
MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 1 August 2006. 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

- *Hepatitis A*: 10 cases of Hepatitis A were notified in August 2006 compared to five notified cases in the same month of the previous year. The cases were reported from Counties Manukau (5), Lakes (2), Waikato (1), Bay of Plenty (1), and Wairarapa (1) DHBs. Two cases had been to Fiji during the incubation period, one of whom had exposure to human sewage. Two additional cases had exposure to human sewage in New Zealand.
- *Influenza*: during August 2006 (weeks 31 – 34), 953 consultations for influenza-like illness were reported from 80 general practices (on average) in 23 out of 24 health districts. The average weekly consultation rate for August was 69.9 per 100 000 patient population, compared to a rate of 32.4 per 100 000 patient population during the same month last year (Figure 1). South Canterbury had the highest consultation rate (257.0 per 100 000), followed by Hawke's Bay (174.6 per 100 000). A total of 236 swabs were received for testing during August. Of these, 72 influenza viruses were isolated, 39 as influenza A (yet to be sub-typed), 25 as A/New York/55/2004 (H3N2) - like, and eight as A/New Caledonia/20/1999 (H1N1) - like.

In addition, 142 influenza viruses were reported from the laboratory-based (non-sentinel) surveillance, 134 as influenza A (yet to be sub-typed), six as A/New York/55/2004 (H3N2) - like, one as A/New Caledonia/20/1999 (H1N1) - like, and one as influenza B (not typed).

- *Meningococcal disease*: based on the earliest date available¹, 18 cases of meningococcal disease were notified during August 2006, of which 16 (88.9%) were laboratory-confirmed, and one was fatal. In comparison, 27 cases were notified the previous month, July 2006, and 13 cases were notified during the same month last year August 2005. For the 12 month period ending 31 August 2006, Wairarapa DHB recorded the highest incidence rate of 10.5 per 100 000 population (4 cases). The highest age-specific incidence rate was in infants aged less than one year (62.2 per 100 000 population, 34 cases), followed by those in the 15-19 years age group (12.8 per 100 000 population, 34 cases), and those in the 1-4 years age group (11.1 per 100 000 population, 24 cases).
- *Pertussis*: 119 pertussis cases were notified in August 2006, of whom 11 (9.2%) were laboratory-confirmed. The number of pertussis notifications per month has decreased from the peak in November 2004 when 613 cases were notified. Of the 119 cases notified in August 2006, three were reported as being hospitalised. Canterbury DHB had the highest number of cases (36). For the 12 month period ending 31 August 2006, Canterbury DHB had the highest incidence rate of 144.9 per 100 000 population (619 cases), compared to the national rate of 46.0 per 100 000 population. Over this period the incidence rate by age group was highest amongst infants aged less than one year (111.6 per 100 000 population). This was followed by children in the 10-14 years age group (73.3 per 100 000 population) and the 5-9 years age group (61.1 per 100 000 population).
- *Rickettsial disease*: one confirmed case was notified in August 2006 bringing the year to date total to six (5 confirmed, 1 under investigation). All cases notified this year have been from Waikato DHB. The cases ranged in age from 35 to 69 years. Of the five confirmed cases, four did not travel overseas during the incubation period implying locally acquired infection. The travel history of the fifth case is unknown.
- *Shigellosis*: 12 shigellosis cases were notified in August 2006 compared to nine cases notified in the same month of the previous year. The cases were from Counties Manukau (3), Nelson Marlborough (3), Northland (2), Canterbury (2), Hutt (1), and Otago (1) DHBs. For 10 of the 12 cases the ESR Enteric Reference Laboratory received an isolate. The species involved were: *Shigella flexneri* 2b (4), *S. flexneri* 1 (1), *S. flexneri* 1b (1), *S. flexneri* 2a (1), *S. flexneri* 3c (1), *S. flexneri* 4b (1), and *S. flexneri* 6a (1). Four cases had been overseas during the incubation period. The countries visited were: Fiji (2), United States of America and Mexico (1), and India (1).
- *Yersiniosis*: 48 yersiniosis cases were notified in August 2006 compared to 40 cases notified in the same month of the previous year. Canterbury DHB had the highest number of cases (9), followed by Capital and Coast (8) DHB. Three cases had been overseas during the incubation period. The countries

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.

visited were: Fiji (1), and South Africa (1) and one case had been on a Pacific cruise.

2. Outbreaks

Completed outbreak reports

ESR received eight completed reports via EpiSurv for outbreaks during August. These are summarised in the table below.

Summary of completed outbreaks reported to ESR during August 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Auckland	1	3
Chlorine poisoning	Wellington	1	30
<i>Cryptosporidium parvum</i>	Auckland	1	7
<i>Giardia</i>	Auckland	2	4
Norovirus	Auckland	1	2
Rotavirus	Waikato	1	8
<i>Shigella</i>	Auckland	1	3
Total		8	57

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 August 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Cryptosporidium parvum</i>	Auckland	1	4
Gastroenteritis	Auckland	22	107
<i>Neisseria meningitidis</i>	Wellington	1	2
Norovirus	Taranaki	1	2
Total		25	115

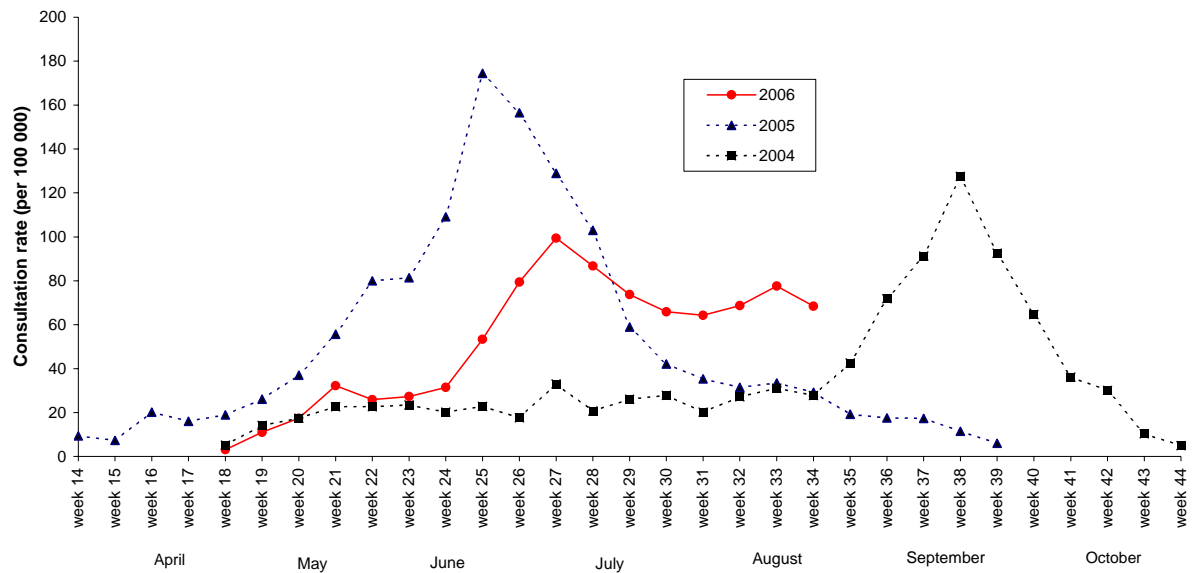
3. Deaths from notifiable diseases

The table below shows the deaths from notifiable diseases reported during August.

Disease	District Health Board	Age group	Sex
Campylobacteriosis	Waikato	70+ years	M
Meningococcal disease	Waikato	1-4 years	M

4. Trends in selected diseases to August 2006

Figure 1: Weekly consultation rates for influenza-like illness in New Zealand, 2004, 2005 and 2006



5. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2006 ²			Previous year - 2005		
	Aug 2006 cases	Cumulative total since 1 January	Current 12-month rate ³	Aug 2005 cases	Cumulative total since 1 January	Previous 12-month rate ³
AIDS ⁴	1	18	0.7	4	37	1.4
Campylobacteriosis	1214	10249	435.7	1262	7801	329.4
Cryptosporidiosis	58	263	21.4	72	351	21.5
Dengue fever	0	11	0.3	1	9	0.2
Gastroenteritis ⁵	55	700	22.6	42	412	23.1
Giardiasis	106	851	32.9	123	853	35.1
<i>H. influenzae</i> type b disease	0	9	0.3	2	5	0.2
Hepatitis A	10	104	3.4	5	29	1.0
Hepatitis B (acute) ⁶	3	44	1.9	3	34	1.1
Hepatitis C (acute) ⁶	5	21	0.8	3	21	0.7
Hydatid disease	0	0	0.1	0	0	0
Influenza ⁷	286	709	20.3	51	792	42.6
Lead absorption	8	59	2.1	4	51	2.2
Legionellosis	8	43	1.9	10	58	2.0
Leprosy	0	3	0.1	0	1	0.1
Leptospirosis	11	63	2.4	10	59	2.3
Listeriosis	3	12	0.5	2	12	0.5
Malaria	7	22	0.7	0	28	1.0
Measles	1	11	0.5	3	11	0.7
Meningococcal disease ⁸	19	109	4.4	18	169	8.1
Mumps	7	28	1.4	12	38	1.5
Paratyphoid fever	0	13	0.5	3	20	0.8
Pertussis	119	855	46.0	201	1854	109.7
Rheumatic fever	5	85	3.1	10	50	1.9
Rickettsial disease	1	6	0.2	0	1	0
Rubella	3	8	0.3	2	10	0.5
Salmonellosis	84	917	38.1	107	876	32.4
SARS	0	0	0	0	0	0
Shigellosis	12	76	4.7	9	83	3.5
Tetanus	0	1	0	0	1	0.1
Tuberculosis	32	205	8.2	36	238	10.1
Typhoid fever	2	16	0.5	2	26	0.9
VTEC / STEC infection	6	66	2.4	10	67	2.5
Yersiniosis	48	290	11.6	40	262	9.6

Notes: ¹ Other notifiable infectious diseases reported in August: Nil

² These data are provisional.

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

Disease	Aug 2006	Jul 2006	Jun 2006	May 2006	Apr 2006	Mar 2006	Feb 2006	Jan 2006	Dec 2005	Nov 2005	Oct 2005	Sep 2005	Aug 2005
AIDS ²	1	1	2	1	1	2	7	3	1	1	4	3	4
Campylobacteriosis	1214	1073	1291	1480	832	1265	1464	1630	1610	1666	1372	1387	1262
Cryptosporidiosis	58	26	29	33	23	28	23	43	26	107	229	176	72
Dengue fever	0	1	2	3	0	3	1	1	1	0	0	1	1
Gastroenteritis ³	55	77	59	124	60	125	140	60	18	43	44	40	42
Giardiasis	106	110	105	129	84	118	100	99	106	98	81	93	123
Haemophilus influenzae type b	0	0	3	2	3	1	0	0	0	0	1	1	2
Hepatitis A	10	5	7	7	11	16	15	33	7	7	3	5	5
Hepatitis B (acute) ⁴	3	6	7	8	3	7	2	8	9	4	7	6	3
Hepatitis C (acute) ⁴	5	1	4	1	2	2	3	3	2	2	2	2	3
Hydatid disease	0	0	0	0	0	0	0	0	0	1	0	1	0
Influenza ⁵	286	293	114	8	3	4	0	1	3	3	3	40	51
Lead absorption	8	2	8	8	9	5	8	11	6	4	4	6	4
Legionellosis	8	4	5	4	7	4	8	3	9	5	9	4	10
Leprosy	0	1	0	0	0	1	0	1	1	0	0	0	0
Leptospirosis	11	8	6	6	6	5	13	8	5	2	13	7	10
Listeriosis	3	0	2	0	0	1	0	6	3	3	0	2	2
Malaria	7	3	1	2	0	4	3	2	1	2	0	1	0
Measles	1	0	0	1	2	1	5	1	0	3	5	0	3
Meningococcal disease ⁶	19	30	12	9	8	14	9	8	11	17	16	13	18
Mumps	7	1	5	3	3	6	1	2	2	5	9	7	12
Paratyphoid fever	0	3	1	0	1	4	2	2	1	0	3	1	3
Pertussis	119	103	82	112	65	138	97	139	173	216	253	223	201
Rheumatic Fever	5	21	5	10	23	5	2	14	5	6	14	4	10
Rickettsial disease	1	4	0	1	0	0	0	0	0	0	0	0	0
Rubella	3	1	0	0	1	3	0	0	0	1	1	1	2
Salmonellosis	84	60	59	127	138	144	159	146	119	131	124	132	107
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	12	7	5	4	7	8	15	18	16	53	24	7	9
Tetanus	0	0	0	0	0	1	0	0	0	0	0	0	0
Tuberculosis	32	31	27	26	10	26	30	23	24	27	30	22	36
Typhoid fever	2	1	2	3	0	1	1	6	3	1	0	0	2
VTEC/STEC infection	6	1	6	10	8	20	8	7	5	4	10	6	10
Yersiniosis	48	22	31	49	27	35	34	44	22	51	44	28	40

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 - August 2006

Cases this month

Current 12-month rate¹

	Cases for August 2006, ² and current rate ^{1,2} by District Health Board ^{3,4}																					
Disease	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	
	0.7	0.9			0.6					2.1				1.3			1.3	4.4			1.0	
Campylobacteriosis	34	169	134	136	119	31	66	1	48	47	20	30	52	108	9	20	3	99	19	45	24	
	274.0	495.6	467.4	391.2	420.8	443.8	354.7	184.3	492.0	387.3	341.1	218.7	464.2	591.4	267.0	316.8	267.6	499.4	632.8	528.9	464.5	
Cryptosporidiosis	5	4	4	0	14	0	3	0	0	2	1	1	2	10	1	1	1	6	1	2	0	
	18.6	7.7	9.8	6.7	29.6	32.3	18.0	20.5	18.4	27.2	33.0	23.9	21.2	25.2	44.5	20.4	79.3	26.0	96.6	26.9	33.9	
Dengue fever	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	0	0	0	0	0	0	0	0.8	2.0	0	0.8	0	0.2	0	1.2	1.0	
Gastroenteritis	0	7	9	5	3	0	0	0	1	2	0	0	3	9	0	1	0	5	0	7	3	
	1.4	16.8	22.0	14.4	17.3	11.5	8.4	0	4.9	10.4	77.0	129.0	23.5	31.7	2.6	17.1	6.6	22.9	3.8	14.1	28.1	
Giardiasis	11	10	16	5	11	5	8	0	0	5	3	1	6	9	0	2	0	9	1	3	1	
	43.5	27.0	41.3	31.7	37.5	44.8	38.7	27.3	9.7	34.1	26.7	26.5	25.0	47.6	34.0	31.8	9.9	28.1	26.5	29.3	31.0	
<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	0.3	0.3	1.0	1.1	0	0	0	0	0	0	0.4	0	0	0	0.2	1.9	0	1.0	
Hepatitis A	0	0	0	5	1	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	4.3	2.6	2.2	9.3	1.6	4.2	1.1	2.3	1.0	0	4.7	1.3	1.5	1.6	2.6	0.8	0	8.9	0	1.2	0	
Hepatitis B	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	2.1	2.7	3.5	0.6	1.0	1.7	0	1.0	0.7	1.6	0.6	0	0.8	2.6	0	0	4.4	0	2.3	1.0	
Hepatitis C	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	0	0	0	
	0.7	0.2	0.5	0	0	3.1	0	2.3	2.9	0.7	0	0	1.5	0.8	0	0	3.3	2.6	0	0.6	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	0.2	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	
Lead absorption	0	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	
	1.4	0.9	1.9	0.5	2.8	5.2	1.1	2.3	2.9	1.4	4.7	1.3	4.6	3.7	2.6	0.8	0	3.7	3.8	1.2	0	
Legionellosis	0	0	0	3	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	1	0	
	3.6	1.6	1.4	2.9	0.9	0	3.9	0	1.0	0	0	0	3.8	1.6	2.6	1.6	0	2.3	1.9	2.9	2.9	
Leprosy	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	0.3	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Leptospirosis	0	0	0	1	1	0	0	1	0	1	0	1	2	0	0	0	0	3	0	0	1	
	6.4	0.2	0	0.5	3.5	2.1	5.6	4.6	1.9	4.9	4.7	7.1	1.5	0.4	7.9	0.8	9.9	2.3	7.6	2.3	1.9	
Listeriosis	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	0.7	0.9	0.3	1.6	0	1.0	0.6	0	0	1.4	0	0.6	0	0.4	0	1.6	0	0	0	0	0	
Malaria	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	1	0	3	0	0	0	
	0	0.2	0.8	1.1	1.3	1.0	0	0	0	0.7	0	0	1.5	1.2	0	0.8	3.3	0.9	0	0.6	0	
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	0	0.7	0.3	0	0	0	1.1	0	0	0	1.6	0.6	0	0	0	1.6	6.6	1.2	1.9	0	1.0	
Meningococcal disease ⁶	0	0	1	2	2	1	0	1	0	1	0	2	1	1	1	0	0	1	0	1	4	
	1.4	2.6	4.1	5.9	8.8	3.1	2.8	4.6	2.9	3.5	0	5.8	4.6	1.6	10.5	5.7	0	5.2	3.8	5.3	6.8	
Mumps	0	0	0	2	0	0	1	0	0	0	1	1	1	0	0	1	0	0	0	0	0	
	1.4	1.4	0.8	2.9	0.3	0	2.2	0	0	4.2	4.7	0.6	0.8	0.4	0	1.6	0	1.2	1.9	2.3	0	
Paratyphoid fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.7	0.3	1.6	0	1.0	1.1	0	0	0.7	0	0	0	0.8	0	0.8	0	0	0	0	1.0	
Pertussis	0	1	0	1	30	2	8	1	0	2	1	3	5	5	1	11	0	36	4	4	4	
	6.4	7.0	2.4	4.5	108.9	37.5	70.2	63.7	4.9	35.5	4.7	11.0	34.1	32.9	7.9	58.8	62.8	144.9	134.5	34.0	73.5	
Rheumatic fever	0	0	0	0	1	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	
	7.8	0.7	1.9	13.6	3.1	5.2	1.1	2.3	0	4.9	3.1	0.6	3.0	3.7	0	0	0	0.2	0	0	0	
Rickettsial disease	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	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rubella	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	
	0	0.2	0.3	0	0	0	1.7	0	0	0	0	1.9	0	0	0	0	0	0.2	0	0	1.9	
Salmonellosis	3	10	7	5	11	2	2	0	0	12	0	3	2	9	1	3	0	2	1	6	5	
	40.7	30.2	28.8	30.1	41.5	26.0	33.7	18.2	43.7	54.3	31.4	21.3	30.3	49.6	34.0	38.4	19.8	38.6	81.5	62.7	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	2	0	0	3	0	0	0	0	0	0	0	0	1	0	0	3	0	2	0	1	0	
	33.5	4.9	7.9	5.9	1.3	1.0	2.8	0	1.0	2.1	6.3	0	3.0	4.1	0	4.1	3.3	2.6	5.7	2.9	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	5	4	7	2	1	0	0	0	0	0	2	3	2	0	1	0	3	0	1	0	
	10.7	10.5	14.7	14.6	7.2	5.2	2.8	0	1.9	4.9	4.7	10.3	6.8	12.2	2.6	1.6	0	5.9	3.8	4.1	1.9	
Typhoid fever	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	0.7	0.5	1.6	0.9	0	0	0	0	0	0	0	1.5	0	0	1.6	0	0	1.9	0	0	
VTEC / STEC	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	0	
	2.9	2.3	1.1	1.3	5.0	3.1	1.7	0	1.9	2.1	0	0.6	0	0	0	4.9	3.3	3.5	7.6	5.3	4.8	
Yersiniosis	2	4	5	4	2	2	4	0	0	1	1	1	1	8	0	2	0	9	1	2	0	
	6.4	9.1	10.6	8.8	7.9	15.6	12.3	11.4	3.9	9.1	12.6	5.8	3.8	24.8	0	13.1	23.1	18.7	18.9	16.4	6.8	

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