

MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 7 February 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*: 1621 campylobacter cases were notified in January 2006 compared to 1351 cases notified in the same month of the previous year. Canterbury DHB recorded the highest number of cases (243). For the 12 month period ending 31 January 2006, South Canterbury DHB recorded the highest annual incidence rate of 687.7 per 100 000 population (363 cases) compared to the national rate of 377.5 per 100 000 population. Overall, seventy-two cases were hospitalised. During the incubation period, 122 (7.5%) consumed food at a food premise (13.0% completed data field), 49 (3.0%) had recreational water contact (15.2% completed data field), 43 (2.7%) consumed untreated water (14.4% completed data field), and 27 (1.7%) had faecal contact (15.6% completed data field).
- Cryptosporidiosis*: a total of 43 cases of cryptosporidiosis were notified in January 2006 compared to 13 cases notified in the same month of the previous year. Waikato DHB reported the highest number of cases (5). For the 12 month period ending 31 January 2006, South Canterbury DHB had the highest annual incidence rate of 92.8 per 100 000 population (4 cases) compared to a national rate of 24.6 per 100 000 population. During the incubation period, 5 (11.6%) consumed untreated water (25.6% completed data field), 5 (11.6%) had recreational water contact (22.6% completed data field), 4 (11.6%) had faecal contact (39.5% completed data field), and 4 (9.3%) consumed food from a food premise (32.6% completed data field).
- Hepatitis A*: 33 cases of Hepatitis A were notified in January 2006 compared to four notified cases in the same month of the previous year (Figure 1). The cases were reported from Canterbury (25), Auckland (3), Lakes (2), Northland (1), MidCentral (1) and Hutt (1) DHBs. Sixteen of the Canterbury cases were part of an outbreak in a childcare centre, and of these seven had household

contact with another case. Five other cases, three from Auckland and one each from MidCentral and Canterbury DHBs, had been overseas during the incubation period (Iraq, Samoa, Thailand, Vanuatu, Vietnam and Cambodia).

- *Lyme disease*: Although not strictly notifiable but interesting to note, a case of Lyme disease was notified in January 2006. The case was an adult male who was bitten by a tick from a forest deer infected with *Borrelia burgdorferi* while in Czechoslovakia.
- *Meningococcal disease*: based on the earliest date available¹, eight cases of meningococcal disease were notified during January 2006, of which six (75.0%) were laboratory-confirmed, and none were fatal. In comparison, 12 cases were notified the previous month, December 2005, and 22 cases were notified during January 2005. For the 12 month period ending 31 January 2006, Wairarapa DHB recorded the highest incidence rate of 10.5 per 100 000 population (4 cases) while Waikato DHB recorded the highest number of cases (32) with an incidence rate of 10.1 per 100 000 population. The highest age-specific incidence rate was in infants aged less than one year (53.1 per 100 000 population, 29 cases), followed by those in the 1-4 years age group (15.7 per 100 000 population, 34 cases).
- *Pertussis*: 137 pertussis cases were notified in January 2006, of whom 48 (35.0%) were laboratory confirmed. The numbers of pertussis notifications per month have decreased from the peak in November 2004 when 613 cases were notified (Figure 2). Five cases were reported as being hospitalised. Canterbury DHB had the highest number of cases (50). For the 12 month period ending 31 January 2006, South Canterbury DHB had the highest incidence rate of 238.7 per 100 000 population (126 cases), compared to the national rate of 65.2 per 100 000 population. Over this period the incidence rate by age group was highest amongst infants aged less than one year (204.9 per 100 000 population). This was followed by children in the 10-14 years age group (111.1) and the 5-9 years age group (102.4).
- *Salmonellosis*: 146 salmonellosis cases were notified in January 2006 compared to 84 cases notified in the same month of the previous year. Canterbury DHB had the highest number of cases (20 cases). For the 12 month period ending 31 January 2006, Wairarapa DHB had the highest incidence rate of 68.1 per 100 000 population, compared to the national rate of 38.7 per 100 000 population. Fourteen cases were reported as being hospitalised. The ESR Enteric Reference Laboratory received 171 isolates (excluding Paratyphi and Typhi) in January. The predominant types identified were *Salmonella* Typhimurium (STM) phage type 160 (40 isolates), *S. Typhimurium* phage type 1 (17 isolates), and *S. Typhimurium* phage type 156 (13 isolates). The first *S. Wentworth* serotype in New Zealand was isolated this month associated with travel to India. Five of the 40 STM 160 isolates were part of a household cluster in Canterbury.

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.

- *Shigellosis*: 17 shigellosis cases were notified in January 2006 compared to eight cases notified in the same month of the previous year. The cases were from Auckland (5), Waitemata (4), Whanganui (3), Northland (2), Waikato (2), and Canterbury (1) DHBs. For 15 of the 17 cases the ESR Enteric Reference Laboratory received an isolate. The species involved were: *Shigella sonnei* Biotype a (11), *S. sonnei* Biotype g (3), and *S. species* (1).

2. Outbreaks

Completed outbreak reports

ESR received 14 completed reports via EpiSurv for outbreaks during January 2006. These are summarised in the table below.

Summary of completed outbreaks reported to ESR during January 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	AK, NM	3	8
<i>Cryptosporidium parvum</i>	AK	1	2
Gastroenteritis	HB, NM	3	75
<i>Giardia</i>	AK	1	4
Norovirus	WN	2	71
<i>Salmonella</i>	AK	3	6
<i>Shigella</i>	AK	1	2
Total		14	168

AK=Auckland; NM=Nelson-Marlborough; HB=Hawke's Bay; WN=Wellington.

Interim outbreak reports

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

Summary of interim outbreaks reported to ESR during January 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	AK	1	4
Gastroenteritis	AK, RO, TG, OT	17	32
<i>Giardia</i>	OT	1	0
Hepatitis A	CB	1	25
Norovirus	WN	1	0
Typhoid	AK	2	5
Total		23	66

AK=Auckland; RO=Rotorua; TG=Tauranga; OT=Otago; CB=Canterbury; WN=Wellington.

3. Deaths from notifiable diseases

No deaths were reported this month.

4. Trends in selected diseases to January 2006

Figure 1: Hepatitis A notifications by month, January 2001 to January 2006

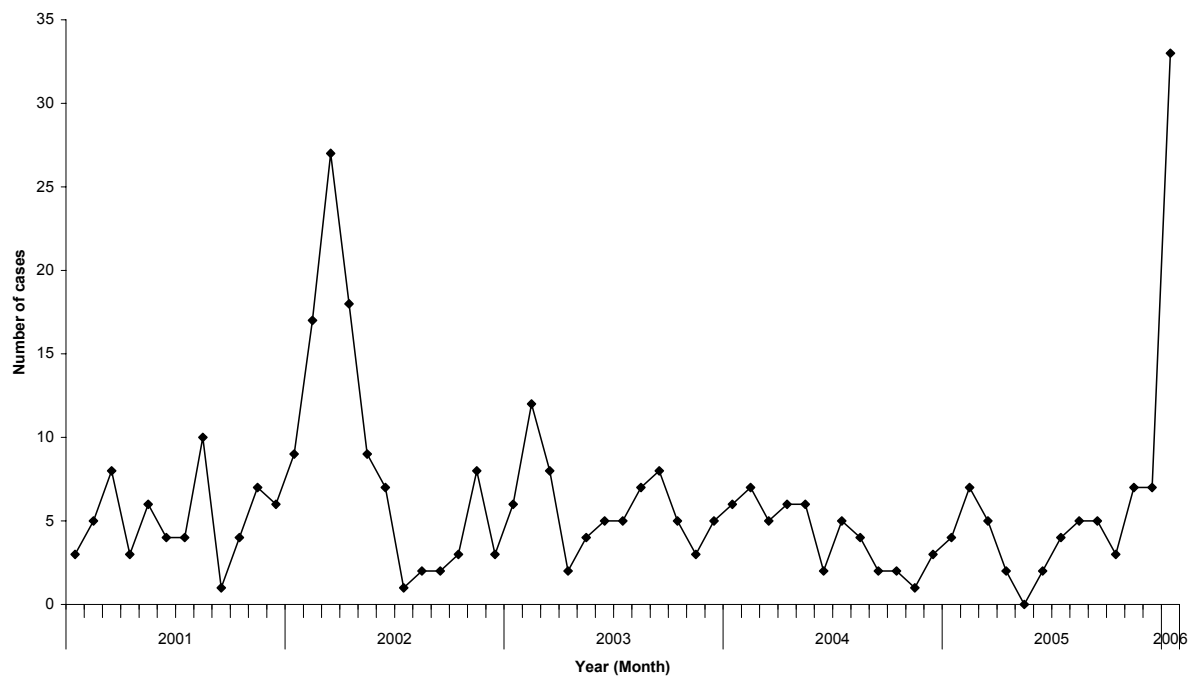
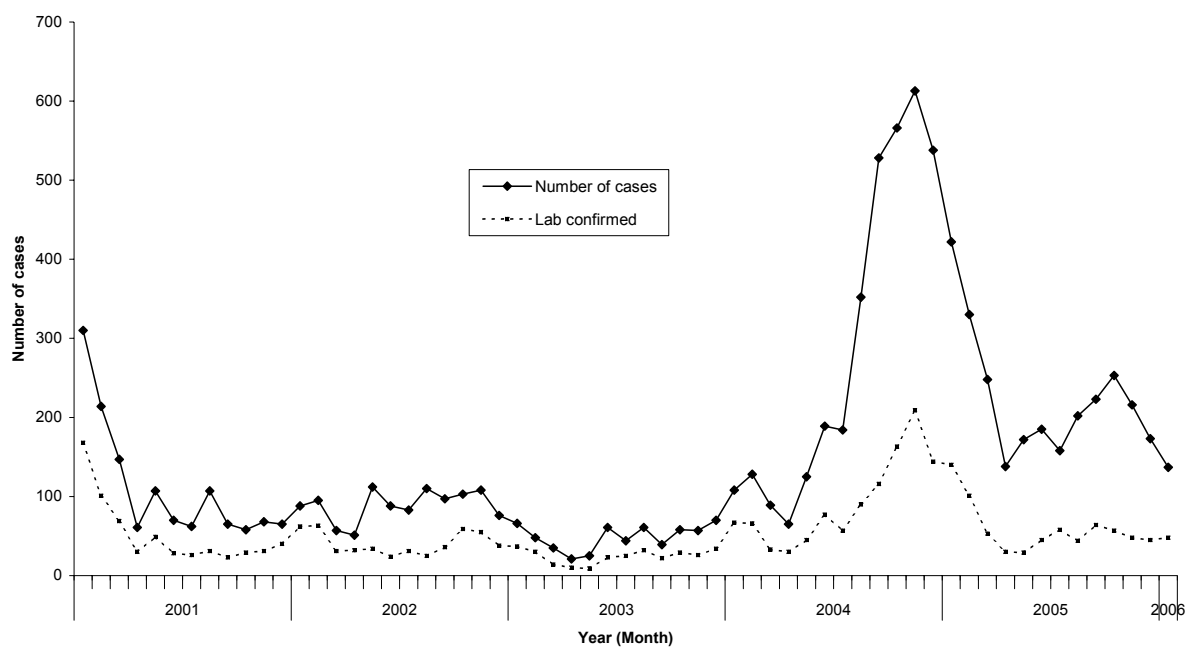


Figure 2: Pertussis notifications and laboratory confirmed cases by month, January 2001 to January 2006



4. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2006 ²			Previous year - 2005		
	Jan 2006 cases	Cumulative total since 1 January	Current rate ³	Jan 2005 cases	Cumulative total since 1 January	Previous rate ³
AIDS ⁴	3	3	1.3	3	3	1.0
Campylobacteriosis	1621	1621	377.5	1351	1351	323.0
Cryptosporidiosis	43	43	24.6	13	13	16.3
Dengue fever	1	1	0.3	1	1	0.2
Gastroenteritis ⁵	63	63	14.5	77	77	35.4
Giardiasis	99	99	33.4	78	78	38.8
<i>H. influenzae</i> type b disease	0	0	0.2	0	0	0.1
Hepatitis A	33	33	2.1	4	4	1.3
Hepatitis B (acute) ⁶	8	8	1.7	5	5	1.1
Hepatitis C (acute) ⁶	3	3	0.8	3	3	0.7
Hydatid disease	0	0	0.1	0	0	0
Influenza ⁶	1	1	22.5	1	1	23.7
Lead absorption	11	11	2.1	3	3	2.4
Legionellosis	3	3	2.2	8	8	1.8
Leprosy	1	1	0.1	1	1	0.1
Leptospirosis	8	8	2.3	7	7	2.7
Listeriosis	6	6	0.6	3	3	0.7
Malaria	2	2	0.8	4	4	0.9
Measles	1	1	0.6	0	0	0.7
Meningococcal disease ⁸	8	8	5.8	20	20	9.2
Mumps	2	2	1.6	3	3	1.2
Paratyphoid fever	2	2	0.6	3	3	0.8
Pertussis	137	137	65.2	422	422	101.7
Rheumatic fever	14	14	2.4	2	2	2.0
Rickettsial disease	0	0	0	0	0	0.1
Rubella	0	0	0.3	0	0	0.5
Salmonellosis	146	146	38.7	84	84	27.3
SARS	0	0	0	0	0	0
Shigellosis	17	17	5.1	8	8	3.6
Tetanus	0	0	0	0	0	0
Tuberculosis	23	23	9.4	24	24	10.1
Typhoid fever	6	6	0.9	4	4	0.9
VTEC / STEC infection	8	8	2.6	3	3	2.1
Yersiniosis	43	43	11.0	40	40	10.6

Notes: ¹ Other notifiable infectious diseases reported in January : Lyme Disease

² These data are provisional.

³ Rate is based on the cumulative total for the current year (12 months up to and including January 2006) or the previous year (12 months up to and including January 2005), expressed as cases per 100 000

⁴ All Aids data is provisional. Further information is available from the Aids Epidemiology Unit, 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 January 2006 and preceding 12 months

Disease	Jan 2006	Dec 2005	Nov 2005	Oct 2005	Sep 2005	Aug 2005	Jul 2005	Jun 2005	May 2005	Apr 2005	Mar 2005	Feb 2005	Jan 2005
AIDS ²	3	1	1	4	3	4	1	3	12	7	3	6	3
Campylobacteriosis	1621	1613	1666	1372	1387	1262	914	741	748	729	769	1287	1351
Cryptosporidiosis	43	26	107	229	176	72	26	33	45	52	66	44	13
Dengue fever	1	1	0	0	1	1	4	1	0	0	0	2	1
Gastroenteritis ³	63	18	42	44	40	42	36	56	54	36	70	42	77
Giardiasis	99	105	98	81	92	123	97	90	118	99	132	116	78
Haemophilus influenzae type b	0	0	0	1	1	2	0	0	1	1	1	0	0
Hepatitis A	33	7	7	3	5	5	4	2	0	2	5	7	4
Hepatitis B (acute) ⁴	8	9	5	7	6	3	6	5	4	8	1	2	5
Hepatitis C (acute) ⁴	3	2	3	2	2	3	1	7	3	0	2	2	3
Hydatid disease	0	0	1	0	1	0	0	0	0	0	0	0	0
Influenza ⁵	1	3	3	3	40	51	393	278	45	15	5	4	1
Lead absorption	11	6	4	4	5	4	6	10	5	7	11	5	3
Legionellosis	3	10	5	9	4	10	12	2	9	5	5	7	8
Leprosy	1	1	0	0	0	0	0	0	0	0	0	0	1
Leptospirosis	8	5	2	13	7	10	7	7	4	9	8	7	7
Listeriosis	6	3	3	0	2	2	2	0	0	0	2	3	3
Malaria	2	1	2	0	1	0	3	2	6	5	3	5	4
Measles	1	0	3	6	0	3	1	1	3	0	1	2	0
Meningococcal disease ⁶	8	12	17	16	13	18	36	28	16	20	16	15	20
Mumps	2	3	5	9	7	12	5	3	4	3	5	3	3
Paratyphoid fever	2	1	0	3	1	3	1	2	3	3	3	2	3
Pertussis	137	173	216	253	223	202	158	185	172	138	248	330	422
Rheumatic Fever	14	5	6	14	4	10	6	3	5	3	9	11	2
Rickettsial disease	0	0	0	0	0	0	1	0	0	0	0	0	0
Rubella	0	0	1	1	1	2	2	1	3	0	1	1	0
Salmonellosis	146	117	131	125	132	107	66	94	96	147	144	140	84
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	17	16	53	24	7	9	10	11	19	6	8	12	8
Tetanus	0	0	0	0	0	0	0	0	0	0	0	1	0
Tuberculosis	23	24	28	30	27	37	21	33	33	35	34	25	24
Typhoid fever	6	3	1	0	0	2	3	7	3	1	4	2	4
VTEC/STEC infection	8	5	4	10	6	10	2	4	5	24	11	8	3
Yersiniosis	43	22	51	44	29	40	32	24	34	30	25	37	40

Notes: ¹ Later data are provisional

² All Aids data is provisional. Further information is available from the Aids Epidemiology Unit, 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 - January 2006

Cases this month

Current rate¹

Disease	Cases for January 2006, ² and current rate ^{1,2} by District Health Board ^{3,4}																				
	Northland	Waitemata	Auckland	Courties 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	1	0	0	1
	1.4	2.4			1.3	1.0	0.6	0	0	0.7	0	0	1.1	0	0	0.8	1.1	4.4	0	0	1.0
Campylobacteriosis	33	193	123	131	131	47	61	5	48	83	28	45	56	119	9	57	11	243	29	102	67
	209.8	396.3	373.6	294.2	367.9	330.3	290.2	261.7	429.0	363.6	265.7	201.3	389.8	486.8	230.4	329.0	284.2	480.7	687.7	503.1	490.6
Cryptosporidiosis	2	3	2	1	5	0	2	2	1	0	0	3	1	1	2	2	3	4	4	4	1
	15.7	7.7	10.1	9.3	46.0	62.5	19.6	15.9	18.4	32.7	29.9	26.5	13.7	35.8	39.3	25.3	59.5	27.6	92.8	26.9	33.9
Dengue fever	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	0	0.5	0.5	0.5	0.3	0	0	0	0	0	0	0.6	0	1.2	0	0	0	0	0	0	0
Gastroenteritis	0	3	4	1	2	0	1	0	0	0	2	0	2	7	0	1	0	35	1	4	0
	3.6	15.6	21.8	12.2	3.8	5.2	5.1	0	3.9	2.1	23.6	12.9	13.7	28.5	13.1	10.6	9.9	27.4	11.4	10.0	27.1
Giardiasis	4	8	11	7	5	4	5	0	2	6	1	9	4	9	1	2	0	8	0	8	5
	27.1	32.1	45.7	28.5	40.0	40.6	36.5	47.8	10.7	38.3	26.7	34.2	23.5	50.0	31.4	28.6	13.2	31.4	13.3	24.0	23.2
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	0.3	0.8	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0
Hepatitis A	1	0	3	0	0	2	0	0	0	0	0	1	1	0	0	0	0	25	0	0	0
	2.1	1.4	1.9	1.6	2.2	2.1	0.6	2.3	2.9	0	0	1.3	1.5	0	0	0	3.3	8.7	0	1.2	0
Hepatitis B	0	0	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0
	0.7	2.6	3.3	2.7	0.3	1.0	1.1	6.8	0	0	0	0.6	0	0.8	0	0.8	0	2.8	0	3.5	1.0
Hepatitis C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	1.4	0	0.5	0	0	2.1	0.6	2.3	0	0	0	0	2.3	0	2.6	0	0	4.0	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	3	2	1	1	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0
	0.7	1.9	1.9	0.3	3.1	1.0	0.6	6.8	1.9	1.4	4.7	3.9	2.3	4.1	2.6	1.6	0	1.6	5.7	4.1	0
Legionellosis	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	2.1	3.5	0.8	0.5	0.9	0	3.4	0	1.0	1.4	0	1.9	3.8	0.8	0	0	3.3	6.6	1.9	1.8	2.9
Leprosy	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0.3	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	1	1	0	0	2	2	0	0	0	0	0	1	1	0	0
	4.3	0	0	0.3	3.1	1.0	3.9	9.1	2.9	8.4	4.7	7.1	0	0.4	10.5	1.6	9.9	0.9	9.5	2.3	5.8
Listeriosis	0	2	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
	0	0.9	0.5	1.9	0.3	1.0	1.1	0	0	0.7	0	0.6	0	0.4	0	2.4	0	0	0	0	0
Malaria	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	0	0.7	0.3	2.9	1.3	0	0	0	0	0	0	0	0.8	2.0	0	0.8	3.3	0.7	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	0	1.2	0.3	0.5	0.3	0	1.1	0	0	0	1.6	0.6	0	0	0	0	13.2	0.7	1.9	0	0
Meningococcal disease ⁵	0	3	0	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0
	2.9	4.9	4.4	7.5	10.1	7.3	6.2	0	4.9	7.7	0	9.0	0.8	3.3	10.5	4.9	6.6	5.2	5.7	9.4	3.9
Mumps	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	2.9	1.6	1.6	1.9	0.3	1.0	1.7	0	1.0	3.5	3.1	0	0	2.4	0	1.6	3.3	2.3	0	2.3	1.0
Paratyphoid fever	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.9	0.5	1.3	0	0	1.1	0	0	0.7	0	0	2.3	0.8	2.6	0	0	0.5	0	0.6	1.0
Pertussis	1	2	1	0	26	2	16	0	3	5	0	1	2	8	0	7	4	50	2	2	5
	7.1	13.5	7.1	12.2	114.3	61.5	89.8	9.1	15.5	32.0	4.7	19.4	34.9	24.0	10.5	96.3	95.8	214.2	238.7	80.2	174.2
Rheumatic fever	0	1	5	4	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
	5.7	0.9	1.6	6.9	2.8	2.1	1.7	4.6	0	5.6	0	1.9	4.6	4.9	0	0.8	0	0	0	0	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	0.3	0	0	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	0.7	1.1	0.3	0	0	1.1	0	0	0	0	0	0	0.4	0	0.8	0	0.2	0	0	0
Salmonellosis	7	9	14	9	13	0	9	1	6	9	1	1	4	8	1	7	2	20	4	15	6
	39.2	31.9	31.5	31.2	39.7	25.0	38.2	47.8	34.0	45.3	39.3	19.4	35.6	32.5	68.1	67.0	29.7	44.0	62.5	57.4	61.0
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	4	5	0	2	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0
	32.8	5.6	10.3	6.4	2.8	2.1	3.4	0	1.0	0	6.3	0	3.0	4.9	0	0.8	0	2.6	7.6	2.9	1.0
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	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	1	1	5	2	2	1	1	0	0	1	0	2	1	2	0	1	0	1	0	2	0
	12.1	12.3	19.9	14.4	8.2	6.3	2.2	0	2.9	4.2	11.0	7.1	7.6	13.8	5.2	4.9	3.3	6.3	3.8	3.5	1.9
Typhoid fever	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	0	0.7	1.1	4.3	0.3	1.0	0	0	0	0	0	0	0.8	0.4	0	0.8	0	0.5	3.8	0	0
VTEC / STEC	0	0	0	0	1	2	0	0	1	0	0	0	0	0	0	0	0	2	2	0	0
	2.9	0.7	1.6	0.5	5.0	5.2	5.6	2.3	1.9	3.5	1.6	0	0.8	1.6	0	0.8	3.3	3.3	9.5	6.4	4.8
Yersiniosis	0	7	5	1	3	0	0	1	0	0	1	1	1	8	0	0	1	5	1	7	1
	3.6	9.8	12.8	7.7	6.0	8.3	4.5	9.1	3.9	10.4	20.4	5.2	3.8	20.7	2.6	12.2	46.3	16.4	18.9	19.3	9.7

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