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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 11 October 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

**Campylobacteriosis:** 592 cases of campylobacteriosis (584 confirmed and 8 under investigation) were notified in September 2017 compared to 572 cases notified in September 2016. The 12-month rate for the period ending 30 September (151.7 cases per 100,000 population) was slightly higher than for the same period in the previous year (145.3 per 100,000). The highest rates were reported in Hawke's Bay (421.9 cases per 100,000 population, 18 cases), South Canterbury 241.6 per 100,000, 15 cases) and Southern (222.0 per 100,000, 68 cases) DHBs. Cases ranged in age from 3 days to 99 years, and the highest numbers of cases were reported in the 20–29 years (119 cases), 50–59 years (80 cases) and 30–39 years (78 cases) age groups.

**Cryptosporidiosis:** 244 cases of cryptosporidiosis (241 confirmed and 3 under investigation) were notified in September 2017 compared to 213 cases notified in September 2016. The 12-month rate for the period ending 30 September (24.4 cases per 100,000 population) was slightly higher than for the same period in the previous year (20.8 per 100,000). Cases ranged in age from 7 days to 72 years, with the highest numbers of cases in the 1–4 years (77 cases) and 20–29 years (49 cases) age groups. Among the cases for which risk factor information was recorded, 38.9% (63/162) had attended school, preschool or childcare, 25.7% (38/148) had contact with faecal matter or vomit, 17.0% (25/147) had consumed food from a food premises, 16.7% (24/144) had contact with other symptomatic people, and 11.5% (18/157) had recreational contact with water during the incubation period for the disease. Two finalised *Cryptosporidium* outbreaks (7 cases) were created in September.

**Leptospirosis:** 16 cases of leptospirosis (5 confirmed and 11 under investigation) were notified in September 2017 compared to seven cases notified in September 2016. After further investigation one case was found not to meet the case criteria. The highest number of cases was reported in the 30–39 years (4 cases) age group. Occupation was recorded for 80.0% (12/15) of cases. Of these, nine were engaged in occupation previously identified as high risk exposure to *Leptospira* species: farmers or farm workers (7 cases) and meat workers (2 cases). Three additional cases reported exposure through contact with animals: rats (2 cases) and pigs (1 case). The remaining three cases did not have any risk factor information recorded. The *Leptospira* serovar was recorded for five cases: *L. Pomona*, *L. Hardjo* (2 cases each), and *L. Tarassovi* (1 case).

**Leprosy:** One confirmed leprosy case was notified in September 2017. The case was in the 20–29 years age group. The case travelled to the Kiribati during the incubation period.

**Mumps:** 251 cases of mumps (162 confirmed, 50 probable and 39 under investigation) were notified in September 2017 compared with three cases notified in September 2016 (Figure 1). The 12-month rate for the period ending 30 September was 14.4 cases per 100,000 population. After further investigation nine cases were found not to meet the case criteria. The highest numbers of cases were reported from Counties Manukau (86 cases), Auckland (71 cases), and Waitemata (51 cases) DHBs. The highest numbers of cases were in the 20–29 years (85 cases) and 15–19 years (80 cases) age groups. Eighty cases were recorded as being vaccinated against mumps, of which 56 cases had received two doses of the vaccine and 22 cases had received just one dose. Two further cases had been vaccinated, but no dose information was available. Vaccination status was unknown for 107 cases and 55 cases were recorded as non-vaccinated. One interim mumps virus outbreak (case numbers yet to be determined) was created in September.

**Paratyphoid fever:** 20 cases (17 confirmed, 1 probable and 2 under investigation) of paratyphoid fever were notified in September 2017 compared to one case notified in the same month of the previous year in September 2016 (Figure 2). The highest number of cases was reported from Hawke's Bay (12 cases) DHB. Cases ranged in age from 1 to 60 years, with the highest numbers of cases in the 20–29 years (8 cases) and 15–19 years (4 cases) age groups. Eleven cases were hospitalised. The *Salmonella* Paratyphi serotypes involved were identified by the Enteric Reference Laboratory for 85.0% (17/20) of cases: *S. Paratyphi* A (10 cases) and *S. Paratyphi* B var. Java (7 cases). Among the cases for which risk factor information was recorded, 33.3% (5/15) had recreational contact with water, 30.8% (4/13) had had contact with faecal matter or vomit, 28.6% (4/14) had contact with other symptomatic people, and 14.3% (2/14) attended school, pre-school, or childcare during the incubation period for the disease. One interim *S. Paratyphi* A outbreak (case numbers yet to be determined) was created in September.

**Pertussis:** 191 cases of pertussis (107 confirmed, 59 probable, 8 suspected, and 17 under investigation) were notified in September 2017 compared to 111 cases in September 2016. After further investigation one case was found not to meet the case criteria. The 12-month rate for the period ending 30 September (29.7 cases per 100,000) was higher than for the same period in the previous year (22.5 per 100,000). Eleven cases were hospitalised and no deaths were reported. Fifty percent (95/190) of cases were laboratory-confirmed (4 by culture, 74 by PCR, and 17 by culture and PCR). The highest number of cases was reported from Canterbury DHB (28 cases), followed by Waitemata (25 cases), Waikato and Southern (20 cases each) DHBs. Cases ranged in age from 18 days to 76 years, with 16.3% (31/190) under five years of age (including 17 cases aged less than 1 year). The highest numbers of cases were in the 5–9 years (31 cases), 40–49 years (30 cases) and 10–14 years (25 cases) age groups. One finalised *Bordetella pertussis* outbreak (4 cases) and two interim outbreaks (case numbers yet to be determined) were created in September.

**Taeniasis:** One case of taeniasis (under investigation) was notified in September 2017. The case was in the 50–59 years age group and had travelled to Laos during the incubation period for the disease.

**Yersiniosis:** 103 confirmed cases of yersiniosis were notified in September 2017 compared to 81 cases notified in September 2016. The 12-month rate for the period ending 30 September (20.8 per 100,000 population) was higher than for the same period in the previous year (16.9 per 100,000). The highest numbers of cases were reported from Canterbury (21 cases) and Waitemata (14 cases). Cases ranged in age from 8 months to 93 years, with the highest numbers of cases in the 60–69 years (16 cases) and 20–29 years (15 cases) age groups. Seven cases were hospitalised. The *Yersinia* species involved were identified by the Enteric Reference Laboratory for 89.3% (92/103) of cases. The cases were identified as *Y. enterocolitica* (88 cases) and *Y. pseudotuberculosis* (4 cases). The *Y. enterocolitica* biotypes reported were biotype 2 (45 cases), biotype 1A (30 cases), biotype 3 (7 cases) and biotype 4 (6 cases). Among the cases for which risk factor information was recorded, 50.0% (22/44) had consumed food from a food premises, 20.5% (9/44) had contact with faecal matter or vomit, and 20.0% (11/55) attended school, pre-school, or childcare during the incubation period for the disease.

**Zika virus infection:** One confirmed case of zika virus infection was notified in September 2017. The case was in the 30–39 years age group and had travelled to Philippines during the incubation period for the disease.

## 2. Outbreaks

During September 2017, a total of 68 outbreaks (25 final and 43 interim) were created in EpiSurv (Table 1 and Table 2). Fifty-one (75.0%) were outbreaks of acute gastroenteritis (17 finalised and 34 interim) involving 628 cases in total. This compares with 44 acute gastroenteritis outbreaks involving 770 cases in total created during the same month of the previous year. Of the 51 acute gastroenteritis outbreaks, the pathogens were recorded as norovirus (23 outbreaks), *Clostridium difficile* / norovirus and *Staphylococcus* (1 outbreak each). The most commonly reported mode of transmission in acute gastroenteritis outbreaks (41.2%, 21/51) was person-to-person (15 primary and 6 secondary). Of the outbreaks that had an exposure setting recorded (70.6%, 36/51) the most commonly reported setting were long term care facilities (18 outbreaks), hospital (acute care) (8 outbreaks), and childcare centres (5 outbreaks).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Southern	1	4
<i>Clostridium difficile</i> <sup>1</sup>	Bay of Plenty	1	13
<i>Cryptosporidium</i> <sup>2</sup>	Auckland, Southern	2	7
Gastroenteritis	Waitemata, Capital & Coast, Canterbury	4	39
<i>Giardia</i>	Auckland	1	2
Influenza A virus	MidCentral	1	42
Influenza A(H3N2) virus	Canterbury	1	25
Norovirus <sup>1</sup>	Waitemata, Waikato, Bay of Plenty, Capital & Coast, Wairarapa, Canterbury	13	318
<i>Salmonella</i>	Auckland	1	3
VTEC/STEC <sup>3,4</sup>	Southern	1	2
<b>Total</b>		<b>25</b>	<b>442</b>

<sup>1</sup> Includes outbreaks with more than one pathogen, therefore totals may not add up.

<sup>2</sup> Includes outbreak with an overseas exposure transmission: one *Cryptosporidium* (Fiji).

<sup>3</sup> Includes outbreak with an overseas exposure transmission: one VTEC/STEC (Indonesia).

<sup>4</sup> Includes outbreak reported to PHSs prior to September 2017: VTEC/STEC (1) reported in August.

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases <sup>1</sup>
Acute respiratory infection	Canterbury	1	-
<i>Bordetella pertussis</i>	Northland, Waitemata	2	7
Gastroenteritis	Northland, Waitemata, Auckland, Hawke's Bay, MidCentral, Hutt Valley, Southern	22	70
Influenza B virus	Capital & Coast	1	2
Mumps virus	Southern	1	1
Norovirus <sup>2</sup>	Waitemata, Auckland, Bay of Plenty, Capital & Coast West Coast, Canterbury	11	201
<i>Salmonella</i>	Waitemata	1	2
<i>Salmonella</i> Paratyphi A	Hawke's Bay	1	-
<i>Salmonella</i> Typhi	Nelson Marlborough	1	-
<i>Staphylococcus</i>	Taranaki	1	-
VTEC/STEC	Counties Manukau	1	-
<b>Total</b>		43	283

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

<sup>2</sup> Includes outbreak reported to PHSs prior to September 2017: norovirus (1) reported in August.

### 3. Deaths from notifiable diseases

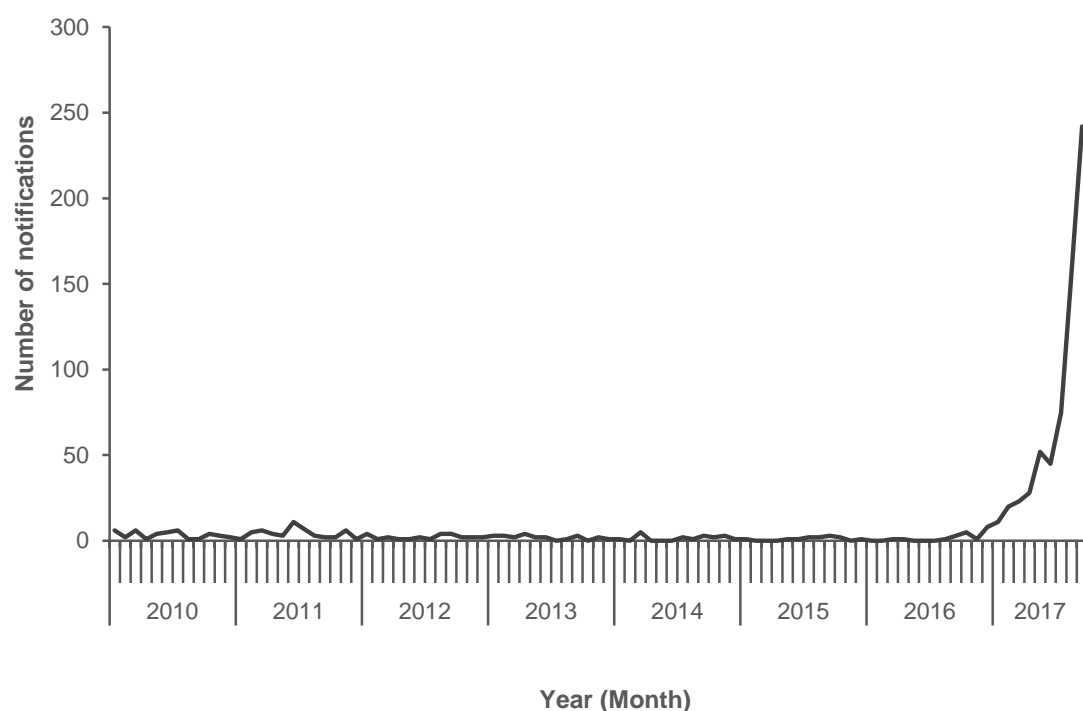
Three deaths, where the primary cause of death was a notifiable disease, were reported in September 2017 (Table 3).

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

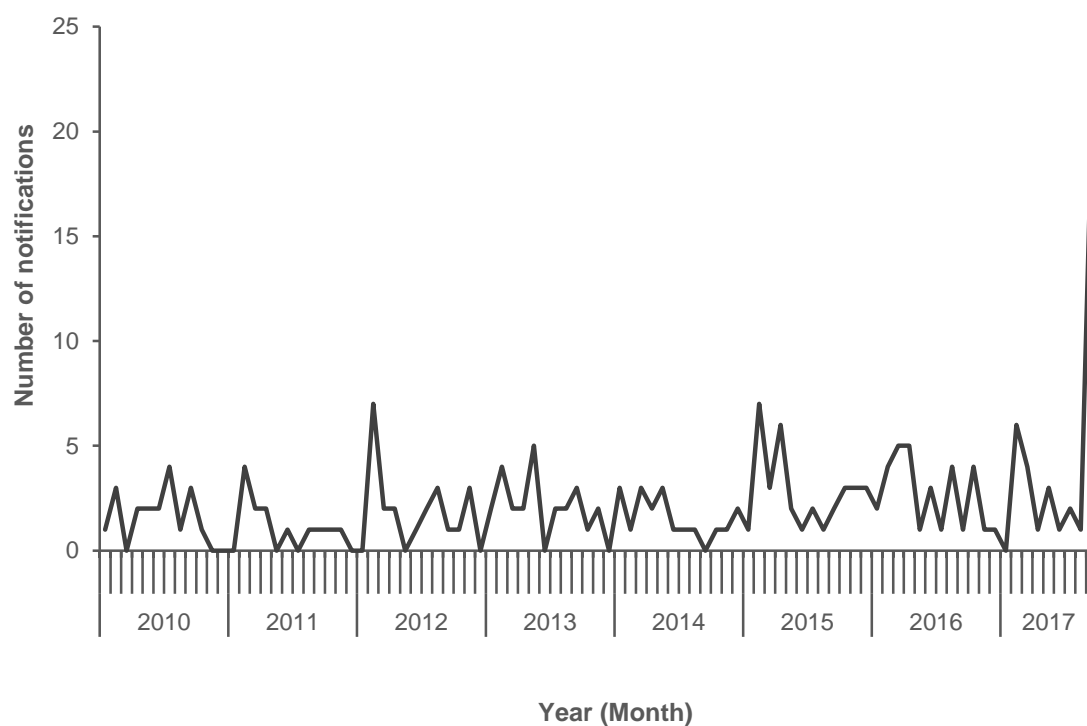
Disease	District health board	Age group (years)
Invasive pneumococcal disease	Counties Manukau	70+
Invasive pneumococcal disease	Canterbury	70+
Legionellosis	Canterbury	70+

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

**Figure 1. Mumps virus notifications by month, January 2010–September 2017**



**Figure 2. Paratyphoid fever notifications by month, January 2010–September 2017**



## 5. Data tables

### National Notifiable Disease Surveillance Data September 2017

Disease	Current Year - 2017 <sup>1</sup>			Previous Year - 2016		
	September 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	September 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	592	4365	151.7	572	4703	145.3
Cryptosporidiosis	244	798	24.4	213	717	20.8
Dengue fever	11	97	2.7	12	162	3.9
Gastroenteritis <sup>3</sup>	19	246	7.2	54	416	11.9
Giardiasis	124	1252	34.6	128	1243	34.4
Haemophilus influenzae type b	5	9	0.2	0	2	0
Hepatitis A	2	30	0.8	3	26	0.9
Hepatitis B <sup>4</sup>	11	39	1.1	4	22	0.7
Hepatitis C <sup>4</sup>	1	19	0.6	2	24	0.7
Invasive pneumococcal disease	46	413	11.3	70	363	10.4
Legionellosis	19	200	5.7	22	181	6.4
Leptospirosis	16	123	3.2	7	60	1.6
Listeriosis	0	12	0.4	1	27	0.7
Malaria	4	33	0.8	0	23	0.7
Measles	1	15	0.3	1	102	2.2
Meningococcal disease	10	79	2.2	7	53	1.4
Mumps	251	663	14.4	3	6	0.2
Paratyphoid fever	20	38	0.9	1	26	0.7
Pertussis	191	1066	29.7	111	765	22.5
Rheumatic fever <sup>5</sup>	20	130	3.1	15	121	3.1
Rickettsial disease	1	2	0.1	0	4	0.1
Rubella	0	0	0	0	3	0.1
Salmonellosis	108	869	23.7	92	849	23.4
Shigellosis	17	179	5	17	120	3
Tuberculosis disease	35	232	6.8	22	206	6
Typhoid fever	2	56	1.3	1	31	1.1
VTEC/STEC infection	51	430	11	22	331	9.2
Yersiniosis	103	683	20.8	81	566	16.9

<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 September 2017) or the previous year (12 months up to and including September 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 September: Leprosy (1), Taeniasis (1), Zika virus (1)

# Notifiable Disease Surveillance Data by District Health Board September 2017

		Cases <sup>1</sup> and current rate <sup>2</sup> for September 2017 by District Health Board <sup>3</sup>																			
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MtCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Disease																					
Campylobacteriosis	Cases	28	77	35	31	76	14	21	3	32	18	12	25	6	16	5	18	10	82	15	68
	Rate	146.4	129.8	110.6	93.8	146.9	144.5	102.8	129.7	214.9	421.9	174.6	176.8	129.5	127.5	190.4	141.4	196.9	160.7	241.6	222
Cryptosporidiosis	Cases	19	16	17	19	43	8	6	5	9	6	4	21	2	3	4	3	2	22	6	29
	Rate	37.3	20.1	18.5	27	31.8	19.7	9.7	46	31.7	16.1	30.2	34.4	6.9	10.8	29.8	54.6	18.5	25.6	28.7	28.5
Dengue fever	Cases	1	1	3	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0
	Rate	1.8	2.9	5.1	3.7	2.3	2.8	2.2	2.1	4.3	1.9	1.6	1.1	0.7	2.6	0	2.7	0	2.4	3.4	0.9
Gastroenteritis	Cases	0	1	2	0	0	1	0	0	0	0	3	1	2	3	0	0	1	4	0	1
	Rate	9.3	4.9	10.4	2.8	1	5.6	4	2.1	0	1.9	22.2	24.1	16.4	17.9	9.2	1.4	24.6	8.2	3.4	2.8
Giardiasis	Cases	7	18	23	9	12	1	8	1	0	8	0	2	1	8	10	3	1	4	0	8
	Rate	39.1	31.1	37.3	37.3	43.6	49.7	37.5	94.1	29.1	43.4	31.7	24.1	21.2	34.2	52.8	30.7	18.5	26.5	37.2	27.6
Haemophilus influenzae type b	Cases	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0	0.2	0.2	0.4	0.3	0	0.9	2.1	0	0	0	0	0	0	0	0	0	0	0	0.3
Hepatitis A	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.2	0.6	2.8	0.5	0	0	0	0	0	0	0	0	1.6	0	0.7	0	0.6	0	0.9
Hepatitis B	Cases	0	0	1	3	1	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0
	Rate	0	1	1.8	2.1	1.3	1.9	0	0	0.9	1.2	4.8	1.7	0	0.7	2.3	1.4	0	0.6	0	0.3
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.6	0.2	0.4	0	0	0	0	0	4.3	0.6	0	0.6	2.1	0.3	0	2	0	0.4	0	1.9
Invasive pneumococcal disease	Cases	3	4	3	8	5	1	4	1	0	0	1	1	2	2	0	0	0	4	0	7
	Rate	18.1	9.8	9.1	14.4	9.5	19.7	20.3	18.8	8.6	9.9	12.7	8.6	6.9	10.8	11.5	11.6	6.2	8.7	11.8	10.7
Legionellosis	Cases	0	5	4	1	0	0	1	0	0	0	0	0	0	0	0	1	0	5	1	1
	Rate	14	8.8	6.7	3.6	1.8	3.8	9.3	0	3.4	0.6	0	1.1	4.8	1.3	0	10.2	15.4	9.3	5.1	4.4
Leptospirosis	Cases	3	1	0	0	3	1	1	0	2	2	0	1	0	0	0	1	0	1	0	0
	Rate	5.8	1.2	0.4	0	12.3	1.9	1.8	2.1	6	9.3	12.7	4	0.7	0	9.2	4.8	9.2	1.9	5.1	2.5
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.4	0.7	0.5	0	1.3	2.1	0	0	0	0	0.7	0.3	0	1.4	0	0.6	0	0
Malaria	Cases	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	1.2	0.5	1.4	0.6	1	0.9	0.4	0	1.7	0.6	0	0	0.7	1.3	0	1.4	0	0.7	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	0.3	0.2	0.2	0	0	0.9	0	0	0	0	4	0.7	0	0	0	0	0.2	0	0.3
Meningococcal disease	Cases	0	1	0	2	2	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0
	Rate	2.9	1.5	1.6	3.2	2.3	0.9	3.1	2.1	0	3.1	1.6	2.3	1.4	3.3	2.3	0.7	6.2	2	0	2.2
Mumps	Cases	2	53	72	90	13	0	2	0	0	3	0	2	0	2	0	0	0	3	0	9
	Rate	7.6	32.5	25.4	37.6	14	3.8	1.8	0	5.1	1.9	0	1.7	3.4	3.9	0	5.5	0	2.6	0	8.5
Paratyphoid fever	Cases	0	3	0	2	1	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.2	1.4	0.7	0.3	0	0.4	0	0.9	9.3	0	1.1	0	0.7	0	0.7	0	0.2	0	0.6
Pertussis	Cases	8	25	14	11	20	4	8	1	11	14	3	1	4	7	1	9	1	29	0	20
	Rate	12.3	21.3	17	12.7	26.8	47.8	26	25.1	67.6	39	15.9	18.9	29.5	51.2	6.9	45.1	12.3	38.9	11.8	59.3
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 <sup>4</sup>	Cases	3	3	6	3	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0
	Rate	6.4	2.4	4.3	9.7	3.8	2.8	3.5	2.1	0	2.5	1.6	1.1	3.4	0.7	0	0.7	0	0.6	0	0.3
Rickettsial disease	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.4	0.2	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
Salmonellosis	Cases	5	9	11	9	6	1	4	3	3	2	2	8	4	8	1	2	0	15	2	13
	Rate	33.3	16.9	21.9	13.5	31.8	20.6	14.6	35.6	23.1	22.3	14.3	20.7	15.1	25.8	32.1	23.9	12.3	33.9	27	34.8
Shigellosis	Cases	1	3	5	3	0	0	0	0	1	2	0	0	1	0	0	0	0	1	0	0
	Rate	5.3	6.6	9.3	10.7	1.3	2.8	2.6	4.2	1.7	6.2	3.2	1.1	4.1	5.2	0	0	3.1	2.6	0	3.8
Tuberculosis disease	Cases	1	6	7	5	3	1	1	1	1	0	0	0	4	3	0	0	0	2	0	0
	Rate	1.2	8.1	12.2	9.9	6.8	2.8	2.2	2.1	4.3	8.7	0	5.2	8.9	7.5	11.5	3.4	0	6.7	1.7	2.5
Typhoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	Rate	0	1.4	3.9	3.7	0.5	2.8	0	0	0	0.6	1.6	1.1	0.7	0	0	0.7	0	0.2	0	0.9
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
VTEC/STEC infection	Cases	6	9	3	6	2	0	1	0	1	2	0	2	0	0	0	0	0	2	0	17
	Rate	37.9	13.5	7.7	11.8	9.8	12.2	7.9	2.1	10.3	6.8	7.9	2.3	0.7	3.3	4.6	6.1	3.1	4.3	23.6	33.6
Yersiniosis	Cases	4	14	8	6	6	0	8	2	2	5	1	0	6	8	3	1	1	21	1	6
	Rate	18.1	20.8	20.3	11.2	17.8	27.2	36.6	29.3	12.8	18.6	11.1	10.3	29.5	27.4	22.9	5.5	18.5	32.4	23.6	16

<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 September 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 September 2017

		Cases <sup>1</sup> and current rate <sup>2</sup> for September 2017 by District Health Board <sup>3</sup>																			
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	Midcentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Disease																					
Campylobacteriosis	Cases	28	77	35	31	76	14	21	3	32	18	12	25	6	16	5	18	10	82	15	68
	Rate	146.4	129.8	110.6	93.8	146.9	144.5	102.8	129.7	214.9	421.9	174.6	176.8	129.5	127.5	190.4	141.4	196.9	160.7	241.6	222
Cryptosporidiosis	Cases	19	16	17	19	43	8	6	5	9	6	4	21	2	3	4	3	2	22	6	29
	Rate	37.3	20.1	18.5	27	31.8	19.7	9.7	46	31.7	16.1	30.2	34.4	6.9	10.8	29.8	54.6	18.5	25.6	28.7	28.5
Dengue fever	Cases	1	1	3	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0
	Rate	1.8	2.9	5.1	3.7	2.3	2.8	2.2	2.1	4.3	1.9	1.6	1.1	0.7	2.6	0	2.7	0	2.4	3.4	0.9
Gastroenteritis	Cases	0	1	2	0	0	1	0	0	0	0	3	1	2	3	0	0	1	4	0	1
	Rate	9.3	4.9	10.4	2.8	1	5.6	4	2.1	0	1.9	22.2	24.1	16.4	17.9	9.2	1.4	24.6	8.2	3.4	2.8
Giardiasis	Cases	7	18	23	9	12	1	8	1	0	8	0	2	1	8	10	3	1	4	0	8
	Rate	39.1	31.1	37.3	37.3	43.6	49.7	37.5	94.1	29.1	43.4	31.7	24.1	21.2	34.2	52.8	30.7	18.5	26.5	37.2	27.6
Haemophilus influenzae type b	Cases	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0	0.2	0.2	0.4	0.3	0	0.9	2.1	0	0	0	0	0	0	0	0	0	0	0	0.3
Hepatitis A	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.2	0.6	2.8	0.5	0	0	0	0	0	0	0	0	1.6	0	0.7	0	0.6	0	0.9
Hepatitis B	Cases	0	0	1	3	1	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0
	Rate	0	1	1.8	2.1	1.3	1.9	0	0	0.9	1.2	4.8	1.7	0	0.7	2.3	1.4	0	0.6	0	0.3
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.6	0.2	0.4	0	0	0	0	0	4.3	0.6	0	0.6	2.1	0.3	0	2	0	0.4	0	1.9
Invasive pneumococcal disease	Cases	3	4	3	8	5	1	4	1	0	0	1	1	2	2	0	0	0	4	0	7
	Rate	18.1	9.8	9.1	14.4	9.5	19.7	20.3	18.8	8.6	9.9	12.7	8.6	6.9	10.8	11.5	11.6	6.2	8.7	11.8	10.7
Legionellosis	Cases	0	5	4	1	0	0	1	0	0	0	0	0	0	0	0	1	0	5	1	1
	Rate	14	8.8	6.7	3.6	1.8	3.8	9.3	0	3.4	0.6	0	1.1	4.8	1.3	0	10.2	15.4	9.3	5.1	4.4
Leptospirosis	Cases	3	1	0	0	3	1	1	0	2	2	0	1	0	0	0	1	0	1	0	0
	Rate	5.8	1.2	0.4	0	12.3	1.9	1.8	2.1	6	9.3	12.7	4	0.7	0	9.2	4.8	9.2	1.9	5.1	2.5
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.4	0.7	0.5	0	1.3	2.1	0	0	0	0	0.7	0.3	0	1.4	0	0.6	0	0
Malaria	Cases	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	1.2	0.5	1.4	0.6	1	0.9	0.4	0	1.7	0.6	0	0	0.7	1.3	0	1.4	0	0.7	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	0.3	0.2	0.2	0	0	0.9	0	0	0	0	4	0.7	0	0	0	0	0.2	0	0.3
Meningococcal disease	Cases	0	1	0	2	2	0	0	0	0	3	0	0	0	0	0	0	0	2	0	0
	Rate	2.9	1.5	1.6	3.2	2.3	0.9	3.1	2.1	0	3.1	1.6	2.3	1.4	3.3	2.3	0.7	6.2	2	0	2.2
Mumps	Cases	2	53	72	90	13	0	2	0	0	3	0	2	0	2	0	0	0	3	0	9
	Rate	7.6	32.5	25.4	37.6	14	3.8	1.8	0	5.1	1.9	0	1.7	3.4	3.9	0	5.5	0	2.6	0	8.5
Paratyphoid fever	Cases	0	3	0	2	1	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0
	Rate	0	1.2	1.4	0.7	0.3	0	0.4	0	0.9	9.3	0	1.1	0	0.7	0	0.7	0	0.2	0	0.6
Pertussis	Cases	8	25	14	11	20	4	8	1	11	14	3	1	4	7	1	9	1	29	0	20
	Rate	12.3	21.3	17	12.7	26.8	47.8	26	25.1	67.6	39	15.9	18.9	29.5	51.2	6.9	45.1	12.3	38.9	11.8	59.3
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 <sup>4</sup>	Cases	3	3	6	3	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0
	Rate	6.4	2.4	4.3	9.7	3.8	2.8	3.5	2.1	0	2.5	1.6	1.1	3.4	0.7	0	0.7	0	0.6	0	0.3
Rickettsial disease	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.4	0.2	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
Salmonellosis	Cases	5	9	11	9	6	1	4	3	3	2	2	8	4	8	1	2	0	15	2	13
	Rate	33.3	16.9	21.9	13.5	31.8	20.6	14.6	35.6	23.1	22.3	14.3	20.7	15.1	25.8	32.1	23.9	12.3	33.9	27	34.8
Shigellosis	Cases	1	3	5	3	0	0	0	0	1	2	0	0	1	0	0	0	0	1	0	0
	Rate	5.3	6.6	9.3	10.7	1.3	2.8	2.6	4.2	1.7	6.2	3.2	1.1	4.1	5.2	0	0	3.1	2.6	0	3.8
Tuberculosis disease	Cases	1	6	7	5	3	1	1	1	1	0	0	0	4	3	0	0	0	2	0	0
	Rate	1.2	8.1	12.2	9.9	6.8	2.8	2.2	2.1	4.3	8.7	0	5.2	8.9	7.5	11.5	3.4	0	6.7	1.7	2.5
Typhoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	Rate	0	1.4	3.9	3.7	0.5	2.8	0	0	0	0.6	1.6	1.1	0.7	0	0	0.7	0	0.2	0	0.9
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
VTEC/STEC infection	Cases	6	9	3	6	2	0	1	0	1	2	0	2	0	0	0	0	0	2	0	17
	Rate	37.9	13.5	7.7	11.8	9.8	12.2	7.9	2.1	10.3	6.8	7.9	2.3	0.7	3.3	4.6	6.1	3.1	4.3	23.6	33.6
Yersiniosis	Cases	4	14	8	6	6	0	8	2	2	5	1	0	6	8	3	1	1	21	1	6
	Rate	18.1	20.8	20.3	11.2	17.8	27.2	36.6	29.3	12.8	18.6	11.1	10.3	29.5	27.4	22.9	5.5	18.5	32.4	23.6	16

<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 September 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 September 2017

Disease	Current Year - 2017 <sup>1</sup>			Previous Year - 2016		
	September 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	September 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	592	4365	151.7	572	4703	145.3
Cryptosporidiosis	244	798	24.4	213	717	20.8
Dengue fever	11	97	2.7	12	162	3.9
Gastroenteritis <sup>3</sup>	19	246	7.2	54	416	11.9
Giardiasis	124	1252	34.6	128	1243	34.4
Haemophilus influenzae type b	5	9	0.2	0	2	0
Hepatitis A	2	30	0.8	3	26	0.9
Hepatitis B <sup>4</sup>	11	39	1.1	4	22	0.7
Hepatitis C <sup>4</sup>	1	19	0.6	2	24	0.7
Invasive pneumococcal disease	46	413	11.3	70	363	10.4
Legionellosis	19	200	5.7	22	181	6.4
Leptospirosis	16	123	3.2	7	60	1.6
Listeriosis	0	12	0.4	1	27	0.7
Malaria	4	33	0.8	0	23	0.7
Measles	1	15	0.3	1	102	2.2
Meningococcal disease	10	79	2.2	7	53	1.4
Mumps	251	663	14.4	3	6	0.2
Paratyphoid fever	20	38	0.9	1	26	0.7
Pertussis	191	1066	29.7	111	765	22.5
Rheumatic fever <sup>5</sup>	20	130	3.1	15	121	3.1
Rickettsial disease	1	2	0.1	0	4	0.1
Rubella	0	0	0	0	3	0.1
Salmonellosis	108	869	23.7	92	849	23.4
Shigellosis	17	179	5	17	120	3
Tuberculosis disease	35	232	6.8	22	206	6
Typhoid fever	2	56	1.3	1	31	1.1
VTEC/STEC infection	51	430	11	22	331	9.2
Yersiniosis	103	683	20.8	81	566	16.9

<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 September 2017) or the previous year (12 months up to and including September 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 September: Leprosy (1), Taeniasis (1), Zika virus (1)

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

Disease	Sep 2017	Aug 2017	Jul 2017	Jun 2017	May 2017	Apr 2017	Mar 2017	Feb 2017	Jan 2017	Dec 2016	Nov 2016	Oct 2016
Campylobacteriosis	592	569	440	367	430	370	426	527	644	795	1103	855
Cryptosporidiosis	244	135	57	81	82	58	49	43	49	48	95	202
Dengue fever	11	12	3	15	19	8	8	12	9	6	13	10
Gastroenteritis <sup>2</sup>	19	16	26	42	29	24	30	30	30	25	36	33
Giardiasis	124	150	114	162	156	125	162	145	114	101	130	142
Haemophilus influenzae type b	5	2	2	0	0	0	0	0	0	0	0	0
Hepatitis A	2	5	1	0	1	2	2	10	7	4	3	2
Hepatitis B <sup>3</sup>	11	7	4	4	3	2	1	5	2	4	5	3
Hepatitis C <sup>3</sup>	1	2	2	3	1	3	2	3	2	3	3	1
Invasive pneumococcal disease	46	71	92	60	34	31	21	22	36	34	41	42
Legionellosis	19	18	22	12	32	11	22	27	37	21	31	14
Leptospirosis	16	10	8	21	23	12	13	9	11	7	12	6
Listeriosis	0	1	1	3	3	1	2	0	1	3	4	2
Malaria	4	8	4	1	2	2	5	2	5	1	0	2
Measles	1	0	0	0	4	0	2	7	1	0	0	1
Meningococcal disease	10	23	11	13	4	5	7	1	5	4	12	6
Mumps	251	156	77	45	52	28	23	20	11	8	1	5
Paratyphoid fever	20	1	2	1	3	1	4	6	0	1	1	4
Pertussis	191	138	96	123	131	72	109	113	93	120	107	101
Rheumatic fever <sup>4</sup>	20	14	17	13	17	9	18	12	10	3	4	8
Rickettsial disease	1	0	0	0	0	0	0	1	0	0	0	1
Salmonellosis	108	103	67	72	94	106	114	95	110	71	80	91
Shigellosis	17	20	30	14	29	15	19	14	21	21	18	15
Tuberculosis disease	35	22	25	21	31	21	23	19	35	31	32	25
Typhoid fever	2	6	0	3	4	18	15	3	5	1	3	3
VTEC/STEC infection	51	42	25	29	54	69	85	50	25	17	32	38
Yersiniosis	103	109	66	64	74	50	82	67	68	69	113	110
Zika virus	1	0	0	1	5	2	1	1	0	0	0	1

<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.