
MONTHLY SURVEILLANCE REPORT

Data contained within this August monthly report is based on information recorded on EpiSurv by public health service staff up until 6 September 2005. 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*: 1260 campylobacter cases were notified in August 2005 compared to 909 cases notified in the same month last year. Canterbury DHB recorded the highest number of cases (177). Among the cases for whom this information was recorded 65.5% (112/171) had consumed food from a food premise, 14.9% (29/195) had faecal contact, 13.6% (24/177) had consumed untreated water, 12.5% (23/184) had recreational water contact, and 6.0% (11/182) had contact with sick animals, during the incubation period. South Canterbury DHB recorded the highest current incidence rate of 689.6 per 100 000 population compared to the national rate of 329.3 per 100 000 population. Hospitalisation data was recorded for 577 cases of whom 45 (7.8%) were hospitalised. One final outbreak was reported from West Coast involving two cases. One interim outbreak was reported from the Wellington region involving five cases thus far.
- *Cryptosporidiosis*: 71 cryptosporidiosis cases were notified in August 2005 compared to 50 cases notified at the same time last year. Waikato DHBs reported the highest number of cases (30). For the previous 12 months, Lakes, Waikato and South Canterbury DHB had the highest current incidence rates of 64.6, 51.9, 49.3 per 100 000 population (62, 165 and 26 cases), respectively. Among the cases for whom this information was recorded, 71.4% (5/7) had consumed food from a food premise, 50.0% (7/14) had consumed untreated water, 45.5% (5/11) had recreational water contact, 33.3% (7/21) had faecal contact, and 15.0% (3/20) had contact with sick animals during the incubation period. Two cases were hospitalised.
- *Dengue*: one case of dengue fever was reported in August, bringing the year to date total to 10. The case was confirmed by positive IgM antibody and had travelled to Singapore. The case was not hospitalised and had never taken any precautions against biting insects while overseas.

- *Giardiasis*: 123 giardiasis cases were notified in August 2005 compared to 106 cases notified at the same time last year. Capital and Coast DHB reported the highest number of cases (15). Among the cases for whom this information was recorded, 36.0% (9/25) had consumed untreated water, 35.3% (6/17) had consumed food from a food premise, 34.4% (11/32) had faecal contact, 32.1% (9/28) had recreational water contact, and 14.8% (4/27) had contact with another case during the incubation period. Two cases were hospitalised. One final giardiasis outbreak from Auckland was reported involving two cases with overseas transmission of the disease. Three interim outbreak reports were received, two from the Auckland region and one from Hawke's Bay, involving four cases thus far.
- *Influenza*: during August (weeks 31 – 34), 383 consultations for influenza-like illness were reported from 78 general practices (on average) in 21 out of 24 health districts. The average weekly consultation rate for August was 32.4 per 100 000 patient population, compared to a rate of 32.1 per 100 000 patient population during the same month last year (Figure 1). Otago had the highest consultation rate (188.8 per 100 000), followed by Hutt (90.9 per 100 000). A total of 100 swabs were received for testing during August. Of these, 14 influenza viruses were identified, seven as A/California/7/2004-like, five as B/Hong Kong/330/2001-like, one as influenza A (yet to be sub-typed) and one as B/Sichuan/379/1999-like.

In addition, 44 influenza viruses were reported from the laboratory-based (non-sentinel) surveillance in August. Of these, 14 were identified as influenza A (yet to be sub-typed), 13 as A/California/7/2004-like, 11 as influenza B (yet to be antigenically typed), three as B/Hong Kong/330/2001-like, two as A/New Caledonia/20/1999-like, and one as B/Shanghai/361/2002-like.

- *Legionellosis*: 11 legionellosis cases were notified in August, compared to five cases in August 2004. Seven cases were reported from Canterbury, one each from Hawke's Bay, Hutt, Capital and Coast, and Otago DHBs. The cases range in age from 23 to 87 years. The species involved was identified for 10 of the 11 cases as *Legionella pneumophila* serogroup 1 (9 cases) and *L. longbeachae* serogroup 1 (1 case). One of the confirmed cases had been exposed to potting mix. Nine cases were hospitalised and one death was reported. Investigation of the cases from Canterbury continues.
- *Meningococcal disease*: based on earliest date available¹, 14 cases of meningococcal disease were notified during August 2005, of which 12 (85.7%) were laboratory-confirmed. In comparison, 37 cases were notified the previous month, and 39 cases were notified during August 2004. For the previous 12 months, Tairāwhiti DHB recorded the highest current rate of 18.2 per 100 000 population (8 cases). Counties Manukau DHB recorded the highest number of cases (37) with a current rate of 9.9 per 100 000 population. The rate of disease was highest amongst infants aged less than one year (54.9

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.

per 100 000 population, 30 cases), followed by those in the 1-4 years age group (34.2 per 100 000 population, 74 cases).

- *Pertussis*: 208 pertussis cases were notified in August 2005, of whom 41 (19.7%) were laboratory confirmed. Pertussis numbers have decreased from the peak in November 2004 with 613 cases (Figure 2). Canterbury DHB had the highest number of cases (74). For the previous 12 months, Southland DHB had the highest incidence rate of 683.2 per 100 000 population (706 cases), compared to a national rate of 109.9 per 100 000 population. Hospitalisation data was recorded for 146 cases of whom 7 (4.8%) were hospitalised. The rate by age group for the previous 12 months was highest amongst infants aged less than one year (322.0 per 100 000 population). This was followed by children in the 5-9 years age group (214.9) and the 10-14 years age group (212.6).
- *Typhoid fever*: two cases of typhoid fever were notified in August 2005 bringing the year to date total to 25. The first case was a migrant with phage type E1a and the second case was phage type untypable who had been to Thailand and Cambodia. One case was hospitalised.

2. Deaths from notifiable diseases

The table below shows the deaths from notifiable diseases in August. One death was reported this month.

Disease	District Health Board	Age group	Sex
Legionellosis	Canterbury	70+ yrs	F

3. Trends in selected diseases to August 2005

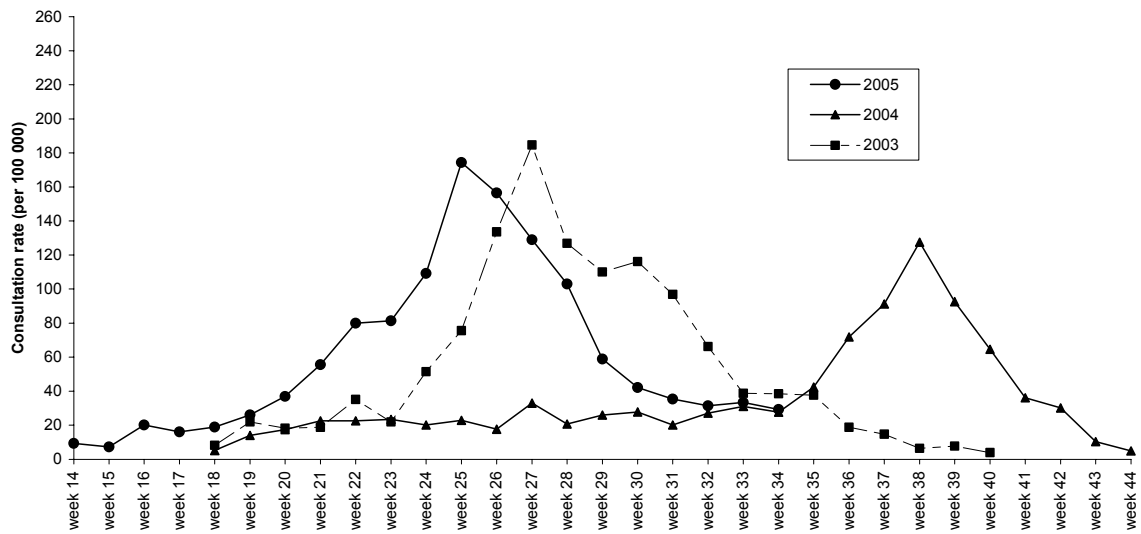


Figure 1: Weekly consultation rates for influenza-like illness in New Zealand, 2003, 2004 and 2005

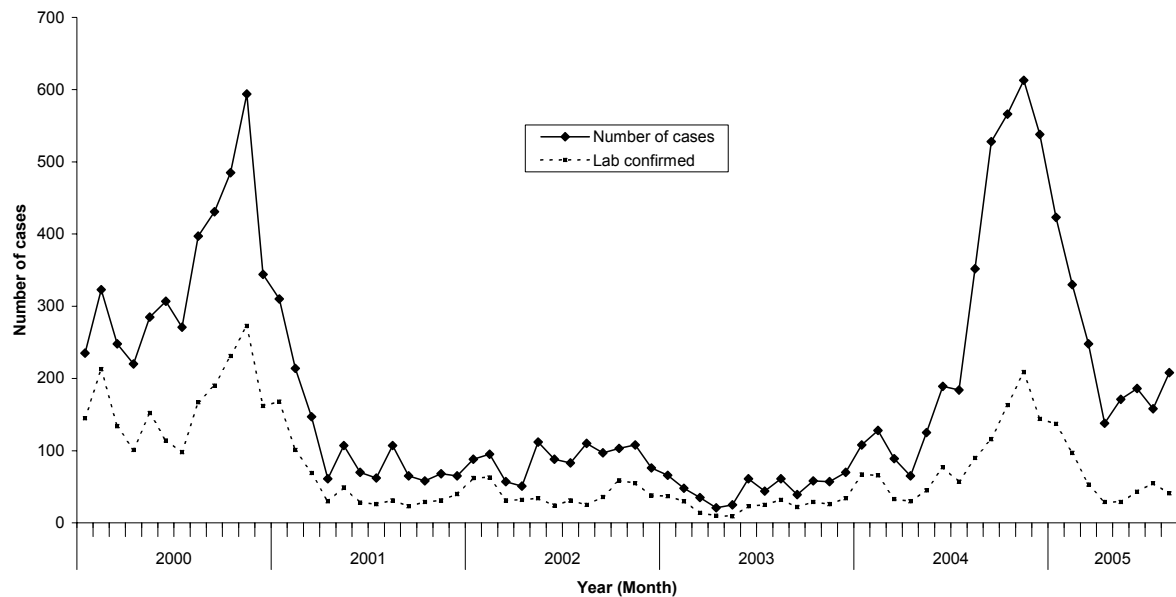


Figure 2: Pertussis notifications and laboratory confirmed cases by month, January 2000 to August 2005

4. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2005 ²			Previous year - 2004		
	Aug 2005 cases	Cumulative total since 1 January	Current rate ³	Aug 2004 cases	Cumulative total since 1 January	Previous rate ³
AIDS ⁴	4	41	1.6	3	21	0.9
Campylobacteriosis	1260	7797	329.3	909	7703	206.1
Cryptosporidiosis	71	350	21.5	50	160	4.3
Dengue fever	1	10	0.3	0	8	0.2
Gastroenteritis ⁵	28	393	22.6	91	912	24.4
Giardiasis	123	855	35.1	106	1056	28.3
<i>H. influenzae</i> type b disease	2	5	0.2	0	2	0.1
Hepatitis A	5	29	1.0	4	41	1.1
Hepatitis B (acute) ⁶	3	34	1.1	4	31	0.8
Hepatitis C (acute) ⁶	3	21	0.7	1	19	0.5
Hydatid disease	0	0	0	0	0	0
Influenza ⁶	51	792	42.6	57	87	3.9
Lead absorption	4	51	2.2	8	65	1.7
Legionellosis	11	63	2.1	5	47	1.3
Leprosy	0	1	0.1	0	2	0.1
Leptospirosis	11	59	2.3	9	76	2.0
Listeriosis	2	12	0.5	2	18	0.5
Malaria	0	28	1.0	3	25	0.7
Measles	4	12	0.7	1	19	0.5
Meningococcal disease ⁸	18	171	8.2	38	208	5.6
Mumps	12	38	1.5	7	27	0.7
Paratyphoid fever	2	18	0.7	0	19	0.5
Pertussis	208	1862	109.9	352	1240	33.2
Rheumatic fever	10	48	1.8	11	54	1.4
Rickettsial disease	0	1	0	1	2	0.1
Rubella	3	11	0.5	2	15	0.4
Salmonellosis	109	887	32.7	91	744	19.9
SARS	0	0	0	0	0	0
Shigellosis	9	85	3.5	19	93	2.5
Tetanus	0	1	0.1	0	0	0
Tuberculosis	36	243	10.3	38	231	6.2
Typhoid fever	2	25	0.9	0	22	0.6
VTEC / STEC infection	10	69	2.6	9	62	1.7
Yersiniosis	40	261	9.6	28	323	8.6

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 2005) or the previous year (12 months up to and including August 2004), 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

Monthly totals for August 2005 and preceding 12 months

Disease	Aug 2005	Jul 2005	Jun 2005	May 2005	Apr 2005	Mar 2005	Feb 2005	Jan 2005	Dec 2004	Nov 2004	Oct 2004	Sep 2004	Aug 2004
AIDS ²	4	1	3	12	7	3	6	5	6	3	5	4	3
Campylobacteriosis	1260	913	740	749	728	767	1288	1352	1389	1278	928	916	909
Cryptosporidiosis	71	26	33	45	52	66	44	13	20	87	185	160	50
Dengue fever	1	4	2	0	0	0	2	1	0	0	0	0	0
Gastroenteritis ³	28	32	55	53	36	70	42	77	83	129	134	105	91
Giardiasis	123	98	90	117	100	132	116	79	111	141	104	102	106
Haemophilus influenzae type b	2	0	0	1	1	1	0	0	1	0	0	1	0
Hepatitis A	5	4	2	0	2	5	7	4	3	1	2	2	4
Hepatitis B (acute) ⁴	3	6	5	4	8	1	2	5	2	2	1	2	4
Hepatitis C (acute) ⁴	3	1	7	3	0	2	2	3	1	1	2	1	1
Hydatid disease	0	0	0	0	0	0	0	0	0	1	0	0	0
Influenza ⁵	51	393	278	45	15	5	4	1	0	21	153	626	57
Lead absorption	4	6	10	5	7	11	5	3	7	9	7	7	8
Legionellosis	11	13	2	11	6	5	7	8	2	7	4	2	5
Leprosy	0	0	0	0	0	0	0	1	0	0	1	0	0
Leptospirosis	11	7	7	3	9	8	7	7	6	5	6	10	9
Listeriosis	2	2	0	0	0	2	3	3	2	2	2	2	2
Malaria	0	3	2	6	5	3	5	4	2	3	1	2	3
Measles	4	1	1	3	0	1	2	0	8	2	3	1	1
Meningococcal disease ⁶	18	36	29	17	20	16	15	20	18	27	36	54	38
Mumps	12	5	3	4	3	5	3	3	3	7	3	5	7
Paratyphoid fever	2	1	2	2	2	3	3	3	0	2	2	5	0
Pertussis	208	158	186	171	138	248	330	423	538	613	566	528	352
Rheumatic Fever	10	5	3	5	3	9	11	2	3	6	9	3	11
Rickettsial disease	0	1	0	0	0	0	0	0	0	0	0	0	1
Rubella	3	2	1	3	0	1	1	0	3	2	1	3	2
Salmonellosis	109	66	95	100	149	144	140	84	79	94	92	71	91
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	9	10	11	19	7	10	11	8	11	22	6	8	19
Tetanus	0	0	0	0	0	0	1	0	0	0	0	1	0
Tuberculosis	36	22	33	33	36	35	24	24	43	32	38	29	38
Typhoid fever	2	2	7	2	1	4	2	5	0	1	3	5	0
VTEC/STEC infection	10	2	4	6	24	11	8	4	6	7	6	8	9
Yersiniosis	40	32	24	33	30	25	37	40	27	26	25	19	28

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 - August 2005

Cases this month

Current rate¹

	Cases for August 2005, 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	
Disease																						
AIDS ⁵	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
	1.4		3.4		1.3	1.0	1.1	0	0	0	0	0	1.3		0	0.8	1.3	4.4	0	0	0	
Campylobacteriosis	17	141	126	102	107	33	62	20	59	34	14	25	60	127	7	40	9	177	23	53	24	
	206.9	375.8	360.8	279.9	328.3	242.8	240.2	245.8	293.1	290.4	196.5	182.0	326.9	375.4	185.9	274.3	264.3	376.3	689.6	435.2	514.8	
Cryptosporidiosis	3	3	4	3	30	1	7	0	1	3	1	1	0	5	0	1	0	5	3	0	0	
	20.0	7.4	7.1	7.7	51.9	64.6	11.8	15.9	14.6	20.9	22.0	36.8	9.1	24.8	39.3	20.4	23.1	23.2	49.3	26.4	25.2	
Dengue fever	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	0.2	0.5	0.5	0.3	0	0	0	0	0	0	0.6	0	0.4	0	0	0	0.2	0	0	0	
Gastroenteritis	0	3	3	0	2	0	0	0	0	0	1	0	1	4	0	3	0	7	0	2	2	
	2.9	18.8	23.1	13.0	59.5	49.0	2.8	0	8.7	2.8	20.4	26.5	15.9	26.8	28.8	15.5	9.9	34.0	15.2	17.0	14.5	
Giardiasis	6	12	12	9	10	4	8	2	1	5	1	3	4	15	0	13	1	14	1	2	0	
	28.5	37.7	51.4	31.7	44.1	40.6	35.9	70.5	11.6	38.3	28.3	27.7	23.5	46.4	44.5	36.7	23.1	30.7	13.3	17.0	19.4	
H. influenzae type b disease	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	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	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	0	0.7	1.6	2.1	1.6	1.0	0.6	2.3	1.9	0.7	0	0	0	0	0	0	3.3	1.2	0	1.2	1.0	
Hepatitis B	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	2.3	1.4	2.1	0.9	0	0.6	6.8	0	0	0	0	0	0.8	0	0.8	0	0.9	0	1.8	0	
Hepatitis C	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	
	1.4	0	0.5	0.3	0	0	0.6	2.3	0	0	0	0	1.5	0	2.6	1.6	3.3	3.0	0	0	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	0.6	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	2	0	0	0	0	0	1	0	0	0	
	0.7	1.4	1.6	0.5	3.5	0	0.6	11.4	3.9	1.4	6.3	4.5	2.3	2.4	2.6	0.8	3.3	1.4	3.8	7.0	0	
Legionellosis	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	7	0	1	0	
	1.4	3.5	1.6	1.3	0.9	0	1.7	0	1.9	1.4	1.6	1.9	5.3	0.4	2.6	0.8	3.3	5.4	1.9	0.6	0	
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	0	0	0	0	0	0	0	0	0	0.8	0.4	0	0	0	0	0	0	0	
Leptospirosis	0	0	0	0	0	0	0	1	0	6	0	1	0	0	1	0	0	0	1	0	1	
	1.4	0.2	0	0.3	3.5	0	3.9	9.1	2.9	13.9	1.6	5.8	0	0.8	7.9	4.1	9.9	0.7	3.8	1.8	5.8	
Listeriosis	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.2	1.4	0.8	0.6	0	1.1	0	0	0.7	0	0.6	0	0.8	2.6	1.6	0	0	0	0	0	
Malaria	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	2.9	1.9	0	0	0	0	0.7	0	0	0.8	2.0	0	0.8	0	0.7	0	0	1.9	
Measles	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	1.2	0.3	0.5	0.3	2.1	1.7	0	1.0	0.7	1.6	0.6	0	0	2.6	0	9.9	0.9	0	0	0	
Meningococcal disease ⁵	1	2	1	2	2	1	0	0	0	1	0	0	0	1	0	1	0	2	0	3	1	
	7.8	7.9	6.3	10.1	9.8	14.6	6.2	18.2	3.9	13.2	6.3	13.5	0.8	7.3	7.9	6.5	13.2	6.3	3.8	10.5	6.8	
Mumps	1	2	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	5	0	0	0	
	4.3	1.4	1.6	1.1	0.9	1.0	0.6	2.3	1.0	1.4	1.6	0	0	2.8	2.6	2.4	3.3	2.3	1.9	0.6	0	
Paratyphoid fever	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	0.9	0.5	1.1	0.6	2.1	0	0	0	1.4	0	0	3.0	0.8	2.6	0	0	0.7	0	0	0	
Pertussis	2	6	4	3	22	5	19	0	0	1	1	2	3	2	0	14	0	74	14	19	17	
	37.8	21.6	19.6	21.3	175.0	109.4	90.4	27.3	15.5	9.1	6.3	26.5	49.3	37.0	15.7	364.1	95.8	270.2	267.1	154.0	683.2	
Rheumatic fever	0	1	0	4	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	
	5.0	0.7	0	2.9	2.8	1.0	3.9	4.6	0	7.0	0	1.9	3.8	4.1	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	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	0.7	1.1	0.5	0	0	0	0	1.0	1.4	0	0	0.8	0.4	0	1.6	6.6	0.2	0	0	0	
Salmonellosis	2	12	15	7	9	2	9	2	2	6	0	1	8	10	0	2	2	13	1	3	3	
	25.7	26.1	28.8	24.2	30.2	15.6	32.0	36.4	25.2	34.8	37.7	16.1	28.1	29.7	57.6	64.5	29.7	39.3	49.3	50.4	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	2	0	2	1	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
	2.9	4.2	7.1	4.5	2.2	1.0	1.7	0	0	0	1.6	0	2.3	3.7	0	1.6	0	8.2	1.9	2.3	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	0.3	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tuberculosis	5	3	11	7	2	0	1	0	0	0	0	1	3	1	0	1	0	1	0	0	0	
	11.4	13.0	22.6	17.0	6.9	3.1	3.9	2.3	3.9	7.7	4.7	7.1	8.3	17.9	5.2	5.7	9.9	5.9	5.7	3.5	2.9	
Typhoid fever	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	
	0	0	1.6	5.6	0	1.0	0	0	0	0	0	0	2.3	0.4	0	0	0	0.2	1.9	0	0	
VTEC / STEC	0	0	0	0	0	2	3	0	1	1	0	0	0	0	0	0	0	3	0	0	0	
	2.9	0.7	1.9	1.1	5.7	4.2	6.7	4.6	2.9	4.2	1.6	0	0.8	1.6	0	1.6	3.3	1.6	5.7	5.3	4.8	
Yersiniosis	0	6	4	3	5	0	0	0	1	1	2	0	0	4	0	1	2	7	1	3	0	
	4.3	10.2	14.4	7.2	9.1	5.2	4.5	6.8	3.9	9.1	18.9	3.2	6.1	14.6	2.6	4.9	62.8	11.2	15.2	10.5	4.8	

1 Current rate is based on the cumulative total for the 12 months up to and including August 2005 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.