

## 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 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

- *Chemical poisoning:* five cases with elevated carboxyhaemoglobin due to exposure to a domestic gas supply to a hot water cylinder were notified in August. The cases ranged in age from 12 to 46 years, all from the same family. All cases were hospitalised.
- *Influenza:* during August, 453 consultations for influenza-like illness were reported from 82 general practices (on average) in 22 out of 24 health districts. The average weekly consultation rate for August was 32.1 per 100 000 patient population, compared to a rate of 56.0 per 100 000 patient population during the same month last year (Figure 1). South Auckland had the highest consultation rate (100.0 per 100 000), followed by Hutt (95.2 per 100 000). One hundred and twenty-four influenza swabs were received by the regional virology laboratories for testing. Of these, 42 influenza viruses were identified, 32 as A/Fujian/411/02 (H3N2), eight as influenza A (yet to be subtyped), and two as influenza B.

In addition, 79 influenza viruses were reported for the laboratory-based (non-sentinel) in August. Of these, 40 were identified as influenza A (yet to be subtyped), 35 as A/Fujian/411/02 (H3N2), three as influenza B, and one as B/Sichuan/379/99. Early inspection of the data for September 2004 indicates a late increase in incidence compared with normal seasonality.

- *Meningococcal disease:* based on earliest<sup>1</sup> date available, 41 cases of meningococcal disease were notified during August 2004, of which 28 (68.3%) were laboratory-confirmed. In comparison, 35 cases were notified the previous month, and 52 cases were notified during August 2003. In August 2004, Counties Manukau DHB recorded the highest current rate of 19.7 per 100 000 population. The current rate of disease was highest amongst infants

<sup>1</sup> 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.

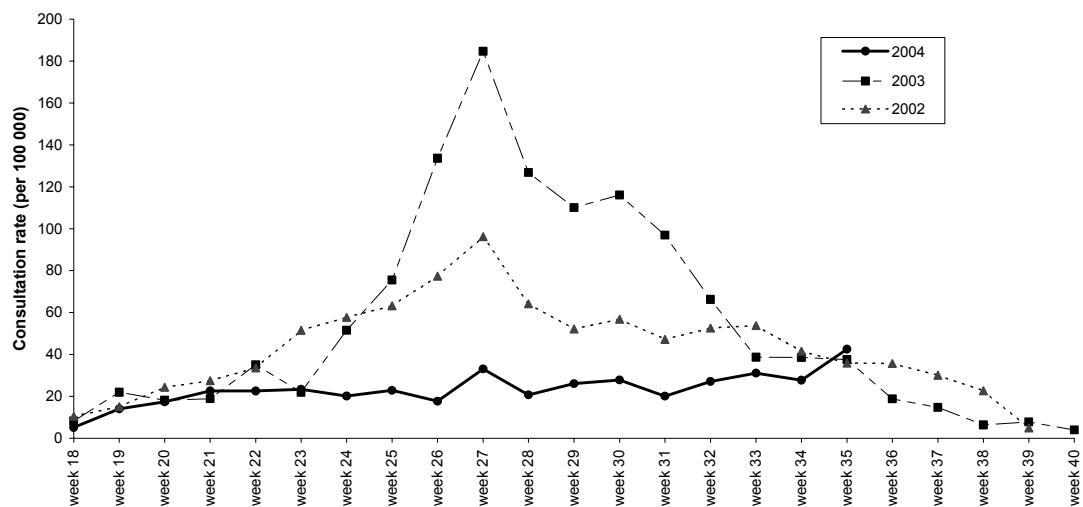
aged less than one year (102.5 per 100 000 population), followed by children in the 1-4 years age group (47.2).

- *Pertussis*: during August 2004, 352 cases were notified which is the highest number notified in any one month since November 2000 (Figure 2). Of the 352 August 2004 cases, 81 (23.0%) were laboratory-confirmed. Fourteen cases (5.5% or 14/254) had been hospitalised. Nelson-Marlborough DHB had the highest current incidence rate of 138.8 per 100 000 population (78 cases), compared to a national rate of 39.1 per 100 000 population. Southland DHB recorded the highest number of cases (84) for August 2004. The current rate by age group was highest amongst infants aged less than one year (232.4 per 100 000 population), followed by the children in the 5-9 years age group (110.4), and children in the 1-4 years age group (100.4).
- *Rickettsial disease*: One probable case of rickettsial disease with a raised Q fever (*Coxiella burnetti*) titre was reported from Otago DHB in August, bringing the year to date total to two. The case was a male in the 40-49 years age group who had been resident in Australia for 20 years. No additional information on risk factors was recorded.
- *Shigellosis*: 20 shigellosis cases were notified in August 2004 compared to two notified cases during August the previous year. The total so far this year of 94 cases is higher than the 62 cases for the same period last year. The cases were from Hutt (11), Waitemata (2), Auckland (2), Wairarapa (2), Counties Manukau (1), Waikato (1), and Capital and Coast (1) DHBs. The ESR Enteric Reference Laboratory received isolates from 15 of the 20 cases. The species involved were: *Shigella flexneri* 3a (7 cases), *S. flexneri* 2a (4), *S. flexneri* 6 (1), *S. sonnei* Biotype a (1), *S. sonnei* Biotype g (1), and *S. species* (1). Overseas travel was recorded for 10 of the cases, of which six had been overseas during the incubation period. The countries visited were: Ethiopia, Fiji, Indonesia, Thailand, Pakistan, and Samoa.

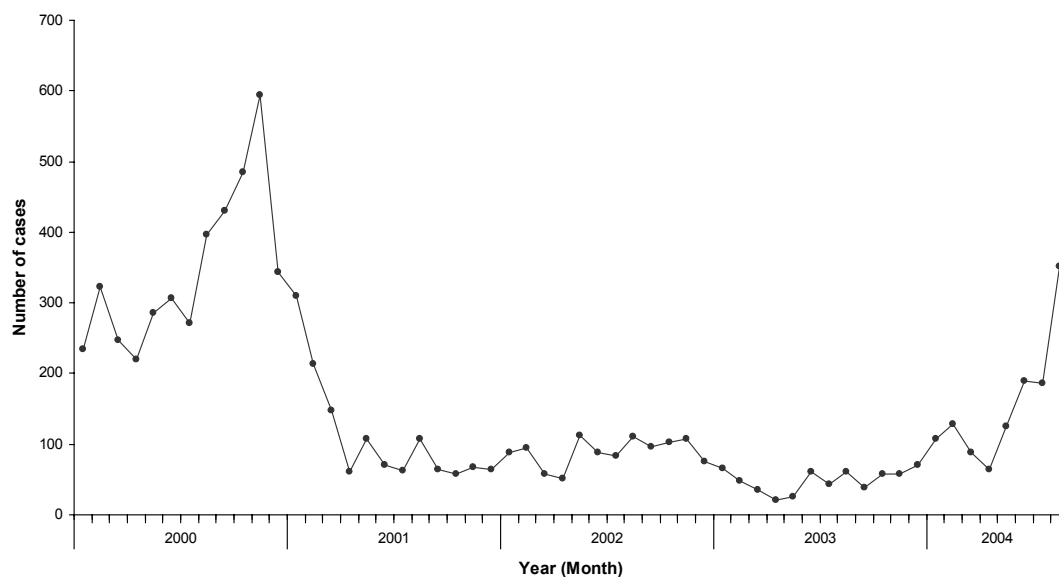
## **2. Deaths from notifiable diseases**

No deaths were reported for the month of August.

### 3. Trends in selected diseases to August 2004



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



**Figure 2: Pertussis notifications by month, January 2000 - August 2004**

## 4. Data Tables

### *Disease incidence and rates*

Disease <sup>1</sup>	Current year - 2004 <sup>2</sup>			Previous year - 2003		
	Aug 2004 cases	Cumulative total since 1 January	Current rate <sup>3</sup>	Aug 2003 cases	Cumulative total since 1 January	Previous rate <sup>3</sup>
AIDS	3	21	0.9	1	22	0.7
Campylobacteriosis	916	7710	363.0	1394	8934	363.6
Cryptosporidiosis	50	160	17.6	60	320	25.7
Dengue fever	0	8	0.2	1	54	1.7
Gastroenteritis <sup>4</sup>	87	931	35.4	45	634	28.6
Giardiasis	106	1061	42.3	139	1051	40.0
<i>H. influenzae</i> type b disease	0	2	0.1	3	10	0.3
Hepatitis A	4	41	1.7	7	49	1.7
Hepatitis B (acute) <sup>5</sup>	5	32	1.3	9	46	1.8
Hepatitis C (acute) <sup>5</sup>	2	21	1.0	3	22	1.0
Hydatid disease	0	0	0	0	0	0
Influenza <sup>6</sup>	57	87	3.9	264	992	29.9
Lead absorption	8	66	2.5	11	90	3.0
Legionellosis	4	47	2.2	2	43	1.5
Leprosy	0	2	0.1	0	2	0.1
Leptospirosis	8	75	3.2	9	68	3.1
Listeriosis	2	17	0.6	2	18	0.7
Malaria	3	25	1.2	2	28	1.1
Measles	2	23	1.4	4	37	1.1
Meningococcal disease <sup>7</sup>	41	213	10.5	51	364	14.4
Mumps	8	28	1.3	1	35	1.6
Paratyphoid	0	15	0.6	1	10	0.3
Pertussis	352	1240	39.1	61	361	19.9
Rheumatic fever	7	41	2.2	35	109	3.7
Rickettsial disease	1	2	0.1	1	1	0.1
Rubella	3	17	0.7	6	18	0.6
Salmonellosis	91	752	31.7	106	968	40.0
SARS	0	0	0	0	0	0
Shigellosis	20	94	3.2	2	62	2.3
Tetanus	0	0	0	0	2	0.1
Tuberculosis	39	239	11.0	27	250	10.5
Typhoid	0	21	0.6	3	17	0.6
VTEC / STEC infection	7	60	2.4	5	73	2.5
Yersiniosis	28	326	13.2	35	270	11.3

**Notes:** <sup>1</sup> Other notifiable infectious diseases reported in August :Chemical Poisoning

<sup>2</sup> These data are provisional

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

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

<sup>5</sup> Only acute cases of this disease are currently notifiable

<sup>6</sup> Surveillance data based on laboratory-reported cases only

<sup>7</sup> 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 August 2004 and preceding 12 months*

Disease	Aug 2004	Jul 2004	Jun 2004	May 2004	Apr 2004	Mar 2004	Feb 2004	Jan 2004	Dec 2003	Nov 2003	Oct 2003	Sep 2003	Aug 2003
AIDS	3	4	2	0	3	2	4	3	5	2	0	5	1
Campylobacteriosis	916	826	845	669	680	1205	1074	1495	1542	1471	1454	1389	1394
Cryptosporidiosis	50	12	13	18	10	21	19	17	30	92	195	181	60
Dengue fever	0	0	2	0	0	3	1	2	0	1	0	0	1
Gastroenteritis <sup>2</sup>	87	88	167	113	199	88	72	117	89	127	66	110	45
Giardiasis	106	135	132	121	118	150	156	143	138	122	129	129	139
Haemophilus influenzae type b	0	1	1	0	0	0	0	0	1	0	0	1	3
Hepatitis A	4	5	2	6	6	5	7	6	5	3	5	8	7
Hepatitis B (acute) <sup>3</sup>	5	7	2	4	1	2	8	3	2	4	5	4	9
Hepatitis C (acute) <sup>3</sup>	2	3	0	3	0	5	8	0	4	3	2	9	3
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza <sup>4</sup>	57	13	6	2	2	0	4	3	2	1	28	29	264
Lead absorption	8	8	7	10	6	10	7	10	2	9	10	8	11
Legionellosis	4	4	4	8	7	5	11	4	17	5	7	5	2
Leprosy	0	1	0	0	1	0	0	0	0	0	2	0	0
Leptospirosis	8	7	10	10	11	13	8	8	8	15	6	16	9
Listeriosis	2	1	1	1	2	4	3	3	2	3	0	1	2
Malaria	3	3	1	3	4	2	6	3	3	6	2	7	2
Measles	2	1	1	2	5	3	1	8	12	5	8	5	4
Meningococcal disease <sup>5</sup>	41	36	25	29	23	29	11	19	27	34	51	66	51
Mumps	8	3	4	1	2	1	4	5	8	5	3	5	1
Paratyphoid	0	3	2	2	2	3	3	0	4	1	1	2	1
Pertussis	352	183	190	125	65	89	128	108	70	57	58	38	61
Rheumatic Fever	7	4	2	3	5	5	12	3	10	2	16	14	35
Rickettsial disease	1	0	0	1	0	0	0	0	0	0	0	0	1
Rubella	3	1	1	3	1	3	2	3	3	1	2	2	6
Salmonellosis	91	63	74	81	88	116	97	142	126	87	114	106	106
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	20	10	10	12	9	11	8	14	7	6	10	2	2
Tetanus	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	39	29	29	36	26	35	26	19	42	40	45	45	27
Typhoid	0	2	6	2	1	2	5	3	0	2	1	0	3
VTEC/STEC infection	7	4	6	5	3	6	16	13	5	8	16	2	5
Yersiniosis	28	32	38	43	34	40	46	65	40	41	43	45	35

**Notes:** <sup>1</sup> Later data are provisional

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

<sup>3</sup> Only acute cases of this disease are currently notifiable

<sup>4</sup> Surveillance data based on laboratory-reported cases only

<sup>5</sup> 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 2004

Cases this month

Current rate<sup>1</sup>

Disease	Cases for August 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 <sup>5</sup>	0	1			0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
	0.7	1.4			0.3	0	0.6	0	0	2.1	0	0	1.1	0	0.8	1.1	4.4	0	0.6	1.0	
Campylobacteriosis	28	139	111	116	102	19	37	7	28	28	12	20	24	53	9	16	0	74	15	51	27
	220.5	374.2	382.1	300.9	451.0	406.3	291.9	270.8	398.9	404.0	334.8	223.3	449.0	515.3	316.7	234.3	300.7	360.3	445.2	359.0	345.5
Cryptosporidiosis	1	1	2	2	21	0	3	0	0	4	4	3	1	2	1	1	0	2	2	0	0
	12.1	4.7	3.5	4.5	46.3	38.5	11.8	15.9	9.7	32.7	25.2	30.3	6.1	5.3	23.6	15.5	33.0	16.4	85.3	32.2	29.0
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	9	5	6	34	1	0	0	0	3	1	0	2	5	0	0	0	16	0	4	1
	4.3	20.9	25.0	19.2	91.6	7.3	1.1	0	4.9	4.9	12.6	83.2	27.3	32.1	10.5	12.2	19.8	52.9	151.6	38.7	98.7
Giardiasis	2	16	15	8	8	5	4	1	0	3	0	3	5	12	0	6	0	11	0	4	3
	27.1	41.0	60.4	33.8	68.9	61.5	30.9	31.9	18.4	50.1	28.3	25.8	53.1	57.3	20.9	37.6	49.6	37.5	18.9	26.9	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
	0.7	0	0	0	0.3	0	0.6	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0
Hepatitis A	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	3.0	2.7	4.8	0.6	1.0	0.6	2.3	1.0	0.7	1.6	0.6	0	2.4	0	1.6	0	0.7	0	0.6	0
Hepatitis B	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1.4	1.9	1.1	1.9	1.3	5.2	1.1	2.3	1.0	2.1	0	0	0	0.8	0	1.6	0	0.9	0	1.2	0
Hepatitis C	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	0	1.2	0.5	0.5	0	1.0	3.4	4.6	0	0.7	0	0.6	0.8	1.2	10.5	0	13.2	1.2	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	0	1	0	0	1	0	0	1	0	2	0	0	0	1	0	2	0
	2.1	1.6	1.6	0.3	2.5	3.1	0	4.6	1.0	2.8	1.6	5.8	0	3.3	0	1.6	0	3.5	3.8	9.4	6.8
Legionellosis	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0
	2.1	3.0	3.3	2.7	1.3	0	2.8	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	0	1	0	0	0	1	1	0	2	1	1	0	0	0	0	0	1	0	0	0
	3.6	0	0.3	0.5	7.2	4.2	1.7	15.9	4.9	11.8	1.6	7.1	0	0	2.6	3.3	19.8	3.0	1.9	0.6	14.5
Listeriosis	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	0	1.2	0.3	0.3	0.9	3.1	0.6	0	0	0	0	0.6	0.8	0.8	0	0	0	0.2	0	1.2	1.9
Malaria	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0.7	1.2	1.9	1.3	1.3	0	0	0	0	1.4	4.7	0	0	2.0	0	0.8	0	1.4	0	1.8	1.0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	0	0.7	0.5	0.3	0.3	0	0	0	0	1.4	0	7.7	3.8	0.4	2.6	4.9	16.5	1.2	1.9	0	7.7
Meningococcal disease <sup>5</sup>	2	6	5	7	5	1	2	1	0	1	0	1	0	2	0	0	0	4	0	2	2
	15.0	10.7	12.2	20.0	9.1	17.7	13.5	15.9	7.8	8.4	15.7	5.2	5.3	6.9	5.2	0.8	0	7.7	3.8	11.1	7.7
Mumps	0	0	1	2	0	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	1
	0.7	0.5	0.3	1.3	0.3	0	0.6	2.3	0	2.1	9.4	2.6	2.3	3.7	0	1.6	0	1.2	1.9	1.8	1.0
Paratyphoid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	1.2	0.8	1.3	0.6	0	0.6	0	0	0.7	0	0	0	0.4	0	0.8	0	0.7	0	0	0
Pertussis	0	9	10	4	48	4	10	1	3	3	0	10	2	2	0	78	1	43	15	25	84
	39.2	20.2	19.3	15.2	69.2	34.4	41.5	50.1	12.6	32.7	1.6	22.6	14.4	14.2	0	138.8	19.8	39.3	75.8	105.4	125.8
Rheumatic fever	3	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	10.0	0.2	3.0	8.3	2.5	0	2.2	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	1	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	1	0	0	0	0	1	0	0	0	1	0	0	0
	1.4	0.2	0.5	0	0	1.0	1.1	0	1.9	2.8	1.6	0	0.8	1.2	2.6	0.8	0	0.5	0	1.2	0
Salmonellosis	1	16	13	9	13	2	4	0	1	5	2	2	5	4	1	1	0	5	0	1	6
	28.5	22.8	30.5	33.0	40.3	27.1	32.6	25.0	29.1	48.1	25.2	14.2	25.0	28.9	28.8	35.1	13.2	32.5	58.7	41.0	47.4
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	0	2	2	1	1	0	0	0	0	0	0	0	11	1	2	0	0	0	0	0	0
	0.7	2.8	6.3	9.1	1.9	1.0	1.7	0	0	0	4.7	0	9.1	3.3	7.9	0	3.3	1.6	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	1	4	8	9	5	0	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0
	6.4	13.5	19.6	17.8	11.0	6.3	5.6	4.6	10.7	16.7	3.1	8.4	9.9	19.9	7.9	3.3	0	4.9	1.9	5.3	1.9
Typhoid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.7	0.8	3.2	0.6	0	0.6	0	0	0.7	0	0	0	0.4	0	0.8	0	0	0	0	0
VTEC / STEC	0	0	0	1	2	0	1	0	0	0	0	0	1	0	0	2	0	0	0	0	0
	2.1	1.2	0.8	1.6	8.2	2.1	5.6	2.3	6.8	0.7	0	0.6	0.8	0.4	0	4.1	0	2.6	1.9	3.5	1.0
Yersiniosis	1	1	2	5	3	0	0	0	4	1	0	3	0	0	0	2	0	4	1	1	0
	2.1	16.5	16.9	10.4	13.5	10.4	9.5	20.5	6.8	16.7	9.4	9.7	19.7	17.9	15.7	9.0	46.3	13.1	18.9	9.4	5.8

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