

MONTHLY SURVEILLANCE REPORT

Data contained within this September monthly report is based on information recorded on EpiSurv by public health service staff up until 5 October 2004. 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

- *Brucellosis*: a case of brucellosis with a clinically compatible illness with positive serology, but not microbiologically confirmed, was notified during September. The case was an adult male who had been unwell for two months. No source of the infection has been identified. Investigations are continuing.
- *Campylobacter*: a total of 913 cases were notified in September 2004 of whom 855 (93.6%) were confirmed. In comparison, 1389 cases were notified in the same month last year. Amongst September 2004 cases for whom this information was recorded, 34 (52.3%, 34/65) cases consumed food from a food premise, 44 (49.4%, 44/89) reported contact with farm animals, and 18 (23.4%, 18/77) reported contact with untreated water during the incubation period. Capital and Coast recorded the highest current rate of 471.0 per 100 000 population compared to the national rate of 350.2 per 100 000 population.
- *Influenza*: during September, 1309 consultations for influenza-like illness were reported from 79 general practices (on average) in 22 out of 24 health districts. The average weekly consultation rate for September was 95.8 per 100 000 patient population, compared to a rate of 10.4 per 100 000 patient population during the same month last year (Figure 1). Gisborne had the highest consultation rate (458.3 per 100 000), followed by Otago (285.8 per 100 000). Two hundred and seventy-two influenza swabs were received by the regional virology laboratories for testing. Of these, 147 influenza viruses were identified, 104 as A/Fujian/411/02 (H3N2), 40 as influenza A (yet to be subtyped), two as B/Sichuan/379/99 and one as influenza B (not typed).

In addition, 401 influenza viruses were reported for the laboratory-based (non-sentinel) in September. Of these, 239 were identified as influenza A (yet to be subtyped), 146 as A/Fujian/411/02 (H3N2), 15 as influenza B, and one as B/Sichuan/379/99. September 2004 shows a late increase in incidence compared with normal seasonality.

- *Meningococcal disease*: based on earliest¹ date available, 38 cases of meningococcal disease were notified during September 2004, of which 26 (68.4%) were laboratory-confirmed. In comparison, 42 cases were notified the previous month, and 69 cases were notified during September 2003. In September 2004, Tairāwhiti DHB recorded the highest current rate of 20.5 per 100 000 population (9 cases). Counties Manukau recorded the highest number of cases (68) and current rate of 18.1 per 100 000 population. The current rate of disease was highest amongst infants aged less than one year (98.8 per 100 000 population), followed by children in the 1-4 years age group (41.2).
- *Pertussis*: during September 2004, 533 cases were notified which is the second highest number notified in any one month since November 2000 (peak of the previous epidemic) (Figure 2). Of the 533 September 2004 cases, 108 (20.3%) were laboratory-confirmed. Fourteen cases (3.6% or 14/384) had been hospitalised. Southland DHB had the highest number of cases (186) and current incidence rate of 304.8 per 100 000 population, compared to a national rate of 52.5 per 100 000 population. The current rate by age group was highest amongst infants aged less than one year (250.7 per 100 000 population), followed by the children in the 5-9 years age group (138.4), and children in the 10-14 years age group (118.3).
- *Tetanus*: one case in the 60-69 years age group was notified from Waikato DHB. It is the only case reported so far this year. The case fell on the stairs and sustained a haematoma which then became infected. No vaccination documentation or risk factors were recorded.
- *VTEC*: eight cases of VTEC infection were notified in September bringing the total number of notified cases to 69 for the year to date. In comparison, two cases were notified during September 2003. Hospitalisation status was recorded for five cases of whom two were hospitalised. The ESR Enteric Reference Laboratory received isolates from six of the eight cases; five were serotype O157 and one as non-O157. The cases were reported from Waikato (2 cases), Lakes (2), Auckland, Counties Manukau, Taranaki, and Southland (1 each). Six cases were children aged less than five years, and one each in the 5-9 years age group and 40-49 years age group.

2. Deaths from notifiable diseases

The table below shows the deaths from notifiable diseases in September. Three deaths were reported this month.

Disease	District Health Board	Age group	Sex
Meningococcal disease	Lakes	5-9 years	Male
Meningococcal disease	Canterbury	40+ years	Male
Listeriosis - perinatal	MidCentral	N/A	N/A

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 in this section.

3. Trends in selected diseases to September 2004

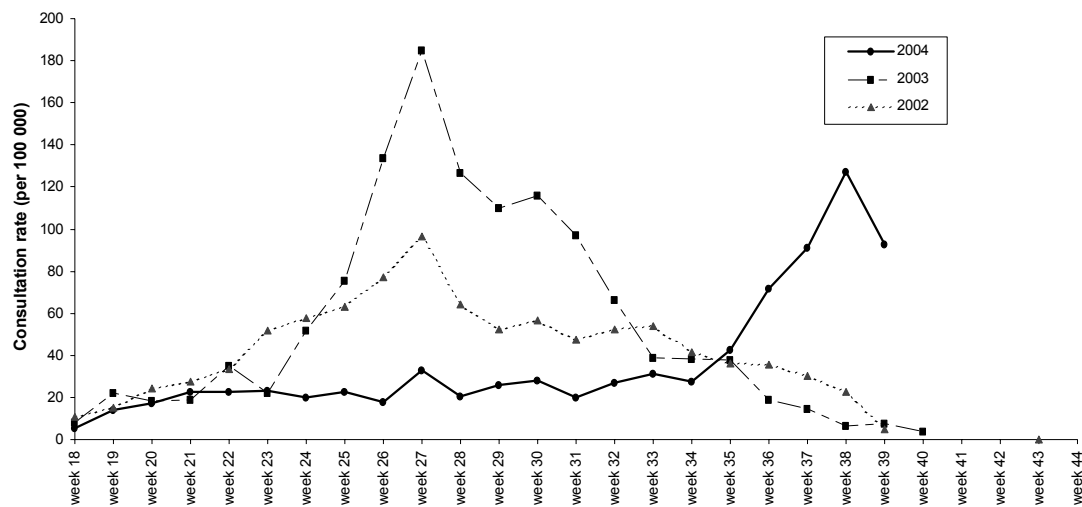


Figure 1: Weekly consultation rates for influenza-like illness in New Zealand, 2002-2004

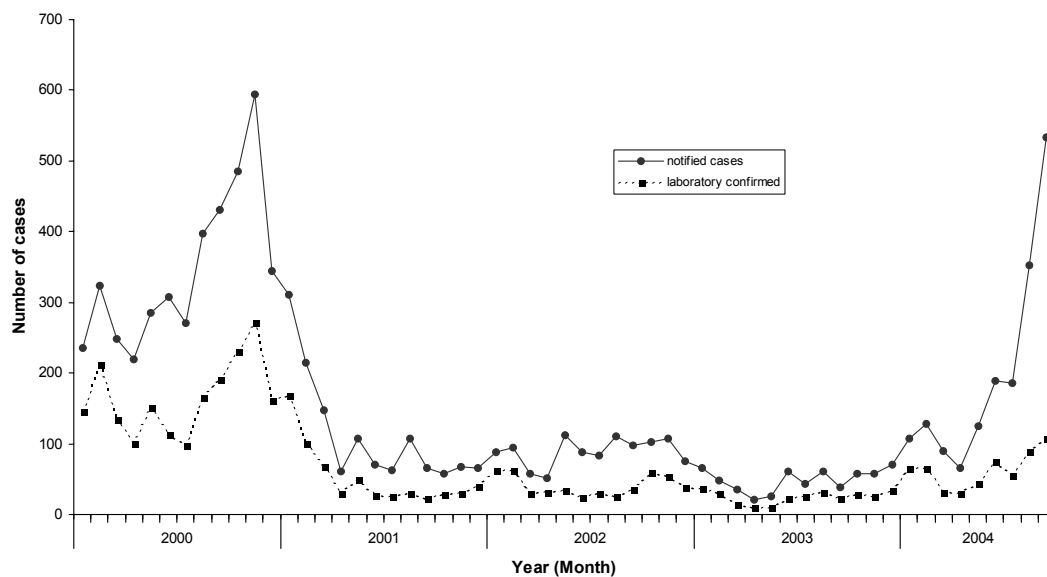


Figure 2: Pertussis notifications and laboratory confirmed cases by month, January 2000 - September 2004

4. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2004 ²			Previous year - 2003		
	Sep 2004 cases	Cumulative total since 1 January	Current rate ³	Sep 2003 cases	Cumulative total since 1 January	Previous rate ³
AIDS	4	25	0.9	5	27	0.8
Campylobacteriosis	913	8621	350.2	1389	10323	369.3
Cryptosporidiosis	161	321	17.1	181	501	24.1
Dengue fever	0	8	0.2	0	54	1.7
Gastroenteritis ⁴	51	984	33.9	110	744	29.7
Giardiasis	99	1157	41.4	129	1180	40.6
<i>H. influenzae</i> type b disease	1	3	0.1	1	11	0.3
Hepatitis A	3	44	1.5	8	57	1.9
Hepatitis B (acute) ⁵	2	33	1.2	4	50	1.8
Hepatitis C (acute) ⁵	1	22	0.8	9	31	1.1
Hydatid disease	0	0	0	0	0	0
Influenza ⁶	626	713	19.9	29	1021	27.9
Lead absorption	7	73	2.5	8	98	3.1
Legionellosis	4	52	2.2	5	48	1.6
Leprosy	0	2	0.1	0	2	0.1
Leptospirosis	10	86	3.1	16	84	3.1
Listeriosis	2	19	0.6	1	19	0.7
Malaria	2	27	1.0	7	35	1.2
Measles	1	23	1.3	5	42	1.2
Meningococcal disease ⁷	54	266	10.1	66	430	14.3
Mumps	5	32	1.3	5	40	1.6
Paratyphoid	1	16	0.6	2	12	0.4
Pertussis	533	1776	52.5	38	399	18.4
Rheumatic fever	3	44	1.9	14	123	3.9
Rickettsial disease	0	2	0.1	0	1	0
Rubella	3	18	0.6	2	20	0.6
Salmonellosis	72	824	30.8	106	1074	39.3
SARS	0	0	0	0	0	0
Shigellosis	8	102	3.3	2	64	2.3
Tetanus	1	1	0	0	2	0.1
Tuberculosis	29	267	10.5	45	295	11.0
Typhoid	7	28	0.8	0	17	0.6
VTEC / STEC infection	8	69	2.6	2	75	2.4
Yersiniosis	19	344	12.5	45	315	11.8

Notes: ¹ Other notifiable infectious diseases reported in September : Brucellosis

² These data are provisional

³ Rate is based on the cumulative total for the current year (12 months up to and including September 2004) or the previous year (12 months up to and including September 2003), expressed as cases per 100 000

⁴ Cases of gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication or toxic shellfish poisoning

⁵ Only acute cases of this disease are currently notifiable

⁶ Surveillance data based on laboratory-reported cases only

⁷ 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 September 2004 and preceding 12 months

Disease	Sep 2004	Aug 2004	Jul 2004	Jun 2004	May 2004	Apr 2004	Mar 2004	Feb 2004	Jan 2004	Dec 2003	Nov 2003	Oct 2003	Sep 2003
AIDS	4	3	4	2	0	3	2	4	3	5	2	0	5
Campylobacteriosis	913	912	827	844	670	680	1206	1074	1495	1542	1471	1454	1389
Cryptosporidiosis	161	50	12	13	18	10	21	19	17	30	92	195	181
Dengue fever	0	0	0	2	0	0	3	1	2	0	1	0	0
Gastroenteritis ²	51	90	88	166	113	199	88	72	117	89	127	66	110
Giardiasis	99	105	135	131	121	118	149	156	143	138	122	129	129
Haemophilus influenzae type b	1	0	1	1	0	0	0	0	0	1	0	0	1
Hepatitis A	3	4	5	2	6	6	5	7	6	5	3	5	8
Hepatitis B (acute) ³	2	4	7	2	4	1	2	8	3	2	4	5	4
Hepatitis C (acute) ³	1	2	3	0	3	0	5	8	0	4	3	2	9
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza ⁴	626	57	13	6	2	2	0	4	3	2	1	28	29
Lead absorption	7	8	8	7	10	6	10	7	10	2	9	10	8
Legionellosis	4	5	4	4	8	7	5	11	4	17	5	7	5
Leprosy	0	0	1	0	0	1	0	0	0	0	0	2	0
Leptospirosis	10	9	7	10	10	11	13	8	8	8	15	6	16
Listeriosis	2	2	1	1	1	2	4	3	3	2	3	0	1
Malaria	2	3	3	1	3	4	2	6	3	3	6	2	7
Measles	1	1	1	1	2	5	3	1	8	12	5	8	5
Meningococcal disease ⁵	54	41	35	25	29	23	29	11	19	27	34	51	66
Mumps	5	7	3	4	1	2	1	4	5	8	5	3	5
Paratyphoid	1	0	3	2	2	2	3	3	0	4	1	1	2
Pertussis	533	353	186	189	125	65	89	128	108	70	57	58	38
Rheumatic Fever	3	7	4	2	3	5	5	12	3	10	2	16	14
Rickettsial disease	0	1	0	0	1	0	0	0	0	0	0	0	0
Rubella	3	2	1	1	3	1	3	1	3	3	1	2	2
Salmonellosis	72	91	63	74	81	88	116	97	142	126	87	114	106
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	8	20	10	10	12	9	11	8	14	7	6	10	2
Tetanus	1	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	29	41	29	27	36	26	34	26	19	42	40	45	45
Typhoid	7	0	2	6	2	1	2	5	3	0	2	1	0
VTEC/STEC infection	8	8	4	6	5	3	6	16	13	5	8	16	2
Yersiniosis	19	28	32	38	43	34	40	45	65	40	41	43	45

Notes: ¹ Later data are provisional

² Cases of gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication or toxic shellfish poisoning

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⁴ Surveillance data based on laboratory-reported cases only

⁵ 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 - September 2004

Cases this month

Current rate¹

Disease	Cases for September 2004, 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	4			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	1.6			0.3	0	0.6	0	0	2.1	0	0	0.5	0	0.8	0.5	4.4	0	0	1.0	0
Campylobacteriosis	28	162	121	89	103	22	37	7	27	21	8	13	34	61	1	13	6	94	12	26	28
	218.3	380.9	388.0	301.2	427.1	381.3	291.3	254.9	380.4	361.5	311.2	208.4	395.2	471.0	269.6	223.7	290.8	341.8	433.9	355.5	349.3
Cryptosporidiosis	9	5	1	7	50	13	1	0	6	4	3	19	2	3	6	2	1	13	5	7	4
	14.3	4.2	3.0	5.3	43.7	41.7	11.2	13.7	13.6	27.2	23.6	31.6	6.8	6.1	28.8	16.3	16.5	16.4	72.0	30.5	26.1
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	0	1.3	0	0	0	1.0	0	0	0	0	0.8	0	0	0	0	0	0.6	0
Gastroenteritis	0	3	5	2	17	0	0	0	0	0	2	0	0	3	1	2	0	13	0	2	1
	4.3	20.7	24.5	19.2	96.0	6.3	0.6	0	4.9	4.2	15.7	83.2	27.3	29.3	10.5	13.9	16.5	52.2	142.1	38.7	47.4
Giardiasis	0	12	16	11	14	2	5	1	1	8	3	2	3	11	2	0	1	6	0	1	0
	25.7	39.3	61.5	34.6	65.8	57.3	29.2	29.6	19.4	51.5	33.0	25.2	51.6	54.9	23.6	36.7	46.3	36.3	18.9	25.2	22.3
H. influenzae type b disease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0	0	0	0	0.3	0	0.6	0	0	0	0	0	0.8	0	0	0	0	0.2	0	0	0
Hepatitis A	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	0	3.0	2.4	4.0	0.6	2.1	0.6	2.3	1.0	0.7	0	1.3	0	2.0	0	1.6	0	0.5	0	0.6	0
Hepatitis B	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.4	1.9	1.1	1.9	1.9	2.1	1.1	2.3	1.0	1.4	0	0	0	0.4	0	1.6	0	0.9	0	1.2	0
Hepatitis C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	0	1.2	0.5	0.3	0	1.0	2.8	4.6	0	0.7	0	0.6	0.8	0.4	10.5	0.8	6.6	0.5	0	0.6	1.0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead absorption	0	0	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	0	2	0
	2.1	1.4	1.6	0	2.8	3.1	0.6	6.8	1.0	2.8	1.6	4.5	0.8	2.4	0	1.6	0	3.3	3.8	10.5	6.8
Legionellosis	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.1	2.8	3.5	2.7	1.6	0	2.2	2.3	1.0	0	0	1.9	3.0	4.1	5.2	0.8	3.3	0.7	3.8	2.9	1.0
Leprosy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.2	0.3	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	0	1	0	0	1	0	0	1	0	5	0	2	0	0	0	0	0	0	0	0	0
	3.6	0.2	0.3	0.5	6.0	4.2	1.7	13.7	3.9	14.6	3.1	7.1	0	0	2.6	2.4	19.8	2.3	1.9	0.6	13.5
Listeriosis	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	0	1.2	0	0.5	0.9	3.1	0.6	0	0	0	0	1.3	0.8	0.8	0	0	0	0.2	0	1.2	1.9
Malaria	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	0.7	0.9	1.6	1.1	1.3	0	0	0	0	1.4	4.7	0	0	2.0	0	0.8	0	0.9	0	1.2	1.9
Measles	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	0	0.5	0.5	0.3	0.3	0	0	0	0	1.4	0	8.4	2.3	0	2.6	4.9	16.5	1.2	1.9	0	5.8
Meningococcal disease ⁹	4	8	6	3	3	5	1	3	0	3	1	5	1	5	0	0	0	4	0	1	1
	17.1	10.2	12.0	18.4	8.8	17.7	11.8	20.5	6.8	9.1	11.0	8.4	5.3	6.9	5.2	0.8	0	7.3	3.8	8.8	6.8
Mumps	1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
	1.4	0.7	0.5	1.1	0.3	0	0.6	0	0	1.4	9.4	2.6	2.3	3.3	0	1.6	0	1.2	1.9	1.8	1.0
Paratyphoid	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	0.9	0.8	1.3	0.9	0	0.6	0	0	0.7	0	0	0	0.4	0	0.8	0	0.5	0	0	0
Pertussis	1	9	8	2	87	11	9	2	1	0	0	5	3	1	1	90	0	69	14	34	186
	39.2	20.5	20.9	14.4	94.1	45.8	46.6	50.1	13.6	31.3	1.6	25.8	15.9	14.2	2.6	214.7	19.8	53.9	102.3	125.3	304.8
Rheumatic fever	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9.3	0.2	2.2	5.9	2.2	0	3.9	9.1	0	2.1	0	0	2.3	1.6	0	0	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	0.6	0
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0
	1.4	0.2	0.3	0	0	1.0	1.1	0	1.9	2.1	1.6	0	1.5	0.8	2.6	0.8	6.6	0.5	0	0.6	0
Salmonellosis	2	3	5	3	7	1	3	0	2	4	1	1	2	5	0	0	1	7	1	11	13
	28.5	22.3	29.1	31.4	38.1	27.1	32.0	20.5	30.1	48.1	25.2	14.2	22.8	28.1	26.2	31.0	13.2	32.3	58.7	40.4	48.4
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	1	1	0	1	1	0	0	0	0	0	0	0	2	0	0	1	0	0	0	1	0
	1.4	3.0	6.3	9.3	2.2	1.0	1.7	0	0	0	4.7	0	10.6	2.8	7.9	0.8	3.3	1.6	0	2.9	0
Tetanus	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	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	0	5	7	5	1	0	1	0	0	2	0	0	0	2	0	0	1	5	0	0	0
	4.3	13.3	19.0	16.8	11.0	5.2	6.2	2.3	3.9	17.4	3.1	7.7	9.9	19.1	13.1	2.4	3.3	5.9	1.9	3.5	1.9
Typhoid	0	1	1	3	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	0	0.9	1.1	4.0	0.6	1.0	0.6	0	0	0.7	0	0	0.8	0.4	0	0.8	0	0	0	0	0
VTEC / STEC	0	0	1	1	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	2.1	1.2	1.1	1.9	8.5	4.2	6.2	2.3	7.8	0.7	0	0.6	0.8	0.4	0	3.3	0	2.6	1.9	3.5	1.9
Yersiniosis	0	2	8	0	1	0	0	0	0	2	1	0	0	0	0	0	1	2	1	1	0
	2.1	15.6	18.2	9.9	13.5	10.4	7.3	11.4	5.8	15.3	9.4	9.0	19.0	16.7	13.1	6.5	46.3	12.6	18.9	7.6	4.8

1 Current rate is based on the cumulative total for the 12 months up to and including September 2004 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

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.