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## MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 2 February 2007. 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

- *Chemical poisoning from the environment*: two cases were notified from chemical poisoning in January 2007. The first case is confirmed, with asbestos as the suspected source. The second case is currently under investigation with no risk factors recorded.
- *Creutzfeldt-Jacob disease (CJD)*: one case of CJD, confirmed through MRI scan was notified in January 2007. The case was a male aged 50-59 years from Waitemata DHB. No cases of variant CJD, the form linked with bovine spongiform encephalopathy, have ever been identified in New Zealand.
- *Cysticercosis*: one probable case of cysticercosis was notified in January 2007 based on a suggestive CT scan of the head. The case was in the 10-14 years age group and had a history of travel to India.
- *Dengue*: 10 cases of dengue fever were notified in January 2007 compared to one notified case at the same month in the previous year (Figure 1). The cases were from Counties Manukau (8), Waitemata (1), and West Coast (1) DHBs. One case was hospitalised. Overseas travel was recorded for nine of the 10 cases. The countries visited during the incubation period were the Cook Islands (7), Fiji (1), and Samoa (1).
- *Legionellosis*: 11 cases of legionellosis were notified in January 2007 compared to three notified cases at the same month in the previous year. The cases were from Tairāwhiti (5), Waitemata (2), Canterbury (2), Northland (1), and Counties Manukau (1) DHBs. Three cases were hospitalised. The cases from Tairāwhiti were part of an outbreak and all worked together at a plant nursery. Environmental tests indicated soil may contain the organism although testing is ongoing.

Internationally, there have been a number of cases reported in Europe with a common history of travel to the holiday resort of Phuket, Thailand. A hotel has been identified as a common exposure. None of the cases notified in New Zealand in January have been linked to this outbreak.

- *Meningococcal disease*: based on the earliest date available<sup>1</sup>, seven cases of meningococcal disease were notified during January 2007, of which six (85.7%) were laboratory-confirmed. In comparison, 15 cases were notified the previous month, December 2006, and nine cases were notified during the same month last year, January 2006. For the 12 month period ending 31 January 2007, Waikato DHB recorded the highest incidence rate of 8.5 per 100 000 population (27 cases). The highest age-specific incidence rate was in infants aged less than one year (58.6 per 100 000 population, 32 cases), followed by those in the 1-4 years age group (13.0 per 100 000 population, 28 cases), and those in the 15-19 years age group (11.7 per 100 000 population, 31 cases).
- *Mumps*: five cases of mumps were notified in January 2007 compared to two notified cases in the same month of the previous year. The cases were reported from Auckland (1), Hawke's Bay (1), Hutt (1), Capital and Coast (1), and Otago (1) DHBs. The cases were in the following age groups: 1-4 years (3), 10-14 years (1), and 30-39 years (1). Two cases were reported as being immunised (the first case received one dose; the second case's number of doses is unknown).
- *Tetanus*: one probable case of tetanus was notified in January 2007. The case was in the 70+ years age group and was not immunised. The suspected source is a leg wound from the garden.
- *Typhoid fever*: nine cases of typhoid fever were notified in January 2007 compared to six notified cases in the same month of the previous year (Figure 2). The cases were from Counties Manukau (3), Waitemata (2), and one each from Auckland, MidCentral, Capital and Coast, and Nelson Marlborough DHBs. Seven cases were hospitalised. The species involved was identified for eight of the nine cases as: *Salmonella* Typhi phage type E1a (6), *S. Typhi* E7 variant (1), and *S. Typhi* phage type Untypable (1). Information on overseas travel was recorded for all cases, of which six had been overseas. The countries visited were India (3), Western Samoa (2), and Pakistan (1). The remaining three cases had no overseas travel.

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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*

ESR received 10 completed reports via EpiSurv for outbreaks during January 2007. These are summarised in the table below.

#### *Summary of completed outbreaks reported to ESR during January 2007*

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Otago	2	4
Gastroenteritis	Auckland, Manawatu, Wellington	3	33
Norovirus	Auckland, Manawatu, Wellington, Otago	5	97
<b>Total</b>		<b>10</b>	<b>134</b>

### *Interim outbreak reports*

The following outbreaks have been reported as interim. The status of the outbreak and cases involved are subject to change, as more data becomes available.

#### *Summary of interim outbreaks reported to ESR during January 2007*

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Auckland	1	25
<i>Cryptosporidium parvum</i>	Auckland	1	2
Gastroenteritis	Auckland, Tauranga, Wellington, Otago	21	39
<i>Giardia</i>	Tauranga	1	3
<i>Legionella</i>	Gisborne	1	-
Norovirus	Tauranga	1	-
<i>Salmonella</i> Tyhi	Auckland	1	3
<b>Total</b>		<b>27</b>	<b>72</b>

## 3. Deaths from notifiable diseases

Five deaths were reported for the month of January.

Disease	District Health Board	Age group	Sex
Creutzfeldt Jakob disease	Waitemata	50-59 years	M
Listeriosis	Auckland	50-59 years	M
Meningococcal disease	Canterbury	5-9 years	M
Tetanus	Waikato	70+ years	F
Tuberculosis disease – new case	Waitemata	70+ years	M

#### 4. Trends in selected diseases to January 2007

Figure 1: Dengue notifications by month January 2001 – January 2007

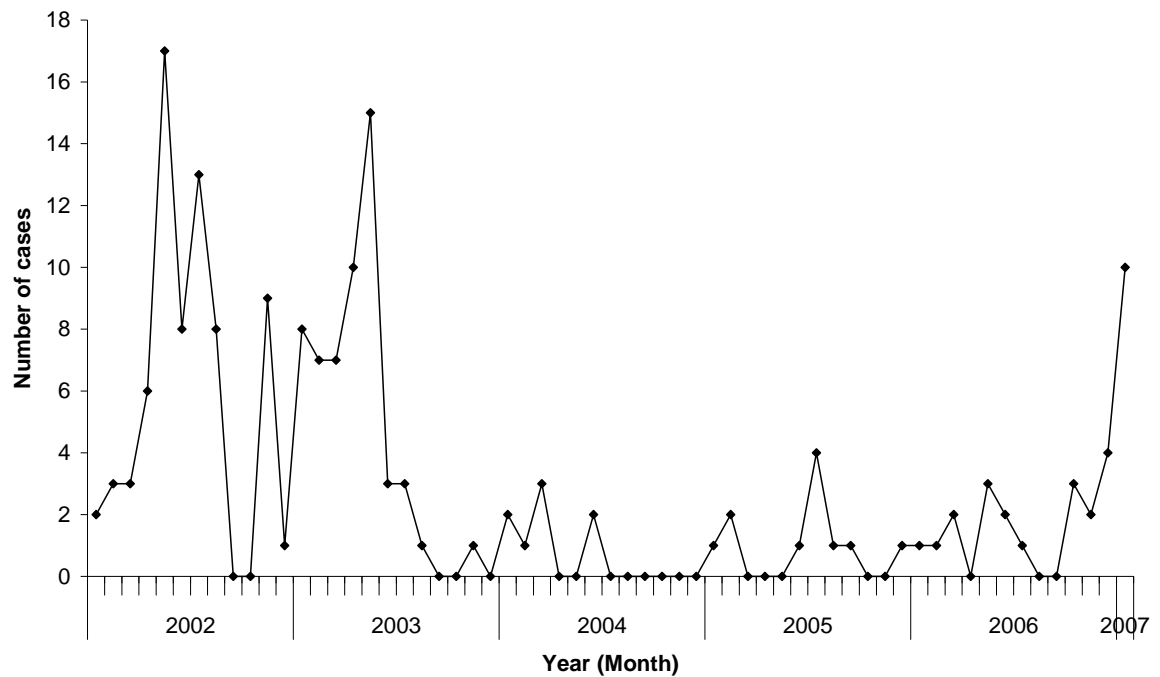
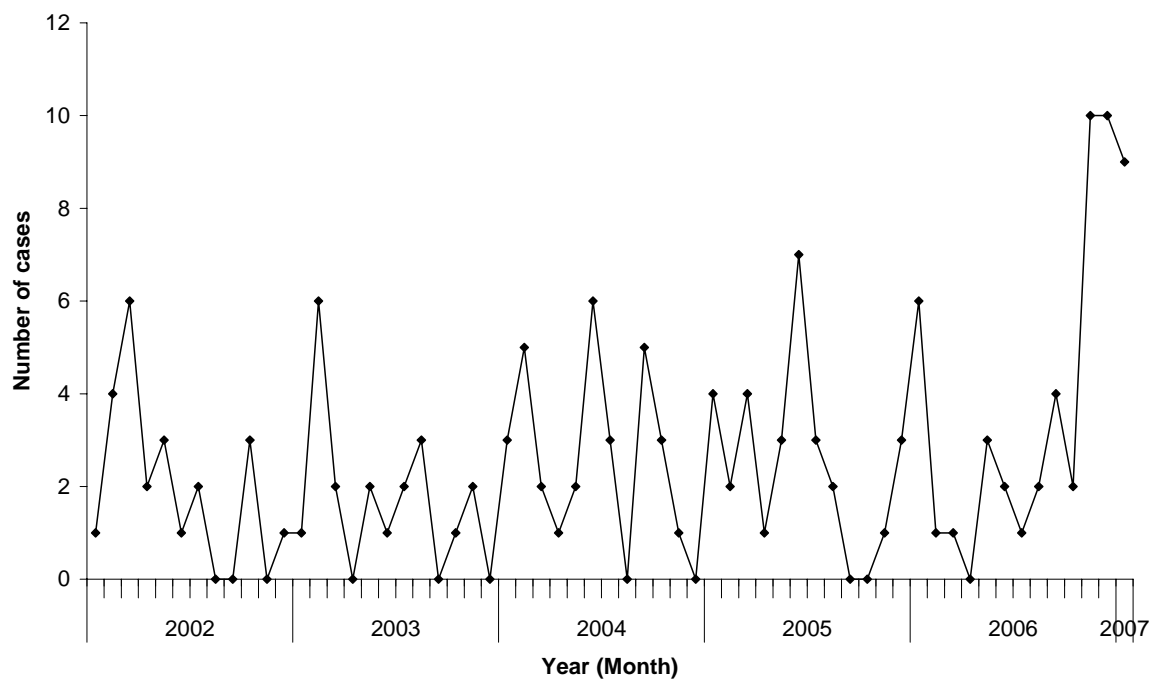


Figure 2: Typhoid notifications by month, January 2001 – January 2007



## 5. Data Tables

### *Disease incidence and rates*

Disease <sup>1</sup>	Current year - 2007 <sup>2</sup>			Previous year - 2006		
	Jan 2007 cases	Cumulative total since 1 January	Current 12-month rate <sup>3</sup>	Jan 2006 cases	Cumulative total since 1 January	Previous 12-month rate <sup>3</sup>
AIDS <sup>4</sup>	7	7	0.9	3	3	1.3
Campylobacteriosis	2027	2027	435.5	1629	1629	377.7
Cryptosporidiosis	42	42	19.7	43	43	24.6
Dengue fever	10	10	0.7	1	1	0.3
Gastroenteritis <sup>5</sup>	59	59	24.9	60	60	14.4
Giardiasis	121	121	33.1	99	99	33.5
<i>H. influenzae</i> type b disease	0	0	0.2	0	0	0.2
Hepatitis A	3	3	2.5	33	33	2.1
Hepatitis B (acute) <sup>6</sup>	11	11	1.8	8	8	1.7
Hepatitis C (acute) <sup>6</sup>	5	5	1.0	3	3	0.8
Hydatid disease	0	0	0	0	0	0.1
Influenza <sup>7</sup>	1	1	20.4	1	1	22.5
Lead absorption	5	5	1.9	11	11	2.1
Legionellosis	11	11	1.7	3	3	2.1
Leprosy	0	0	0.1	1	1	0.1
Leptospirosis	13	13	2.5	8	8	2.3
Listeriosis	2	2	0.4	6	6	0.6
Malaria	2	2	0.8	2	2	0.8
Measles	2	2	0.6	1	1	0.5
Meningococcal disease <sup>8</sup>	8	8	4.3	8	8	5.7
Mumps	5	5	1.4	2	2	1.6
Paratyphoid fever	1	1	0.6	2	2	0.6
Pertussis	51	51	27.7	139	139	65.2
Rheumatic fever	3	3	2.6	14	14	2.4
Rickettsial disease	0	0	0.2	0	0	0
Rubella	0	0	0.2	0	0	0.3
Salmonellosis	104	104	34.6	146	146	38.6
SARS	0	0	0	0	0	0
Shigellosis	7	7	2.4	18	18	5.2
Tetanus	1	1	0.1	0	0	0
Tuberculosis	18	18	9.5	22	22	9.1
Typhoid fever	9	9	1.2	6	6	0.9
VTEC / STEC infection	8	8	2.4	7	7	2.6
Yersiniosis	46	46	13.1	44	44	11.0

**Notes:** <sup>1</sup> Other notifiable infectious diseases reported in January: Chemical Poisoning from the Environment, Cysticercosis

<sup>2</sup> These data are provisional.

<sup>3</sup> Rate is based on the cumulative total for the current year (12 months up to and including January 2007) or the previous year (12 months up to and including January 2006), expressed as cases per 100 000

<sup>4</sup> All Aids data is provisional. Further information is available from the Aids Epidemiology Group, University of Otago.

<sup>5</sup> Cases of gastroenteritis from a common source or foodborne intoxication. Eg: staphylococcal intoxication

<sup>6</sup> Only acute cases of this disease are currently notifiable

<sup>7</sup> Surveillance data based on laboratory-reported cases only (as reported in ESR's Virology Weekly Reports). The monthly total may differ from the Influenza disease section as the latter is based on the date a specimen is taken

<sup>8</sup> These totals and rates are based on the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section

*Monthly totals for January 2007 and preceding 12 months<sup>1</sup>*

Disease	Jan 2007	Dec 2006	Nov 2006	Oct 2006	Sep 2006	Aug 2006	Jul 2006	Jun 2006	May 2006	Apr 2006	Mar 2006	Feb 2006	Jan 2006
AIDS <sup>2</sup>	7	1	4	0	6	1	1	2	1	1	2	7	3
Campylobacteriosis	2027	1510	1654	1234	1229	1216	1074	1290	1479	832	1265	1464	1629
Cryptosporidiosis	42	35	88	202	148	58	26	29	33	23	28	23	43
Dengue fever	10	4	2	3	0	0	1	2	3	0	2	1	1
Gastroenteritis <sup>3</sup>	59	62	37	68	56	65	76	58	123	61	127	138	60
Giardiasis	121	81	95	101	86	106	110	105	129	85	117	100	99
Haemophilus influenzae type b	0	0	0	0	0	0	0	3	2	3	1	0	0
Hepatitis A	3	4	5	3	9	9	4	7	7	11	16	14	33
Hepatitis B (acute) <sup>4</sup>	11	4	9	3	7	3	5	7	7	3	7	2	8
Hepatitis C (acute) <sup>4</sup>	5	2	2	6	2	5	1	4	2	2	2	3	3
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza <sup>5</sup>	1	0	1	3	49	286	293	114	8	3	4	0	1
Lead absorption	5	2	6	6	5	8	2	8	8	9	5	8	11
Legionellosis	11	8	5	5	1	5	3	5	4	6	4	8	3
Leprosy	0	1	0	0	0	0	1	0	0	0	1	0	1
Leptospirosis	13	3	9	4	10	11	8	6	6	6	5	13	8
Listeriosis	2	3	2	2	0	3	0	2	0	0	1	0	6
Malaria	2	2	1	2	3	7	3	1	2	0	4	3	2
Measles	2	2	0	3	3	2	0	0	1	2	1	5	1
Meningococcal disease <sup>6</sup>	8	16	14	10	12	18	30	12	9	8	14	9	8
Mumps	5	8	7	6	3	4	1	5	3	3	6	1	2
Paratyphoid fever	1	2	3	4	1	0	3	1	0	1	4	2	2
Pertussis	51	28	67	66	103	120	103	81	115	65	138	97	139
Rheumatic Fever	3	6	7	5	2	6	21	6	10	23	5	2	14
Rickettsial disease	0	0	0	1	0	1	4	0	1	0	0	0	0
Rubella	0	1	0	1	2	1	1	0	0	0	2	0	0
Salmonellosis	104	100	97	108	114	85	60	58	127	137	145	159	146
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	7	8	8	6	6	10	7	5	4	7	8	15	18
Tetanus	1	0	0	0	0	0	0	0	0	0	1	0	0
Tuberculosis	18	20	30	43	60	31	31	29	27	11	26	30	22
Typhoid fever	9	10	10	2	4	2	1	2	3	0	1	1	6
VTEC/STEC infection	8	2	8	6	5	6	1	6	10	8	20	8	7
Yersiniosis	46	43	53	57	42	49	22	31	49	27	36	34	44

**Notes:** <sup>1</sup> Later data are provisional

<sup>2</sup> All Aids data is provisional. Further information is available from the Aids Epidemiology Group, University of Otago.

<sup>3</sup> Cases of gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication or toxic shellfish poisoning

<sup>4</sup> Only acute cases of this disease are currently notifiable

<sup>5</sup> Surveillance data based on laboratory-reported cases only (as reported in ESR's Virology Weekly Reports)

<sup>6</sup> These totals are based on the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section

# Surveillance data by District Health Board - January 2007

Cases this month

Current 12-month rate<sup>1</sup>

Disease	Cases for January 2007, <sup>2</sup> and current rate <sup>1,2</sup> by District Health Board <sup>3,4</sup>																					
	Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland	
AIDS <sup>5</sup>	0	4			1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	
	0	1.1			0.6	0	0	0	0	1.4	0	0	1.3	0	0	0.8	1.3	4.4	0	0	0	
Campylobacteriosis	48	235	180	160	167	39	95	9	44	73	28	45	69	132	10	78	16	381	44	109	65	
	276.1	548.7	507.7	419.1	395.3	418.8	383.9	143.4	453.2	354.5	367.8	231.6	469.5	586.1	235.6	310.3	261.0	478.4	568.4	438.7	399.7	
Cryptosporidiosis	1	7	1	4	3	1	1	0	0	1	1	2	3	2	1	1	1	6	2	1	3	
	16.4	12.6	9.0	7.5	29.6	17.7	13.5	13.7	14.6	11.8	31.4	36.8	22.8	21.6	62.8	18.8	46.3	21.1	73.9	24.0	31.9	
Dengue fever	0	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	0	0.5	0.3	2.1	0	0	1.1	0	0	0	0	0	0.8	2.8	0	1.6	3.3	0.5	0	0.6	1.0	
Gastroenteritis	0	3	2	3	12	0	0	0	0	0	0	6	7	7	0	0	1	17	0	1	0	
	2.1	18.1	21.5	14.4	21.1	13.5	8.4	0	5.8	13.9	67.6	154.9	30.3	29.3	2.6	18.0	19.8	29.3	5.7	16.4	14.5	
Giardiasis	15	8	15	4	12	2	9	2	0	5	0	4	6	9	0	6	2	11	2	4	5	
	57.1	27.5	44.1	26.6	44.4	36.5	39.3	27.3	9.7	35.5	34.6	18.1	26.5	39.9	34.0	34.3	23.1	26.5	34.1	28.1	31.9	
<i>H. influenzae</i> type b disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.2	0.3	0	0.3	1.0	1.1	0	0	0	0	0	0	0.4	0	0	0	0	1.9	0	1.0	
Hepatitis A	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2.1	3.5	1.9	10.7	0.9	1.0	2.2	2.3	1.0	0	4.7	0.6	0.8	1.6	2.6	0.8	0	0.9	0	0.6	1.0	
Hepatitis B	0	2	2	0	1	0	0	0	0	1	0	0	1	0	0	1	0	2	0	0	1	
	0.7	3.0	1.9	3.2	0.9	0	0	2.3	1.9	2.1	1.6	0	1.5	1.2	2.6	1.6	0	3.5	1.9	0	1.0	
Hepatitis C	0	0	0	1	0	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	
	0	0.2	0.3	0.3	0	3.1	0.6	2.3	6.8	0.7	0	0	1.5	1.2	0	0	3.3	2.8	0	1.2	0	
Hydatids disease	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	0	0	
Lead absorption	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	0	0	0	
	1.4	0.7	0.8	0.5	2.2	7.3	1.7	4.6	2.9	2.1	3.1	1.9	4.6	1.6	2.6	0	0	3.5	1.9	2.9	0	
Legionellosis	1	2	0	1	0	0	0	5	0	0	0	0	0	0	0	0	0	2	0	0	0	
	2.1	1.9	1.1	2.9	0.6	1.0	1.7	13.7	1.0	1.4	0	0	2.3	1.6	5.2	1.6	0	1.6	0	2.9	1.0	
Leprosy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.2	0.3	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Leptospirosis	1	0	0	0	0	0	1	0	0	1	1	4	0	0	0	1	0	4	0	0	0	
	10.0	0.2	0	0.3	2.5	1.0	4.5	4.6	5.8	7.0	6.3	5.2	1.5	0.4	13.1	3.3	6.6	2.8	3.8	1.2	1.0	
Listeriosis	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	0.5	0.5	0.8	0.3	0	0.6	0	0	0.7	0	0	0.8	0.4	0	0	0	0	1.9	0	1.0	
Malaria	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.2	1.1	1.9	1.9	1.0	0	0	0	0.7	0	0	1.5	0.4	0	0.8	0	0.9	1.9	0.6	0	
Measles	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	0	0.5	0.3	0	0	0	1.1	0	0	0	0	0.6	0.8	0.8	0	2.4	3.3	1.6	0	0	1.0	
Meningococcal disease <sup>5</sup>	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2	0	1	1	
	6.4	0.9	4.4	6.7	8.5	2.1	1.7	9.1	1.0	2.8	0	4.5	5.3	2.8	5.2	3.3	0	4.7	1.9	5.9	6.8	
Mumps	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	0	
	0.7	1.4	1.6	1.9	0.6	2.1	2.2	0	0	2.1	3.1	1.9	2.3	1.2	2.6	0	0	1.2	1.9	1.8	0	
Paratyphoid fever	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.5	0.5	2.4	0.3	1.0	0	0	1.0	0.7	0	0	0.8	0.4	0	1.6	0	0	0	0.6	0	
Pertussis	0	4	2	1	8	2	4	1	0	0	2	6	2	2	0	2	0	13	1	1	0	
	3.6	3.7	4.4	3.2	81.5	24.0	38.2	77.4	1.0	9.8	7.9	14.2	31.9	36.2	10.5	46.5	39.7	62.3	36.0	14.6	43.5	
Rheumatic fever	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	
	10.7	0.5	0.3	8.3	2.8	3.1	1.7	4.6	1.0	4.9	4.7	0.6	3.8	4.5	0	0	0	0.2	0	0	1.0	
Rickettsial disease	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	1.9	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0.5	0	0	0	0	0	0	0.7	0	1.3	0	0	0	0	0	0.2	0	0	1.9	
Salmonellosis	6	9	9	6	12	3	9	1	3	4	3	3	2	2	2	2	1	15	1	7	4	
	31.4	30.5	28.3	24.8	41.2	20.8	29.7	22.8	42.7	44.6	26.7	23.9	28.8	46.0	44.5	34.3	13.2	34.9	64.4	45.7	68.7	
SARS	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	0	0	
Shigellosis	0	0	2	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	3.5	4.9	4.0	1.6	2.1	1.7	0	0	2.1	3.1	0	0.8	3.7	0	5.7	3.3	1.6	0	1.2	0	
Tetanus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tuberculosis	0	3	6	2	2	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	1	
	21.4	7.7	15.8	17.8	11.0	2.1	4.5	0	3.9	4.9	3.1	19.4	6.1	11.8	5.2	3.3	6.6	5.9	3.8	2.9	2.9	
Typhoid fever	0	2	1	3	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	
	0.7	2.3	0.5	4.5	2.5	0	0.6	0	0	0	0	0.6	1.5	0.4	0	1.6	0	0	0	0	0	
VTEC / STEC	0	0	0	1	3	0	0	0	0	0	0	0	0	1	0	0	0	2	0	1	0	
	3.6	2.8	0.8	1.3	5.7	2.1	1.1	2.3	1.0	2.1	0	0.6	0	0.4	0	4.9	0	3.5	3.8	4.1	3.9	
Yersiniosis	0	5	6	2	2	2	2	2	2	1	0	0	0	5	2	0	2	12	0	1	0	
	6.4	9.1	12.5	9.3	10.1	22.9	18.0	11.4	8.7	7.7	12.6	5.8	5.3	26.8	7.9	14.7	33.0	22.2	17.1	12.3	2.9	

1 Current rate is based on the cumulative total for the 12 months up to and including January 2007 expressed as cases per 100 000

2 These data are provisional

3 - AIDS data is reported for the greater Auckland and Wellington areas, rather than by District Health Board

- All Aids data is provisional. Further information is available from the Aids Epidemiology Group, University of Otago.

4 Further data are available from the local medical officer of health

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