
MONTHLY SURVEILLANCE REPORT

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

- *Campylobacter*: 1425 campylobacter cases were notified in May 2006 compared to 748 cases notified in the same month of the previous year (Figure 1). Waitemata DHB recorded the highest number of cases (204). Overall, 51 cases were hospitalised. During the incubation period, 70 (4.9%) consumed food at a food premise (131/1425 completed data field), 15 (1.1%) had faecal contact (159/1425 completed data field), 13 (0.9%) consumed untreated water (149/1425 completed data field), 12 (0.8%) had recreational water contact (164/1425 completed data field), 9 (0.6%) had contact with a case (276/1425 completed data field) and 7 (0.5%) had contact with sick animal (134/1425). For the 12 month period ending 31 May 2006, South Canterbury DHB recorded the highest annual incidence rate of 651.7 per 100 000 population (344 cases) compared to the national rate of 416.2 per 100 000 population.

Campylobacter notifications doubled during the last three weeks of May 2006. When compared to the previous three years, the “campy season” beginning in November of 2005 to the end of May 2006 represented a 24% increase above the expected notification rate for that season. The increase of 1891 extra notifications for the season was highly significant, $p < 0.001$. Regional differences were not significant. Age groups most likely to be affected by the increase were 15 to 19 years and 40 to 79 years.

- *Gastroenteritis*: 93 gastroenteritis cases were notified in May 2006 compared to 54 cases notified in the same month of the previous year. The highest numbers of cases were reported from MidCentral (34 cases) DHB. Forty-seven of the notified cases were identified as being part of an outbreak.

- *Hepatitis A*: seven cases of Hepatitis A were notified in May 2006 compared to zero cases notified in the same month of the previous year. The cases were reported from Waitemata (2), Counties Manukau (2), one each in Northland, Waikato, and Capital and Coast DHBs. One case had been overseas (Samoa) during the incubation period.
- *Influenza*: during May 2006 (weeks 18 – 21), 222 consultations for influenza-like illness were reported from 64 general practices (on average) in 21 out of 24 health districts. The average weekly consultation rate for May was 19.1 per 100 000 patient population, compared to a rate of 34.6 per 100 000 patient population during the same month last year (Figure 2). Hutt had the highest consultation rate (83.5 per 100 000), followed by Tauranga (54.8 per 100 000). A total of 68 swabs were received for testing during May. Of these, five influenza viruses were isolated, three as A/New York/55/2004 (H3N2) - like, one as A/California/7/2004 (H3N2) - like, and one as influenza B/Shanghai/361/2002-like.

In addition, 10 influenza viruses were reported from the laboratory-based (non-sentinel) surveillance in May, eight as influenza A (yet to be sub-typed), and two as A/New York/55/2004 (H3N2) – like.

- *Meningococcal disease*: based on the earliest date available¹, nine cases of meningococcal disease were notified during May 2006, of which 7 (77.8%) were laboratory-confirmed, and none were fatal. In comparison, seven cases were notified the previous month, April 2006, and 20 cases were notified during the same month last year May 2005. For the 12 month period ending 31 May 2006, both Waikato and Otago DHBs recorded the highest incidence rate of 8.8 per 100 000 population (28 and 15 cases respectively). The highest age-specific incidence rate was in infants aged less than one year (56.7 per 100 000 population, 31 cases), followed by those in the 1-4 years age group (12.5 per 100 000 population, 27 cases).

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.

2. Outbreaks

Completed outbreak reports

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

Summary of completed outbreaks reported to ESR during May 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
Gastroenteritis	AK, HB	2	14
Norovirus	HB, OT	2	49
Total		4	63

AK=Auckland; HB=Hawke's Bay; OT=Otago

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 May 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	AK	4	10
Gastroenteritis	AK, WN	13	50
<i>Giardia</i>	AK	4	12
Norovirus	WN, NN	2	21
<i>Shigella</i>	AK	1	2
Total		24	95

AK=Auckland; WN=Wellington, NN=Nelson

3. Deaths from notifiable diseases

No deaths were reported this month.

4. Trends in selected diseases to May 2006

Figure 1: Campylobacteriosis notifications by month, January 2001 to May 2006

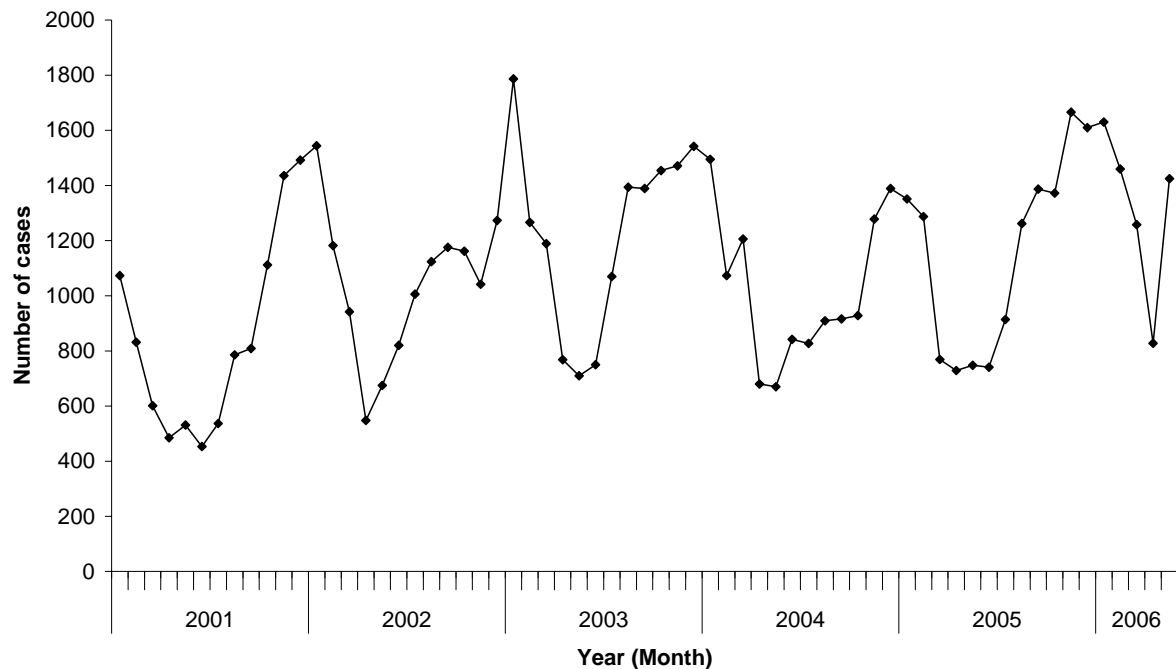
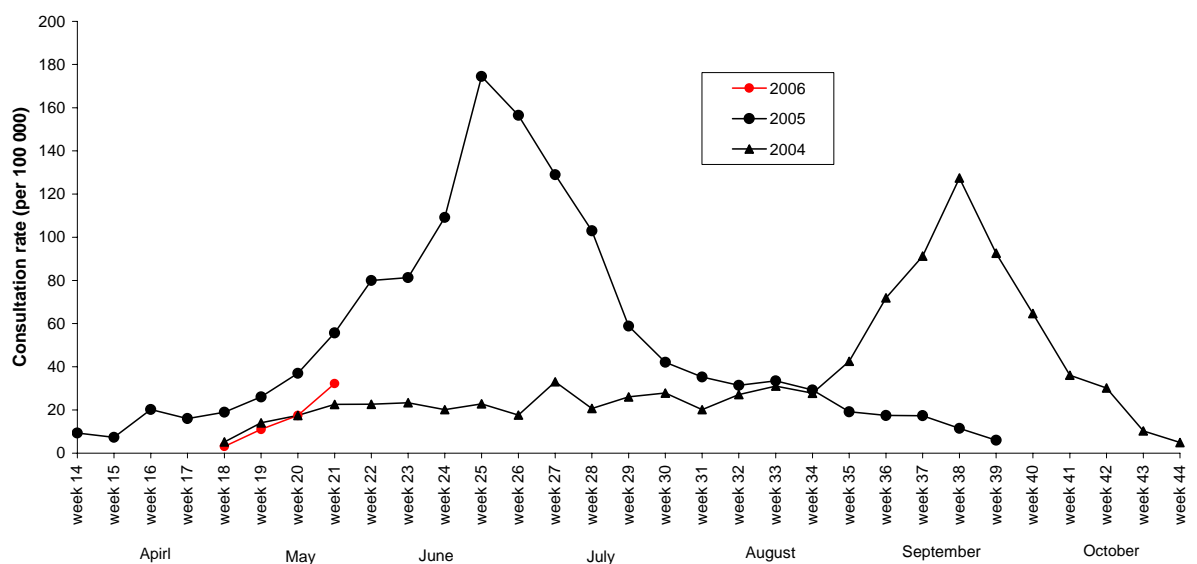


Figure 2: Weekly consultation rates for influenza-like illness in New Zealand, 2004, 2005 and 2006



4. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2006 ²			Previous year - 2005		
	May 2006 cases	Cumulative total since 1 January	Current rate ³	May 2005 cases	Cumulative total since 1 January	Previous rate ³
AIDS ⁴	1	14	0.8	13	30	1.5
Campylobacteriosis	1425	6601	416.2	748	4884	320.4
Cryptosporidiosis	34	151	21.9	45	220	20.0
Dengue fever	3	8	0.4	0	3	0.1
Gastroenteritis ⁵	93	464	19.9	54	278	28.2
Giardiasis	121	520	32.3	118	543	36.7
<i>H. influenzae</i> type b disease	2	6	0.3	1	3	0.2
Hepatitis A	7	81	3.1	0	18	1.0
Hepatitis B (acute) ⁶	7	27	1.8	4	20	1.1
Hepatitis C (acute) ⁶	1	11	0.8	3	10	0.5
Hydatid disease	0	0	0.1	0	0	0
Influenza ⁶	8	16	21.1	45	70	25.3
Lead absorption	8	41	2.2	5	31	2.2
Legionellosis	6	27	2.1	9	34	1.7
Leprosy	0	2	0.1	0	1	0.1
Leptospirosis	6	39	2.4	4	35	2.3
Listeriosis	0	7	0.5	0	8	0.5
Malaria	2	11	0.5	6	23	1.0
Measles	3	12	0.7	3	6	0.6
Meningococcal disease ⁸	9	47	5.0	16	87	8.6
Mumps	3	16	1.6	4	18	1.3
Paratyphoid fever	0	9	0.5	3	14	0.7
Pertussis	102	516	51.5	172	1310	114.5
Rheumatic fever	10	55	2.8	5	30	2.1
Rickettsial disease	1	1	0.1	0	0	0
Rubella	0	4	0.3	3	5	0.5
Salmonellosis	123	711	39.7	96	609	31.3
SARS	0	0	0	0	0	0
Shigellosis	4	52	4.9	19	53	3.7
Tetanus	0	1	0	0	1	0.1
Tuberculosis	27	118	8.3	33	151	10.3
Typhoid fever	3	11	0.7	3	14	0.9
VTEC / STEC infection	11	55	2.6	5	51	2.6
Yersiniosis	47	187	11.5	34	166	9.6

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

² These data are provisional.

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

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 May 2006 and preceding 12 months¹

Disease	May 2006	Apr 2006	Mar 2006	Feb 2006	Jan 2006	Dec 2005	Nov 2005	Oct 2005	Sep 2005	Aug 2005	Jul 2005	Jun 2005	May 2005
AIDS ²	1	1	2	7	3	1	1	4	3	4	1	3	13
Campylobacteriosis	1425	828	1258	1460	1630	1610	1666	1372	1387	1262	914	741	748
Cryptosporidiosis	34	23	28	23	43	26	107	229	176	72	26	33	45
Dengue fever	3	0	3	1	1	1	0	0	1	1	4	1	0
Gastroenteritis ³	93	59	117	135	60	18	43	44	40	42	36	56	54
Giardiasis	121	83	117	100	99	106	98	81	93	123	97	90	118
Haemophilus influenzae type b	2	3	1	0	0	0	0	1	1	2	0	0	1
Hepatitis A	7	10	16	15	33	7	7	3	5	5	4	2	0
Hepatitis B (acute) ⁴	7	3	7	2	8	9	4	7	6	3	6	5	4
Hepatitis C (acute) ⁴	1	2	2	3	3	2	3	2	2	3	1	7	3
Hydatid disease	0	0	0	0	0	0	1	0	1	0	0	0	0
Influenza ⁵	8	3	4	0	1	3	3	3	40	51	393	278	45
Lead absorption	8	9	5	8	11	6	4	4	6	4	6	10	5
Legionellosis	6	6	4	8	3	9	5	9	4	10	12	2	9
Leprosy	0	0	1	0	1	1	0	0	0	0	0	0	0
Leptospirosis	6	7	5	13	8	5	2	13	7	10	7	7	4
Listeriosis	0	0	1	0	6	3	3	0	2	2	2	0	0
Malaria	2	0	4	3	2	1	2	0	1	0	3	2	6
Measles	3	2	1	5	1	0	3	5	0	3	1	1	3
Meningococcal disease ⁶	9	7	14	9	8	11	17	16	13	18	36	28	16
Mumps	3	3	7	1	2	2	5	9	7	12	5	3	4
Paratyphoid fever	0	1	4	2	2	1	0	3	1	3	1	2	3
Pertussis	102	66	113	95	140	173	216	253	223	202	158	185	172
Rheumatic Fever	10	23	6	2	14	5	6	14	4	10	6	3	5
Rickettsial disease	1	0	0	0	0	0	0	0	0	0	1	0	0
Rubella	0	1	3	0	0	0	1	1	1	2	2	1	3
Salmonellosis	123	138	145	159	146	119	131	124	132	107	66	94	96
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	4	7	8	15	18	16	53	24	7	9	10	11	19
Tetanus	0	0	1	0	0	0	0	0	0	0	0	0	0
Tuberculosis	27	10	27	30	24	24	27	30	22	36	21	33	33
Typhoid fever	3	0	1	1	6	3	1	0	0	2	3	7	3
VTEC/STEC infection	11	8	20	8	8	5	4	10	6	10	2	4	5
Yersiniosis	47	27	35	34	44	22	51	44	28	40	32	24	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 - May 2006

Cases this month

Current rate¹

Disease	Cases for May 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	1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	0.8			0.6	1.0	0	0	0	1.4	0	0	1.9	0	0.8	1.9	4.4	0	0	0	1.0	
Campylobacteriosis	24	204	178	145	93	34	50	6	38	40	19	31	74	139	8	27	0	181	33	66	35	
	239.8	452.1	432.4	346.4	395.9	416.7	328.4	195.7	489.1	367.8	308.1	211.6	450.5	556.0	217.3	338.8	304.0	526.4	651.7	511.9	465.5	
Cryptosporidiosis	3	3	1	2	1	1	1	0	0	3	0	0	1	3	2	3	1	5	3	0	1	
	16.4	7.4	8.7	9.1	35.6	41.7	20.2	20.5	18.4	31.3	33.0	25.2	10.6	24.0	39.3	23.7	76.0	24.6	96.6	25.8	35.8	
Dengue fever	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
	0	0.5	0.8	0.5	0	0	0	0	0	0	0	0	0.8	2.0	0	0	0	0	0	1.2	1.0	
Gastroenteritis	0	3	8	1	2	1	4	0	0	9	2	34	5	8	0	4	0	9	0	1	2	
	0.7	14.7	20.4	10.7	16.1	11.5	8.4	0	3.9	9.1	20.4	123.2	19.0	28.1	5.2	17.1	9.9	22.9	5.7	11.1	25.2	
Giardiasis	8	16	8	11	7	5	6	1	0	8	1	3	4	14	0	4	0	16	1	1	7	
	35.7	27.7	39.2	30.9	36.2	38.5	33.1	34.1	9.7	39.7	17.3	32.3	24.3	51.2	23.6	31.8	16.5	30.0	20.8	23.4	33.9	
<i>H. influenzae</i> type b disease	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.2	0	0.3	0.3	0	1.7	0	0	0	0	0	0	0.4	0	0	0	0.5	1.9	0	0	
Hepatitis A	1	2	0	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
	2.9	2.6	2.4	7.5	2.5	2.1	0.6	0	1.0	0	4.7	1.3	1.5	1.6	0	0	0	8.9	0	0.6	0	
Hepatitis B	0	1	0	2	0	0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0	
	0.7	1.9	3.3	3.5	0.3	1.0	1.7	2.3	0	0.7	1.6	0.6	0	0.8	2.6	0	0	4.0	0	1.8	1.0	
Hepatitis C	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1.4	0	0.8	0	0	3.1	0.6	0	2.9	0	0	0	0.8	0	2.6	0	3.3	3.5	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	1	0	1	0	0	2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	
	1.4	0.7	1.4	0.3	3.1	4.2	1.1	2.3	2.9	2.1	4.7	3.9	3.0	3.7	2.6	1.6	0	3.3	3.8	3.5	0	
Legionellosis	2	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	4.3	1.4	1.4	1.1	1.3	0	3.9	0	1.0	0.7	0	0.6	2.3	1.6	2.6	0	3.3	5.9	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	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Leptospirosis	0	0	0	0	0	0	2	0	0	1	0	0	0	0	1	0	1	0	1	0	0	
	5.7	0	0	0.3	3.5	1.0	5.6	6.8	2.9	9.8	3.1	8.4	0	0.4	7.9	0	13.2	1.2	9.5	1.8	2.9	
Listeriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.9	0.5	1.3	0.3	1.0	0.6	0	0	0.7	0	0.6	0	0.4	0	1.6	0	0	0	0	0	
Malaria	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	
	0	0.2	0.5	1.9	0.9	0	0	0	0	0.7	0	0	0	1.2	0	0	3.3	0.2	0	0.6	0	
Measles	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	
	0	0.9	0.8	0.3	0.3	0	1.1	0	0	0.7	1.6	0.6	0	0	0	1.6	6.6	1.4	1.9	0	0	
Meningococcal disease ³	0	0	1	0	2	0	0	1	0	0	0	0	0	1	0	2	0	2	0	0	0	
	2.1	3.5	4.1	6.7	8.8	4.2	3.9	2.3	2.9	4.2	0	7.7	2.3	1.6	7.9	7.3	3.3	5.9	5.7	9.4	2.9	
Mumps	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2.9	1.9	1.4	2.7	0.3	0	1.7	0	0	4.9	3.1	0	0	0.4	0	1.6	0	2.3	1.9	2.3	1.0	
Paratyphoid fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	1.2	0.3	1.6	0	0	1.1	0	0	0.7	0	0	0.8	0.4	0	0.8	0	0.2	0	0	1.0	
Pertussis	0	0	1	2	26	4	6	8	0	0	0	0	4	12	1	1	3	24	0	3	7	
	7.8	8.4	3.5	5.9	101.7	39.6	84.8	27.3	5.8	35.5	3.1	14.2	30.3	21.1	2.6	62.1	59.5	171.2	183.8	67.4	105.5	
Rheumatic fever	3	0	0	0	4	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
	5.7	0.9	1.9	11.2	3.1	3.1	0.6	2.3	0	5.6	1.6	1.9	4.6	3.3	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	0.3	0	0.3	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	0	0	0	0	0	0	0	0	0	0	
	0	0.2	1.1	0.3	0	0	1.7	0	0	0	0	0.6	0	0	0	0.8	0	0.2	0	0	0	
Salmonellosis	4	6	9	3	16	2	6	1	2	3	1	6	5	26	2	3	0	12	4	11	1	
	42.8	30.9	31.8	32.2	43.7	28.1	38.2	27.3	45.6	48.8	29.9	19.4	34.9	48.4	31.4	58.0	29.7	40.5	73.9	58.6	69.7	
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	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	
	33.5	6.0	9.2	6.1	1.9	1.0	2.8	0	1.0	2.1	6.3	0	2.3	3.3	0	0.8	0	2.3	7.6	3.5	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	2	1	8	6	2	0	1	0	0	0	0	0	1	4	0	0	0	1	0	1	0	
	12.8	9.5	18.5	14.6	6.3	5.2	2.2	0	1.9	4.9	9.4	8.4	6.1	13.0	0	2.4	0	4.9	1.9	2.9	1.9	
Typhoid fever	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	
	0	0.7	0.8	3.2	0	0	0	0	0	0	0	0	2.3	0.4	0	1.6	0	0.2	3.8	0	0	
VTEC / STEC	3	1	0	0	3	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	1	
	3.6	1.6	1.1	1.3	6.0	6.3	3.4	0	2.9	2.8	0	0.6	0	0	0	4.9	3.3	2.8	9.5	4.7	3.9	
Yersiniosis	3	3	2	4	7	3	4	0	1	2	1	0	0	7	0	2	0	5	1	2	0	
	3.6	10.0	10.9	8.8	7.6	12.5	8.4	9.1	5.8	8.4	14.1	6.5	3.8	23.6	0	13.1	36.3	18.0	26.5	15.8	6.8	

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