

MONTHLY SURVEILLANCE REPORT

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

1. Key notifiable disease trends

- *Dengue*: three cases of dengue fever were notified in October 2006 bringing the year to date total to 15. Two cases were from Capital and Coast DHB and one was from Waitemata DHB. One case was hospitalised. All cases were overseas during the incubation period. One case had been to Raratonga, another to Thailand, and the third case had been to Thailand, India, and Bangladesh.
- *Listeriosis*: two cases of listeriosis were notified in October 2006 bringing the year to date total to 14. The cases were reported from Waitemata and Southland DHBs. Both cases were immunosuppressed secondary to chronic illness. No source was identified for either case.
- *Meningococcal disease*: based on the earliest date available¹, 12 cases of meningococcal disease were notified during October 2006, of which 10 (83.3%) were laboratory-confirmed, and none were fatal. In comparison, 12 cases were notified the previous month, September 2006, and 15 cases were notified during the same month last year, October 2005. For the 12 month period ending 31 October 2006, Waikato DHB recorded the highest incidence rate of 9.1 per 100 000 population (29 cases). The highest age-specific incidence rate was in infants aged less than one year (54.9 per 100 000 population, 30 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 (10.2 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.

- *Pertussis*: 63 pertussis cases were notified in October 2006, of whom 13 (20.6%) 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). Of the 63 cases notified in October 2006, three were reported as being hospitalised. Waikato DHB had the highest number of cases (15). For the 12 month period ending 31 October 2006, Canterbury DHB had the highest incidence rate of 103.7 per 100 000 population (443 cases), compared to the national rate of 37.8 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 those in the 60-69 years age group (49.2 per 100 000) and the 10-14 years age group (47.1 per 100 000 population).
- *Rickettsial disease*: one rickettsial disease case, still under investigation, was notified in October 2006 from Nelson Marlborough DHB. The case suffered tick bites whilst in Western Australia.
- *Rubella*: two rubella cases were notified in October 2006. One case is a probable and the other under investigation. Both were from Canterbury DHB in the 1-4 years age group. The immunisation status was unknown for both cases.
- *Typhoid fever*: two cases were notified in October 2006. The cases were from Counties Manukau and Waikato DHBs. The species involved were: *Salmonella* Typhi phage type E1a and *S. Typhi* phage type untypable. Both cases had no overseas travel. One of the cases worked in a laboratory and transmission was work acquired.
- *Yersiniosis*: 55 yersiniosis cases were notified in October 2006 compared to 44 cases notified in the same month of the previous year (Figure 2). Three cases were reported as being hospitalised. Canterbury DHB had the highest number of cases (13), followed by Capital and Coast (7) DHB. Overseas travel information was recorded for 23/55 (41.8%) cases, of which one had been overseas (Tonga).

2. Outbreaks

Completed outbreak reports

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

Summary of completed outbreaks reported to ESR during October 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Wellington	1	5
<i>Cryptosporidium parvum</i>	Auckland	2	5
Gastroenteritis	Auckland	4	8
<i>Giardia</i>	Auckland	2	5
Norovirus	Auckland	1	9
Total		10	32

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 October 2006

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Wellington	1	-
<i>Campylobacter</i>	Auckland	1	2
<i>Cryptosporidium parvum</i>	Auckland, Manawatu	4	33
Gastroenteritis	Auckland, Hawke's Bay, Waikato, Otago	17	30
<i>Giardia</i>	Auckland	2	4
<i>Mycobacterium tuberculosis</i>	Auckland	1	2
<i>Paratyphoid</i>	Auckland	1	2
<i>Salmonella</i>	Auckland	2	4
<i>Shigella</i>	Auckland	1	2
Total		30	79

3. Deaths from notifiable diseases

One death was reported for the month of October.

Disease	District Health Board	Age group	Sex
Tuberculosis disease - new case	Counties Manukau	70+	F

4. Trends in selected diseases to October 2006

Figure 1: Pertussis notifications and laboratory confirmed cases by month, January 2001 to October 2006

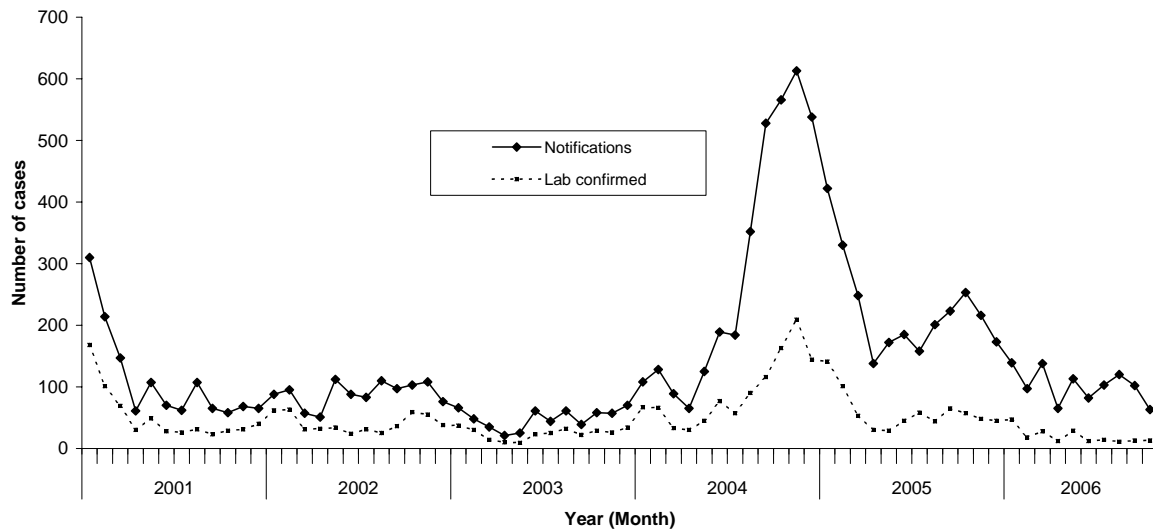
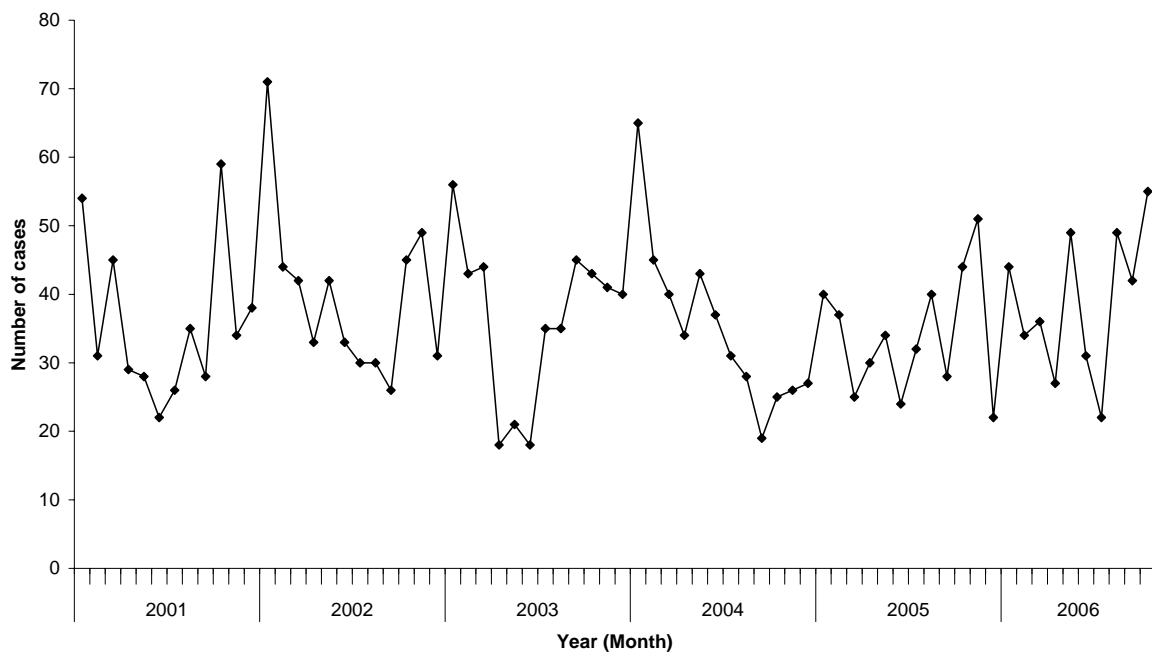


Figure 2: Yersiniosis notifications by month, January 2001 to October 2006



5. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2006 ²			Previous year - 2005		
	Oct 2006 cases	Cumulative total since 1 January	Current 12-month rate ³	Oct 2005 cases	Cumulative total since 1 January	Previous 12-month rate ³
AIDS ⁴	0	24	0.7	4	45	1.4
Campylobacteriosis	1200	12680	426.9	1372	10560	353.9
Cryptosporidiosis	190	601	19.6	229	756	23.1
Dengue fever	3	15	0.4	0	10	0.3
Gastroenteritis ⁵	48	806	23.2	44	496	18.9
Giardiasis	99	1036	33.2	81	1027	34.2
<i>H. influenzae</i> type b disease	0	9	0.2	1	7	0.2
Hepatitis A	3	114	3.4	3	37	1.1
Hepatitis B (acute) ⁶	5	56	1.8	7	47	1.4
Hepatitis C (acute) ⁶	6	31	0.9	2	25	0.7
Hydatid disease	0	0	0	0	1	0.1
Influenza ⁷	3	761	20.5	3	835	22.9
Lead absorption	6	70	2.1	4	61	2.1
Legionellosis	4	44	1.6	9	71	2.1
Leprosy	0	3	0.1	0	1	0
Leptospirosis	4	77	2.2	13	79	2.4
Listeriosis	2	14	0.5	0	14	0.5
Malaria	2	27	0.8	0	29	0.9
Measles	5	20	0.6	5	16	0.7
Meningococcal disease ⁸	10	130	4.2	16	198	6.5
Mumps	5	34	1.1	9	54	1.7
Paratyphoid fever	4	18	0.5	3	24	0.7
Pertussis	63	1022	37.8	253	2330	93.1
Rheumatic fever	5	94	2.8	14	68	2.1
Rickettsial disease	1	7	0.2	0	1	0
Rubella	2	10	0.3	1	12	0.5
Salmonellosis	110	1141	37.2	124	1132	34.9
SARS	0	0	0	0	0	0
Shigellosis	6	86	4.1	24	114	3.9
Tetanus	0	1	0	0	1	0
Tuberculosis	44	310	9.6	30	290	9.7
Typhoid fever	2	22	0.7	0	26	0.7
VTEC / STEC infection	8	79	2.4	10	83	2.6
Yersiniosis	55	389	12.4	44	334	10.4

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

² These data are provisional.

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

Disease	Oct 2006	Sep 2006	Aug 2006	Jul 2006	Jun 2006	May 2006	Apr 2006	Mar 2006	Feb 2006	Jan 2006	Dec 2005	Nov 2005	Oct 2005
AIDS ²	0	6	1	1	2	1	1	2	7	3	1	1	4
Campylobacteriosis	1200	1229	1216	1074	1290	1480	832	1265	1464	1630	1610	1666	1372
Cryptosporidiosis	190	148	58	26	29	33	23	28	23	43	26	107	229
Dengue fever	3	1	0	1	2	3	0	3	1	1	1	0	0
Gastroenteritis ³	48	50	64	77	59	124	60	125	139	60	18	43	44
Giardiasis	99	86	106	110	105	129	84	118	100	99	106	98	81
Haemophilus influenzae type b	0	0	0	0	3	2	3	1	0	0	0	0	1
Hepatitis A	3	9	9	4	7	7	11	16	15	33	7	7	3
Hepatitis B (acute) ⁴	5	7	3	6	7	8	3	7	2	8	9	4	7
Hepatitis C (acute) ⁴	6	2	5	1	5	2	2	2	3	3	2	2	2
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	1	0
Influenza ⁵	3	49	286	293	114	8	3	4	0	1	3	3	3
Lead absorption	6	5	8	2	8	8	9	5	8	11	6	4	4
Legionellosis	4	1	6	3	5	4	6	4	8	3	9	5	9
Leprosy	0	0	0	1	0	0	0	1	0	1	1	0	0
Leptospirosis	4	10	11	8	6	6	6	5	13	8	5	2	13
Listeriosis	2	0	3	0	2	0	0	1	0	6	3	3	0
Malaria	2	3	7	3	1	2	0	4	3	2	1	2	0
Measles	5	3	2	0	0	1	2	1	5	1	0	3	5
Meningococcal disease ⁶	10	12	18	30	12	9	8	14	9	8	11	17	16
Mumps	5	4	4	1	5	3	3	6	1	2	2	5	9
Paratyphoid fever	4	1	0	3	1	0	1	4	2	2	1	0	3
Pertussis	63	102	120	103	82	113	65	138	97	139	173	216	253
Rheumatic Fever	5	2	6	21	6	10	23	5	2	14	5	6	14
Rickettsial disease	1	0	1	4	0	1	0	0	0	0	0	0	0
Rubella	2	2	1	1	0	0	1	3	0	0	0	1	1
Salmonellosis	110	114	85	60	59	127	137	144	159	146	119	131	124
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	6	6	10	7	5	4	7	8	15	18	16	53	24
Tetanus	0	0	0	0	0	0	0	1	0	0	0	0	0
Tuberculosis	44	61	30	31	28	26	11	26	30	23	24	26	30
Typhoid fever	2	4	2	1	2	3	0	1	1	6	3	1	0
VTEC/STEC infection	8	5	6	1	6	10	8	20	8	7	5	4	10
Yersiniosis	55	42	49	22	31	49	27	36	34	44	22	51	44

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 - October 2006

Cases this month

Current 12-month rate¹

Disease	Cases for October 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	0	0	0	0	0	0	0	
	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0	0	1.4	0	0	1.3	0	0	0	1.3	4.4	0	0	1.0	
Campylobacteriosis	37	184	151	110	104	19	67	4	37	28	18	17	38	103	5	28	12	133	24	43	38	
	271.9	511.7	486.5	405.8	393.7	412.6	364.3	172.9	487.2	376.1	352.1	208.4	458.9	578.8	240.8	291.5	290.8	447.2	602.5	494.3	450.0	
Cryptosporidiosis	5	10	6	6	18	7	5	0	3	4	6	32	0	11	10	7	3	13	15	16	13	
	15.7	7.4	8.2	6.1	32.1	18.8	18.5	15.9	15.5	15.3	33.0	34.2	19.0	19.1	57.6	18.8	59.5	21.5	89.0	26.9	33.9	
Dengue fever	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
	0	0.5	0.3	0	0	0	0	0	0	0	0	0	0.8	2.4	2.6	0.8	0	0.2	0	1.2	1.0	
Gastroenteritis	2	8	6	2	2	1	0	0	1	5	1	0	2	4	0	1	0	6	3	2	2	
	2.1	18.6	23.4	13.0	17.9	12.5	6.7	0	4.9	13.9	72.3	129.0	25.0	30.5	0	20.4	6.6	24.6	9.5	15.8	24.2	
Giardiasis	6	16	17	6	9	2	10	0	2	5	3	3	1	3	0	2	1	7	1	3	2	
	47.1	28.6	40.5	29.0	37.8	46.9	41.5	25.0	13.6	38.3	34.6	23.2	28.1	44.7	41.9	32.7	16.5	27.2	24.6	27.5	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	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	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
	3.6	2.6	2.4	9.9	1.3	3.1	1.7	2.3	1.9	0	4.7	1.3	1.5	1.6	2.6	0.8	0	8.9	0	0.6	1.0	
Hepatitis B	0	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	1	0	0	
	0.7	2.6	1.4	3.7	0.6	1.0	1.1	2.3	1.0	0.7	3.1	0.6	0.8	0.8	2.6	0	0	4.4	1.9	1.8	0	
Hepatitis C	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	2	0	1	0	
	0	0.2	0.3	0	0	3.1	0.6	2.3	5.8	0.7	0	0	1.5	0.8	0	0	3.3	3.0	0	1.8	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	0	0	0	0	0	0	0	0	0	0	0	
Lead absorption	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	
	1.4	1.2	1.4	0.8	2.8	8.3	2.2	2.3	2.9	1.4	0	1.9	3.8	2.8	2.6	0.8	0	3.7	3.8	1.8	0	
Legionellosis	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
	2.1	1.4	1.4	2.1	0.9	1.0	3.4	2.3	1.0	0	0	0	2.3	1.6	2.6	1.6	0	1.2	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	1	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	
	7.1	0.2	0	0.3	3.5	1.0	4.5	4.6	3.9	5.6	7.9	3.9	1.5	0.4	10.5	1.6	6.6	2.1	5.7	1.8	1.0	
Listeriosis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	0.7	1.2	0.3	1.3	0	0	0.6	0	0	1.4	0	0.6	0	0.4	0	1.6	0	0	0	0	1.0	
Malaria	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.2	0.8	1.3	1.6	1.0	0	0	0	0.7	0	0	1.5	1.2	0	0.8	3.3	1.2	1.9	0.6	0	
Measles	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	3	0	0	0	
	0	0.7	0.3	0	0	0	0.6	0	0	0.7	1.6	0	0	0.8	0	1.6	6.6	2.1	0	0	1.0	
Meningococcal disease ⁵	0	1	1	3	1	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	
	4.3	1.2	4.1	6.1	8.8	2.1	1.7	6.8	2.9	2.8	0	5.8	4.6	2.4	7.9	4.9	0	4.7	3.8	5.3	4.8	
Mumps	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	
	0.7	1.4	1.1	1.9	0.3	1.0	1.1	0	0	2.8	3.1	1.3	0	0.4	0	0.8	0	1.2	1.9	1.8	0	
Paratyphoid fever	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.7	0.3	2.4	0	1.0	0.6	0	0	0.7	0	0	0.8	0.4	0	0.8	0	0	0	0	0	
Pertussis	0	0	4	1	15	2	4	1	0	0	0	4	2	7	0	6	0	12	2	2	1	
	5.0	5.1	2.7	3.2	102.6	34.4	61.2	70.5	3.9	24.4	4.7	11.6	28.8	37.8	10.5	52.3	56.2	103.7	85.3	17.6	64.8	
Rheumatic fever	1	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	
	10.0	0.7	1.6	11.2	2.8	4.2	0.6	4.6	0	4.2	3.1	0.6	3.0	4.1	0	0	0	0.2	0	0	0	
Rickettsial disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0	0	0	0	0	0	0	0	2	0	0	0	
	0	0	0.5	0	0	0	1.1	0	0	0	0	1.3	0	0	0	0	0	0.7	0	0	1.9	
Salmonellosis	1	9	6	12	10	3	3	1	6	5	1	4	5	4	4	3	0	10	2	6	15	
	37.1	31.6	28.8	28.5	40.0	21.9	30.3	20.5	47.6	52.2	20.4	22.6	34.9	50.0	34.0	37.6	23.1	37.7	73.9	56.2	73.5	
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	2	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
	23.5	4.9	7.6	5.1	1.6	2.1	2.2	0	1.0	2.1	6.3	0	2.3	3.7	0	4.1	3.3	2.6	3.8	2.3	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	3	8	13	6	0	2	0	1	1	0	4	0	3	0	0	1	1	0	0	0	
	17.1	8.4	15.0	18.9	11.0	4.2	5.1	0	3.9	6.3	4.7	19.4	5.3	11.8	5.2	2.4	6.6	5.4	5.7	4.7	2.9	
Typhoid fever	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	1.2	0.5	2.1	1.3	0	0.6	0	0	0	0	0	1.5	0	0	1.6	0	0	1.9	0	0	
VTEC / STEC	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	
	2.9	2.3	0.8	0.8	5.0	3.1	2.2	0	1.9	1.4	0	0.6	0	0	0	4.9	0	4.4	5.7	4.1	4.8	
Yersiniosis	0	3	4	2	5	5	4	0	2	0	1	1	1	7	0	2	0	13	1	5	0	
	7.1	9.1	10.6	9.3	9.4	21.9	14.0	11.4	6.8	9.8	12.6	5.8	3.0	27.7	0	14.7	19.8	18.5	18.9	16.4	6.8	

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