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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 as at 8 September 2015. 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:** 490 cases of campylobacteriosis (489 confirmed and 1 under investigation) were notified in August 2015 compared to 506 cases notified during the same month of the previous year (Figure 1). For the 12 month period ending 31 August 2015, the highest rates were in West Coast (216.5 per 100,000 population, 71 cases), South Canterbury (192.8 per 100,000 population, 112 cases), and Taranaki (184.3 per 100,000 population, 212 cases) DHBs compared to a national rate of 142.7 per 100,000. One finalised *Campylobacter* outbreak was reported in August (4 cases).

**Chikungunya fever:** One confirmed case was notified in August 2015 compared to one probable case notified during the same month of the previous year. Forty-five cases have been notified in the year to date compared to 13 at the same time in the previous year. The case reported overseas travel to Fiji during the incubation period.

**Cryptosporidiosis:** 79 cases of cryptosporidiosis (78 confirmed and 1 under investigation) were notified in August 2015 compared to 49 cases notified during the same month of the previous year. The highest numbers of cases were reported from Counties Manukau and Waikato (19 cases each), and MidCentral (9 cases) DHBs. The cases ranged in age from 9 months to 64 years, with the highest numbers of cases in the 1–4 years (23 cases) and 20–29 years (19 cases) age groups. Among the cases for which risk factor information was recorded, 72.5% (29/40) had contact with farm animals, 42.1% (16/48) had contact with faecal matter or vomit, 36.4% (12/33) had consumed untreated water, 32.3% (12/36) had consumed food from a food premises, 27.0% (10/37) had recreational water contact, and 15.8% (6/38) had contact with other symptomatic people during the incubation period.

**Haemophilus influenzae serotype b disease:** Five cases of *H. influenzae* serotype b disease were notified in August 2015. After further investigation, all cases have been found not to meet the case criteria.

**Legionellosis:** Eight cases of legionellosis (5 confirmed, 2 probable and 1 under investigation) were notified in August 2015 compared to nine cases notified during the previous month, and four during the same month of the previous year. The highest numbers of cases were reported from Northland and Waitemata DHBs (2 cases each). The *Legionella* species was identified for seven cases as: *L. pneumophila* (5 cases) and *L. longbeachae* (2 cases). The increase in legionellosis notifications for the year (107 compared with 65 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.

*Leprosy:* Two confirmed cases of leprosy (one tuberculoid and one lepromatous) were notified in August 2015. The cases were both male, one in the 10–14 years age group from Bay of Plenty DHB and the other in the 30–39 years age group from Auckland DHB. Both cases reported overseas travel during the incubation period (Philippines, Kiribati).

*Leptospirosis:* Seven cases of leptospirosis (1 confirmed and 6 under investigation) were notified in August 2015 compared to three 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, and four remain under investigation. The highest numbers of cases were reported from South Canterbury and Southern DHBs (2 cases each). Occupational exposure risk factor information was recorded for two cases, both were farm workers. The *Leptospira* species was recorded for one case, *L. Pomona*.

*Measles:* Two cases of measles were notified in August 2015 compared to zero cases notified during the previous month, and seven during the same month of the previous year. After further investigation, both cases have been found not to meet the case criteria.

*Meningococcal disease:* Fifteen cases of meningococcal disease were notified in August 2015 (14 confirmed and 1 probable) compared to seven cases notified during the same month of the previous year. The highest numbers of cases were reported from Waitemata (3 cases), and Taranaki, Hawke's Bay, and Capital & Coast (2 cases each) DHBs. Seven cases were aged under 5 years: 1–4 years age group (4 cases), and children aged under 1 year (3 cases). All cases were hospitalised and one death was reported. All cases were laboratory confirmed and the strain type was determined for all cases: group B (11 cases including three cases of B:P1.7-2,4), group Y (2 cases), group W135 (1 case), and group C (1 case).

*Pertussis:* 175 cases of pertussis were notified in August 2015 compared to 74 cases in the same month of the previous year. After further investigation, six cases have since been found not to meet the case criteria. Seven cases were hospitalised and no deaths were reported. There were 65/169 (38.5%) cases laboratory-confirmed (35 by isolation, 24 by PCR, and 6 by isolation and PCR). The highest numbers of cases were reported from Southern (63 cases), Canterbury (27 cases), and Nelson Marlborough (22 cases) DHBs. The cases ranged in age from 2 months to 81 years, with 17.8% under 5 years of age (including 9 cases aged less than 1 year). The highest numbers of cases were in the 40–49 years (25 cases), 5–9 years (22 cases) and 1–4 years, 10–14 years and 50–59 years (21 cases each) age groups. The vaccination status was recorded for 87.8% (72/82) of cases aged under 20 years. Of these, 13 were reported as not vaccinated, eight received one dose of vaccine, one received two doses of vaccine, and 48 received three or more doses (including seven 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 50.0% (74/148) attended school, pre-school or childcare, and 33.3% (31/93) had contact with a laboratory-confirmed pertussis case. Two finalised *B. pertussis* outbreaks were created in August (7 cases).

*Rheumatic fever:* Eight cases of rheumatic fever (7 initial attack and 1 recurrent attack) were notified in August 2015, compared to 19 cases during the same month of the previous year. All cases were from the North Island; Auckland (3 cases), Hutt Valley (2 cases), Counties Manukau, Waikato and Capital & Coast (1 case each) DHBs. Cases ranged in age from 9 to 24 years, and were in the 5–9 years (2 cases), 10–14 years (3 cases), 15–19 years (1 case), and 20–29 years (2 cases) age groups. Cases were reported in Pacific peoples (6 cases) and Māori (2 cases) ethnic groups. Hospitalisation status was recorded for 75.0% (6/8) of the cases, all of which 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.

*Salmonellosis:* 60 cases of salmonellosis (57 confirmed and 3 under investigation) were notified in August 2015 compared to 64 cases notified during the same month of the previous year. After laboratory testing one case was updated to paratyphoid fever. The highest numbers of cases were reported from Canterbury (11 cases) and Southern (10 cases) DHBs. The cases ranged in age from 3 months to 92 years, with the highest numbers of cases in the 1–4 years (12 cases), 40–49 years (9 cases), and 20–29 years (8 cases) age groups. Twelve cases were hospitalised. The *Salmonella* serotypes were identified in 53/59 (89.8%) of the cases, the most common were *S. Typhimurium* phage type 56 variant (11 cases) and *S. Brandenburg* (7 cases). Uncommon *Salmonella* serotypes confirmed this month included *S. Alachua*, *S. Albany* and *S. Wangata* (1 case each). Among the cases for which risk factor information was recorded 48.4% (15/31) had travelled overseas, 34.8% (8/23) had consumed food from a food premises, 28.0% (7/28) had recreational

water contact, 26.1% (6/23) had contact with faecal matter or vomit, and 25.0% (6/24) had contact with farm animals.

**Taeniasis:** Two cases of taeniasis were notified in August 2015. The cases were a female in the 20–29 years and a male in the 40–49 years age groups from Waitemata and Counties Manukau DHBs, respectively. Both cases reported overseas travel during the incubation period, to Thailand and the Central African Republic.

**VTEC/STEC infection:** 39 cases of VTEC/STEC infection (38 confirmed and 1 under investigation) were notified in August 2015 compared to 17 cases notified during the same month of the previous year (Figure 2). The highest numbers of cases were reported from Waitemata (11 cases), and Waikato and Canterbury (6 cases each) DHBs. The highest numbers of cases occurred in the 1–4 years (8 cases) and 70+ years (6 cases) age groups. Four cases were hospitalised. Thirty-eight cases were confirmed by the Enteric Reference Laboratory as being infected with VTEC/STEC. The serotype was identified for 20 cases as *Escherichia coli* O157:H7 (12 cases) and non-O157 (8 cases). Among the cases for whom risk factor information was recorded, 62.5% (10/16) had contact with animals, 46.7% (7/15) had contact with children in nappies, and 18.8% (3/16) had contact with a person with similar symptoms. The increase 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.

## 2. Outbreaks

During August 2015, a total of 49 outbreaks (23 final and 26 interim) were created in EpiSurv (Table 1 and Table 2). 28 (57.1%) were outbreaks of acute gastroenteritis (10 finalised and 18 interim) involving 163 cases in total. This compares with 51 acute gastroenteritis outbreaks involving 1258 cases in total created during the same month of the previous year. Of the 28 acute gastroenteritis outbreaks, six were norovirus. The majority of acute gastroenteritis outbreaks (28.6%, 8/28) had person-to-person (7 primary and 1 secondary) mode of transmission reported. The most commonly reported settings where exposure occurred were long term care facilities (6 outbreaks) and childcare centres, and hospital (acute care) (2 outbreaks each).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Northland, Waikato	2	7
<i>Campylobacter</i>	Bay of Plenty	1	4
<i>Cryptosporidium</i>	Waitemata	1	3
Gastroenteritis <sup>1</sup>	Auckland, Waikato, Bay of Plenty, MidCentral, Southern	6	55
<i>Giardia</i> <sup>1, 2</sup>	Waitemata, Auckland	6	18
Influenza-like illness	Hawke's Bay	1	17
<i>Legionella pneumophila</i> <sup>1</sup>	Auckland	1	2
Norovirus <sup>1</sup>	Whanganui, Canterbury, Southern	4	49
<i>Salmonella</i> Typhi	Counties Manukau	1	3
<b>Total</b>		<b>23</b>	<b>158</b>

<sup>1</sup> Includes outbreak reported to PHSs prior to August 2015: *L. pneumophila* (1) reported in April 2015, *S. Typhi* (1) reported in May 2015, *Giardia* (1) reported in June 2015, gastroenteritis (3), *Giardia* (2), and norovirus (2) reported in July 2015.

<sup>2</sup> Includes one *Giardia* outbreak with an overseas transmission (Afghanistan).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Cryptosporidium</i> <sup>1</sup>	MidCentral	1	-
<i>Escherichia coli</i> O157:H7	Canterbury	1	4
Gastroenteritis <sup>1</sup>	Waitemata, Auckland, Counties Manukau, Waikato, Hawke's Bay, Hutt Valley, Capital & Coast, Canterbury, Southern	16	32
<i>Giardia</i>	Counties Manukau	1	2
Influenza A virus <sup>1</sup>	MidCentral, Wairarapa, Capital & Coast	3	23
Influenza-like illness <sup>1</sup>	MidCentral, Southern	2	26
Norovirus	Nelson Marlborough, Southern	2	27
<b>Total</b>		<b>26</b>	<b>114</b>

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

### 3. Deaths from notifiable diseases

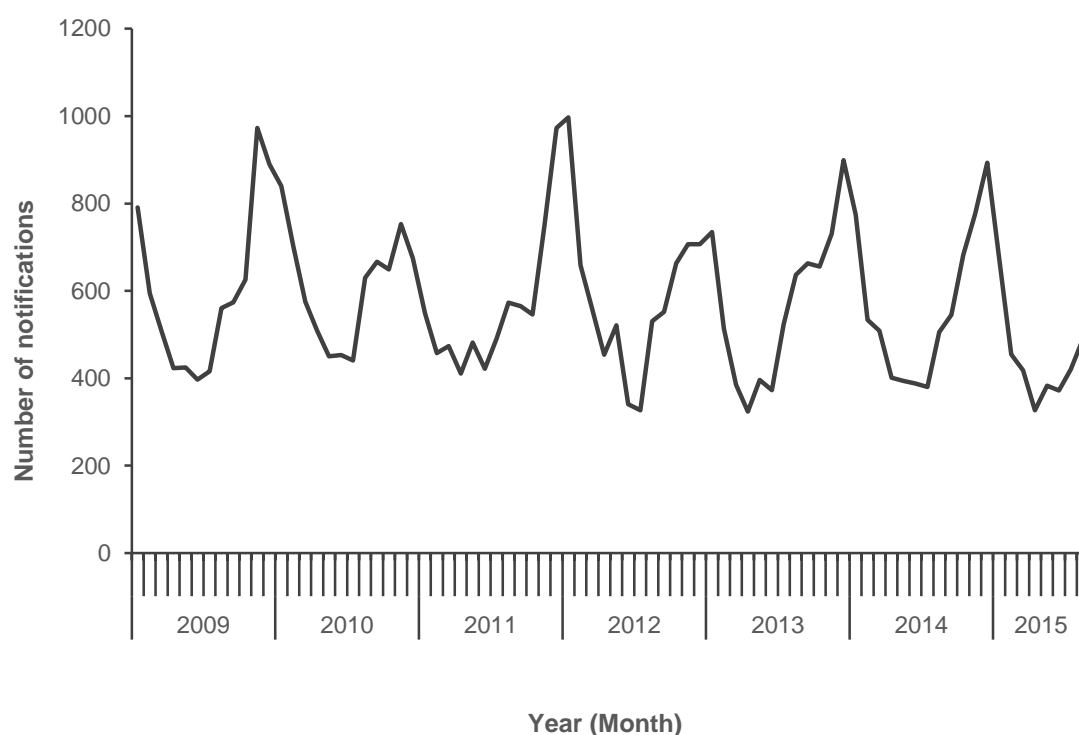
Two deaths, where the primary cause of death was a notifiable disease, were reported in August 2015 (Table 3).

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

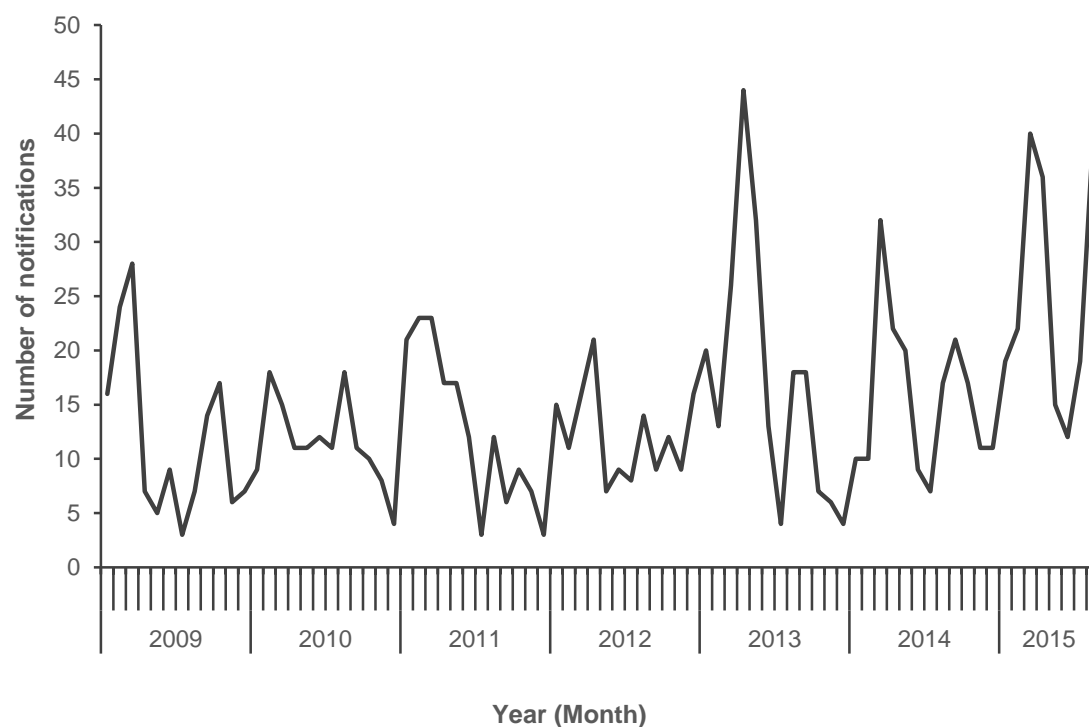
Disease	District health board	Age group (years)
Invasive pneumococcal disease	Canterbury	40–49
Meningococcal disease	Waitemata	40–49

#### 4. Trends in selected diseases to August 2015

**Figure 1. Campylobacteriosis notifications by month, January 2009–August 2015**



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



## 5. Data tables

### National Notifiable Disease Surveillance Data August 2015

Disease	Current Year - 2015 <sup>1</sup>			Previous Year - 2014		
	August 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	August 2014 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	490	3541	142.7	506	3886	151.6
Cryptosporidiosis	79	260	13.7	49	226	15.4
Dengue fever	7	104	3.1	14	142	4
Gastroenteritis <sup>3</sup>	32	320	14.6	66	418	13.4
Giardiasis	137	1016	33.3	125	1222	39.3
Haemophilus influenzae type b	5	9	0.2	0	3	0.1
Hepatitis A	5	33	1.2	9	53	1.7
Hepatitis B <sup>4</sup>	8	27	0.8	5	24	0.8
Hepatitis C <sup>4</sup>	2	26	0.6	4	26	0.8
Invasive pneumococcal disease	55	289	10.5	52	322	11.2
Legionellosis	8	107	3.7	4	65	3
Leptospirosis	7	59	1.8	3	33	1.2
Listeriosis	0	15	0.4	1	21	0.6
Malaria	4	24	0.8	6	21	0.7
Measles	2	11	0.4	7	275	6.3
Meningococcal disease	15	38	1.2	7	30	1.1
Mumps	8	15	0.5	1	9	0.3
Paratyphoid fever	0	18	0.5	1	15	0.5
Pertussis	175	726	23.6	74	760	36.2
Q fever	1	1	0	0	0	0
Rheumatic fever <sup>5</sup>	8	87	3	19	155	5.2
Rickettsial disease	3	6	0.3	0	0	0.1
Rubella	0	0	0	0	4	0.1
Salmonellosis	60	718	23.2	64	630	22.4
Shigellosis	7	79	2.5	13	93	2.8
Tuberculosis disease	24	203	6.7	28	202	6.9
Typhoid fever	3	24	0.8	1	30	0.9
VTEC/STEC infection	39	202	5.8	17	127	3.6
Yersiniosis	69	347	16.9	30	266	10.3

<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 August 2015) or the previous year (12 months up to and including August 2014), 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 August: Chikungunya fever (1), Leprosy (2), Taeniasis (2).

# Notifiable Disease Surveillance Data by District Health Board August 2015

Cases <sup>1</sup> and current rate <sup>2</sup> for August 2015 by District Health Board <sup>3</sup>																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Wairarapa	MtCenral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	Southern
Campylobacteriosis	Cases	27	47	38	32	76	20	16	5	23	21	4	10	13	35	7	19	7	54	27
	Rate	157.2	140.2	120.4	100.9	178.1	166	140.3	127.4	184.3	163.7	112.5	107.5	163.9	172.9	158.9	132.8	216.5	131.2	192.8
Cryptosporidiosis	Cases	3	4	3	19	19	0	3	0	1	4	1	9	0	2	1	1	0	5	2
	Rate	17.5	11.9	7	10.8	22.4	14.5	9.2	6.4	14.8	11.9	12.9	15.3	6.3	11.1	30.4	9.1	24.4	15.9	32.7
Dengue fever	Cases	0	1	2	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	Rate	0	4.4	8.7	5.7	1.6	1	2.8	2.1	0.9	0	0	0	0.7	4.4	0	0	3	1.7	1.7
Gastroenteritis	Cases	0	5	5	2	3	1	3	0	1	2	1	1	2	1	0	0	0	4	1
	Rate	1.8	10.8	18.4	7.5	1.3	14.5	6.4	4.2	7	1.3	37	61.7	52.3	54.9	4.7	1.4	12.2	8.4	1.9
Giardiasis	Cases	7	27	20	19	8	4	2	2	3	6	0	2	2	14	1	3	2	13	2
	Rate	36.7	35.5	35.8	33.4	30.5	56	27.1	48.8	16.5	48.3	37	17	20.9	47.2	44.4	46.1	30.5	29.9	17.2
Haemophilus influenzae type b	Cases	0	1	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0	0.2	0.2	0.6	0	1	0.5	0	0	0.6	0	0	0	0	0	0	6.1	0	0.3
Hepatitis A	Cases	2	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	3.6	0.7	2.5	1.8	0.5	1	1.4	2.1	0	0	1.6	3.5	1.4	0.3	0	0	0	0.6	1.7
Hepatitis B	Cases	0	1	1	1	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0
	Rate	0	0.7	1.9	0.4	0.5	1.9	2.3	2.1	0.9	0	0	0.6	2.1	0.7	0	2.1	0	0.4	0.3
Hepatitis C	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Rate	0	0.2	0.2	0	0	0	0	0	2.6	0	1.6	0	1.4	2.4	0	0.7	0	1.7	1
Invasive pneumococcal	Cases	5	4	5	9	3	2	4	0	0	3	0	0	3	2	2	1	0	7	5
	Rate	18.1	6.9	8.5	15.9	11.5	23.2	12	17	6.1	10.7	14.5	7.6	11.2	10.1	14	4.9	12.2	7.2	11.3
Legionellosis	Cases	2	2	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	6	5.2	1.5	3.9	1.3	1	7.8	0	0.9	1.3	0	3.5	0.7	1.7	2.3	4.2	15.2	8	2.3
Leptospirosis	Cases	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	2
	Rate	1.8	0.4	0	0.6	2.6	1	1.8	0	2.6	6.3	9.6	1.8	1.4	0	9.3	4.2	9.1	1	6.9
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.2	0.6	0.6	0.3	0	2.3	0	0	0	0	0	0	0.7	2.3	0	0	0.6	0
Malaria	Cases	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.4	1.3	1.8	0.3	1	0.9	0	0	1.3	0	0	0	0.3	0	0.7	0	0.8	0
Measles	Cases	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0.8	0.5	0	0.5	0	2.6	0	0	2.3	0	0.3	0	0	0	0.2	0
Meningococcal disease	Cases	1	3	0	1	0	0	0	0	2	2	0	0	0	2	1	0	0	1	1
	Rate	3.6	1.1	0.8	1	0.8	1	0	0	2.6	1.9	0	0.6	0	1.3	2.3	1.4	0	1	5.2
Mumps	Cases	1	1	0	3	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
	Rate	0.6	0.5	0	1	0	0	0.5	2.1	2.6	0.6	1.6	0	0	0	2.3	0.7	0	1	1.7
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.4	0.4	0.6	1.6	1	0	0	0.9	0	1.6	0.6	0	0	0	1.4	0	0.4	0.3
Pertussis	Cases	6	10	8	11	10	2	3	0	1	0	1	2	0	2	0	27	0	27	64
	Rate	24.7	29.5	17.8	29.3	15.4	13.5	11.5	19.1	10.4	17.6	1.6	14.1	7.7	32.7	11.7	47.5	3	24.3	45.5
Q fever	Cases	1	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
Rheumatic fever <sup>4</sup>	Cases	0	0	2	1	1	0	0	0	0	0	0	1	2	1	0	0	0	0	0
	Rate	6.6	2.1	4	8.4	2.6	8.7	3.2	8.5	0.9	1.9	1.6	1.8	3.5	1.7	4.7	0	0	0.4	0
Rickettsial disease	Cases	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.2	0.4	0.4	0.2	1.3	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
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	Cases	2	5	4	4	6	1	2	0	1	0	0	3	1	5	0	1	2	11	10
	Rate	24.7	25.1	28.4	17.1	15.6	16.4	20.2	12.7	25.2	19.4	14.5	21.1	17.4	16.5	25.7	24.5	21.3	29.9	32.7
Shigellosis	Cases	0	1	1	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.6	2.1	5.3	4.9	1.3	1.9	1.8	0	1.7	0	0	1.2	2.8	4	0	0	2.3	0	2.6
Tuberculosis disease	Cases	0	4	3	6	3	0	0	0	1	0	1	0	1	2	0	0	0	3	0
	Rate	1.8	7.5	15.9	11.6	4.7	6.8	4.1	6.4	3.5	2.5	4.8	3.5	8.4	6.7	0	2.1	3	6.2	0.6
Typhoid fever	Cases	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0	0.2	1.9	3.1	0	0	0	2.1	0	1.3	0	0.6	0	0.7	0	0	0	0.2	1
Viral Haemorrhagic Fever	Cases	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
VTEC/STEC infection	Cases	2	11	5	5	6	0	0	0	0	0	0	0	0	0	0	1	0	6	2
	Rate	9	6.9	6.8	5.1	12.5	5.8	3.7	0	7.8	0.6	6.4	2.9	0.7	1.3	2.3	8.4	3	5.1	4.8
Yersiniosis	Cases	0	3	6	7	6	2	2	1	4	1	3	2	3	7	0	0	0	15	4
	Rate	6	11	13.6	11.2	13.6	19.3	23.5	14.9	7.8	11.9	14.5	7.6	14.6	20.9	4.7	7	6.1	45.7	12.9

<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 August 2015 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 August 2015

		Cases <sup>1</sup> and current rate <sup>2</sup> for August 2015 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	27	47	38	32	76	20	16	5	23	21	4	10	13	35	7	19	7	54	9	27
	Rate	157.2	140.2	120.4	100.9	178.1	166.0	140.3	127.4	184.3	163.7	112.5	107.5	163.9	172.9	158.9	132.8	216.5	131.2	192.8	159.7
Cryptosporidiosis	Cases	3	4	3	19	19	0	3	0	1	4	1	9	0	2	1	1	0	5	2	2
	Rate	17.5	11.9	7.0	10.8	22.4	14.5	9.2	6.4	14.8	11.9	12.9	15.3	6.3	11.1	30.4	9.1	24.4	15.9	32.7	20.3
Dengue fever	Cases	0	1	2	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.0	4.4	8.7	5.7	1.6	1.0	2.8	2.1	0.9	0.0	0.0	0.0	0.7	4.4	0.0	0.0	3.0	1.7	1.7	1.6
Gastroenteritis	Cases	0	5	5	2	3	1	3	0	1	2	1	1	2	1	0	0	0	4	0	1
	Rate	1.8	10.8	18.4	7.5	1.3	14.5	6.4	4.2	7.0	1.3	37.0	61.7	52.3	54.9	4.7	1.4	12.2	8.4	0.0	1.9
Giardiasis	Cases	7	27	20	19	8	4	2	2	3	6	0	2	2	14	1	3	2	13	0	2
	Rate	36.7	35.5	35.8	33.4	30.5	56.0	27.1	48.8	16.5	48.3	37.0	17.0	20.9	47.2	44.4	46.1	30.5	29.9	17.2	22.3
Haemophilus influenzae type b	Cases	0	1	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.2	0.6	0.0	1.0	0.5	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.3
Hepatitis A	Cases	2	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	3.6	0.7	2.5	1.8	0.5	1.0	1.4	2.1	0.0	0.0	1.6	3.5	1.4	0.3	0.0	0.0	0.0	0.6	1.7	0.6
Hepatitis B	Cases	0	1	1	1	0	1	2	0	0	0	0	0	1	0	0	0	0	1	0	0
	Rate	0.0	0.7	1.9	0.4	0.5	1.9	2.3	2.1	0.9	0.0	0.0	0.6	2.1	0.7	0.0	2.1	0.0	0.4	0.0	0.3
Hepatitis C	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	2.6	0.0	1.6	0.0	1.4	2.4	0.0	0.7	0.0	1.7	1.7	1.0
Invasive pneumococcal disease	Cases	5	4	5	9	3	2	4	0	0	3	0	0	3	2	2	1	0	7	0	5
	Rate	18.1	6.9	8.5	15.9	11.5	23.2	12.0	17.0	6.1	10.7	14.5	7.6	11.2	10.1	14.0	4.9	12.2	7.2	3.4	11.3
Legionellosis	Cases	2	2	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	6.0	5.2	1.5	3.9	1.3	1.0	7.8	0.0	0.9	1.3	0.0	3.5	0.7	1.7	2.3	4.2	15.2	8.0	1.7	2.3
Leptospirosis	Cases	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	2	2
	Rate	1.8	0.4	0.0	0.6	2.6	1.0	1.8	0.0	2.6	6.3	9.6	1.8	1.4	0.0	9.3	4.2	9.1	1.0	6.9	4.2
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.6	0.6	0.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.3	0.0	0.0	0.6	0.0	0.0
Malaria	Cases	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.4	1.3	1.8	0.3	1.0	0.9	0.0	0.0	1.3	0.0	0.0	0.0	0.3	0.0	0.7	0.0	0.8	0.0	0.0
Measles	Cases	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.8	0.5	0.0	0.5	0.0	2.6	0.0	0.0	2.3	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0
Meningococcal disease	Cases	1	3	0	1	0	0	0	0	2	2	0	0	0	2	1	0	0	1	1	1
	Rate	3.6	1.1	0.8	1.0	0.8	1.0	0.0	0.0	2.6	1.9	0.0	0.6	0.0	1.3	2.3	1.4	0.0	1.0	5.2	1.9
Mumps	Cases	1	1	0	3	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0
	Rate	0.6	0.5	0.0	1.0	0.0	0.0	0.5	2.1	2.6	0.6	1.6	0.0	0.0	0.0	2.3	0.7	0.0	1.0	1.7	0.0
Paratyphoid 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	0.4	0.4	0.6	1.6	1.0	0.0	0.0	0.9	0.0	1.6	0.6	0.0	0.0	0.0	1.4	0.0	0.4	0.0	0.3
Pertussis	Cases	6	10	8	11	10	2	3	0	1	0	1	2	0	2	0	27	0	27	1	64
	Rate	24.7	29.5	17.8	29.3	15.4	13.5	11.5	19.1	10.4	17.6	1.6	14.1	7.7	32.7	11.7	47.5	3.0	24.3	8.6	45.5
Q fever	Cases	1	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 <sup>4</sup>	Cases	0	0	2	1	1	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0
	Rate	6.6	2.1	4.0	8.4	2.6	8.7	3.2	8.5	0.9	1.9	1.6	1.8	3.5	1.7	4.7	0.0	0.0	0.4	0.0	0.0
Rickettsial disease	Cases	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.2	0.4	0.4	0.2	1.3	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	2	5	4	4	6	1	2	0	1	0	0	3	1	5	0	1	2	11	2	10
	Rate	24.7	25.1	28.4	17.1	15.6	16.4	20.2	12.7	25.2	19.4	14.5	21.1	17.4	16.5	25.7	24.5	21.3	29.9	32.7	35.2
Shigellosis	Cases	0	1	1	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.6	2.1	5.3	4.9	1.3	1.9	1.8	0.0	1.7	0.0	0.0	1.2	2.8	4.0	0.0	0.0	0.0	2.3	0.0	2.6
Tuberculosis disease	Cases	0	4	3	6	3	0	0	0	1	0	1	0	1	2	0	0	0	3	0	0
	Rate	1.8	7.5	15.9	11.6	4.7	6.8	4.1	6.4	3.5	2.5	4.8	3.5	8.4	6.7	0.0	2.1	3.0	6.2	0.0	0.6
Typhoid fever	Cases	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	1.9	3.1	0.0	0.0	0.0	2.1	0.0	1.3	0.0	0.6	0.0	0.7	0.0	0.0	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	2	11	5	5	6	0	0	0	0	0	0	0	0	0	0	1	0	6	1	2
	Rate	9.0	6.9	6.8	5.1	12.5	5.8	3.7	0.0	7.8	0.6	6.4	2.9	0.7	1.3	2.3	8.4	3.0	5.1	15.5	4.8
Yersiniosis	Cases	0	3	6	7	6	2	2	1	4	1	3	2	3	7	0	0	0	15	3	4
	Rate	6.0	11.0	13.6	11.2	13.6	19.3	23.5	14.9	7.8	11.9	14.5	7.6	14.6	20.9	4.7	7.0	6.1	45.7	29.3	12.9

<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 August 2015 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 August 2015

Disease	Current Year - 2015 <sup>1</sup>			Previous Year - 2014		
	August 2015 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	August 2014 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	490	3541	142.7	506	3886	151.6
Cryptosporidiosis	79	260	13.7	49	226	15.4
Dengue fever	7	104	3.1	14	142	4.0
Gastroenteritis <sup>3</sup>	32	320	14.6	66	418	13.4
Giardiasis	137	1016	33.3	125	1222	39.3
Haemophilus influenzae type b	5	9	0.2	0	3	0.1
Hepatitis A	5	33	1.2	9	53	1.7
Hepatitis B <sup>4</sup>	8	27	0.8	5	24	0.8
Hepatitis C <sup>4</sup>	2	26	0.6	4	26	0.8
Invasive pneumococcal disease	55	289	10.5	52	322	11.2
Legionellosis	8	107	3.7	4	65	3.0
Leptospirosis	7	59	1.8	3	33	1.2
Listeriosis	0	15	0.4	1	21	0.6
Malaria	4	24	0.8	6	21	0.7
Measles	2	11	0.4	7	275	6.3
Meningococcal disease	15	38	1.2	7	30	1.1
Mumps	8	15	0.5	1	9	0.3
Paratyphoid fever	0	18	0.5	1	15	0.5
Pertussis	175	726	23.6	74	760	36.2
Q fever	1	1	0.0	0	0	0.0
Rheumatic fever <sup>5</sup>	8	87	3.0	19	155	5.2
Rickettsial disease	3	6	0.3	0	0	0.1
Rubella	0	0	0.0	0	4	0.1
Salmonellosis	60	718	23.2	64	630	22.4
Shigellosis	7	79	2.5	13	93	2.8
Tuberculosis disease	24	203	6.7	28	202	6.9
Typhoid fever	3	24	0.8	1	30	0.9
VTEC/STEC infection	39	202	5.8	17	127	3.6
Yersiniosis	69	347	16.9	30	266	10.3

<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 August 2015) or the previous year (12 months up to and including August 2014), 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 August: Chikungunya fever (1), Leprosy (2), Taeniasis (2).

# National Notifiable Disease Surveillance Data – Monthly totals for August 2015 and preceding 11 Months<sup>1</sup>

Disease	Aug 2015	Jul 2015	Jun 2015	May 2015	Apr 2015	Mar 2015	Feb 2015	Jan 2015	Dec 2014	Nov 2014	Oct 2014	Sep 2014
Campylobacteriosis	490	420	372	383	327	418	455	676	893	776	682	545
Cryptosporidiosis	79	23	22	25	34	23	17	37	24	70	144	120
Dengue fever	7	8	5	4	5	21	24	30	12	7	12	5
Gastroenteritis <sup>2</sup>	32	46	41	34	45	41	41	40	53	59	110	116
Giardiasis	137	110	114	127	122	132	150	124	122	116	107	142
Haemophilus influenzae type b	5	0	2	1	1	0	0	0	1	1	0	0
Hepatitis A	5	3	3	2	2	2	9	7	1	12	6	2
Hepatitis B <sup>3</sup>	8	3	2	4	2	4	2	2	2	1	5	3
Hepatitis C <sup>3</sup>	2	4	3	3	2	2	6	4	0	0	0	3
Invasive pneumococcal disease	55	65	50	30	25	30	16	18	44	38	51	53
Legionellosis	8	9	16	23	19	10	14	8	20	21	9	8
Leptospirosis	7	9	3	9	6	11	9	5	7	2	10	4
Listeriosis	0	3	4	3	0	2	2	1	2	0	2	0
Malaria	4	3	2	4	3	2	3	3	2	3	4	3
Measles	2	0	2	4	1	2	0	0	0	3	1	1
Meningococcal disease	15	5	9	0	2	0	2	5	2	1	5	7
Mumps	8	2	2	1	0	0	0	2	1	3	2	3
Paratyphoid fever	0	2	0	2	5	2	6	1	2	1	1	0
Pertussis	175	107	94	67	74	78	70	61	56	94	109	80
Q fever	1	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever <sup>4</sup>	8	12	14	20	6	5	13	9	11	6	14	19
Rickettsial disease	3	0	2	0	0	0	0	1	0	3	2	1
Salmonellosis	60	64	59	83	97	104	112	139	91	61	81	93
Shigellosis	7	5	7	9	7	11	9	24	10	5	8	12
Tuberculosis disease	24	23	24	29	26	35	22	20	33	17	26	24
Typhoid fever	3	3	2	2	1	4	1	8	4	2	2	4
VTEC/STEC infection	39	19	12	15	36	40	22	19	11	11	17	21
Yersiniosis	69	46	31	35	34	44	37	51	35	47	166	167

<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.