

MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 5 March 2007. 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 February 2007	4
5. Data Tables	5

1. Key notifiable disease trends

- *Cryptosporidiosis*: 66 cases of cryptosporidiosis were notified in February 2007 compared to 23 notified cases in the same month of the previous year. One case was hospitalised. The highest numbers of cases were reported from the Auckland region (17), Wellington region (15), and Waikato DHB (12).
- *Dengue*: 39 cases of dengue fever were notified in February 2007 compared to one notified case in the same month in the previous year (Figure 1). The cases were from Counties Manukau (14), Auckland (13), Waitemata (9) and Waikato (3) DHBs. Eleven cases were hospitalised. Overseas travel was recorded for all cases. The countries visited during the incubation period were the Cook Islands (32), Samoa (5), Fiji (1), and Tahiti (1).
- *Haemophilus influenzae type b (Hib)*: three cases of Hib were notified in February 2007 compared to zero cases notified at the same month of the previous year. All cases were hospitalised. Two cases were aged under one year and one was in the 10-14 years age group. The cases were from Waitemata (1), Waikato (1), and Hawke's Bay (1) DHBs. Vaccination status was recorded for both under one year olds (one received one dose, and the other was not vaccinated).
- *Meningococcal disease*: based on the earliest date available¹, five cases of meningococcal disease were notified during February 2007, of which all were laboratory-confirmed. In comparison, eight cases were notified the previous month, January 2007, and seven cases were notified during the same month last year, February 2006. For the 12 month period ending 28 February 2007,

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.

Tairāwhiti DHB recorded the highest incidence rate of 9.1 per 100 000 population (4 cases), followed by Waikato (7.9 per 100 000, 25 cases), and Northland (7.8 per 100 000, 11 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 (13.9 per 100 000 population, 30 cases), and those in the 15-19 years age group (10.9 per 100 000 population, 29 cases).

- *Mumps*: nine cases of mumps were notified in February 2007 compared to one notified case in the same month of the previous year. Four cases were confirmed, four probable and one case was still under investigation. The cases were reported from Auckland (2), Hawke's Bay (2), Capital and Coast (2), Waitemata (1), Counties Manukau (1), and Hutt (1) DHBs. The cases were in the following age groups: 10-14 years (4), 1-4 years (2), 20-29 years (1), 30-39 years (1), and 40-49 years (1). Four cases were reported as being immunised (2 cases received one dose; 2 cases received two doses).
- *Typhoid fever*: 11 cases of typhoid fever were notified in February 2007 compared to one notified case in the same month of the previous year. (Figure 2). The cases were from Waitemata (4), Counties Manukau (3), Capital and Coast (2), Auckland (1), and Canterbury (1) DHBs. Eight cases were hospitalised. The species involved was identified for all cases: *Salmonella* Typhi phage type E1a (8), *S. Typhi* E7 variant (2), and *S. Typhi* (1). Information on overseas travel was recorded for all cases, of which eight had been overseas. The countries visited were Samoa (6), and India (2). One of the cases who had been to India had also travelled to Singapore and Malaysia. The remaining three cases had no overseas travel (although two cases were possibly infected through food brought in from overseas).
- *VTEC/STEC infection*: 12 cases of VTEC/STEC infection were notified in February 2007 compared to eight notified case in the same month of the previous year. The cases were from Waitemata (5), Waikato (4), Canterbury (2), and Auckland (1) DHBs. Two cases were hospitalised. Only 11 of the cases have been confirmed by ESR's Enteric Reference Laboratory as *Escherichia coli* O157.

2. Outbreaks

Completed outbreak reports

ESR received 18 completed reports via EpiSurv for outbreaks during February 2007. These are summarised in the table below.

Summary of completed outbreaks reported to ESR during February 2007

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	West Coast, Canterbury	2	6
<i>Cryptosporidium parvum</i>	Auckland	2	5
Gastroenteritis	Auckland, Waikato	4	47
<i>Giardia</i>	Auckland, Nelson	3	10
Norovirus	Auckland, Canterbury	6	94
<i>Streptococcus</i> Group A	Canterbury	1	8
Total		18	170

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 February 2007

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Escherichia coli</i> (VTEC)	Auckland	1	0
Gastroenteritis	Auckland, Waikato, Wellington, Otago	11	19
Norovirus	Wanganui, Manawatu, Canterbury	6	137
<i>Shigella</i>	Auckland	1	3
Total		19	72

3. Deaths from notifiable diseases

No deaths were reported for the month of February.

4. Trends in selected diseases to February 2007

Figure 1: Dengue notifications by month January 2002 – February 2007

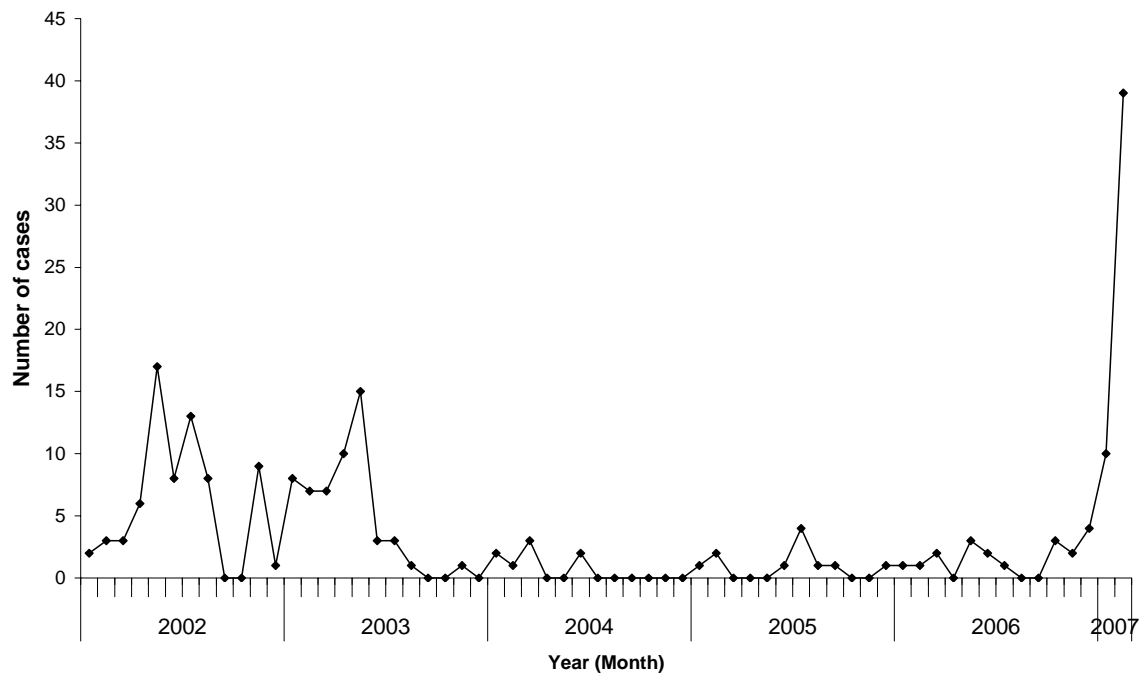
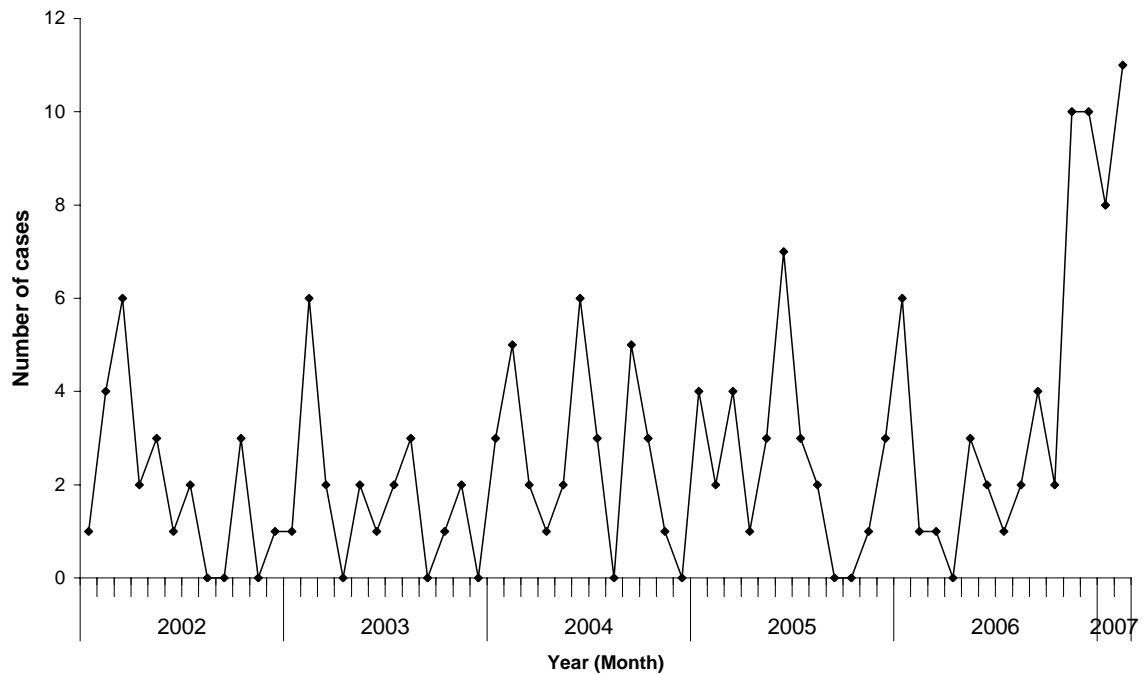


Figure 2: Typhoid notifications by month, January 2002 – February 2007



5. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2007 ²			Previous year - 2006		
	Feb 2007 cases	Cumulative total since 1 January	Current 12-month rate ³	Feb 2006 cases	Cumulative total since 1 January	Previous 12-month rate ³
AIDS ⁴	1	8	0.7	7	10	1.3
Campylobacteriosis	1429	3474	435.0	1464	3093	382.4
Cryptosporidiosis	66	109	20.8	23	66	24.0
Dengue fever	39	49	1.8	1	2	0.3
Gastroenteritis ⁵	37	95	22.2	138	198	17.0
Giardiasis	136	261	34.1	100	199	33.1
<i>H. influenzae</i> type b disease	3	3	0.3	0	0	0.2
Hepatitis A	7	10	2.3	14	47	2.3
Hepatitis B (acute) ⁶	7	19	1.9	2	10	1.7
Hepatitis C (acute) ⁶	2	7	0.9	3	6	0.8
Hydatid disease	0	0	0	0	0	0.1
Influenza ⁷	2	3	20.4	0	1	22.4
Lead absorption	5	10	1.8	8	19	2.2
Legionellosis	3	16	1.5	8	11	2.2
Leprosy	1	1	0.1	0	1	0.1
Leptospirosis	11	24	2.5	13	21	2.5
Listeriosis	0	2	0.4	0	6	0.5
Malaria	0	2	0.7	3	5	0.7
Measles	2	4	0.5	5	6	0.6
Meningococcal disease ⁸	4	13	4.2	9	17	5.6
Mumps	9	15	1.6	1	3	1.6
Paratyphoid fever	4	6	0.7	2	4	0.6
Pertussis	29	81	25.9	97	236	58.9
Rheumatic fever	1	5	2.6	2	16	2.2
Rickettsial disease	0	0	0.2	0	0	0
Rubella	0	0	0.2	0	0	0.3
Salmonellosis	98	205	33.1	159	305	39.2
SARS	0	0	0	0	0	0
Shigellosis	13	19	2.4	15	33	5.2
Tetanus	0	1	0.1	0	0	0
Tuberculosis	22	41	9.3	30	52	9.2
Typhoid fever	11	19	1.4	1	7	0.8
VTEC / STEC infection	12	20	2.5	8	15	2.6
Yersiniosis	46	92	13.4	34	78	10.9

Notes: ¹ Other notifiable infectious diseases reported in February: Chemical Injury Poisoning

² These data are provisional.

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

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

⁵ Cases of gastroenteritis from a common source or foodborne intoxication. Eg: staphylococcal intoxication

⁶ Only acute cases of this disease are currently notifiable

⁷ 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

⁸ 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 February 2007 and preceding 12 months¹

Disease	Feb 2007	Jan 2007	Dec 2006	Nov 2006	Oct 2006	Sep 2006	Aug 2006	Jul 2006	Jun 2006	May 2006	Apr 2006	Mar 2006	Feb 2006
AIDS ²	1	7	1	4	0	6	1	1	2	1	1	2	7
Campylobacteriosis	1429	2045	1510	1654	1234	1229	1216	1074	1290	1479	832	1265	1464
Cryptosporidiosis	66	43	35	88	202	148	58	26	29	33	23	28	23
Dengue fever	39	10	4	2	3	0	0	1	2	3	0	2	1
Gastroenteritis ³	37	58	62	37	68	56	65	76	58	123	61	127	138
Giardiasis	136	125	81	95	101	86	106	110	105	129	85	117	100
Haemophilus influenzae type b	3	0	0	0	0	0	0	0	3	2	3	1	0
Hepatitis A	7	3	4	5	3	9	9	4	7	7	11	16	14
Hepatitis B (acute) ⁴	7	12	4	7	3	7	3	5	7	7	3	7	2
Hepatitis C (acute) ⁴	2	5	2	2	6	2	5	1	4	2	2	2	3
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza ⁵	2	1	0	1	3	49	286	293	114	8	3	4	0
Lead absorption	5	5	2	6	6	5	8	2	8	8	9	5	8
Legionellosis	3	13	5	4	4	1	5	3	5	4	6	4	8
Leprosy	1	0	1	0	0	0	0	1	0	0	0	1	0
Leptospirosis	11	13	3	9	4	10	11	8	6	6	6	5	13
Listeriosis	0	2	3	2	2	0	3	0	2	0	0	1	0
Malaria	0	2	2	1	2	3	7	3	1	2	0	4	3
Measles	2	2	2	0	3	3	2	0	0	1	2	1	5
Meningococcal disease ⁶	4	9	16	14	10	12	18	30	12	9	8	14	9
Mumps	9	6	7	7	6	3	4	1	5	3	3	6	1
Paratyphoid fever	4	2	2	3	4	1	0	3	1	0	1	4	2
Pertussis	29	52	28	67	66	103	120	103	81	115	65	138	97
Rheumatic Fever	1	4	6	7	5	2	6	21	6	10	23	5	2
Rickettsial disease	0	0	0	0	1	0	1	4	0	1	0	0	0
Rubella	0	0	1	0	1	2	1	1	0	0	0	2	0
Salmonellosis	98	107	100	97	108	114	85	60	58	127	137	145	159
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	13	6	8	8	6	6	10	7	5	4	7	8	15
Tetanus	0	1	0	0	0	0	0	0	0	0	0	1	0
Tuberculosis	22	19	21	29	43	60	31	31	29	27	10	26	30
Typhoid fever	11	8	10	10	2	4	2	1	2	3	0	1	1
VTEC/STEC infection	12	8	2	8	6	5	6	1	6	10	8	20	8
Yersiniosis	46	46	43	53	57	42	49	22	31	49	27	36	34

Notes: ¹ Later data are provisional

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

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

⁴ Only acute cases of this disease are currently notifiable

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

⁶ 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 - February 2007

Cases this month

Current 12-month rate¹

Disease	Cases for February 2007, ² and current rate ^{1,2} by District Health Board ^{3,4}																				
	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 ⁵	0	1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1.1			0.3	0	0	0	0	1.4	0	0	0.0	0	0	0.8	0	4.4	0	0	0
Campylobacteriosis	18	173	133	104	96	24	50	5	42	40	24	26	38	106	11	67	12	267	36	113	44
	266.2	541.5	499.3	407.9	387.8	409.5	378.3	157.0	464.9	354.5	378.8	229.7	463.4	582.0	256.5	341.3	277.6	494.0	572.2	453.9	393.9
Cryptosporidiosis	1	4	4	9	12	1	0	0	0	5	3	4	9	6	2	1	0	2	0	1	2
	17.1	13.3	9.2	9.6	33.0	18.8	13.5	15.9	14.6	15.3	31.4	38.7	29.6	23.2	68.1	19.6	39.7	20.4	72.0	22.8	33.9
Dengue fever	0	9	13	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	2.6	3.8	5.9	0.9	0	1.1	0	0	0	0	0	0.8	2.4	0	1.6	3.3	0.5	0	0.6	1.0
Gastroenteritis	0	3	2	2	0	1	0	0	0	1	1	8	2	4	0	0	0	8	0	4	1
	2.1	17.2	20.1	13.6	17.0	11.5	7.9	0	5.8	14.6	67.6	111.6	30.3	28.5	2.6	18.0	16.5	29.3	5.7	14.1	13.5
Giardiasis	3	19	25	14	17	0	2	0	0	5	1	3	3	9	1	7	0	11	2	5	9
	56.4	30.0	47.3	28.0	45.6	33.3	38.7	27.3	8.7	38.3	36.2	18.1	25.8	39.5	36.6	38.4	16.5	26.7	32.2	28.7	37.7
H. influenzae type b disease	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	0	0.5	0.3	0	0.6	1.0	1.1	0	0	0.7	0	0	0	0.4	0	0	0	0	1.9	0	1.0
Hepatitis A	1	2	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	2.9	3.5	1.6	9.6	0.9	1.0	2.2	2.3	1.0	0.7	4.7	0.6	0.8	0.8	2.6	0.8	0	0.5	0	0.6	1.0
Hepatitis B	0	4	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0.7	4.0	1.4	3.5	1.3	0	0.6	2.3	1.9	2.1	1.6	0	1.5	0.8	0	1.6	0	3.7	1.9	0	1.0
Hepatitis C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	0.7	0.2	0	0.3	0	3.1	0.6	2.3	4.9	0.7	0	0	1.5	1.2	0	0	3.3	2.8	0	1.8	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	0	0	0	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0	1	0
	1.4	0.7	0.8	0.5	2.2	7.3	1.1	4.6	3.9	2.1	3.1	3.2	3.8	1.2	2.6	0	0	3.0	0	2.9	0
Legionellosis	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	2.1	1.2	1.1	1.3	0.6	1.0	1.1	20.5	1.0	1.4	0	0	2.3	1.2	5.2	1.6	0	1.9	0	2.3	1.0
Leprosy	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.2	0.3	0.3	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	0	0	0	0	2	0	0	0	3	2	1	0	0	0	0	0	1	1	0	1	0
	10.0	0.2	0	0.3	2.5	1.0	3.9	4.6	7.8	5.6	7.9	4.5	1.5	0	13.1	3.3	6.6	2.8	3.8	1.2	1.0
Listeriosis	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.2	0.8	1.6	1.6	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	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	0	0	0.3	0.3	0	0	1.1	0	0	0	0	0.6	0.8	0.8	0	2.4	3.3	1.2	0	0	1.0
Meningococcal disease ⁵	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	7.1	0.9	3.8	7.2	7.9	2.1	1.7	9.1	1.9	3.5	0	4.5	3.8	2.8	5.2	3.3	0	4.2	1.9	5.3	6.8
Mumps	0	1	2	1	0	0	0	0	0	2	0	0	1	2	0	0	0	0	0	0	0
	0.7	1.6	2.2	2.4	0.6	2.1	1.7	0	0	3.5	3.1	1.9	2.3	2.0	2.6	0	0	1.2	1.9	1.8	0
Paratyphoid fever	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.5	0.3	2.9	0.9	1.0	0	0	1.0	0.7	0	0	0.8	0.4	0	1.6	0	0	0	0.6	0
Pertussis	1	4	1	6	4	0	3	0	0	3	0	0	1	1	0	0	0	4	1	0	0
	2.9	4.0	4.1	4.5	75.2	24.0	32.0	72.8	1.0	10.4	7.9	13.5	31.1	35.8	10.5	44.9	36.3	58.3	34.1	11.7	33.9
Rheumatic fever	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10.7	0.5	0.3	8.3	3.1	3.1	1.7	6.8	1.0	4.9	4.7	0.6	3.0	4.1	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	11	14	11	7	6	1	3	0	3	4	1	4	1	9	1	3	1	8	2	4	4
	36.4	29.8	28.8	22.9	39.7	20.8	29.7	22.8	34.9	41.8	22.0	23.9	27.3	41.9	44.5	31.0	9.9	31.6	62.5	43.9	66.8
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	1	1	3	1	3	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
	1.4	2.1	5.4	3.5	2.2	3.1	2.2	0	0	2.1	3.1	0	1.5	3.3	0	5.7	3.3	1.2	0	1.2	0
Tetanus	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	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	2	2	5	2	1	1	0	0	0	0	0	0	1	2	0	0	0	6	0	0	0
	21.4	7.4	15.0	16.8	9.8	3.1	4.5	0	3.9	4.9	3.1	17.4	6.8	12.2	5.2	3.3	6.6	7.0	3.8	2.9	1.9
Typhoid fever	0	4	1	3	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
	0.7	3.3	0.8	4.8	2.5	0	0.6	0	0	0	0	0.6	1.5	1.2	0	1.6	0	0.2	0	0	0
VTEC / STEC	0	5	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	2.9	3.7	0.8	1.3	6.3	2.1	1.1	2.3	1.0	2.1	0	0	0	0.4	0	4.1	0	4.0	3.8	3.5	3.9
Yersiniosis	0	5	2	1	5	2	2	1	1	1	1	2	3	4	2	0	5	6	0	2	1
	5.7	9.5	12.2	8.8	11.0	24.0	18.0	13.7	9.7	7.7	14.1	6.5	6.8	26.0	13.1	13.1	46.3	22.2	17.1	12.9	3.9

1 Current rate is based on the cumulative total for the 12 months up to and including February 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.