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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 staff up until 2<sup>nd</sup> April 2009. As this information may be updated over time, the results should be regarded as provisional only.

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### 1. Key notifiable disease trends

- *Cryptosporidiosis*: 48 cryptosporidiosis cases were notified in March 2009 compared to 24 cases notified in the same month of the previous year. For the 12 month period ending 31 March 2009 the national rate was 19.0 per 100 000 population compared to 18.8 for the same 12 month period last year. The cases had varied ages, ranging from less than 1 year to 70+ years, with the highest number of cases in the 1-4 years age group (14 cases) followed by 30-39 years age group (9 cases). One case was hospitalised. Among the cases where risk factor information was recorded, 50.0% (5/10) had faecal contact, 45.5% (5/11) had recreational water contact, 44.4% (4/9) had consumed food from a food premise and 20.0% (2/10) had contact with farm animals. Two cases had travelled overseas.
- **Dengue Fever**: 18 cases of dengue fever were notified in March 2009 compared to 7 notified cases during the same month of the previous year. For the 12 month period ending 31 March 2009 the national rate was 3.5 per 100 000 population. The highest number of cases was in the 30-39 years age group (5 cases). Four cases were hospitalised. Overseas travel was recorded for 14 of the cases and the travel history of 4 cases were recorded as unknown. The countries or regions visited during the incubation period were Tonga (7), Vanuatu (2), Australia (1), Cook Islands (1), Papua New Guinea (1), Samoa(1), and South Asia (1).
- **Hazardous substances injury**: Two cases of laboratory-confirmed hazardous substances injuries were notified in March 2009. Both cases were from Otago DHB, a female in the 30-39 years age group and a male in the 40-49 year age group. Both cases were hospitalised and involved in an outbreak. These cases are still under investigation.

- *Meningococcal disease*: Based on the earliest date available<sup>1</sup>, 4 cases of meningococcal disease were notified during March 2009, 3 (75.0%) of which were laboratory-confirmed. In comparison, 9 cases were notified the previous month, February 2009, and 7 cases were notified during the same month last year, March 2008. For the 12 month period ending 31 March 2009, Hawke's Bay DHB recorded the highest incidence rate of 6.5 per 100 000 population (10 cases), followed by Whanganui DHB (6.3 per 100 000, 4 cases) and Southland DHB (5.4 per 100 000, 6 cases). The highest age-specific incidence rate was in infants aged less than one year (32.8 per 100 000 population, 21 cases), followed by those in the 1-4 years age group (13.6 per 100 000, 32 cases), and those in the 15-19 years age group (5.0 per 100 000, 16 cases).
- *Pertussis*: 121 cases of pertussis were notified in March 2009, compared to 140 notifications in the preceding month and 27 notifications in same month of the previous year (Figure 1). There were 36 (29.8%) laboratory-confirmed cases. The highest numbers of cases were reported from Canterbury (38), Nelson Marlborough (20) and Waikato (11) DHBs. For the 12 month period ending 31 March 2009, the highest incidence rates were reported from West Coast (67.9 per 100 000 population, 5 cases) and Nelson Marlborough (60.4 per 100 000, 20 cases) DHBs compared to a national rate of 16.2 per 100 000 population. The current 12 month rate by age group was highest amongst infants aged less than one year (104.6 per 100 000 population, 67 cases), followed by children in the 1-4 years age group (26.3 per 100 000, 62 cases).
- *Ross River Virus Infection*: One case of Ross River virus infection, still under investigation, was laboratory notified in March 2009. The case was a female in the 60-69 years age group of European ethnicity. The case had been to Australia during the incubation period for this disease.
- *Taeniasis*: One laboratory-confirmed male case was notified with taeniasis in March 2009. The case was in the 30-39 years age group from Auckland DHB. The case is from Ethiopia and is considered to have acquired the infection there.
- *VTEC/STEC*: 33 cases of VTEC/STEC infections were notified in March 2009. The highest numbers of cases were reported from Bay of Plenty (6) and Auckland (5) DHBs. The cases were aged between less than 1 year and 70+ years, with the highest number of cases in the 1-4 years age group (8 cases). VTEC O157 was isolated for 17 of the cases. Risk factors recorded include: contact with animals (11), attended school (7), attended a social function (4), recreational water contact (4), consumption of water from non habitual water supply (3), contact with another person with similar symptoms (2) and contact with children in nappies (2).

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<sup>1</sup> 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:* 9 outbreak reports were entered into EpiSurv and completed during March 2009 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during March 2009

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
Gastroenteritis	Auckland, Otago	3	14
<i>Giardia</i>	Auckland, West Coast	3	16
Norovirus	Manawatu, Wellington, Canterbury	3	214
<b>Total</b>		9	244

*Interim outbreak reports:* 34 interim outbreaks have been reported in March 2009. 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 March 2009

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Bordetella</i>	Wellington	1	2
Chemical Injury	Otago	1	4
Conjunctivitis	Waikato	1	6
Gastroenteritis	Auckland, Waikato, Tauranga, Manawatu, Wellington, Nelson-Marlborough, Canterbury, Otago, Southland	19	283
<i>Giardia</i>	Auckland, Southland	6	22
<i>Mycobacterium</i>	Canterbury	1	8
Norovirus	Hawke's Bay, Manawatu, Wellington	3	80
Rotavirus	Manawatu, Wellington	2	18
<b>Total</b>		34	423

## 3. Deaths from notifiable diseases

Four deaths were reported for the month of March from Invasive pneumococcal disease (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during March 2009

Disease	District Health Board	Age group
Invasive pneumococcal disease	Auckland	70+
Invasive pneumococcal disease	Counties Manukau	30 to 39
Invasive pneumococcal disease	Lakes	50 to 59
Invasive pneumococcal disease	Capital and Coast	70+

#### 4. Trends in selected diseases to March 2009

Figure 1: Pertussis notifications by month by year, January 2004 – March 2009

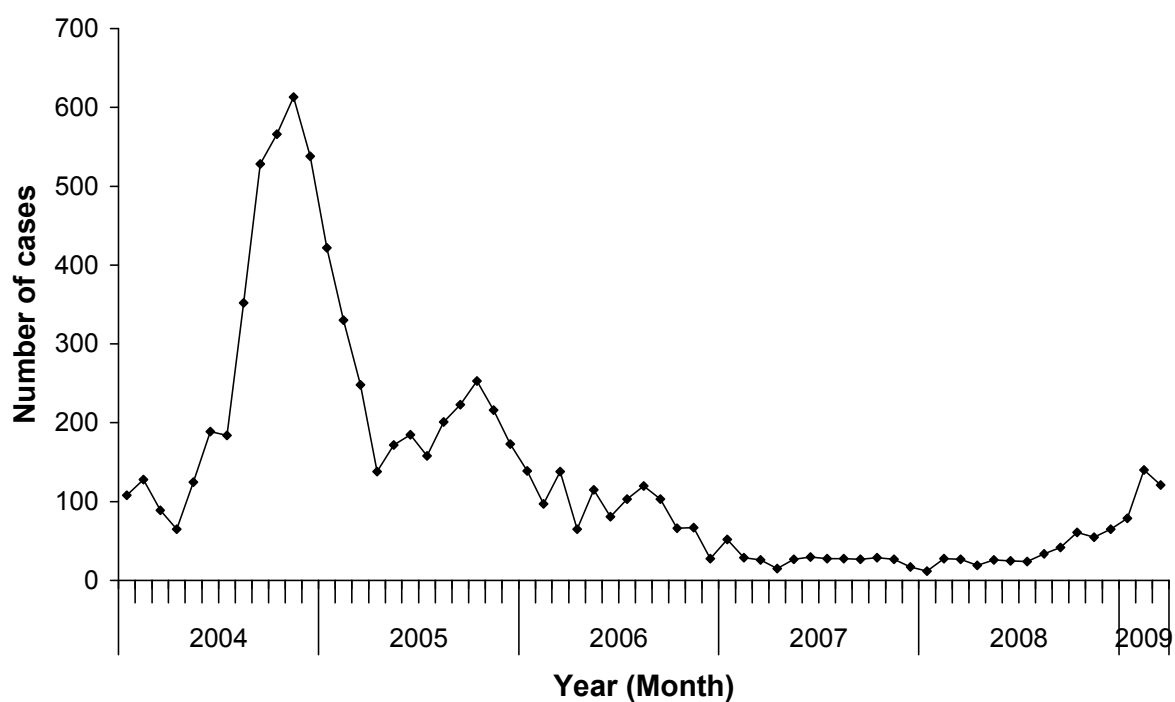
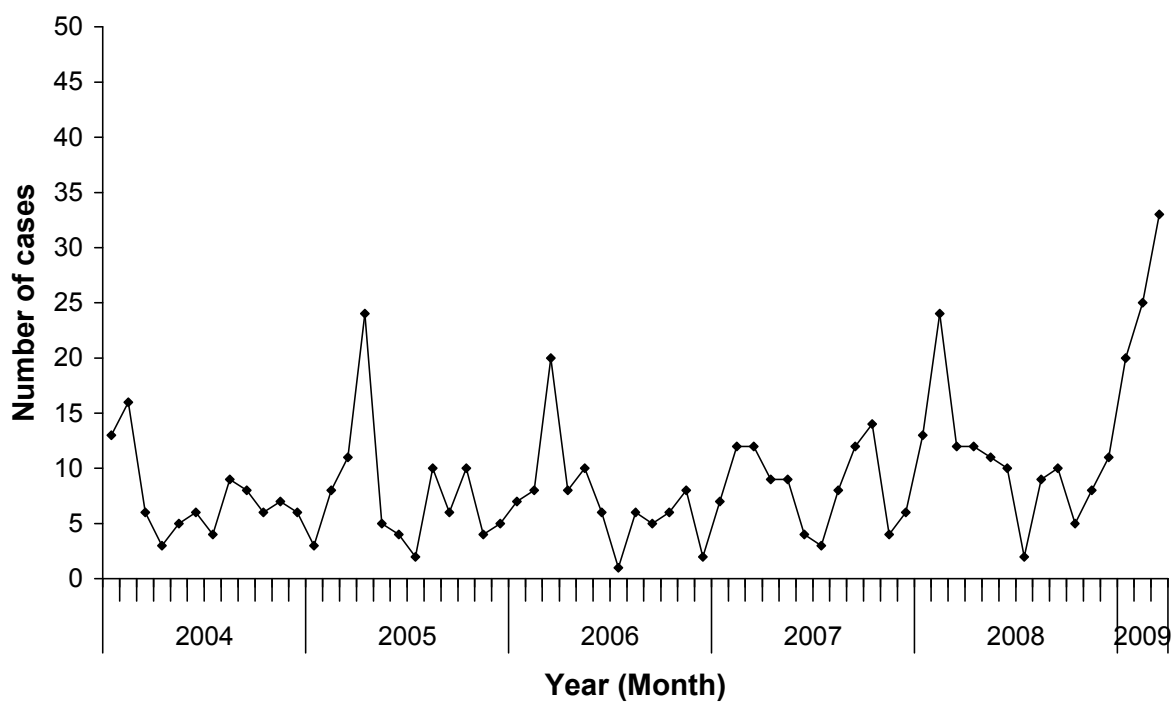


Figure 2: VTEC/STEC notifications by month by year, January 2004 – March 2009



## 5. Data Tables

### National Notifiable Disease Surveillance Data March 2009

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	March 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	March 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	507	1895	159.9	449	1760	234.0
Cryptosporidiosis	48	132	19.0	24	83	18.8
Dengue fever	18	69	3.5	7	31	2.0
Gastroenteritis	60	132	15.1	65	179	14.9
Giardiasis	185	474	40.2	152	417	33.5
Haemophilus influenzae type b	1	1	0.1	1	5	0.3
Hazardous substances injury	2	3	0.3	0	0	0.1
Hepatitis A	3	10	1.9	6	18	1.0
Hepatitis B <sup>4</sup>	2	14	0.9	1	13	1.5
Hepatitis C <sup>4</sup>	4	13	0.7	1	7	0.7
Invasive pneumococcal disease <sup>5</sup>	47	125	5.9	0	0	0.0
Lead absorption	29	81	7.9	41	59	2.7
Legionellosis	11	32	2.1	5	16	1.4
Leptospirosis	11	19	2.7	7	22	1.4
Listeriosis	1	6	0.6	2	9	0.7
Malaria	8	18	1.2	3	8	0.7
Measles	12	28	0.9	0	0	0.4
Meningococcal disease <sup>6</sup>	3	22	2.9	6	21	2.6
Mumps	5	9	1.3	7	29	1.9
Paratyphoid fever	4	8	0.5	1	11	0.6
Pertussis	121	340	16.2	27	67	7.0
Rheumatic fever	12	29	3.7	5	25	3.6
Rickettsial disease	1	2	0.3	0	0	0.0
Salmonellosis	159	444	30.4	134	492	32.9
Shigellosis	17	41	3.0	11	25	3.0
Tuberculosis disease	26	82	7.2	23	76	7.0
Typhoid fever	2	20	0.9	2	9	0.8
VTEC/STEC infection	33	78	3.7	12	49	2.8
Yersiniosis	49	167	11.6	69	181	12.9

<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 March 2009) or the previous year (12 months up to and including March 2008), expressed as cases per 100 000

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

<sup>6</sup> 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

<sup>6</sup> Other notifiable infectious disease reported in March: Ross River virus infection (1), Taeniasis (1)

Notifiable Disease Surveillance Data by District Health Board March 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for March 2009 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	Otago	Southland
Campylobacteriosis	Cases	12	56	49	44	47	9	33	1	6	13	8	14	24	53	3	7	4	46	12	35	31
	Rate	155.8	168.6	161.6	133.1	171.8	164.5	137.3	87.1	206.1	190.5	148.5	132.9	211.4	219.8	150.9	162.9	142.1	121.6	255.0	146.8	155.2
Cryptosporidiosis	Cases	2	7	8	6	0	0	5	1	0	0	0	2	1	3	0	3	0	9	0	1	0
	Rate	24.6	5.8	7.5	6.1	31.7	16.7	16.6	6.5	27.9	17.0	20.5	21.2	13.4	10.9	42.8	19.9	52.5	29.0	101.3	23.5	51.4
Dengue fever	Cases	0	1	3	5	0	1	1	1	0	3	0	0	0	2	0	0	0	1	0	0	0
	Rate	1.3	3.8	8.2	9.7	1.1	1.0	2.4	2.2	0.0	3.3	0.0	1.8	0.7	3.9	2.5	0.7	0.0	2.6	0.0	0.0	0.9
Gastroenteritis	Cases	0	4	8	7	2	0	1	0	0	0	0	17	3	5	0	2	0	7	1	1	2
	Rate	3.2	21.1	22.4	13.5	6.5	1.0	9.7	4.4	1.9	2.6	28.4	35.2	23.3	25.3	7.5	5.2	21.6	18.5	14.5	6.9	2.7
Giardiasis	Cases	2	17	25	23	21	4	9	3	3	7	2	1	4	16	1	7	3	22	2	6	7
	Rate	31.0	36.5	58.4	43.5	37.1	53.2	25.8	28.3	20.4	37.8	25.3	12.7	29.6	70.7	30.2	36.1	58.7	39.1	28.9	33.6	46.9
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	1	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	0.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
	Rate	0.0	0.6	0.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Hepatitis A	Cases	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.2	1.3	2.3	2.1	0.3	2.0	1.0	0.0	1.9	0.7	14.2	12.1	1.4	1.1	5.0	0.0	0.0	0.8	0.0	0.0	0.9
Hepatitis B	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
	Rate	0.0	1.3	2.3	0.8	0.0	1.0	0.0	2.2	2.8	0.0	0.0	0.0	0.0	0.7	2.5	0.7	0.0	1.6	0.0	0.0	0.9
Hepatitis C	Cases	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.7	0.6	0.3	3.0	1.0	0.0	4.6	0.0	0.0	0.6	0.7	0.7	2.5	0.0	0.0	1.0	0.0	0.0	0.0
Ebola Virus Disease	Cases	1	1	5	9	5	4	3	0	0	3	0	1	0	4	0	3	0	6	0	1	1
	Rate	3.2	4.6	5.2	8.9	8.4	10.8	6.8	4.4	6.5	5.9	0.0	2.4	4.9	2.8	10.1	6.6	0.0	5.6	3.6	6.4	9.9
Lead absorption	Cases	0	3	13	0	2	0	0	0	1	0	2	1	2	0	1	0	0	3	0	1	0
	Rate	0.6	11.5	26.7	8.0	7.3	6.9	2.4	4.4	4.6	3.3	12.6	10.9	4.9	3.5	12.6	0.7	0.0	3.4	1.8	2.1	1.8
Legionellosis	Cases	0	1	2	3	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	2	0
	Rate	0.0	1.7	2.1	2.3	2.0	1.0	4.9	0.0	2.8	3.9	1.6	0.0	2.1	1.1	2.5	2.2	6.2	2.6	7.2	1.6	0.0
Leptospirosis	Cases	0	0	0	0	2	0	0	0	1	3	0	1	0	0	0	0	2	1	1	0	0
	Rate	5.2	0.4	0.2	0.6	5.6	3.0	3.4	37.0	4.6	7.2	11.1	1.8	0.0	0.0	2.5	2.9	15.4	2.2	1.8	3.7	0.9
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.7	1.3	0.3	0.0	1.0	0.0	0.0	0.0	1.6	0.6	0.0	0.0	2.5	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	0	1	2	0	0	0	0	0	1	0	0	0	1	0	0	1	2	0	0	0
	Rate	0.6	1.3	2.5	3.4	0.0	0.0	1.5	0.0	0.9	0.7	0.0	0.0	0.7	0.7	0.0	0.0	3.1	1.0	0.0	0.5	0.0
Measles	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10	0
	Rate	0.0	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.4	0.0	0.0	3.1	1.6	0.0	12.3	0.0
Aedes Mosquito Bites	Cases	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
	Rate	5.2	1.3	1.8	3.8	2.8	2.0	1.9	4.4	1.9	6.5	6.3	1.8	2.8	3.2	5.0	3.7	3.1	2.0	3.6	3.2	5.4
Mumps	Cases	1	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	Rate	2.6	1.0	0.9	1.7	1.4	2.0	1.9	0.0	0.0	3.3	1.6	0.0	2.8	1.1	0.0	0.7	0.0	1.8	0.0	0.5	0.0
Paratyphoid fever	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.0	0.8	0.9	1.1	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.5	0.0	0.0	0.4	0.0	0.0	0.9
Pertussis	Cases	0	9	4	6	11	4	2	1	1	3	1	0	4	9	1	20	5	38	0	1	1
	Rate	7.1	6.0	4.1	8.0	29.5	8.9	12.2	4.4	5.6	8.5	6.3	10.3	14.1	20.4	17.6	60.4	67.9	34.3	19.9	7.5	25.3
Rheumatic fever	Cases	3	0	1	6	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
	Rate	8.4	2.3	3.0	6.8	8.7	5.9	2.4	8.7	1.9	5.9	1.6	3.0	4.9	4.9	2.5	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.5	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	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	0
	Rate	0.0	0.2	0.0	0.2	0.0	0.0	1.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.0
Salmonellosis	Cases	6	17	12	17	12	3	9	2	1	5	2	1	10	9	5	4	2	22	7	8	5
	Rate	26.5	20.2	22.8	23.9	32.3	29.6	28.2	58.8	27.9	26.1	23.7	24.3	33.8	28.5	57.9	40.5	27.8	34.9	68.7	60.9	38.8
Shigellosis	Cases	0	5	4	4	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0
	Rate	1.3	4.8	5.5	5.3	1.1	1.0	3.4	0.0	0.9	0.0	0.0	0.0	2.8	3.2	0.0	5.2	3.1	2.2	3.6	2.1	1.8
Tuberculosis disease	Cases	0	5	5	3	1	1	1	0	0	0	0	0	2	2	0	0	0	6	0	0	0
	Rate	7.1	9.4	11.2	13.1	6.7	4.9	4.4	4.4	0.9	3.3	1.6	4.9	7.8	9.5	0.0	5.2	0.0	6.5	3.6	0.5	1.8
Typhoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.6	1.6	4.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	1	1	5	2	3	2	6	2	2	2	0	0	2	1	0	0	1	2	0	1	0
	Rate	7.1	2.3	6.2	1.9	7.3	4.9	4.9	13.1	9.3	2.0	1.6	1.2	2.1	1.4	5.0	0.7	6.2	2.8	3.6	2.7	0.9
Yersiniosis	Cases	2	6	7	4	1	1	1	0	1	2	0	0	4	7	0	0	0	10	1	1	1
	Rate	11.0	9.2	13.5	7.2	8.4	12.8	8.3	6.5	14.9	14.3	6.3	1.2	20.4	24.6	5.0	6.6	37.1	16.3	19.9	4.3	7.2

<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 2009 expressed as cases per 100 000

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

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Notifiable Disease Surveillance Data by District Health Board March 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for March 2009 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	Otago	Southland
Campylobacteriosis	Cases	12	56	49	44	47	9	33	1	6	13	8	14	24	53	3	7	4	46	12	35	31
	Rate	155.8	168.6	161.6	133.1	171.8	164.5	137.3	87.1	206.1	190.5	148.5	132.9	211.4	219.8	150.9	162.9	142.1	121.6	255.0	146.8	155.2
Cryptosporidiosis	Cases	2	7	8	6	0	0	5	1	0	0	0	2	1	3	0	3	0	9	0	1	0
	Rate	24.6	5.8	7.5	6.1	31.7	16.7	16.6	6.5	27.9	17.0	20.5	21.2	13.4	10.9	42.8	19.9	52.5	29.0	101.3	23.5	51.4
Dengue fever	Cases	0	1	3	5	0	1	1	1	0	3	0	0	0	2	0	0	0	1	0	0	0
	Rate	1.3	3.8	8.2	9.7	1.1	1.0	2.4	2.2	0.0	3.3	0.0	1.8	0.7	3.9	2.5	0.7	0.0	2.6	0.0	0.0	0.9
Gastroenteritis	Cases	0	4	8	7	2	0	1	0	0	0	0	17	3	5	0	2	0	7	1	1	2
	Rate	3.2	21.1	22.4	13.5	6.5	1.0	9.7	4.4	1.9	2.6	28.4	35.2	23.3	25.3	7.5	5.2	21.6	18.5	14.5	6.9	2.7
Giardiasis	Cases	2	17	25	23	21	4	9	3	3	7	2	1	4	16	1	7	3	22	2	6	7
	Rate	31.0	36.5	58.4	43.5	37.1	53.2	25.8	28.3	20.4	37.8	25.3	12.7	29.6	70.7	30.2	36.1	58.7	39.1	28.9	33.6	46.9
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	1	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	0.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
	Rate	0.0	0.6	0.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Hepatitis A	Cases	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.2	1.3	2.3	2.1	0.3	2.0	1.0	0.0	1.9	0.7	14.2	12.1	1.4	1.1	5.0	0.0	0.0	0.8	0.0	0.0	0.9
Hepatitis B	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
	Rate	0.0	1.3	2.3	0.8	0.0	1.0	0.0	2.2	2.8	0.0	0.0	0.0	0.0	0.7	2.5	0.7	0.0	1.6	0.0	0.0	0.9
Hepatitis C	Cases	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.7	0.6	0.3	3.0	1.0	0.0	4.6	0.0	0.0	0.6	0.7	0.7	2.5	0.0	0.0	1.0	0.0	0.0	0.0
HbS carriage and associated conditions	Cases	1	1	5	9	5	4	3	0	0	3	0	1	0	4	0	3	0	6	0	1	1
	Rate	3.2	4.6	5.2	8.9	8.4	10.8	6.8	4.4	6.5	5.9	0.0	2.4	4.9	2.8	10.1	6.6	0.0	5.6	3.6	6.4	9.9
Lead absorption	Cases	0	3	13	0	2	0	0	0	1	0	2	1	2	0	1	0	0	3	0	1	0
	Rate	0.6	11.5	26.7	8.0	7.3	6.9	2.4	4.4	4.6	3.3	12.6	10.9	4.9	3.5	12.6	0.7	0.0	3.4	1.8	2.1	1.8
Legionellosis	Cases	0	1	2	3	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	2	0
	Rate	0.0	1.7	2.1	2.3	2.0	1.0	4.9	0.0	2.8	3.9	1.6	0.0	2.1	1.1	2.5	2.2	6.2	2.6	7.2	1.6	0.0
Leptospirosis	Cases	0	0	0	0	2	0	0	0	1	3	0	1	0	0	0	0	2	1	1	0	0
	Rate	5.2	0.4	0.2	0.6	5.6	3.0	3.4	37.0	4.6	7.2	11.1	1.8	0.0	0.0	2.5	2.9	15.4	2.2	1.8	3.7	0.9
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.7	1.3	0.3	0.0	1.0	0.0	0.0	0.0	1.6	0.6	0.0	0.0	2.5	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	0	1	2	0	0	0	0	0	1	0	0	0	1	0	0	1	2	0	0	0
	Rate	0.6	1.3	2.5	3.4	0.0	0.0	1.5	0.0	0.9	0.7	0.0	0.0	0.7	0.7	0.0	0.0	3.1	1.0	0.0	0.5	0.0
Measles	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10	0
	Rate	0.0	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.4	0.0	0.0	3.1	1.6	0.0	12.3	0.0
Meningococcal disease	Cases	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
	Rate	5.2	1.3	1.8	3.8	2.8	2.0	1.9	4.4	1.9	6.5	6.3	1.8	2.8	3.2	5.0	3.7	3.1	2.0	3.6	3.2	5.4
Mumps	Cases	1	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	Rate	2.6	1.0	0.9	1.7	1.4	2.0	1.9	0.0	0.0	3.3	1.6	0.0	2.8	1.1	0.0	0.7	0.0	1.8	0.0	0.5	0.0
Paratyphoid fever	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.0	0.8	0.9	1.1	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.5	0.0	0.0	0.4	0.0	0.0	0.9
Pertussis	Cases	0	9	4	6	11	4	2	1	1	3	1	0	4	9	1	20	5	38	0	1	1
	Rate	7.1	6.0	4.1	8.0	29.5	8.9	12.2	4.4	5.6	8.5	6.3	10.3	14.1	20.4	17.6	60.4	67.9	34.3	19.9	7.5	25.3
Rheumatic fever	Cases	3	0	1	6	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
	Rate	8.4	2.3	3.0	6.8	8.7	5.9	2.4	8.7	1.9	5.9	1.6	3.0	4.9	4.9	2.5	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.5	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	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	0
	Rate	0.0	0.2	0.0	0.2	0.0	0.0	1.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.0
Salmonellosis	Cases	6	17	12	17	12	3	9	2	1	5	2	1	10	9	5	4	2	22	7	8	5
	Rate	26.5	20.2	22.8	23.9	32.3	29.6	28.2	58.8	27.9	26.1	23.7	24.3	33.8	28.5	57.9	40.5	27.8	34.9	68.7	60.9	38.8
Shigellosis	Cases	0	5	4	4	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0
	Rate	1.3	4.8	5.5	5.3	1.1	1.0	3.4	0.0	0.9	0.0	0.0	0.0	2.8	3.2	0.0	5.2	3.1	2.2	3.6	2.1	1.8
Tuberculosis disease	Cases	0	5	5	3	1	1	1	0	0	0	0	0	2	2	0	0	0	6	0	0	0
	Rate	7.1	9.4	11.2	13.1	6.7	4.9	4.4	4.4	0.9	3.3	1.6	4.9	7.8	9.5	0.0	5.2	0.0	6.5	3.6	0.5	1.8
Typhoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.6	1.6	4.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	1	1	5	2	3	2	6	2	2	2	0	0	2	1	0	0	1	2	0	1	0
	Rate	7.1	2.3	6.2	1.9	7.3	4.9	4.9	13.1	9.3	2.0	1.6	1.2	2.1	1.4	5.0	0.7	6.2	2.8	3.6	2.7	0.9
Yersiniosis	Cases	2	6	7	4	1	1	1	0	1	2	0	0	4	7	0	0	0	10	1	1	1
	Rate	11.0	9.2	13.5	7.2	8.4	12.8	8.3	6.5	14.9	14.3	6.3	1.2	20.4	24.6	5.0	6.6	37.1	16.3	19.9	4.3	7.2

<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 2009 expressed as cases per 100 000

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

Information on this page is available in a number of formats. You can download the data as a CSV file or as a PDF document. You can also view the data in a table or as a map.

The data on this page is for the period 1 January 2009 to 31 March 2009. The data is for the period 1 January 2009 to 31 March 2009. The data is for the period 1 January 2009 to 31 March 2009.

Notifiable Disease Surveillance Data for the 12 months ending March-2009 by District Health Board

Disease	Cases for the 12 months ending March 2009 <sup>1 2</sup> by District Health Board <sup>3</sup>																					
	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	6828	241	878	708	630	612	167	282	40	222	292	94	219	300	625	60	221	46	603	141	275	172
Cryptosporidiosis	813	38	30	33	29	113	17	34	3	30	26	13	35	19	31	17	27	17	144	56	44	57
Dengue fever	151	2	20	36	46	4	1	5	1	0	5	0	3	1	11	1	1	0	13	0	0	1
Gastroenteritis	643	5	110	98	64	23	1	20	2	2	4	18	58	33	72	3	7	7	92	8	13	3
Giardiasis	1717	48	190	256	206	132	54	53	13	22	58	16	21	42	201	12	49	19	194	16	63	52
Haemophilus influenzae type b	5	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0
Hazardous substances injury	11	0	3	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Hepatitis A	81	5	7	10	10	1	2	2	0	2	1	9	20	2	3	2	0	0	4	0	0	1
Hepatitis B	39	0	7	10	4	0	1	0	1	3	0	0	0	0	2	1	1	0	8	0	0	1
Hepatitis C	29	0	2	3	3	1	3	2	0	5	0	0	1	1	2	1	0	0	5	0	0	0
Ischaemic heart disease	252	5	24	23	42	30	11	14	2	7	9	0	4	7	8	4	9	0	28	2	12	11
Lead absorption	339	1	60	117	38	26	7	5	2	5	5	8	18	7	10	5	1	0	17	1	4	2
Legionellosis	89	0	9	9	11	7	1	10	0	3	6	1	0	3	3	1	3	2	13	4	3	0
Leptospirosis	117	8	2	1	3	20	3	7	17	5	11	7	3	0	0	1	4	5	11	1	7	1
Listeriosis	24	1	3	3	6	1	0	2	0	0	0	1	1	0	0	1	0	0	2	0	3	0
Malaria	50	1	7	11	16	0	0	3	0	1	1	0	0	1	2	0	0	1	5	0	1	0
Measles	40	0	3	2	0	0	0	0	0	0	2	0	0	0	1	0	0	1	8	0	23	0
Non-infectious diseases	123	8	7	8	18	10	2	4	2	2	10	4	3	4	9	2	5	1	10	2	6	6
Mumps	56	4	5	4	8	5	2	4	0	0	5	1	0	4	3	0	1	0	9	0	1	0
Paratyphoid fever	22	0	4	4	5	1	1	0	0	0	0	0	0	1	2	1	0	0	2	0	0	1
Pertussis	691	11	31	18	38	105	9	25	2	6	13	4	17	20	58	7	82	22	170	11	14	28
Rheumatic fever	156	13	12	13	32	31	6	5	4	2	9	1	5	7	14	1	0	0	1	0	0	0
Rickettsial disease	12	0	3	2	0	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rubella	9	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	2	0	1	0
Salmonellosis	1298	41	105	100	113	115	30	58	27	30	40	15	40	48	81	23	55	9	173	38	114	43
Shigellosis	129	2	25	24	25	4	1	7	0	1	0	0	0	4	9	0	7	1	11	2	4	2
Tuberculosis disease	308	11	49	49	62	24	5	9	2	1	5	1	8	11	27	0	7	0	32	2	1	2
Typhoid fever	40	0	3	7	19	1	0	0	0	0	0	0	0	1	8	0	0	0	1	0	0	0
VTEC/STEC infection	156	11	12	27	9	26	5	10	6	10	3	1	2	3	4	2	1	2	14	2	5	1
Yersiniosis	495	17	48	59	34	30	13	17	3	16	22	4	2	29	70	2	9	12	81	11	8	8
Total	14723	473	1661	1637	1472	1332	342	581	128	375	529	198	460	548	1257	147	490	145	1655	297	604	392



Notifiable Disease Surveillance Data for the 12 months ending March-2009 by District Health Board

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

<sup>2</sup> Further data are available from the local Medical Officer of Health

<sup>3</sup> 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`cVcWwU`X]gYUgY`VYVUa`Y`U`bch]ZUV`Y`X]gYUgY`cb`h`Y`%+h`C`VcVYF`&\$\$,  
 `h`Y`gY`hchU`g`UbX`fUHyg`UFY`XYfj`YX`Zfca`h`Y`9d]G`fj`fYdcfhXUHy`Ug`cddcgyX`hc`h`Y`Yuf`YghUj`Uj`UV`Y`XUHy`i`gYX`]b`h`Y`a`Yb]b[`cVcWwU`X]gYUgY`gYVUcb`c`Z`h`]g`fYdcfh

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	March 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	March 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	507	1895	159.9	449	1760	234.0
Cryptosporidiosis	48	132	19.0	24	83	18.8
Dengue fever	18	69	3.5	7	31	2.0
Gastroenteritis	60	132	15.1	65	179	14.9
Giardiasis	185	474	40.2	152	417	33.5
Haemophilus influenzae type b	1	1	0.1	1	5	0.3
Hazardous substances injury	2	3	0.3	0	0	0.1
Hepatitis A	3	10	1.9	6	18	1.0
<YdUhhjg'6	2	14	0.9	1	13	1.5
<YdUhhjg'7	4	13	0.7	1	7	0.7
-bj Ugjj Y'dbYi a cVc'VVU' X]gYUgY	47	125	5.9	0	0	0.0
Lead absorption	29	81	7.9	41	59	2.7
Legionellosis	11	32	2.1	5	16	1.4
Leptospirosis	11	19	2.7	7	22	1.4
Listeriosis	1	6	0.6	2	9	0.7
Malaria	8	18	1.2	3	8	0.7
Measles	12	28	0.9	0	0	0.4
A Yb]b[ cVc'VVU' X]gYUgY	3	22	2.9	6	21	2.6
Mumps	5	9	1.3	7	29	1.9
Paratyphoid fever	4	8	0.5	1	11	0.6
Pertussis	121	340	16.2	27	67	7.0
Rheumatic fever	12	29	3.7	5	25	3.6
Rickettsial disease	1	2	0.3	0	0	0.0
Salmonellosis	159	444	30.4	134	492	32.9
Shigellosis	17	41	3.0	11	25	3.0
Tuberculosis disease	26	82	7.2	23	76	7.0
Typhoid fever	2	20	0.9	2	9	0.8
VTEC/STEC infection	33	78	3.7	12	49	2.8
Yersiniosis	49	167	11.6	69	181	12.9

<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 March 2009) or the previous year (12 months up to and including March 2008), expressed as cases per 100 000

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

'Cb'mUW' hY' WUgYg'cZ'h.]g'X]gYUgY'UFY'W' ffYbhmbch]Z]UV'Y

'-bj Ugjj Y'dbYi a cVc'VVU' X]gYUgY' VYVWa Y'U'bch]Z]UV'Y'X]gYUgY'cb'h'Y'%+h' C'Vc'VYf'&\$\$,

'h'Y'gY'hc'HJ'g'UbX'fUH'g'UFY'XYf]j YX'Zfca 'h'Y'9d]Gi fj 'fYdcfhXUH'Ug'cddcgYX'h'c'h'Y'YUf']YghUj U]'UV'Y'XUH'i gYX']b'h'Y

a Yb]b[ cVc'VVU' X]gYUgY'gYV]cb'cZ'h.]g'fYdcfh

'Ch'Yf'bch]Z]UV'Y'jbZYV]ci g'X]gYUgY'fYdcfhYX']b'A UfVX. 'Fcgg'F]j Yf'j ]fi g']bZYV]cb'fVc'Z'HUYb]Ug]g'fVc'