

Disease	Current Year - 2017 <sup>1</sup>			Previous Year - 2016		
	March 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	March 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	436	1656	160.2	418	1592	136.3
Cryptosporidiosis	49	141	22.8	51	134	16.4
Dengue fever	8	29	3.0	21	77	2.8
Gastroenteritis <sup>3</sup>	29	87	10.1	50	125	11.0
Giardiasis	162	421	32.8	182	496	34.8
Haemophilus influenzae type b	0	0	0.0	0	1	0.1
Hepatitis A	2	19	1.0	4	8	0.8
Hepatitis B <sup>4</sup>	5	15	0.9	1	5	0.7
Hepatitis C <sup>4</sup>	3	8	0.6	4	12	0.8
Invasive pneumococcal disease	19	76	10.5	24	60	9.7
Legionellosis	23	87	5.3	23	84	6.5
Leptospirosis	16	38	2.4	5	12	1.1
Listeriosis	2	3	0.6	6	11	0.7
Malaria	5	12	0.6	3	10	0.9
Measles	2	11	2.3	0	6	0.3
Meningococcal disease	7	13	1.7	3	10	1.5
Mumps	30	61	1.7	1	1	0.3
Paratyphoid fever	3	8	0.6	5	11	0.7
Pertussis	112	319	24.0	81	288	27.2
Rheumatic fever <sup>5</sup>	19	41	3.2	9	28	2.5
Rickettsial disease	0	1	0.1	0	2	0.2
Rubella	0	0	0.0	1	2	0.0
Salmonellosis	115	320	22.7	102	347	22.8
Shigellosis	19	56	4.0	9	41	2.3
Tuberculosis disease	30	90	6.7	22	72	6.3
Typhoid fever	15	24	1.0	4	16	1.0
VTEC/STEC infection	91	167	9.0	55	165	9.0
Yersiniosis	82	218	19.8	46	147	14.1

<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 March 2017) or the previous year (12 months up to and including March 2016), 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 March: Cronobacter species (1) , Hepatitis NOS (2) , Taeniasis (1) , Zika virus (1)

# Notifiable Disease Surveillance Data by District Health Board March 2017

		Cases <sup>1</sup> and current rate <sup>2</sup> for March 2017 by District Health Board <sup>3</sup>																			
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	10	29	48	35	30	15	9	3	12	13	6	22	17	26	3	18	4	54	16	66
	Rate	154.0	122.2	101.5	94.5	140.9	134.1	109.4	154.8	193.5	825.3	169.8	175.7	135.7	139.3	158.3	125.7	175.4	146.4	233.1	204.5
Cryptosporidiosis	Cases	1	8	4	11	6	0	0	2	0	1	1	0	0	0	0	1	0	8	0	6
	Rate	60.7	23.2	17.9	20.0	30.8	17.8	7.1	27.2	38.5	14.9	34.9	29.9	8.2	19.2	43.6	19.1	12.3	21.5	23.6	20.1
Dengue fever	Cases	0	0	2	2	0	1	0	0	1	0	0	0	0	1	0	0	0	1	0	0
	Rate	1.2	2.5	3.0	3.6	3.0	1.9	6.6	0.0	6.0	5.6	0.0	2.3	2.7	3.9	2.3	3.4	0.0	2.8	1.7	1.6
Gastroenteritis	Cases	1	2	7	2	1	0	2	0	0	0	5	0	1	3	0	0	0	2	0	3
	Rate	9.3	9.0	17.5	6.2	1.5	11.3	12.4	0.0	6.0	1.9	20.6	20.7	20.6	20.9	16.1	1.4	27.7	8.9	3.4	4.4
Giardiasis	Cases	3	17	16	27	20	12	12	4	3	7	1	2	5	10	1	2	1	11	0	8
	Rate	32.1	28.3	33.7	36.1	37.3	54.4	33.1	123.4	34.2	39.0	27.0	21.2	27.4	38.5	20.6	30.7	21.5	25.2	25.3	27.3
Haemophilus influenzae type b	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	0.2	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
Hepatitis A	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.6	1.4	1.2	2.4	0.3	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.7	1.6	0.0	2.7	3.1	0.6	0.0	0.6
Hepatitis B	Cases	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.5	2.2	1.7	1.5	0.0	0.4	0.0	2.6	0.6	0.0	0.0	0.0	0.7	2.3	0.0	0.0	0.9	0.0	0.6
Hepatitis C	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Rate	0.6	0.2	0.0	0.0	0.0	0.9	0.0	0.0	0.9	1.2	0.0	0.0	2.1	0.7	2.3	1.4	0.0	1.3	0.0	1.6
Invasive pneumococcal	Cases	0	0	2	3	1	2	1	1	0	2	0	0	0	2	0	2	1	1	0	1
	Rate	18.1	10.0	10.3	15.9	8.3	18.8	17.6	20.9	1.7	9.3	9.5	4.0	6.9	8.2	6.9	8.9	6.2	8.3	18.6	7.5
Legionellosis	Cases	4	6	1	1	0	1	2	0	1	0	0	0	1	1	0	1	0	4	0	0
	Rate	13.4	5.6	4.5	4.7	3.0	4.7	9.7	0.0	2.6	1.2	0.0	1.7	5.5	1.3	4.6	10.9	18.5	8.7	5.1	4.1
Leptospirosis	Cases	0	1	0	0	5	0	2	0	0	0	0	1	1	0	1	0	2	1	0	2
	Rate	9.3	0.7	0.2	0.4	7.5	0.9	2.2	2.1	5.1	8.1	4.8	4.0	0.7	0.3	4.6	2.0	12.3	0.4	0.0	2.8
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.0	0.5	0.4	0.7	0.5	0.0	1.3	2.1	0.0	1.2	0.0	0.0	2.1	0.7	0.0	0.7	0.0	0.7	0.0	0.6
Malaria	Cases	0	0	0	2	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
	Rate	1.2	0.7	1.2	0.4	0.5	0.0	1.3	0.0	0.9	0.6	0.0	0.0	0.0	0.7	0.0	1.4	0.0	0.4	0.0	0.3
Measles	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.5	0.5	0.4	0.4	14.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.7	1.6	2.3	2.0	0.0	0.0	0.0	0.3
Meningococcal disease	Cases	1	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1
	Rate	1.8	1.0	1.2	2.4	2.0	0.9	2.6	2.1	0.0	1.2	0.0	1.1	0.0	2.0	2.3	0.7	3.1	0.6	0.0	5.6
Mumps	Cases	1	15	2	5	2	0	0	0	0	0	0	1	0	0	0	0	0	3	0	1
	Rate	2.9	5.6	1.4	2.8	0.8	2.8	0.0	0.0	0.9	0.0	0.0	0.6	0.7	1.0	0.0	0.0	3.1	0.9	0.0	0.6
Paratyphoid fever	Cases	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	0.0	0.5	2.0	0.7	0.0	0.0	0.0	0.0	0.9	0.6	0.0	0.6	0.7	0.7	2.3	0.7	0.0	0.4	0.0	0.6
Pertussis	Cases	2	7	10	5	7	3	5	0	6	9	0	6	4	15	0	5	0	12	0	16
	Rate	7.0	15.2	9.9	7.5	26.0	51.6	25.1	12.6	89.9	11.8	22.2	18.4	15.1	43.4	0.0	28.7	6.2	45.4	15.2	27.6
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	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	0	2	2	6	4	0	2	0	0	0	0	1	1	0	0	1	0	0	0	0
	Rate	2.3	3.2	4.5	9.4	2.3	4.7	4.9	2.1	0.9	4.3	0.0	3.4	2.7	2.3	0.0	0.7	0.0	0.4	0.0	0.0
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.2	0.2	0.5	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	0.2	0.0	0.0
Salmonellosis	Cases	5	12	14	4	10	0	5	3	1	3	2	0	2	9	0	1	1	26	2	15
	Rate	25.1	18.1	19.3	12.5	30.0	16.9	18.5	69.0	17.1	23.5	22.2	22.4	15.8	22.8	27.5	21.9	18.5	29.3	33.8	32.6
Shigellosis	Cases	2	1	2	7	0	2	0	0	0	2	0	0	0	2	0	0	0	0	0	1
	Rate	2.9	5.9	6.1	8.6	3.3	1.9	4.0	8.4	0.0	2.5	1.6	1.1	2.1	4.6	0.0	1.4	0.0	1.7	0.0	2.8
Tuberculosis disease	Cases	0	4	6	3	1	2	1	0	1	1	0	0	3	3	0	0	0	3	0	2
	Rate	0.6	6.8	12.4	10.7	5.0	6.6	3.1	2.1	3.4	10.5	3.2	2.9	4.8	8.2	6.9	4.8	0.0	6.9	3.4	3.1
Typhoid fever	Cases	0	0	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.7	3.7	1.9	0.3	0.9	0.9	0.0	0.0	0.6	1.6	1.1	0.7	0.3	0.0	0.0	0.0	0.2	0.0	0.6
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VTEC/STEC infection	Cases	15	12	6	13	9	3	2	0	1	2	1	2	1	3	0	0	1	3	2	15
	Rate	28.0	11.5	6.5	11.8	11.0	10.3	7.1	0.0	14.6	6.8	7.9	2.9	2.1	1.6	2.3	5.5	6.2	2.0	16.9	18.5
Yersiniosis	Cases	3	6	11	8	6	1	10	1	4	3	0	2	9	6	0	0	0	11	0	1
	Rate	17.5	19.1	20.1	11.6	16.3	27.2	29.6	23.0	10.3	14.3	6.3	8.0	25.4	30	13.8	6.1	24.6	31.7	32.1	17.2

<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 March 2017 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 March 2017

		Cases <sup>1</sup> and current rate <sup>2</sup> for March 2017 by District Health Board <sup>3</sup>																			
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	10	29	48	35	30	15	9	3	12	13	6	22	17	26	3	18	4	54	16	66
	Rate	154.0	122.2	101.5	94.5	140.9	134.1	109.4	154.8	193.5	825.3	169.8	175.7	135.7	139.3	158.3	125.7	175.4	146.4	233.1	204.5
Cryptosporidiosis	Cases	1	8	4	11	6	0	0	2	0	1	1	0	0	0	0	1	0	8	0	6
	Rate	60.7	23.2	17.9	20.0	30.8	17.8	7.1	27.2	38.5	14.9	34.9	29.9	8.2	19.2	43.6	19.1	12.3	21.5	23.6	20.1
Dengue fever	Cases	0	0	2	2	0	1	0	0	1	0	0	0	0	1	0	0	0	1	0	0
	Rate	1.2	2.5	3.0	3.6	3.0	1.9	6.6	0.0	6.0	5.6	0.0	2.3	2.7	3.9	2.3	3.4	0.0	2.8	1.7	1.6
Gastroenteritis	Cases	1	2	7	2	1	0	2	0	0	0	5	0	1	3	0	0	0	2	0	3
	Rate	9.3	9.0	17.5	6.2	1.5	11.3	12.4	0.0	6.0	1.9	20.6	20.7	20.6	20.9	16.1	1.4	27.7	8.9	3.4	4.4
Giardiasis	Cases	3	17	16	27	20	12	12	4	3	7	1	2	5	10	1	2	1	11	0	8
	Rate	32.1	28.3	33.7	36.1	37.3	54.4	33.1	123.4	34.2	39.0	27.0	21.2	27.4	38.5	20.6	30.7	21.5	25.2	25.3	27.3
Haemophilus influenzae type b	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	0.2	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
Hepatitis A	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.6	1.4	1.2	2.4	0.3	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.7	1.6	0.0	2.7	3.1	0.6	0.0	0.6
Hepatitis B	Cases	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.5	2.2	1.7	1.5	0.0	0.4	0.0	2.6	0.6	0.0	0.0	0.0	0.7	2.3	0.0	0.0	0.9	0.0	0.6
Hepatitis C	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Rate	0.6	0.2	0.0	0.0	0.0	0.9	0.0	0.0	0.9	1.2	0.0	0.0	2.1	0.7	2.3	1.4	0.0	1.3	0.0	1.6
Invasive pneumococcal disease	Cases	0	0	2	3	1	2	1	1	0	2	0	0	0	2	0	2	1	1	0	1
	Rate	18.1	10.0	10.3	15.9	8.3	18.8	17.6	20.9	1.7	9.3	9.5	4.0	6.9	8.2	6.9	8.9	6.2	8.3	18.6	7.5
Legionellosis	Cases	4	6	1	1	0	1	2	0	1	0	0	0	1	1	0	1	0	4	0	0
	Rate	13.4	5.6	4.5	4.7	3.0	4.7	9.7	0.0	2.6	1.2	0.0	1.7	5.5	1.3	4.6	10.9	18.5	8.7	5.1	4.1
Leptospirosis	Cases	0	1	0	0	5	0	2	0	0	0	0	1	1	0	1	0	2	1	0	2
	Rate	9.3	0.7	0.2	0.4	7.5	0.9	2.2	2.1	5.1	8.1	4.8	4.0	0.7	0.3	4.6	2.0	12.3	0.4	0.0	2.8
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.0	0.5	0.4	0.7	0.5	0.0	1.3	2.1	0.0	1.2	0.0	0.0	2.1	0.7	0.0	0.7	0.0	0.7	0.0	0.6
Malaria	Cases	0	0	0	2	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0
	Rate	1.2	0.7	1.2	0.4	0.5	0.0	1.3	0.0	0.9	0.6	0.0	0.0	0.0	0.7	0.0	1.4	0.0	0.4	0.0	0.3
Measles	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.5	0.5	0.4	0.4	14.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.7	1.6	2.3	2.0	0.0	0.0	0.0	0.3
Meningococcal disease	Cases	1	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1
	Rate	1.8	1.0	1.2	2.4	2.0	0.9	2.6	2.1	0.0	1.2	0.0	1.1	0.0	2.0	2.3	0.7	3.1	0.6	0.0	5.6
Mumps	Cases	1	15	2	5	2	0	0	0	0	0	0	1	0	0	0	0	0	3	0	1
	Rate	2.9	5.6	1.4	2.8	0.8	2.8	0.0	0.0	0.9	0.0	0.0	0.6	0.7	1.0	0.0	0.0	3.1	0.9	0.0	0.6
Paratyphoid fever	Cases	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	0.0	0.5	2.0	0.7	0.0	0.0	0.0	0.0	0.9	0.6	0.0	0.6	0.7	0.7	2.3	0.7	0.0	0.4	0.0	0.6
Pertussis	Cases	2	7	10	5	7	3	5	0	6	9	0	6	4	15	0	5	0	12	0	16
	Rate	7.0	15.2	9.9	7.5	26.0	51.6	25.1	12.6	89.9	11.8	22.2	18.4	15.1	43.4	0.0	28.7	6.2	45.4	15.2	27.6
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	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	0	2	2	6	4	0	2	0	0	0	0	1	1	0	0	1	0	0	0	0
	Rate	2.3	3.2	4.5	9.4	2.3	4.7	4.9	2.1	0.9	4.3	0.0	3.4	2.7	2.3	0.0	0.7	0.0	0.4	0.0	0.0
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.2	0.2	0.5	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	0.2	0.0	0.0
Salmonellosis	Cases	5	12	14	4	10	0	5	3	1	3	2	0	2	9	0	1	1	26	2	15
	Rate	25.1	18.1	19.3	12.5	30.0	16.9	18.5	69.0	17.1	23.5	22.2	22.4	15.8	22.8	27.5	21.9	18.5	29.3	33.8	32.6
Shigellosis	Cases	2	1	2	7	0	2	0	0	0	2	0	0	0	2	0	0	0	0	0	1
	Rate	2.9	5.9	6.1	8.6	3.3	1.9	4.0	8.4	0.0	2.5	1.6	1.1	2.1	4.6	0.0	1.4	0.0	1.7	0.0	2.8
Tuberculosis disease	Cases	0	4	6	3	1	2	1	0	1	1	0	0	3	3	0	0	0	3	0	2
	Rate	0.6	6.8	12.4	10.7	5.0	6.6	3.1	2.1	3.4	10.5	3.2	2.9	4.8	8.2	6.9	4.8	0.0	6.9	3.4	3.1
Typhoid fever	Cases	0	0	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.7	3.7	1.9	0.3	0.9	0.9	0.0	0.0	0.6	1.6	1.1	0.7	0.3	0.0	0.0	0.0	0.2	0.0	0.6
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VTEC/STEC infection	Cases	15	12	6	13	9	3	2	0	1	2	1	2	1	3	0	0	1	3	2	15
	Rate	28.0	11.5	6.5	11.8	11.0	10.3	7.1	0.0	14.6	6.8	7.9	2.9	2.1	1.6	2.3	5.5	6.2	2.0	16.9	18.5
Yersiniosis	Cases	3	6	11	8	6	1	10	1	4	3	0	2	9	6	0	0	0	11	0	1
	Rate	17.5	19.1	20.1	11.6	16.3	27.2	29.6	23.0	10.3	14.3	6.3	8.0	25.4	30	13.8	6.1	24.6	31.7	32.1	17.2

<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 March 2017 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 March 2017

	Current Year - 2017 <sup>1</sup>			Previous Year - 2016		
Disease	March 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	March 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	436	1656	160.2	418	1592	136.3
Cryptosporidiosis	49	141	22.8	51	134	16.4
Dengue fever	8	29	3.0	21	77	2.8
Gastroenteritis <sup>3</sup>	29	87	10.1	50	125	11.0
Giardiasis	162	421	32.8	182	496	34.8
Haemophilus influenzae type b	0	0	0.0	0	1	0.1
Hepatitis A	2	19	1.0	4	8	0.8
Hepatitis B <sup>4</sup>	5	15	0.9	1	5	0.7
Hepatitis C <sup>4</sup>	3	8	0.6	4	12	0.8
Invasive pneumococcal disease	19	76	10.5	24	60	9.7
Legionellosis	23	87	5.3	23	84	6.5
Leptospirosis	16	38	2.4	5	12	1.1
Listeriosis	2	3	0.6	6	11	0.7
Malaria	5	12	0.6	3	10	0.9
Measles	2	11	2.3	0	6	0.3
Meningococcal disease	7	13	1.7	3	10	1.5
Mumps	30	61	1.7	1	1	0.3
Paratyphoid fever	3	8	0.6	5	11	0.7
Pertussis	112	319	24.0	81	288	27.2
Rheumatic fever <sup>5</sup>	19	41	3.2	9	28	2.5
Rickettsial disease	0	1	0.1	0	2	0.2
Rubella	0	0	0.0	1	2	0.0
Salmonellosis	115	320	22.7	102	347	22.8
Shigellosis	19	56	4.0	9	41	2.3
Tuberculosis disease	30	90	6.7	22	72	6.3
Typhoid fever	15	24	1.0	4	16	1.0
VTEC/STEC infection	91	167	9.0	55	165	9.0
Yersiniosis	82	218	19.8	46	147	14.1

<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 March 2017) or the previous year (12 months up to and including March 2016), 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 March: Cronobacter species (1) , Hepatitis NOS (2) , Taeniasis (1) , Zika virus (1)

## National Notifiable Disease Surveillance Data – Monthly totals for March 2017 and preceding 11 Months<sup>1</sup>

Disease	Mar 2017	Feb 2017	Jan 2017	Dec 2016	Nov 2016	Oct 2016	Sep 2016	Aug 2016	Jul 2016	Jun 2016
Campylobacteriosis	436	558	662	795	1103	855	572	1108	342	334
Cryptosporidiosis	49	43	49	48	95	202	213	129	51	48
Dengue fever	8	12	9	6	13	10	12	11	14	21
Gastroenteritis <sup>2</sup>	29	30	28	26	38	33	53	62	53	43
Giardiasis	162	145	114	101	130	142	128	129	96	121
Haemophilus influenzae type b	0	0	0	0	0	0	0	1	0	0
Hepatitis A	2	10	7	4	3	2	3	1	5	1
Hepatitis B <sup>3</sup>	5	5	5	4	5	3	4	1	5	1
Hepatitis C <sup>3</sup>	3	3	2	2	3	1	2	3	2	0
Invasive pneumococcal disease	19	22	35	34	41	42	69	50	60	48
Legionellosis	23	27	37	21	31	14	22	12	7	15
Leptospirosis	16	11	11	7	12	6	7	9	11	6
Listeriosis	2	0	1	3	4	2	1	3	1	3
Malaria	5	2	5	1	0	2	0	3	2	3
Measles	2	7	2	0	0	1	1	3	5	32
Meningococcal disease	7	1	5	4	12	6	7	12	10	4
Mumps	30	20	11	8	1	5	3	1	0	0
Paratyphoid fever	3	5	0	1	1	4	1	4	1	3
Pertussis	112	114	93	121	107	101	111	83	64	72
Rheumatic fever <sup>4</sup>	19	12	10	3	4	9	15	16	11	15
Rickettsial disease	0	1	0	0	0	1	0	0	0	1
Rubella	0	0	0	0	0	0	0	0	0	0
Salmonellosis	115	95	110	71	80	91	92	99	57	66
Shigellosis	19	15	22	21	18	15	17	21	8	12
Tuberculosis disease	30	24	36	32	33	25	22	12	20	27
Typhoid fever	15	4	5	1	3	3	1	2	1	4
VTEC/STEC infection	91	51	25	17	32	38	22	23	19	15
Yersiniosis	82	68	68	69	113	110	81	79	60	54

<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 not substantial reporting delays.

May 2016	Apr 2016
391	364
77	65
19	8
34	43
129	144
0	0
7	1
3	3
2	3
45	28
18	23
7	8
4	5
4	1
41	14
8	2
0	1
1	5
70	77
22	14
1	0
1	0
81	107
10	11
28	26
2	5
34	53
68	77

ifications have