

## 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 4 March 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

- *Barmah Forest virus*: One case of Barmah Forest virus was notified from Capital and Coast DHB in February 2009. After further investigation, it was found not to be a case.
- *Cholera*: Under further investigation, the cholera case reported in the February 2009 was found to be infected with a non O1 non O139 serogroup strain of *Vibrio cholerae*. Only cholera due to O1 or O139 serogroup strains are notifiable and the case has been de-notified.
- *Cryptosporidiosis*: 55 cryptosporidiosis cases were notified in February 2009 compared to 32 cases notified in the same month of the previous year. For the 12 month period ending 28 February 2009 the national rate was 18.5 per 100 000 population compared to 20.6 for the same 12 month period last year. The cases had varied ages, ranging from less than 1 year to 70+ years. The highest number of cases in the 1-4 years age group (14 cases) followed by 5-9 years age group (9 cases). Among the cases where risk factor information was recorded, 88.9% (8/9) had recreational water contact, 50.0% (4/8) had contact with farm animals, 37.5% (3/8) had faecal contact and one case had travelled overseas. Two cases were hospitalised.
- *Lead absorption*: 41 cases of lead absorption were notified in February 2009 compared to 6 notified cases in the same month of the previous year (Figure 1). The highest numbers of cases were reported from Auckland (14) and Counties Manukau (5) DHBs. The cases were aged between 1 and 70+ years, with the highest number of cases in the 50-59 years age group (10 cases). Twenty-three cases were recorded as currently working or having worked in high risk occupations. The recorded occupations were: automotive electrician, demolition contractor, foundry worker, painter, lead worker, radiator repairman and recycling pick-up driver. From 18 June 2007 the non-occupational notifiable blood lead level reduced from 0.72 µmol/L to 0.48 µmol/L.

- *Measles*: 12 cases of measles were notified in February 2009 compared to 4 notifications in the preceding month and zero notifications in same month of the previous year. The cases were reported from Otago (9), Waitemata (2) and Capital and Coast (1) DHBs. Three cases are still under investigation (1 (<1 year), 1 (10-14 years) and 1 (15-19 years)) while the other confirmed nine cases had not been immunised (1 (1-4 years), 1 (5-9 years), 3 (10-14 years) 3 (15-19 years) and 1 (20-29 years)).
- *Meningococcal disease*: Based on the earliest date available<sup>1</sup>, 9 cases of meningococcal disease were notified during February 2009, 7 (77.8%) of which were laboratory-confirmed. In comparison, 8 cases were notified the previous month, January 2009, and 4 cases were notified during the same month last year, February 2008. For the 12 month period ending 28 February 2009, Whanganui DHB recorded the highest incidence rate of 6.3 per 100 000 population (4 cases), followed by Hawke's Bay DHB (5.9 per 100 000, 9 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 (4.7 per 100 000, 15 cases).
- *Pertussis*: 140 cases of pertussis were notified in February 2009, compared to 81 notifications in the preceding month and 28 notifications in same month of the previous year. (Figure 2). There were 44 (31.4%) laboratory-confirmed cases. The highest numbers of cases were reported from Canterbury (34), Nelson Marlborough (18) and Waikato (12) DHBs. For the 12 month period ending 28 February 2009, the highest incidence rates were reported from West Coast (52.5 per 100 000 population, 17 cases) and Nelson Marlborough (46.4 per 100 000, 63 cases) compared to a national rate of 14.0 per 100 000 population. The current 12 month rate by age group was highest amongst infants aged less than one year (96.8 per 100 000 population, 62 cases), followed by children the 1-4 years age group (20.8 per 100 000, 49 cases).
- *Ross River Virus Infection*: One case of laboratory-confirmed Ross River virus infection was notified in February 2009. The case was a female in the 60-69 years age group of European ethnicity. The case had been in Australia during the incubation period of the disease.
- *VTEC/STEC*: 25 cases of VTEC/STEC infections were notified in February 2009. The highest numbers of cases were reported from Auckland (8) and Waikato (6) DHBs. The cases were aged between 2 and 70+ years, with the highest number of cases in the 1-4 years age group (10 cases). VTEC O157 was isolated for 13 of the cases. Risk factors recorded include: recreational water contact (4), contact with animals (3), contact with another person with similar symptoms (2), contact with children in nappies (2), contact with a non habitual water supply (1), attended a social function (1), attended school (1), and handled raw meat or offal (1). Auckland Regional Public Health Service notified an outbreak (interim report) involving two cases within the same household.

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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:* 5 outbreak reports were entered into EpiSurv and completed during February 2009 (Table 1).

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

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Hutt, Wairarapa, West Coast	3	8
Gastroenteritis	Canterbury	2	14
<b>Total</b>		<b>5</b>	<b>22</b>

*Interim outbreak reports:* 19 interim outbreaks have been reported in February 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 February 2009

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	West Coast	2	4
<i>Escherichia coli</i> O157:H7	Auckland	1	2
Gastroenteritis	Auckland, Waikato, Canterbury, Otago	9	38
<i>Giardia</i>	Auckland, Rotorua	2	11
Histamine (scombroid) fish poisoning	Auckland	1	3
Rotavirus	Auckland, Wellington	2	0
<i>Salmonella</i>	Gisborne	1	0
<i>Shigella</i>	Auckland	1	5
<b>Total</b>		<b>19</b>	<b>63</b>

## 3. Deaths from notifiable diseases

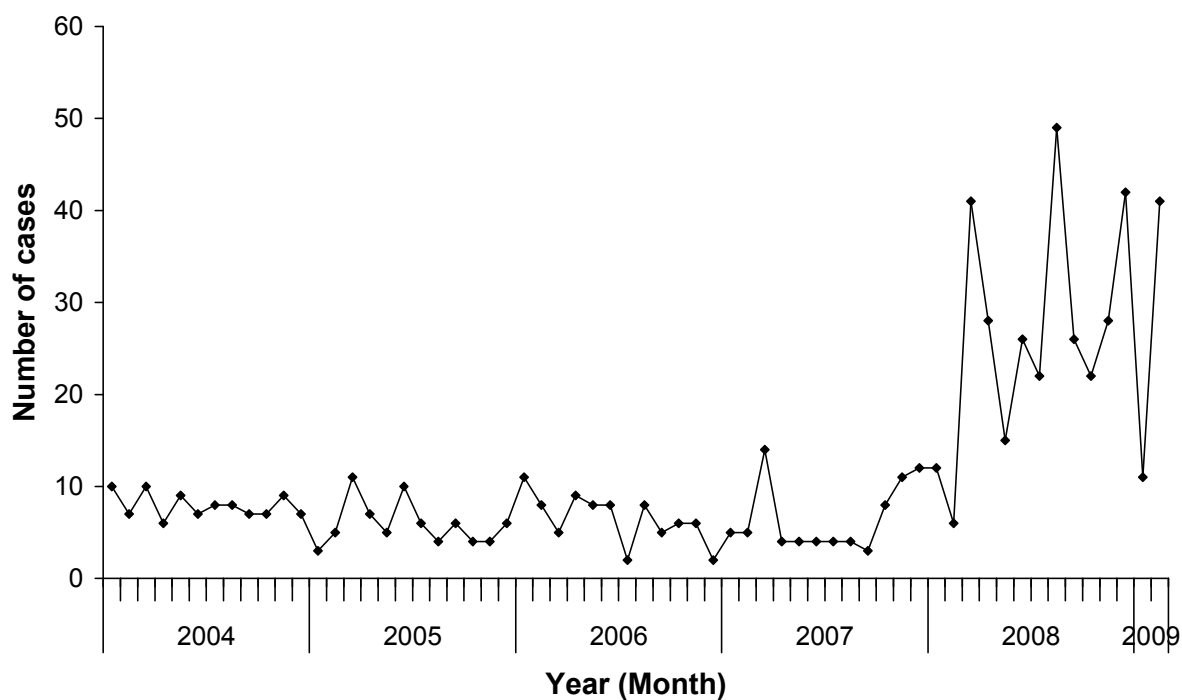
One death was reported for the month of February from Tuberculosis disease (Table 3).

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

Disease	District Health Board	Age group
Tuberculosis disease	Waitemata	60 to 69

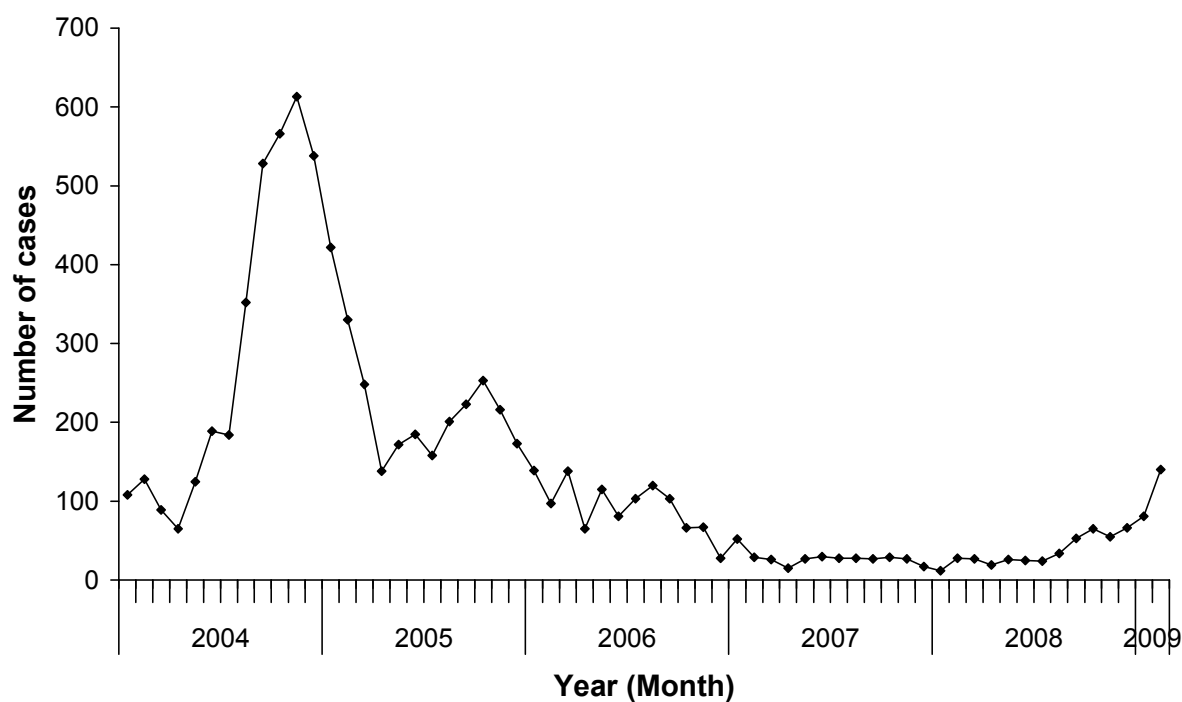
#### 4. Trends in selected diseases to February 2009

Figure 1: Lead notifications by month by year, January 2004 – February 2009



From 18 June 2007 the non-occupational notifiable blood lead level reduced from 0.72  $\mu\text{mol/L}$  to 0.48  $\mu\text{mol/L}$ .

Figure 2: Pertussis notifications by month by year, January 2004 – February 2009



## 5. Data Tables

### National Notifiable Disease Surveillance Data February 2009

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	February 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	February 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	598	1390	158.6	616	1311	250.5
Cryptosporidiosis	55	85	18.5	32	59	20.6
Dengue fever	20	50	3.3	16	24	2.1
Gastroenteritis	33	71	15.2	49	114	14.5
Giardiasis	166	289	39.4	146	265	33.2
Haemophilus influenzae type b	0	0	0.1	1	4	0.4
Hazardous substances injury	1	1	0.2	0	0	0.1
Hepatitis A	3	7	2.0	6	12	1.0
Hepatitis B <sup>4</sup>	6	12	0.9	5	12	1.6
Hepatitis C <sup>4</sup>	8	12	0.7	5	6	0.7
Invasive pneumococcal disease <sup>5</sup>	29	76	4.8	0	0	0.0
Lead absorption	41	52	8.2	6	18	2.0
Legionellosis	8	22	2.0	5	11	1.4
Leptospirosis	3	9	2.7	8	15	1.4
Listeriosis	3	5	0.6	4	7	0.7
Malaria	8	10	1.1	2	5	0.7
Measles	12	16	0.7	0	0	0.5
Meningococcal disease <sup>6</sup>	9	19	3.0	4	15	2.5
Mumps	4	4	1.4	10	22	1.9
Paratyphoid fever	2	4	0.4	7	10	0.6
Pertussis	140	221	14.0	28	40	6.9
Rheumatic fever	5	17	3.5	17	20	3.7
Rickettsial disease	1	1	0.3	0	0	0.0
Salmonellosis	138	285	29.8	163	358	33.7
Shigellosis	17	25	2.9	3	14	2.9
Tuberculosis disease	26	53	7.1	25	53	7.0
Typhoid fever	12	18	0.9	6	7	0.9
VTEC/STEC infection	25	45	3.2	24	37	2.8
Yersiniosis	52	120	12.1	50	112	12.4

<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 February 2009) or the previous year (12 months up to and including February 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>7</sup> Other notifiable infectious disease reported in February: Barmah Forest virus infection (1), Cholera (1), Hepatitis NOS (1), Ross River virus infection (1)

Notifiable Disease Surveillance Data by District Health Board February 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for February 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	14	77	76	56	65	23	31	0	30	15	7	17	24	52	10	13	0	42	9	19	18
	Rate	157.7	170.2	163.7	131.4	168.4	164.5	129.5	89.3	208.0	192.4	146.9	128.1	209.3	212.0	150.9	165.8	145.2	123.4	251.4	142.0	141.7
Cryptosporidiosis	Cases	0	7	6	8	1	0	1	1	0	1	1	1	5	7	2	3	0	10	0	1	0
	Rate	24.6	4.6	5.7	5.1	32.0	16.7	15.1	13.1	27.9	17.6	20.5	20.0	12.7	10.9	45.3	19.9	55.6	28.2	101.3	23.0	51.4
Dengue fever	Cases	0	3	7	6	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	0	0
	Rate	1.3	4.2	8.7	8.7	1.1	0.0	1.9	0.0	0.0	1.3	0.0	1.2	0.7	3.2	2.5	0.7	0.0	2.4	0.0	0.0	0.9
Gastroenteritis	Cases	0	2	3	2	0	0	0	0	0	0	1	5	4	9	0	0	0	5	1	0	1
	Rate	3.2	21.9	22.6	12.3	7.6	2.0	10.2	4.4	1.9	3.3	30.0	26.1	21.8	25.7	7.5	4.4	21.6	21.8	12.7	7.5	0.9
Giardiasis	Cases	7	14	25	26	14	9	2	2	5	5	4	0	2	12	1	2	0	20	1	5	10
	Rate	31.0	36.1	60.5	42.9	34.0	53.2	23.9	24.0	17.6	37.8	25.3	15.2	30.3	71.4	27.7	31.7	52.5	37.3	27.1	34.7	40.6
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	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Hazardous substances injury	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	1.1	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	0.0	0.0
Hepatitis A	Cases	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	3.2	1.3	2.3	2.5	0.6	2.0	1.0	0.0	1.9	0.7	14.2	12.1	1.4	1.1	5.0	0.0	0.0	1.0	0.0	0.5	0.9
Hepatitis B	Cases	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	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	0.0	0.0	1.6	0.0	0.0	0.9
Hepatitis C	Cases	0	1	0	1	0	0	0	0	2	0	0	0	0	0	0	2	0	2	0	0	0
	Rate	0.0	0.2	0.2	0.8	0.3	3.0	1.0	0.0	4.6	0.0	0.0	0.6	0.7	0.7	2.5	1.5	0.0	1.0	0.0	0.0	0.0
Ebola Virus Disease	Cases	1	5	2	5	4	1	2	0	0	1	0	0	2	0	0	2	0	1	0	0	3
	Rate	2.6	4.4	4.1	7.0	7.0	6.9	5.4	4.4	6.5	3.9	0.0	1.2	5.6	1.1	10.1	4.4	0.0	4.4	3.6	5.3	9.0
Lead absorption	Cases	0	4	14	5	4	1	1	0	1	1	0	4	2	0	0	1	0	3	0	0	0
	Rate	2.6	12.1	26.2	9.1	6.7	6.9	2.4	4.4	3.7	4.6	11.1	9.7	3.5	3.5	10.1	0.7	0.0	4.8	1.8	2.7	3.6
Legionellosis	Cases	0	3	0	1	0	0	2	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	1.5	2.5	1.9	2.0	1.0	4.4	0.0	2.8	3.9	1.6	0.0	2.1	1.1	0.0	2.2	6.2	2.4	7.2	0.5	0.9
Leptospirosis	Cases	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
	Rate	5.2	0.6	0.2	0.6	5.1	3.9	3.4	37.0	3.7	5.9	11.1	1.2	0.0	0.0	5.0	3.7	15.4	2.2	0.0	3.7	0.9
Listeriosis	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.6	0.6	0.7	1.3	0.6	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	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	1.3	1.5	2.3	3.0	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	0.0
Measles	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	9	0
	Rate	0.0	0.4	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	1.4	0.0	6.9	0.0
Aedes Mosquito Bites	Cases	1	1	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2
	Rate	5.2	1.3	2.3	3.8	3.1	2.0	1.9	4.4	1.9	5.9	6.3	1.8	3.5	3.2	5.0	3.7	3.1	2.0	3.6	3.2	5.4
Mumps	Cases	0	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.2	0.9	1.7	1.7	2.0	1.9	0.0	0.0	3.9	1.6	0.0	1.4	1.4	0.0	0.7	0.0	2.0	0.0	0.5	0.0
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.7	0.8	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.9
Pertussis	Cases	3	3	7	7	12	1	7	0	4	3	1	2	9	11	0	18	7	34	2	3	6
	Rate	7.8	4.6	3.4	7.8	27.5	4.9	11.7	4.4	4.6	7.2	4.7	10.3	12.7	16.9	15.1	46.4	52.5	28.0	21.7	8.5	24.4
Rheumatic fever	Cases	0	0	0	1	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	Rate	6.5	2.5	2.7	5.5	9.3	34.5	6.3	8.7	1.9	6.5	1.6	3.0	4.2	4.9	2.5	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0.4	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	3	13	15	7	11	2	4	18	2	7	3	4	3	8	0	9	0	13	6	6	4
	Rate	27.8	19.4	21.7	22.0	30.6	29.6	24.8	56.6	29.7	27.4	20.5	24.9	32.4	28.5	47.8	48.6	21.6	34.1	59.7	65.1	38.8
Shigellosis	Cases	1	6	2	2	1	0	1	0	0	0	0	0	0	2	0	0	0	1	1	0	0
	Rate	1.9	4.2	5.0	4.9	1.7	1.0	3.4	0.0	0.9	0.7	0.0	0.0	0.7	3.9	0.0	5.2	3.1	2.0	3.6	2.1	1.8
Tuberculosis disease	Cases	2	4	4	4	4	0	2	0	0	0	0	0	0	2	0	2	0	2	0	0	0
	Rate	6.5	9.6	12.3	13.1	6.5	3.0	4.4	4.4	1.9	3.3	3.2	4.2	7.0	8.8	0.0	5.2	0.0	5.2	5.4	0.5	0.9
Typhoid fever	Cases	0	1	2	6	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
	Rate	0.0	0.6	1.6	3.8	0.3	0.0	0.0	0.0	0.0	0.7	1.6	0.0	0.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VTEC/STEC infection	Cases	2	2	8	1	6	0	0	2	1	0	0	0	1	1	0	0	0	0	0	1	0
	Rate	7.8	2.3	5.0	1.9	7.0	4.9	1.9	8.7	7.4	0.7	1.6	1.2	0.7	1.4	5.0	0.7	3.1	2.4	5.4	2.7	0.9
Yersiniosis	Cases	2	6	7	4	5	0	2	0	3	1	0	0	3	5	0	0	1	11	0	1	1
	Rate	9.7	9.4	13.2	7.4	10.9	11.8	8.3	6.5	15.8	17.6	7.9	2.4	19.0	25.7	5.0	8.8	40.1	16.1	19.9	4.8	8.1

<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 February 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 February 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for February 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	14	77	76	56	65	23	31	0	30	15	7	17	24	52	10	13	0	42	9	19	18
	Rate	157.7	170.2	163.7	131.4	168.4	164.5	129.5	89.3	208.0	192.4	146.9	128.1	209.3	212.0	150.9	165.8	145.2	123.4	251.4	142.0	141.7
Cryptosporidiosis	Cases	0	7	6	8	1	0	1	1	0	1	1	1	5	7	2	3	0	10	0	1	0
	Rate	24.6	4.6	5.7	5.1	32.0	16.7	15.1	13.1	27.9	17.6	20.5	20.0	12.7	10.9	45.3	19.9	55.6	28.2	101.3	23.0	51.4
Dengue fever	Cases	0	3	7	6	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	0	0
	Rate	1.3	4.2	8.7	8.7	1.1	0.0	1.9	0.0	0.0	1.3	0.0	1.2	0.7	3.2	2.5	0.7	0.0	2.4	0.0	0.0	0.9
Gastroenteritis	Cases	0	2	3	2	0	0	0	0	0	0	1	5	4	9	0	0	0	5	1	0	1
	Rate	3.2	21.9	22.6	12.3	7.6	2.0	10.2	4.4	1.9	3.3	30.0	26.1	21.8	25.7	7.5	4.4	21.6	21.8	12.7	7.5	0.9
Giardiasis	Cases	7	14	25	26	14	9	2	2	5	5	4	0	2	12	1	2	0	20	1	5	10
	Rate	31.0	36.1	60.5	42.9	34.0	53.2	23.9	24.0	17.6	37.8	25.3	15.2	30.3	71.4	27.7	31.7	52.5	37.3	27.1	34.7	40.6
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	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Hazardous substances injury	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	1.1	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	0.0	0.0
Hepatitis A	Cases	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	3.2	1.3	2.3	2.5	0.6	2.0	1.0	0.0	1.9	0.7	14.2	12.1	1.4	1.1	5.0	0.0	0.0	1.0	0.0	0.5	0.9
Hepatitis B	Cases	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	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	0.0	0.0	1.6	0.0	0.0	0.9
Hepatitis C	Cases	0	1	0	1	0	0	0	0	2	0	0	0	0	0	0	2	0	2	0	0	0
	Rate	0.0	0.2	0.2	0.8	0.3	3.0	1.0	0.0	4.6	0.0	0.0	0.6	0.7	0.7	2.5	1.5	0.0	1.0	0.0	0.0	0.0
Ebola Virus Disease	Cases	1	5	2	5	4	1	2	0	0	1	0	0	2	0	0	2	0	1	0	0	3
	Rate	2.6	4.4	4.1	7.0	7.0	6.9	5.4	4.4	6.5	3.9	0.0	1.2	5.6	1.1	10.1	4.4	0.0	4.4	3.6	5.3	9.0
Lead absorption	Cases	0	4	14	5	4	1	1	0	1	1	0	4	2	0	0	1	0	3	0	0	0
	Rate	2.6	12.1	26.2	9.1	6.7	6.9	2.4	4.4	3.7	4.6	11.1	9.7	3.5	3.5	10.1	0.7	0.0	4.8	1.8	2.7	3.6
Legionellosis	Cases	0	3	0	1	0	0	2	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	1.5	2.5	1.9	2.0	1.0	4.4	0.0	2.8	3.9	1.6	0.0	2.1	1.1	0.0	2.2	6.2	2.4	7.2	0.5	0.9
Leptospirosis	Cases	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
	Rate	5.2	0.6	0.2	0.6	5.1	3.9	3.4	37.0	3.7	5.9	11.1	1.2	0.0	0.0	5.0	3.7	15.4	2.2	0.0	3.7	0.9
Listeriosis	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.6	0.6	0.7	1.3	0.6	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	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	1.3	1.5	2.3	3.0	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	0.0
Measles	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	9	0
	Rate	0.0	0.4	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	1.4	0.0	6.9	0.0
Aedes Mosquito Bites	Cases	1	1	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	2
	Rate	5.2	1.3	2.3	3.8	3.1	2.0	1.9	4.4	1.9	5.9	6.3	1.8	3.5	3.2	5.0	3.7	3.1	2.0	3.6	3.2	5.4
Mumps	Cases	0	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.2	0.9	1.7	1.7	2.0	1.9	0.0	0.0	3.9	1.6	0.0	1.4	1.4	0.0	0.7	0.0	2.0	0.0	0.5	0.0
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.7	0.8	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.9
Pertussis	Cases	3	3	7	7	12	1	7	0	4	3	1	2	9	11	0	18	7	34	2	3	6
	Rate	7.8	4.6	3.4	7.8	27.5	4.9	11.7	4.4	4.6	7.2	4.7	10.3	12.7	16.9	15.1	46.4	52.5	28.0	21.7	8.5	24.4
Rheumatic fever	Cases	0	0	0	1	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	Rate	6.5	2.5	2.7	5.5	9.3	34.5	6.3	8.7	1.9	6.5	1.6	3.0	4.2	4.9	2.5	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0.4	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	3	13	15	7	11	2	4	18	2	7	3	4	3	8	0	9	0	13	6	6	4
	Rate	27.8	19.4	21.7	22.0	30.6	29.6	24.8	56.6	29.7	27.4	20.5	24.9	32.4	28.5	47.8	48.6	21.6	34.1	59.7	65.1	38.8
Shigellosis	Cases	1	6	2	2	1	0	1	0	0	0	0	0	0	2	0	0	0	1	1	0	0
	Rate	1.9	4.2	5.0	4.9	1.7	1.0	3.4	0.0	0.9	0.7	0.0	0.0	0.7	3.9	0.0	5.2	3.1	2.0	3.6	2.1	1.8
Tuberculosis disease	Cases	2	4	4	4	4	0	2	0	0	0	0	0	0	2	0	2	0	2	0	0	0
	Rate	6.5	9.6	12.3	13.1	6.5	3.0	4.4	4.4	1.9	3.3	3.2	4.2	7.0	8.8	0.0	5.2	0.0	5.2	5.4	0.5	0.9
Typhoid fever	Cases	0	1	2	6	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
	Rate	0.0	0.6	1.6	3.8	0.3	0.0	0.0	0.0	0.0	0.7	1.6	0.0	0.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VTEC/STEC infection	Cases	2	2	8	1	6	0	0	2	1	0	0	0	1	1	0	0	0	0	0	1	0
	Rate	7.8	2.3	5.0	1.9	7.0	4.9	1.9	8.7	7.4	0.7	1.6	1.2	0.7	1.4	5.0	0.7	3.1	2.4	5.4	2.7	0.9
Yersiniosis	Cases	2	6	7	4	5	0	2	0	3	1	0	0	3	5	0	0	1	11	0	1	1
	Rate	9.7	9.4	13.2	7.4	10.9	11.8	8.3	6.5	15.8	17.6	7.9	2.4	19.0	25.7	5.0	8.8	40.1	16.1	19.9	4.8	8.1

<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 February 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 for the 12 months ending February-2009 by District Health Board

Disease	Cases for the 12 months ending February 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	6772	244	886	717	622	600	167	266	41	224	295	93	211	297	603	60	225	47	612	139	266	157
Cryptosporidiosis	790	38	24	25	24	114	17	31	6	30	27	13	33	18	31	18	27	18	140	56	43	57
Dengue fever	140	2	22	38	41	4	0	4	0	0	2	0	2	1	9	1	1	0	12	0	0	1
Gastroenteritis	647	5	114	99	58	27	2	21	2	2	5	19	43	31	73	3	6	7	108	7	14	1
Giardiasis	1684	48	188	265	203	121	54	49	11	19	58	16	25	43	203	11	43	17	185	15	65	45
Haemophilus influenzae type b	5	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	0	0	0
Hazardous substances injury	9	0	3	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	86	5	7	10	12	2	2	2	0	2	1	9	20	2	3	2	0	0	5	0	1	1
Hepatitis B	38	0	7	10	4	0	1	0	1	3	0	0	0	0	2	1	0	0	8	0	0	1
Hepatitis C	29	0	1	1	4	1	3	2	0	5	0	0	1	1	2	1	2	0	5	0	0	0
Ischaemic heart disease	203	4	23	18	33	25	7	11	2	7	6	0	2	8	3	4	6	0	22	2	10	10
Lead absorption	351	4	63	115	43	24	7	5	2	4	7	7	16	5	10	4	1	0	24	1	5	4
Legionellosis	84	0	8	11	9	7	1	9	0	3	6	1	0	3	3	0	3	2	12	4	1	1
Leptospirosis	114	8	3	1	3	18	4	7	17	4	9	7	2	0	0	2	5	5	11	0	7	1
Listeriosis	25	1	3	3	6	2	0	2	0	0	0	1	1	0	0	1	0	0	2	0	3	0
Malaria	45	2	8	10	14	0	0	3	0	1	0	0	0	1	1	0	0	0	3	0	2	0
Measles	28	0	2	2	0	0	0	0	0	0	2	0	0	0	1	0	0	1	7	0	13	0
Non-infectious diseases	126	8	7	10	18	11	2	4	2	2	9	4	3	5	9	2	5	1	10	2	6	6
Mumps	58	3	6	4	8	6	2	4	0	0	6	1	0	2	4	0	1	0	10	0	1	0
Paratyphoid fever	19	0	3	3	4	2	1	0	0	0	0	0	0	1	2	0	0	0	2	0	0	1
Pertussis	599	12	24	15	37	98	5	24	2	5	11	3	17	18	48	6	63	17	139	12	16	27
Rheumatic fever	186	10	13	12	26	33	35	13	4	2	10	1	5	6	14	1	0	0	1	0	0	0
Rickettsial disease	11	0	2	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	1273	43	101	95	104	109	30	51	26	32	42	13	41	46	81	19	66	7	169	33	122	43
Shigellosis	124	3	22	22	23	6	1	7	0	1	1	0	0	1	11	0	7	1	10	2	4	2
Tuberculosis disease	302	10	50	54	62	23	3	9	2	2	5	2	7	10	25	0	7	0	26	3	1	1
Typhoid fever	40	0	3	7	18	1	0	0	0	0	1	1	0	1	8	0	0	0	0	0	0	0
VTEC/STEC infection	135	12	12	22	9	25	5	4	4	8	1	1	2	1	4	2	1	1	12	3	5	1
Yersiniosis	517	15	49	58	35	39	12	17	3	17	27	5	4	27	73	2	12	13	80	11	9	9
Total	14449	477	1656	1631	1421	1308	361	547	126	373	533	197	435	528	1225	140	481	137	1619	290	595	369



# Notifiable Disease Surveillance Data for the 12 months ending February-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

Ward of the District Health Board, the following data are available for the 12 months ending February 2009. The data are provisional and are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section. The data are presented by District Health Board, and by the following categories: Age, Sex, Ethnicity, and Country of Birth. The data are presented in the following table: District Health Board, Age, Sex, Ethnicity, Country of Birth, and the number of cases. The data are presented in the following table: District Health Board, Age, Sex, Ethnicity, Country of Birth, and the number of cases. The data are presented in the following table: District Health Board, Age, Sex, Ethnicity, Country of Birth, and the number of cases.

National Notifiable Disease Surveillance Data February 2009

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	February 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	February 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	598	1390	158.6	616	1311	250.5
Cryptosporidiosis	55	85	18.5	32	59	20.6
Dengue fever	20	50	3.3	16	24	2.1
Gastroenteritis	33	71	15.2	49	114	14.5
Giardiasis	166	289	39.4	146	265	33.2
Haemophilus influenzae type b	0	0	0.1	1	4	0.4
Hazardous substances injury	1	1	0.2	0	0	0.1
Hepatitis A	3	7	2.0	6	12	1.0
<YdUh]hg'6	6	12	0.9	5	12	1.6
<YdUh]hg'7	8	12	0.7	5	6	0.7
⋄j Ug]j Y'dbYi a cVc'VVU' X]gYUgY	29	76	4.8	0	0	0.0
Lead absorption	41	52	8.2	6	18	2.0
Legionellosis	8	22	2.0	5	11	1.4
Leptospirosis	3	9	2.7	8	15	1.4
Listeriosis	3	5	0.6	4	7	0.7
Malaria	8	10	1.1	2	5	0.7
Measles	12	16	0.7	0	0	0.5
A Yb]b[ cVc'VVU' X]gYUgY	9	19	3.0	4	15	2.5
Mumps	4	4	1.4	10	22	1.9
Paratyphoid fever	2	4	0.4	7	10	0.6
Pertussis	140	221	14.0	28	40	6.9
Rheumatic fever	5	17	4.4	73	76	5.0
Rickettsial disease	1	1	0.3	0	0	0.0
Salmonellosis	138	285	29.8	163	358	33.7
Shigellosis	17	25	2.9	3	14	2.9
Tuberculosis disease	26	53	7.1	25	53	7.0
Typhoid fever	12	18	0.9	6	7	0.9
VTEC/STEC infection	25	45	3.2	24	37	2.8
Yersiniosis	52	120	12.1	50	112	12.4

<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 February 2009) or the previous year (12 months up to and including February 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`  
`⋄j Ug]j 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`hc`h`Y`YUf`jYghUj`Uj`UV`Y`XUH`i`gYX`j`b`h`Y`  
a`Yb]b[ cVc'VVU' X]gYUgY`gYV]cb`cZ`h\]g`fYdcfh`  
`CH`Yf`bch]Z]UV`Y`j`bZYV]ci`g`X]gYUgY`fYdcfhYX`j`b`YVfi`Ufm`6Ufa`U\`c`fYghj`jfi`g`j`bZYV]cb`fVc`Z`7`c`YfU`fVc`Z`<YdUh]hg`  
BCG`fVc`Z`Fcg`F]j`Yf`j`jfi`g`j`bZYV]cb`fVc`