

MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 3 December 2008. As this information may be updated over time, the results should be regarded as provisional only.

Table of contents

1. Key notifiable disease trends	1
2. Outbreaks	3
3. Deaths from notifiable diseases	3
4. Trends in selected diseases to November 2008	4
5. Data Tables	5

1. Key notifiable disease trends

- *Hydatid disease:* 2 cases of hydatid disease, both still under investigation were notified in November 2008. A 72 year old male from the Cook Islands was referred to New Zealand for medical care. One 36 year old female from Auckland was diagnosed with hydatid disease two years ago when living in Australia and has new recurrence of symptoms.
- *Invasive pneumococcal disease:* 50 cases of invasive pneumococcal disease were notified in November 2008. The cases were reported from Waitemata (9), Counties Manukau (7), Bay of Plenty (7), Auckland (6), Canterbury (6), Waikato (4), Hawke's Bay (2), Capital and Coast (2), Lakes, Tairāwhiti, Taranaki, MidCentral, Hutt Valley, Otago and Southland DHBs (1 case each). The cases were distributed by age as follows 6 (<1 years), 10 (1-4 years), 1 (15-19 years), 4 (30-39 years), 3 (40-49 years), 10 (50-59 years), 6 (60-69 years) and 10 (70+ years). 34 of the cases were hospitalised and three cases died from invasive pneumococcal disease (1 aged 1-4 years, 1 aged 40-49 years and 1 aged 70+ years).
- *Legionellosis:* 20 cases of legionellosis were notified in November 2008 compared to 7 cases in the same month of the previous year (Figure 1). Five of the cases are confirmed, five cases are probable, and the remaining ten cases are still under investigation. The cases were from Canterbury (5), Counties Manukau (3), Waitemata, Auckland, Waikato, Bay of Plenty, Capital and Coast and South Canterbury DHBs (2 cases each). Seven cases were hospitalised. The cases were distributed by age as follows: 3 (30-39 years), 1 (40-49 years), 4 (50-59 years), 6 (60-69 years) and 6 (70+ years). The species involved was identified for eight of the cases: *Legionella longbeachae* serogroup 1 or 2 (2), *L. longbeachae* sg 2 (1), *L. longbeachae* sg unknown (1), *L. dumoffii* (1), *L. pneumonia* sg 1 (1), and *L. pneumophila* sg 1 (2).

- *Leptospirosis*: 12 cases of leptospirosis were notified in November 2008 compared to three cases during the same month in the previous year. The cases were from Waikato (2), Otago (2), Lakes, Tairāwhiti, Taranaki, Hawke's Bay, Wanganui, MidCentral, West Coast and Canterbury DHBs (1 case each). Nine cases were confirmed and four of these cases were hospitalised. The serovar was recorded for five of the cases: *Leptospira* Hardjo (3), *L. Ballum* (1) and *L. Tarassovi* (1). Ten of the cases had risk factor information associated with exposure to farm animals, one case had been to Thailand during the incubation period and risk factor information was not recorded for the remaining case.
- *Meningococcal disease*: Based on the earliest date available¹, 15 cases of meningococcal disease were notified during November 2008, 14 (93.3%) of which were laboratory-confirmed. In comparison, 8 cases were notified the previous month, October 2008, and 5 cases were notified during the same month last year, November 2007. For the 12 month period ending 30 November 2008, Wanganui DHB recorded the highest incidence rate of 7.9 per 100 000 population (5 cases), followed by Hawke's Bay DHB (7.8 per 100 000 population, 12 cases). The highest age-specific incidence rate was in infants aged less than one year (32.4 per 100 000 population, 20 cases), followed by those in the 1-4 years age group (14.3 per 100 000 population, 33 cases), and those in the 15-19 years age group (4.4 per 100 000 population, 14 cases).
- *Pertussis*: 56 cases of pertussis were notified in November 2008 bringing the year to date total to 373. There were 14 (25%) laboratory-confirmed cases. The highest numbers of cases were reported from Waikato and Canterbury DHBs (13 cases each). Auckland DHB has notified an outbreak of pertussis involving two cases (final report). For the previous 12 months, Nelson Marlborough DHB had the highest incidence rate of 23.8 per 100 000 population (6 cases) compared to a national rate of 9.2 per 100 000 population. The current 12 month rate by age group was highest amongst infants aged less than one year (61.5 per 100 000 population, 38 cases), followed by children in the 10-14 years age group (11.4 per 100 000 population, 35 cases) and adults in the 50-59 years age group (11.3 per 100 000 population, 58 cases).
- *VTEC/STEC*: Eight cases of VTEC/STEC infections were notified in November 2008 compared with four notified cases in the same month of the previous year (Figure 2). The cases were reported from Auckland (2), Canterbury (2), Waitemata, Counties Manukau, Waikato and Wairarapa DHBs (1 case each). The cases were distributed by age as follows: 1 (<1 years), 3 (1-4 years), 1 (15-19 years), 1 (30-39 years), 1 (40-49 years) and 1 (50-59 years). VTEC O157 was isolated for four of the cases. Risk factors recorded include: contact with animals (4), attended a social function (2), attended school (1), recreational water contact (1), non habitual water supply (1), and overseas during incubation period (1).

¹ The 'earliest' date refers to the earliest recorded date for the case (onset or hospitalisation date rather than report date, if available). 'Earliest' date, as opposed to 'report date' alone, is used throughout the analysis of meningococcal disease notification data.

2. Outbreaks

Completed outbreak reports: Twelve outbreak reports were entered into EpiSurv and completed during November 2008 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during November 2008

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Auckland	1	2
<i>Campylobacter</i>	Auckland	1	4
<i>Campylobacter jejuni</i>	Hutt	1	6
Gastroenteritis	Taranaki, Hawke's Bay, Wellington, Southland	4	23
<i>Giardia lamblia</i>	Auckland	1	2
Norovirus	Auckland	1	2
Norovirus GII	Wanganui, Wellington	2	36
<i>Shigella sonnei</i>	Auckland	1	2
Total		12	77

Interim outbreak reports: Forty nine interim outbreaks have been reported in November 2008 (Table 2). The status of the outbreak and cases involved are subject to change, as more data becomes available.

Table 2: Summary of interim outbreaks reported to ESR during November 2008

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Clostridium perfringens</i>	Auckland	1	4
<i>Cryptosporidium</i>	West Coast	1	4
Gastroenteritis	Auckland, Waikato, Taranaki, Tauranga, Hawke's Bay, Manawatu, Wellington, Canterbury, Otago	40	316
<i>Giardia</i>	Nelson Marlborough	1	3
<i>Giardia lamblia</i>	Auckland	1	4
Histamine (scombrotoxic) fish poisoning	Auckland	1	4
Lead poisoning	Auckland	1	-
Rotavirus	Auckland	1	7
<i>Salmonella</i> Typhimurium phage type 42	Canterbury	1	-
Unknown	Waikato	1	-
Total		49	342

3. Deaths from notifiable diseases

Three deaths were reported for the month of November from invasive pneumococcal disease (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during November 2008

Disease	District Health Board	Age group
Invasive pneumococcal disease	Bay of Plenty	1 to 4
Invasive pneumococcal disease	Canterbury	40 to 49
Invasive pneumococcal disease	Canterbury	70+

4. Trends in selected diseases to November 2008

Figure 1: Legionellosis notifications by month by year, January 2003 – November 2008

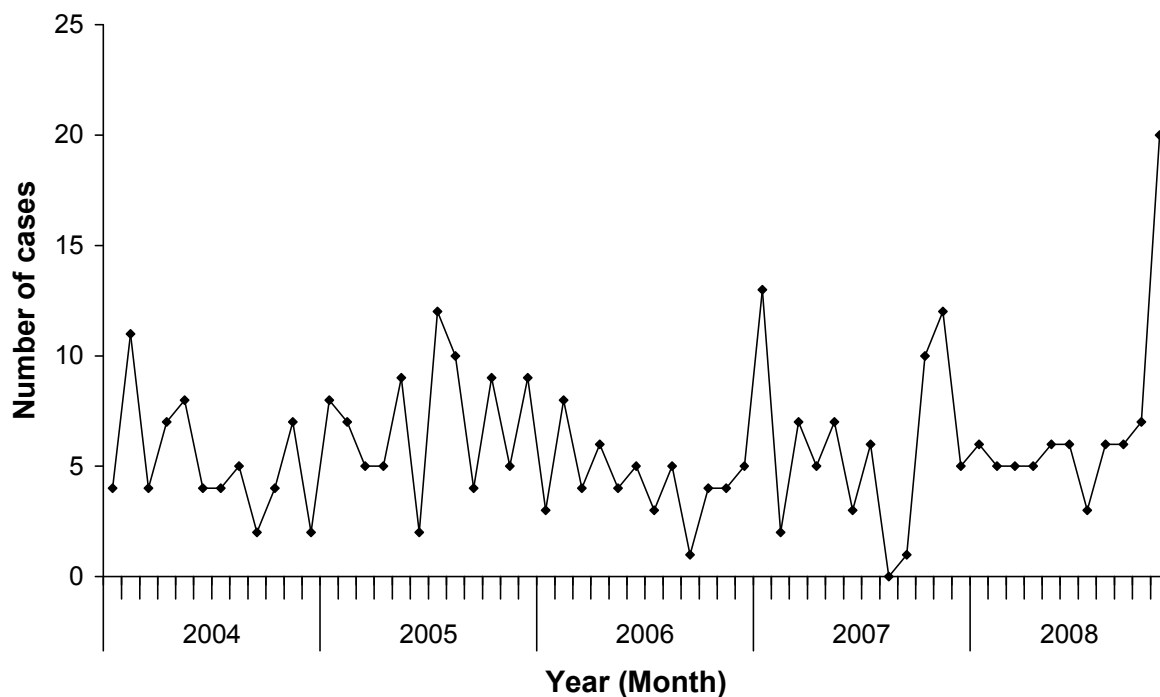
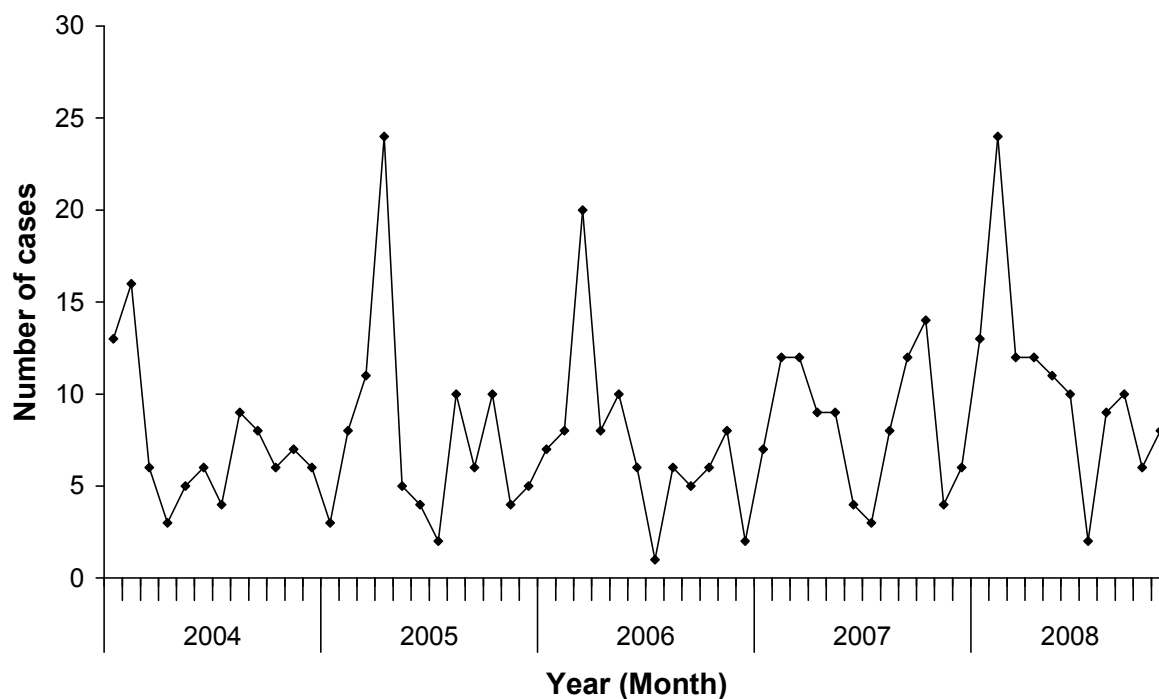


Figure 2: VTEC/STEC notifications by month by year, January 2003 – November 2008



5. Data Tables

National Notifiable Disease Surveillance Data November 2008

Disease	Current Year - 2008 ¹			Previous Year - 2007		
	November 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	November 2007 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	786	5763	157.5	1142	11882	316.7
Cryptosporidiosis	81	730	17.9	73	896	22.0
Dengue fever	17	106	2.6	5	109	2.7
Gastroenteritis	95	609	15.3	79	583	15.3
Giardiasis	120	1514	38.1	115	1306	32.8
Haemophilus influenzae type b	0	9	0.2	0	15	0.4
Hazardous substances injury	4	6	0.1	0	3	0.1
Hepatitis A	5	84	2.0	5	40	1.0
Hepatitis B ⁴	2	38	1.1	5	66	1.7
Hepatitis C ⁴	2	23	0.6	3	30	0.8
Invasive pneumococcal disease ⁵	51	77	1.8	0	0	0.0
Lead absorption	28	273	6.7	11	66	1.6
Legionellosis	16	69	1.8	7	59	1.5
Leptospirosis	12	107	2.7	3	59	1.4
Listeriosis	1	24	0.6	5	24	0.6
Malaria	2	37	0.9	6	24	0.6
Measles	5	14	0.5	1	17	0.4
Meningococcal disease ⁶	14	115	3.0	5	94	2.6
Mumps	7	73	2.0	4	62	1.6
Paratyphoid fever	1	23	0.6	5	21	0.5
Pertussis	55	371	9.2	27	315	8.1
Rheumatic fever	7	237	5.7	2	135	3.3
Rickettsial disease	0	10	0.2	0	2	0.0
Rubella	1	8	0.2	2	9	0.2
Salmonellosis	110	1219	31.6	111	1157	29.7
Shigellosis	7	102	2.5	7	124	3.1
Tuberculosis disease	28	285	7.2	30	266	6.7
Typhoid fever	1	27	0.7	1	46	1.3
VTEC/STEC infection	8	117	2.9	4	94	2.3
Yersiniosis	33	501	12.9	55	483	12.4

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including November 2008) or the previous year (12 months up to and including November 2007), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

⁴ Only acute cases of this disease are currently notifiable

⁵ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁶ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

Notifiable Disease Surveillance Data by District Health Board November 2008

		Cases ¹ and current rate ² for November 2008 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	24	121	94	94	55	17	30	3	27	24	16	25	41	67	6	27	6	59	8	31	11
	Rate	160.5	173.4	160.2	129.5	161.4	157.6	127.4	98.0	201.3	192.2	155.7	123.6	204.9	189.4	136.6	143.5	170.5	137.5	251.6	151.2	145.9
Cryptosporidiosis	Cases	5	3	2	2	15	0	3	0	4	2	1	2	3	1	2	1	3	6	4	10	12
	Rate	24.7	4.1	3.7	3.9	32.0	15.8	15.7	8.7	25.2	17.7	17.3	20.1	13.4	8.9	45.5	24.5	58.9	25.9	105.0	23.1	54.4
Dengue fever	Cases	0	3	1	3	1	0	1	0	0	0	0	0	0	2	0	1	0	5	0	0	0
	Rate	0.6	4.1	6.5	6.7	0.3	3.0	2.0	0.0	0.0	2.0	0.0	0.6	0.0	1.4	0.0	0.7	0.0	2.7	0.0	0.0	0.0
Gastroenteritis	Cases	0	12	20	20	7	0	0	0	0	0	4	9	0	6	0	0	1	10	6	0	0
	Rate	2.6	22.4	21.5	10.8	8.2	5.9	12.3	0.0	3.7	3.9	36.2	23.1	20.5	22.7	7.6	5.2	31.0	25.3	10.9	6.5	0.0
Giardiasis	Cases	5	16	14	15	10	3	2	0	0	9	0	1	4	13	0	3	0	15	0	5	5
	Rate	27.9	35.7	58.9	38.1	29.7	45.3	30.0	21.8	11.2	34.0	20.4	17.7	25.4	73.9	30.3	39.4	62.0	37.7	29.0	31.2	32.6
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	0
	Rate	0.0	0.2	0.0	0.0	0.0	0.0	1.0	4.4	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Hazardous substances injury	Cases	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.5	0.0	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
Hepatitis A	Cases	0	0	0	1	0	0	0	0	1	0	2	0	0	0	0	0	0	1	0	0	0
	Rate	2.6	1.2	2.8	2.6	1.1	1.0	0.0	0.0	0.9	0.7	14.2	12.2	2.1	1.4	5.1	0.7	0.0	0.8	0.0	0.5	0.9
Hepatitis B	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	1.6	3.2	0.2	0.6	2.0	0.5	2.2	0.9	0.0	1.6	0.6	0.7	0.7	5.1	0.7	0.0	1.4	0.0	0.0	0.0
Hepatitis C	Cases	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.7	0.6	0.3	3.0	1.0	0.0	2.8	0.0	0.0	0.0	0.7	1.1	2.5	0.0	0.0	0.8	0.0	0.0	0.0
Ebola Virus Disease	Cases	0	9	6	5	4	1	7	1	3	2	0	1	1	2	0	0	0	7	0	1	1
	Rate	0.0	2.1	2.1	2.4	1.4	3.0	3.4	2.2	3.7	1.3	0.0	0.6	0.7	0.7	2.5	0.0	0.0	2.7	0.0	1.1	3.6
Lead absorption	Cases	0	3	14	0	0	0	1	0	0	0	0	2	2	2	0	0	0	3	0	1	0
	Rate	2.6	9.4	19.6	5.8	5.7	5.9	2.0	2.2	1.9	3.9	14.2	6.1	3.5	2.8	10.1	0.7	0.0	5.9	3.6	4.8	4.5
Legionellosis	Cases	0	2	1	2	1	0	2	0	0	0	0	0	1	1	0	0	0	5	1	0	0
	Rate	0.0	1.4	2.1	2.2	1.4	1.0	3.9	0.0	0.9	3.3	1.6	0.6	2.1	1.1	0.0	0.7	0.0	2.9	3.6	1.1	0.9
Leptospirosis	Cases	0	0	0	0	2	1	0	1	1	1	1	1	0	0	0	0	1	1	0	2	0
	Rate	5.2	0.6	0.0	0.6	3.7	4.9	3.0	37.0	2.8	5.9	14.2	1.2	0.0	0.0	2.5	3.0	15.5	3.5	0.0	3.2	2.7
Listeriosis	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.5	1.3	1.1	0.0	1.0	0.0	0.0	0.0	1.6	0.6	0.0	0.4	2.5	0.0	0.0	0.8	0.0	1.1	0.0
Malaria	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	1.0	2.8	1.5	0.0	0.0	1.5	0.0	0.9	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.6	0.0	1.1	0.9
Measles	Cases	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.0	1.0	0.5	0.0	0.0	0.0	0.5	0.0	0.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	6.2	1.6	0.0	0.0	0.0
Aedes Mosquito Bites	Cases	0	0	1	1	1	0	0	0	1	2	1	0	0	0	1	2	0	1	1	2	0
	Rate	5.8	1.4	3.0	3.2	3.4	0.0	1.5	2.2	3.7	7.8	7.9	1.2	2.8	2.8	2.5	5.2	6.2	1.6	3.6	2.7	4.5
Mumps	Cases	1	1	1	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	2.6	1.6	2.5	3.2	2.5	3.0	2.5	0.0	0.0	3.3	1.6	1.2	0.7	2.1	0.0	0.0	0.0	2.7	0.0	0.5	0.0
Paratyphoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	0.7	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.8	0.0	0.0	2.7
Pertussis	Cases	0	3	1	3	13	1	4	0	0	1	0	3	1	1	2	6	0	13	0	1	2
	Rate	6.5	3.7	3.0	4.7	21.5	5.9	6.4	4.4	1.9	5.2	0.0	8.5	4.2	15.3	12.6	23.0	12.4	14.3	16.3	7.0	19.9
Rheumatic fever	Cases	0	0	0	0	3	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0
	Rate	7.8	2.3	2.1	4.3	8.5	44.3	33.4	8.7	0.9	7.8	1.6	4.3	2.8	5.0	2.5	0.0	0.0	0.4	0.0	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	0
	Rate	0.0	0.4	0.5	0.0	1.7	0.0	0.0	0.0	0.0	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	1	0	0	0
	Rate	0.0	0.2	0.0	0.2	0.0	0.0	1.0	0.0	0.0	1.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.0
Salmonellosis	Cases	6	10	6	6	6	3	6	1	2	3	0	1	6	2	3	5	2	22	1	13	6
	Rate	27.9	22.2	22.4	19.2	35.4	25.6	45.7	17.4	35.4	24.8	23.6	25.6	38.2	30.6	63.2	46.8	24.8	35.9	67.0	64.6	35.3
Shigellosis	Cases	0	2	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
	Rate	0.6	3.7	5.1	4.7	1.1	0.0	2.5	0.0	0.9	1.3	0.0	0.0	2.8	3.6	0.0	3.7	0.0	1.2	1.8	2.2	0.9
Tuberculosis disease	Cases	0	1	4	6	1	0	0	0	1	1	0	1	1	3	0	0	0	8	0	0	1
	Rate	5.2	10.1	13.2	12.5	5.1	3.9	4.4	4.4	2.8	2.6	6.3	5.5	10.6	7.1	0.0	3.0	0.0	6.1	7.2	0.5	1.8
Typhoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	1.8	2.8	0.3	0.0	0.0	0.0	0.0	0.7	1.6	0.0	1.4	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	1	2	1	1	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0
	Rate	5.8	2.5	3.0	2.4	5.7	4.9	2.0	0.0	4.7	0.7	1.6	0.6	0.7	2.1	2.5	2.2	3.1	4.3	5.4	1.6	0.9
Yersiniosis	Cases	1	3	5	0	0	0	4	0	4	1	0	0	1	5	1	0	2	6	0	0	0
	Rate	9.1	8.6	9.9	7.7	9.6	13.8	8.9	13.1	11.2	20.3	9.4	5.5	16.3	19.9	2.5	11.2	62.0	25.5	27.2	6.5	10.0

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including November 2008 expressed as cases per 100 000

³ Further data are available from the local Medical Officer of Health

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Notifiable Disease Surveillance Data by District Health Board November 2008

		Cases ¹ and current rate ² for November 2008 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	24	121	94	94	55	17	30	3	27	24	16	25	41	67	6	27	6	59	8	31	11
	Rate	160.5	173.4	160.2	129.5	161.4	157.6	127.4	98.0	201.3	192.2	155.7	123.6	204.9	189.4	136.6	143.5	170.5	137.5	251.6	151.2	145.9
Cryptosporidiosis	Cases	5	3	2	2	15	0	3	0	4	2	1	2	3	1	2	1	3	6	4	10	12
	Rate	24.7	4.1	3.7	3.9	32.0	15.8	15.7	8.7	25.2	17.7	17.3	20.1	13.4	8.9	45.5	24.5	58.9	25.9	105.0	23.1	54.4
Dengue fever	Cases	0	3	1	3	1	0	1	0	0	0	0	0	0	2	0	1	0	5	0	0	0
	Rate	0.6	4.1	6.5	6.7	0.3	3.0	2.0	0.0	0.0	2.0	0.0	0.6	0.0	1.4	0.0	0.7	0.0	2.7	0.0	0.0	0.0
Gastroenteritis	Cases	0	12	20	20	7	0	0	0	0	0	4	9	0	6	0	0	1	10	6	0	0
	Rate	2.6	22.4	21.5	10.8	8.2	5.9	12.3	0.0	3.7	3.9	36.2	23.1	20.5	22.7	7.6	5.2	31.0	25.3	10.9	6.5	0.0
Giardiasis	Cases	5	16	14	15	10	3	2	0	0	9	0	1	4	13	0	3	0	15	0	5	5
	Rate	27.9	35.7	58.9	38.1	29.7	45.3	30.0	21.8	11.2	34.0	20.4	17.7	25.4	73.9	30.3	39.4	62.0	37.7	29.0	31.2	32.6
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	0
	Rate	0.0	0.2	0.0	0.0	0.0	0.0	1.0	4.4	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Hazardous substances injury	Cases	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.5	0.0	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
Hepatitis A	Cases	0	0	0	1	0	0	0	0	1	0	2	0	0	0	0	0	0	1	0	0	0
	Rate	2.6	1.2	2.8	2.6	1.1	1.0	0.0	0.0	0.9	0.7	14.2	12.2	2.1	1.4	5.1	0.7	0.0	0.8	0.0	0.5	0.9
Hepatitis B	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	1.6	3.2	0.2	0.6	2.0	0.5	2.2	0.9	0.0	1.6	0.6	0.7	0.7	5.1	0.7	0.0	1.4	0.0	0.0	0.0
Hepatitis C	Cases	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.7	0.6	0.3	3.0	1.0	0.0	2.8	0.0	0.0	0.0	0.7	1.1	2.5	0.0	0.0	0.8	0.0	0.0	0.0
Ebola Virus Disease	Cases	0	9	6	5	4	1	7	1	3	2	0	1	1	2	0	0	0	7	0	1	1
	Rate	0.0	2.1	2.1	2.4	1.4	3.0	3.4	2.2	3.7	1.3	0.0	0.6	0.7	0.7	2.5	0.0	0.0	2.7	0.0	1.1	3.6
Lead absorption	Cases	0	3	14	0	0	0	1	0	0	0	0	2	2	2	0	0	0	3	0	1	0
	Rate	2.6	9.4	19.6	5.8	5.7	5.9	2.0	2.2	1.9	3.9	14.2	6.1	3.5	2.8	10.1	0.7	0.0	5.9	3.6	4.8	4.5
Legionellosis	Cases	0	2	1	2	1	0	2	0	0	0	0	0	1	1	0	0	0	5	1	0	0
	Rate	0.0	1.4	2.1	2.2	1.4	1.0	3.9	0.0	0.9	3.3	1.6	0.6	2.1	1.1	0.0	0.7	0.0	2.9	3.6	1.1	0.9
Leptospirosis	Cases	0	0	0	0	2	1	0	1	1	1	1	1	0	0	0	0	1	1	0	2	0
	Rate	5.2	0.6	0.0	0.6	3.7	4.9	3.0	37.0	2.8	5.9	14.2	1.2	0.0	0.0	2.5	3.0	15.5	3.5	0.0	3.2	2.7
Listeriosis	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.5	1.3	1.1	0.0	1.0	0.0	0.0	0.0	1.6	0.6	0.0	0.4	2.5	0.0	0.0	0.8	0.0	1.1	0.0
Malaria	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	1.0	2.8	1.5	0.0	0.0	1.5	0.0	0.9	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.6	0.0	1.1	0.9
Measles	Cases	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.0	1.0	0.5	0.0	0.0	0.0	0.5	0.0	0.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	6.2	1.6	0.0	0.0	0.0
Aedes Mosquito Bites	Cases	0	0	1	1	1	0	0	0	1	2	1	0	0	0	1	2	0	1	1	2	0
	Rate	5.8	1.4	3.0	3.2	3.4	0.0	1.5	2.2	3.7	7.8	7.9	1.2	2.8	2.8	2.5	5.2	6.2	1.6	3.6	2.7	4.5
Mumps	Cases	1	1	1	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	2.6	1.6	2.5	3.2	2.5	3.0	2.5	0.0	0.0	3.3	1.6	1.2	0.7	2.1	0.0	0.0	0.0	2.7	0.0	0.5	0.0
Paratyphoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	0.7	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.8	0.0	0.0	2.7
Pertussis	Cases	0	3	1	3	13	1	4	0	0	1	0	3	1	1	2	6	0	13	0	1	2
	Rate	6.5	3.7	3.0	4.7	21.5	5.9	6.4	4.4	1.9	5.2	0.0	8.5	4.2	15.3	12.6	23.0	12.4	14.3	16.3	7.0	19.9
Rheumatic fever	Cases	0	0	0	0	3	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0
	Rate	7.8	2.3	2.1	4.3	8.5	44.3	33.4	8.7	0.9	7.8	1.6	4.3	2.8	5.0	2.5	0.0	0.0	0.4	0.0	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	0
	Rate	0.0	0.4	0.5	0.0	1.7	0.0	0.0	0.0	0.0	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	1	0	0	0
	Rate	0.0	0.2	0.0	0.2	0.0	0.0	1.0	0.0	0.0	1.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.0
Salmonellosis	Cases	6	10	6	6	6	3	6	1	2	3	0	1	6	2	3	5	2	22	1	13	6
	Rate	27.9	22.2	22.4	19.2	35.4	25.6	45.7	17.4	35.4	24.8	23.6	25.6	38.2	30.6	63.2	46.8	24.8	35.9	67.0	64.6	35.3
Shigellosis	Cases	0	2	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
	Rate	0.6	3.7	5.1	4.7	1.1	0.0	2.5	0.0	0.9	1.3	0.0	0.0	2.8	3.6	0.0	3.7	0.0	1.2	1.8	2.2	0.9
Tuberculosis disease	Cases	0	1	4	6	1	0	0	0	1	1	0	1	1	3	0	0	0	8	0	0	1
	Rate	5.2	10.1	13.2	12.5	5.1	3.9	4.4	4.4	2.8	2.6	6.3	5.5	10.6	7.1	0.0	3.0	0.0	6.1	7.2	0.5	1.8
Typhoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	1.8	2.8	0.3	0.0	0.0	0.0	0.0	0.7	1.6	0.0	1.4	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	1	2	1	1	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0
	Rate	5.8	2.5	3.0	2.4	5.7	4.9	2.0	0.0	4.7	0.7	1.6	0.6	0.7	2.1	2.5	2.2	3.1	4.3	5.4	1.6	0.9
Yersiniosis	Cases	1	3	5	0	0	0	4	0	4	1	0	0	1	5	1	0	2	6	0	0	0
	Rate	9.1	8.6	9.9	7.7	9.6	13.8	8.9	13.1	11.2	20.3	9.4	5.5	16.3	19.9	2.5	11.2	62.0	25.5	27.2	6.5	10.0

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including November 2008 expressed as cases per 100 000

³ Further data are available from the local Medical Officer of Health

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Notifiable Disease Surveillance Data for the 12 months ending November-2008 by District Health Board

Disease	Cases for the 12 months ending November 2008 ^{1 2} by District Health Board ³																					
	Total	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	Otago	Southland
Campylobacteriosis	6659	247	890	694	602	570	160	259	45	216	294	99	203	290	533	54	193	55	674	139	281	161
Cryptosporidiosis	758	38	21	16	18	113	16	32	4	27	27	11	33	19	25	18	33	19	127	58	43	60
Dengue fever	111	1	21	28	31	1	3	4	0	0	3	0	1	0	4	0	1	0	13	0	0	0
Gastroenteritis	648	4	115	93	50	29	6	25	0	4	6	23	38	29	64	3	7	10	124	6	12	0
Giardiasis	1610	43	183	255	177	105	46	61	10	12	52	13	29	36	208	12	53	20	185	16	58	36
Haemophilus influenzae type b	9	0	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	2	0	0	0
Hazardous substances injury	6	0	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	86	4	6	12	12	4	1	0	0	1	1	9	20	3	4	2	1	0	4	0	1	1
Hepatitis B	45	0	8	14	1	2	2	1	1	1	0	1	1	1	2	2	1	0	7	0	0	0
Hepatitis C	25	0	1	3	3	1	3	2	0	3	0	0	0	1	3	1	0	0	4	0	0	0
Ischaemic heart disease	77	0	11	9	11	5	3	7	1	4	2	0	1	1	2	1	0	0	13	0	2	4
Lead absorption	285	4	48	85	27	20	6	4	1	2	6	9	10	5	8	4	1	0	29	2	9	5
Legionellosis	74	0	7	9	10	5	1	8	0	1	5	1	1	3	3	0	1	0	14	2	2	1
Leptospirosis	114	8	3	0	3	13	5	6	17	3	9	9	2	0	0	1	4	5	17	0	6	3
Listeriosis	26	0	2	2	6	4	0	2	0	0	0	1	1	0	1	1	0	0	4	0	2	0
Malaria	38	2	5	12	7	0	0	3	0	1	0	0	0	1	1	0	0	0	3	0	2	1
Measles	21	0	5	2	0	0	0	1	0	1	2	0	0	0	0	0	0	2	8	0	0	0
Non-infectious diseases	125	9	7	13	15	12	0	3	1	4	12	5	2	4	8	1	7	2	8	2	5	5
Mumps	84	4	8	11	15	9	3	5	0	0	5	1	2	1	6	0	0	0	13	0	1	0
Paratyphoid fever	25	1	4	3	6	3	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	3
Pertussis	388	10	19	13	22	76	6	13	2	2	8	0	14	6	43	5	31	4	70	9	13	22
Rheumatic fever	242	12	12	9	20	30	45	68	4	1	12	1	7	4	14	1	0	0	2	0	0	0
Rickettsial disease	10	0	2	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	10	0	1	0	1	0	0	2	0	0	2	0	2	0	0	0	0	0	1	0	1	0
Salmonellosis	1336	43	114	97	89	125	26	93	8	38	38	15	42	54	86	25	63	8	176	37	120	39
Shigellosis	107	1	19	22	22	4	0	5	0	1	2	0	0	4	10	0	5	0	6	1	4	1
Tuberculosis disease	304	8	52	57	58	18	4	9	2	3	4	4	9	15	20	0	4	0	30	4	1	2
Typhoid fever	29	0	1	8	13	1	0	0	0	0	1	1	0	2	1	0	0	0	1	0	0	0
VTEC/STEC infection	123	9	13	13	11	20	5	4	0	5	1	1	1	1	6	1	3	1	21	3	3	1
Yersiniosis	545	14	44	43	36	34	14	18	6	12	31	6	9	23	56	1	15	20	125	15	12	11
Total	13936	462	1626	1529	1272	1212	355	638	104	342	525	210	428	503	1111	133	423	146	1688	294	579	356

Notifiable Disease Surveillance Data for the 12 months ending November-2008 by District Health Board

¹ These data are provisional

² Further data are available from the local Medical Officer of Health

³ These totals are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section

-bJ Uglj`Y`dbYi`a`cVc`WwU`X]gYUgY`VYVUa`Y`U`bch]ZUV`Y`X]gYUgY`cb`h`Y`%+h`C`Vc`VYF`&\$\$,
 `h`Y`gY`hchU`g`UbX`fUHy`g`UFY`XYFj`YX`Zfca`h`Y`9d]G`f`fYdcfhXUHy`Ug`cddcgyX`hc`h`Y`Yuf`Y]ghUj`Uj`UV`Y`XUHy`i`gYX`]b`h`Y`a`Yb]b[`cVc`WwU`X]gYUgY`gYVUcb`c`Z`h`]g`fYdcfh

National Notifiable Disease Surveillance Data November 2008

Disease	Current Year - 2008 ¹			Previous Year - 2007		
	November 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	November 2007 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	786	5763	157.5	1142	11882	316.7
Cryptosporidiosis	81	730	17.9	73	896	22.0
Dengue fever	17	106	2.6	5	109	2.7
Gastroenteritis	95	609	15.3	79	583	15.3
Giardiasis	120	1514	38.1	115	1306	32.8
Haemophilus influenzae type b	0	9	0.2	0	15	0.4
Hazardous substances injury	4	6	0.1	0	3	0.1
Hepatitis A	5	84	2.0	5	40	1.0
<YdUh]hg'6	2	38	1.1	5	66	1.7
<YdUh]hg'7	2	23	0.6	3	30	0.8
⋄j Ug]j Y'dbYi a cVŁVWU' X]gYUgY	51	77	1.8	0	0	0.0
Lead absorption	28	273	6.7	11	66	1.6
Legionellosis	16	69	1.8	7	59	1.5
Leptospirosis	12	107	2.7	3	59	1.4
Listeriosis	1	24	0.6	5	24	0.6
Malaria	2	37	0.9	6	24	0.6
Measles	5	14	0.5	1	17	0.4
A Yb]b[cVŁVWU' X]gYUgY	14	115	3.0	5	94	2.6
Mumps	7	73	2.0	4	62	1.6
Paratyphoid fever	1	23	0.6	5	21	0.5
Pertussis	55	371	9.2	27	315	8.1
Rheumatic fever	7	237	5.7	2	135	3.3
Rickettsial disease	0	10	0.2	0	2	0.0
Rubella	1	8	0.2	2	9	0.2
Salmonellosis	110	1219	31.6	111	1157	29.7
Shigellosis	7	102	2.5	7	124	3.1
Tuberculosis disease	28	285	7.2	30	266	6.7
Typhoid fever	1	27	0.7	1	46	1.3
VTEC/STEC infection	8	117	2.9	4	94	2.3
Yersiniosis	33	501	12.9	55	483	12.4

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including November 2008) or the previous year (12 months up to and including November 2007), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

‘C b`mUW` hY`WUgYg`cZ`h\]g`X]gYUgY`UFY`W` ffYbhmbch]Z]UV`Y`
`⋄j Ug]j Y`dbYi a cVŁVWU' X]gYUgY`VYVWla`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`VŁc`VYf`&\$\$,
`h`Y`gY`h`c`HJ`g`UbX`f`U`h`g`U`f`Y`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`f`YdcfhXU`h`Ug`cddcgYX`h`c`h`Y`YUf`YghUj`Uj`UV`Y`XU`h`i`gYX`j`b`h`Y`
a`Yb]b[`c`VŁVWU' X]gYUgY`gYVW]cb`cZ`h\]g`f`Ydcfh`