

MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 3 January 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 December 2006	4
5. Data Tables	5

1. Key notifiable disease trends

- *Creutzfeldt-Jacob disease (CJD)*: one case of sporadic CJD, confirmed by clinical specimen was notified in December 2006. The case was a female aged 40-49 years from Waitemata DHB. No cases of variant CJD, the form linked with bovine spongiform encephalopathy, have ever been identified in New Zealand.
- *Gastroenteritis*: 57 cases of gastroenteritis were notified in December 2006 compared to 18 notified cases in the same month of the previous year. Seven cases were hospitalised. The highest numbers of cases were reported from Canterbury (23) and MidCentral (13) DHBs. Almost half (28) of the notified cases were identified as being part of an outbreak.
- *Leprosy*: one probable case of leprosy was notified in December 2006 bringing the year to date total to four. The case was a female aged 50-59 years from Waitemata DHB, who travelled to the Philippines during the incubation period and had contact with a person with leprosy.
- *Meningococcal disease*: based on the earliest date available¹, 12 cases of meningococcal disease were notified during December 2006, of which seven (58.3%) were laboratory-confirmed. In comparison, 12 cases were notified the previous month, November 2006, and 10 cases were notified during the same month last year, December 2005. For the 12 month period ending 31 December 2006, Waikato DHB recorded the highest incidence rate of 8.5 per 100 000 population (27 cases). The highest age-specific incidence rate was in

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.

infants aged less than one year (62.2 per 100 000 population, 34 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 (10.9 per 100 000 population, 29 cases).

- *Mumps*: eight cases of mumps were notified in December 2006 compared to two notified cases in the same month of the previous year. The cases were reported from Waitemata (2), Hutt (2), Counties Manukau (1), Lakes (1), MidCentral (1), and Canterbury (1) DHBs. The cases were in the following age groups: 10-14 years (3), 20-29 years (2), 1-4 years (1), 30-39 years (1) and 70+ years (1). Three cases were immunised (one case received two doses, one case received one dose, and the third case's number of doses is unknown).
- *Pertussis*: 25 pertussis cases were notified in December 2006, of whom six (24.0%) were laboratory-confirmed. The number of pertussis notifications per month has decreased from the peak in November 2004 when 613 cases were notified (Figure 1). No cases were reported as being hospitalised. Canterbury DHB had the highest number of cases (10). For the 12 month period ending 31 December 2006, Waikato DHB had the highest incidence rate of 87.2 per 100 000 population (277 cases), compared to the national rate of 29.9 per 100 000 population. Over this period the incidence rate by age group was highest amongst infants aged less than one year (71.4 per 100 000 population). This was followed by those in the 50-59 years age group (39.7 per 100 000) and the 60-69 years age group (38.6 per 100 000 population).
- *Typhoid fever*: nine cases of typhoid fever were notified in December 2006 compared to three notified cases in the same month of the previous year (Figure 2). The cases were from Counties Manukau (8) and Waitemata (1) DHBs. Four cases were hospitalised. The species involved was identified for seven of the nine cases as: *Salmonella* Typhi phage type E1a (6) and *S. Typhi* E7 variant (1). Two cases had been to Samoa during the incubation period.
- *Yersiniosis*: 41 yersiniosis cases were notified in December 2006 compared to 22 cases notified in the same month of the previous year. Three cases were reported as being hospitalised. Capital and Coast DHB had the highest number of cases (9), followed by Canterbury (7) DHB. Overseas travel information was recorded for 12/41 (29.3%) cases, of which one had been overseas (Wales).

2. Outbreaks

Completed outbreak reports

ESR received 10 completed reports via EpiSurv for outbreaks during December 2006. These are summarised in the table below.

Summary of completed outbreaks reported to ESR during December 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Wanganui	1	22
Gastroenteritis	Auckland, Southland	3	81
<i>Giardia</i>	Auckland	1	4
Norovirus	Manawatu, Wellington	3	106
<i>Salmonella</i>	Auckland	2	6
Total		10	219

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 December 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
Chemical injury	Auckland	1	-
Gastroenteritis	Auckland, Waikato, Taranaki, Wanganui, Wellington, Canterbury, Southland	17	54
Norovirus	Canterbury	1	-
Total		19	54

3. Deaths from notifiable diseases

Two deaths were reported for the month of December.

Disease	District Health Board	Age group	Sex
Meningococcal disease	Counties Manukau	50-59 years	F
Tuberculosis disease – new case	Auckland	60-69 years	F

4. Trends in selected diseases to December 2006

Figure 1: Pertussis notifications and laboratory confirmed cases by month January 2001 – December 2006

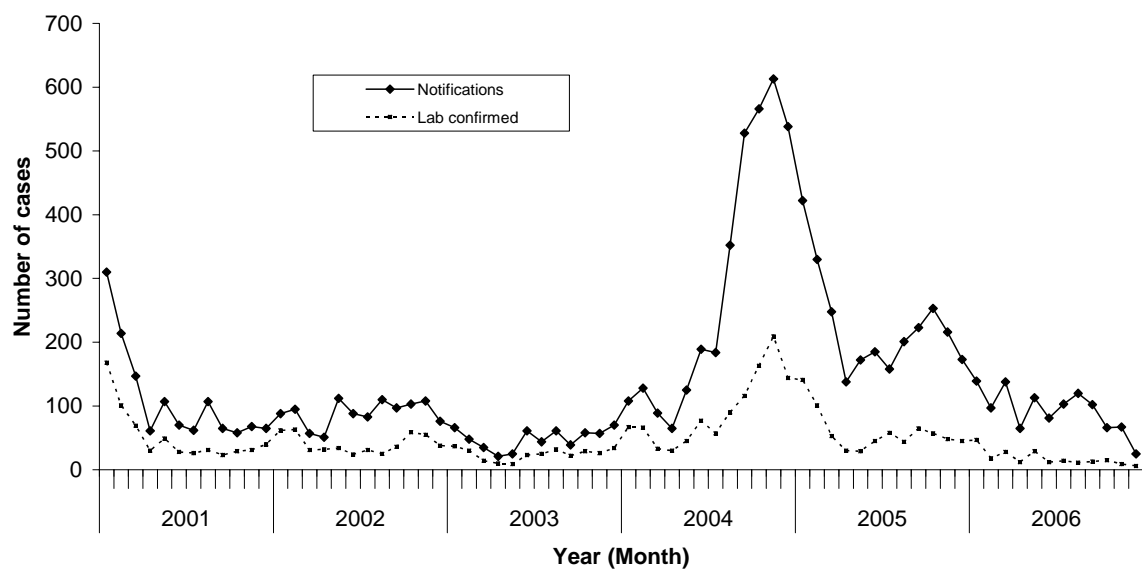
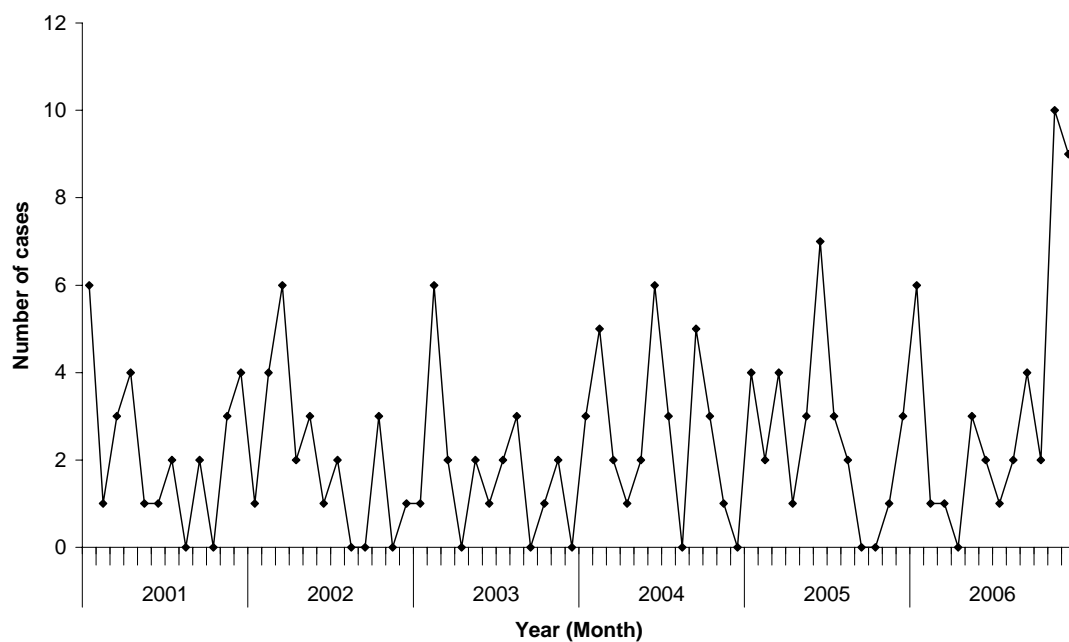


Figure 2: Typhoid notifications by month, January 2001 – December 2006



5. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2006 ²			Previous year - 2005		
	Dec 2006 cases	Cumulative total since 1 January	Current 12-month rate ³	Dec 2005 cases	Cumulative total since 1 January	Previous 12-month rate ³
AIDS ⁴	1	29	0.8	2	48	1.3
Campylobacteriosis	1417	15785	422.4	1610	13836	370.2
Cryptosporidiosis	33	733	19.6	26	889	23.8
Dengue fever	3	19	0.5	1	11	0.3
Gastroenteritis ⁵	57	926	24.8	18	557	14.9
Giardiasis	77	1210	32.4	106	1231	32.9
<i>H. influenzae</i> type b disease	0	9	0.2	0	7	0.2
Hepatitis A	4	123	3.3	7	51	1.4
Hepatitis B (acute) ⁶	4	66	1.8	9	60	1.6
Hepatitis C (acute) ⁶	2	35	0.9	2	29	0.8
Hydatid disease	0	0	0	0	2	0.1
Influenza ⁷	0	762	20.4	3	841	22.5
Lead absorption	2	78	2.1	6	71	1.9
Legionellosis	8	57	1.5	9	85	2.3
Leprosy	1	4	0.1	1	2	0.1
Leptospirosis	2	88	2.4	5	85	2.3
Listeriosis	3	19	0.5	3	20	0.5
Malaria	2	30	0.8	1	32	0.9
Measles	1	19	0.5	0	19	0.5
Meningococcal disease ⁸	14	158	4.2	11	226	6.0
Mumps	8	50	1.3	2	61	1.6
Paratyphoid fever	2	23	0.6	1	25	0.7
Pertussis	25	1116	29.9	173	2719	72.8
Rheumatic fever	3	104	2.8	5	79	2.1
Rickettsial disease	0	7	0.2	0	1	0
Rubella	1	10	0.3	0	13	0.3
Salmonellosis	92	1327	35.5	119	1382	37.0
SARS	0	0	0	0	0	0
Shigellosis	8	102	2.7	16	183	4.9
Tetanus	0	1	0	0	1	0
Tuberculosis	21	362	9.7	24	340	9.1
Typhoid fever	9	41	1.1	3	30	0.8
VTEC / STEC infection	2	87	2.3	5	92	2.5
Yersiniosis	41	485	13.0	22	407	10.9

Notes: ¹ Other notifiable infectious diseases reported in December: Creutzfeldt-Jakob disease

² These data are provisional.

³ Rate is based on the cumulative total for the current year (12 months up to and including December 2006) or the previous year (12 months up to and including December 2005), 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 December 2006 and preceding 12 months¹

Disease	Dec 2006	Nov 2006	Oct 2006	Sep 2006	Aug 2006	Jul 2006	Jun 2006	May 2006	Apr 2006	Mar 2006	Feb 2006	Jan 2006	Dec 2005
AIDS ²	1	4	0	6	1	1	2	1	1	2	7	3	2
Campylobacteriosis	1417	1653	1235	1229	1216	1074	1290	1480	832	1265	1464	1630	1610
Cryptosporidiosis	33	88	201	148	58	26	29	33	23	28	23	43	26
Dengue fever	3	2	3	0	0	1	2	3	0	3	1	1	1
Gastroenteritis ³	57	38	67	55	64	77	59	123	60	127	139	60	18
Giardiasis	77	95	101	86	106	110	105	129	85	117	100	99	106
Haemophilus influenzae type b	0	0	0	0	0	0	3	2	3	1	0	0	0
Hepatitis A	4	5	3	9	9	4	7	7	11	16	15	33	7
Hepatitis B (acute) ⁴	4	9	3	7	3	6	7	7	3	7	2	8	9
Hepatitis C (acute) ⁴	2	2	6	2	5	1	5	2	2	2	3	3	2
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza ⁵	0	1	3	49	286	293	114	8	3	4	0	1	3
Lead absorption	2	6	6	5	8	2	8	8	9	5	8	11	6
Legionellosis	8	5	5	1	5	3	5	4	6	4	8	3	9
Leprosy	1	0	0	0	0	1	0	0	0	1	0	1	1
Leptospirosis	2	9	4	10	11	8	6	6	6	5	13	8	5
Listeriosis	3	2	2	0	3	0	2	0	0	1	0	6	3
Malaria	2	1	2	3	7	3	1	2	0	4	3	2	1
Measles	1	0	3	3	2	0	0	1	2	1	5	1	0
Meningococcal disease ⁶	14	14	10	12	18	30	12	9	8	14	9	8	11
Mumps	8	7	6	4	4	1	5	3	3	6	1	2	2
Paratyphoid fever	2	3	4	1	0	3	1	0	1	4	2	2	1
Pertussis	25	67	66	102	120	103	81	113	65	138	97	139	173
Rheumatic Fever	3	7	5	2	6	21	6	10	23	5	2	14	5
Rickettsial disease	0	0	1	0	1	4	0	1	0	0	0	0	0
Rubella	1	0	2	2	1	1	0	0	0	3	0	0	0
Salmonellosis	92	97	108	114	85	60	58	127	137	144	159	146	119
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	8	8	6	6	10	7	5	4	7	8	15	18	16
Tetanus	0	0	0	0	0	0	0	0	0	1	0	0	0
Tuberculosis	21	29	44	61	31	31	29	26	11	26	30	23	24
Typhoid fever	9	10	2	4	2	1	2	3	0	1	1	6	3
VTEC/STEC infection	2	8	6	5	6	1	6	10	8	20	8	7	5
Yersiniosis	41	53	57	42	49	22	31	49	27	36	34	44	22

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 - December 2006

Cases this month

Current 12-month rate¹

Disease	Cases for December 2006, 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	0			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	0	0.9			0.3	0	0	0	0	1.4	0	0	1.3	0	0	0	1.3	4.4	0	0	1.0
Campylobacteriosis	21	253	146	137	125	38	52	3	39	51	22	36	47	129	7	26	8	188	19	42	28
	260.4	538.9	490.6	411.1	382.7	426.1	354.7	122.9	454.2	360.8	366.3	231.6	460.4	580.8	233.0	280.1	247.8	442.8	541.9	429.3	401.6
Cryptosporidiosis	1	7	3	4	1	2	0	0	1	1	0	0	1	2	0	1	1	5	1	2	0
	17.1	11.6	9.2	6.7	29.9	16.7	14.0	15.9	14.6	11.1	29.9	37.4	21.2	21.1	65.4	19.6	52.9	20.6	77.7	25.8	30.0
Dengue fever	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0	0.2	0.3	0	0	0	1.1	0	0	0	0	0	0.8	3.3	0	0.8	0	0.5	0	1.2	1.0
Gastroenteritis	0	4	0	3	2	1	1	0	2	0	0	13	1	2	1	0	0	23	0	3	1
	2.1	18.4	22.6	14.1	17.9	14.6	9.5	0	5.8	13.9	70.7	148.4	26.5	29.3	2.6	19.6	16.5	31.1	11.4	16.4	14.5
Giardiasis	1	4	13	4	20	0	3	0	0	2	1	1	2	9	0	2	0	5	3	5	2
	48.5	27.5	43.0	27.4	42.2	38.5	37.0	18.2	11.6	36.2	36.2	21.3	25.0	39.9	36.6	31.0	16.5	25.8	30.3	29.9	31.9
H. influenzae 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	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.9	3.5	2.7	10.1	0.9	3.1	1.7	2.3	1.0	0	4.7	1.3	1.5	1.6	2.6	0.8	0	7.0	0	0.6	1.0
Hepatitis B	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0.7	2.6	1.9	3.2	0.6	1.0	0	2.3	1.9	1.4	1.6	0.6	0.8	1.2	2.6	0.8	0	4.0	1.9	0.6	0
Hepatitis C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	0	0.2	0.3	0	0	1.0	0.6	2.3	5.8	0.7	0	0	1.5	1.2	0	0	3.3	3.5	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	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	1.4	1.2	1.4	0.8	2.5	7.3	1.7	4.6	2.9	2.1	1.6	1.9	3.8	2.0	2.6	0.8	0	3.5	1.9	2.9	0
Legionellosis	0	1	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	2	0
	1.4	1.6	1.1	2.7	0.6	1.0	2.2	2.3	1.0	1.4	0	0	2.3	1.6	5.2	1.6	0	1.2	0	2.9	1.9
Leprosy	0	1	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	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	8.6	0.2	0	0.3	2.5	1.0	4.5	4.6	5.8	6.3	7.9	3.9	1.5	0.4	13.1	2.4	6.6	2.3	5.7	1.2	1.0
Listeriosis	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	0.7	0.9	0.3	0.8	0.3	0	0.6	0	0	1.4	0	0.6	0.8	0.4	0	0.8	0	0	1.9	0	1.0
Malaria	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.2	1.1	1.9	1.6	1.0	0	0	0	0.7	0	0	1.5	0.4	0	0.8	3.3	0.9	1.9	0.6	0
Measles	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.5	0.5	0	0	0	0.6	0	0	0	0	0	0	0.8	0	1.6	6.6	1.6	0	0	1.0
Meningococcal disease ⁵	1	1	1	4	4	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0
	6.4	1.4	4.1	6.9	8.5	2.1	1.7	6.8	2.9	2.8	0	4.5	4.6	2.8	5.2	4.1	0	4.0	1.9	5.3	5.8
Mumps	0	2	0	1	0	1	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0
	0.7	1.4	1.4	2.1	0.6	2.1	2.2	0	0	1.4	3.1	1.9	1.5	0.8	2.6	0.8	0	1.4	1.9	1.2	0
Paratyphoid fever	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	0	0.5	0.5	2.7	0.3	1.0	0.6	0	0	0.7	0	0	0.8	0.4	0	1.6	0	0	0	0.6	0
Pertussis	0	0	3	1	3	0	2	1	0	0	0	0	1	3	0	1	0	10	0	0	0
	4.3	3.3	4.1	2.9	87.2	24.0	44.9	70.5	3.9	13.2	4.7	11.0	31.9	38.6	10.5	49.8	52.9	70.7	37.9	15.2	48.4
Rheumatic fever	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
	10.0	0.7	1.6	9.3	3.1	4.2	0.6	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	1	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	0.7	0	0	1.9
Salmonellosis	2	11	9	6	17	1	3	0	4	3	2	1	1	7	2	2	0	11	3	3	4
	31.4	30.0	29.6	25.6	41.9	17.7	29.7	18.2	44.6	48.1	23.6	22.6	30.3	48.4	41.9	38.4	16.5	35.4	70.1	49.8	70.6
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	2	2	2	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	2.1	4.4	5.7	3.7	1.3	2.1	1.1	0	0	2.1	7.9	0	0.8	3.7	0	5.7	3.3	2.1	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	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	1	0	5	2	4	0	0	0	0	1	0	1	1	2	0	1	0	3	0	0	0
	21.4	7.2	15.5	17.8	11.0	2.1	5.1	0	3.9	5.6	3.1	20.6	6.1	13.0	5.2	4.1	6.6	5.6	5.7	4.1	1.9
Typhoid fever	0	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	2.1	0.3	4.5	2.5	0	0.6	0	0	0	0	0	1.5	0	0	1.6	0	0	0	0	0
VTEC / STEC	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	3.6	2.8	0.8	1.1	5.0	3.1	1.1	2.3	1.9	2.1	0	0.6	0	0	0	4.9	0	3.5	7.6	3.5	3.9
Yersiniosis	0	5	2	3	3	0	3	0	0	0	0	1	2	9	0	1	2	7	0	3	0
	6.4	9.5	11.7	9.1	10.4	20.8	16.8	9.1	6.8	7.0	14.1	6.5	6.1	28.1	2.6	14.7	29.7	20.8	18.9	15.8	3.9

1 Current rate is based on the cumulative total for the 12 months up to and including December 2006 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.