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## MONTHLY SURVEILLANCE REPORT

Data contained within this March monthly report is based on information recorded on EpiSurv by public health service staff up until 6 April 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

- *Campylobacteriosis*: 1204 cases were notified in March 2004 – the highest ever recorded total for the month of March. This brings the year-to-date total to 3774. Of the March campylobacteriosis notifications 1159 (96.3%) were confirmed. Incidence rates were highest in the 20-29 years age group, with a monthly rate of 46.4 per 100 000 (226 cases), followed by the 1-4 years age group, with a monthly rate of 45.7 per 100 000 (25 cases). Capital and Coast and Hutt DHBs experienced the highest monthly incidence rate of 56.9 per 100 000, compared to a national rate of 32.2 per 100 000. According to information recorded on EpiSurv, four campylobacteriosis outbreaks occurred in March. One outbreak involved 17 cases.
- *Cryptosporidiosis*: a total of 22 laboratory confirmed cases was notified in March. From January 2004 there has been a steady increase in the cryptosporidiosis notifications, bringing the year-to-date total to 58 cases. Monthly rates were nearly 6 times higher in the less than one year age group than in the general population. The incidence rate was highest in West Coast DHB with a monthly rate of 3.3 per 100 000, compared to a national rate of 0.6 per 100 000.
- *Lead Absorption*: 10 cases of lead absorption were notified during March 2004, compared to 24 during March 2003. One case was aged less than 5 years, and the remaining cases (9) were aged 15-55 years. Of the 10 lead absorption notification, 6 cases were laboratory confirmed and one case is still under investigation.
- *Legionellosis*: 7 cases of legionellosis were notified in March, and according to information recorded on EpiSurv all these cases were laboratory confirmed. In comparison, 11 cases were notified during February 2004 and March 2003. Of the March notifications, 4 cases had both clinical evidence and radiological evidence of pneumonia. Five cases were hospitalised. One case was aged between 20 and 29 years and the remaining cases were aged between 50 and 80 years.

In March, there were 3 legionellosis cases from Auckland, 2 from Counties Manukau, one from Waitemata and one from Waikato DHBs.

- *Meningococcal disease*: based on earliest date available, 26 cases of meningococcal disease were notified during March 2004, of which 15 (57.7%) were laboratory-confirmed. In comparison, 27 cases were notified during March 2003. Where hospitalisation status was known (22 cases), all cases were hospitalised. Rates of disease were highest in the less than one year age group with a monthly rate of 9.1 per 100 000 (5 cases). Lakes DHB recorded the highest monthly rate of 3.1 per 100 000 population (3 cases), compared to a national monthly rate of 0.7 per 100 000 population.
- *Pertussis*: during March 2004 there were 87 pertussis notifications, compared to 127 cases the previous month, and 35 cases during March the previous year. Of the March notifications 36 (41.4%) cases were laboratory confirmed. Of the 33 cases for whom this information was recorded, 10 (30.3%) had contact with a laboratory confirmed case of pertussis. Among the 87 pertussis cases, 78 (89.7%) cases were reported from general practitioners, 7 (8.0%) cases were reported from hospital-based practitioners, one (1.1%) case was from laboratory notifications and 1 (1.1%) case was reported from other sources. Bay of Plenty DHB experienced the highest monthly incidence rate of 5.1 per 100 000, compared to a national rate of 2.3 per 100 000. According to information recorded on EpiSurv, one outbreak occurred in March.
- *Shigellosis*: 12 cases of shigellosis were notified during March 2004. This brings the year-to-date total to 34 cases. Hospitalisation status was recorded for 7 cases, of whom 3 were hospitalised. For the 5 cases with travel information records, 4 had been overseas during the incubation period. Incidence rates were highest in the 1 to 4 years age group, with a monthly rate of 1.4 per 100 000 (3 cases), compared to a national rate of 0.3 per 100 000.
- *Tuberculosis*: 41 cases of Tuberculosis were notified in March, of whom 23 (56.1%) were laboratory confirmed. Among the 39 cases with recorded ethnicity, 14 cases were of 'Other ethnicity', 11 were European, 9 were Maori and 5 were Pacific peoples. Twenty-eight cases were hospitalised. Country of birth was recorded for 27 cases, of whom 17 (63.0%) were born overseas. Among overseas born cases for whom date of arrival in New Zealand was recorded, 3 arrived less than one year, 6 arrived between one and five years, and 6 cases arrived more than five years prior to notification.
- *VTEC/STEC*: 6 VTEC/STEC cases were notified during March 2004 and these cases were confirmed by the ESR Enteric Reference Laboratory (ERL). Of the March notifications, 2 cases were aged less than 5 years and the remaining 4 cases were aged 40 years or more. Among the 5 notified cases for whom this information was recorded, 2 cases had recreational contact with water and with animals during the week before becoming ill.

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

No deaths were reported during March 2004 due to any notifiable disease.

### 3. Data Tables

#### *Disease incidence and rates*

Disease <sup>1</sup>	Current year - 2004 <sup>2</sup>			Previous year - 2003		
	Mar 2004 cases	Cumulative total since 1 January	Current rate <sup>3</sup>	Mar 2003 cases	Cumulative total since 1 January	Previous rate <sup>3</sup>
AIDS	2	9	0.9	2	11	0.6
Campylobacteriosis	1204	3774	383.2	1189	4242	349.6
Cryptosporidiosis	22	58	19.8	52	136	27.0
Dengue fever	3	6	1.0	7	22	2.2
Gastroenteritis <sup>4</sup>	72	259	28.8	97	210	28.7
Giardiasis	148	447	43.0	148	409	40.9
<i>H. influenzae</i> type b disease	0	0	0.2	1	3	0.2
Hepatitis A	6	19	1.7	8	26	2.1
Hepatitis B (acute) <sup>5</sup>	2	14	1.6	3	15	1.8
Hepatitis C (acute) <sup>5</sup>	5	13	1.3	2	6	1.3
Hydatid disease	0	0	0	0	0	0.1
Influenza <sup>6</sup>	0	7	28.2	5	5	18.6
Lead absorption	10	27	2.7	24	45	3.0
Legionellosis	7	22	2.3	2	11	1.3
Leprosy	0	0	0.1	0	1	0.1
Leptospirosis	14	32	3.1	9	33	3.7
Listeriosis	2	8	0.6	3	8	0.6
Malaria	2	11	1.2	1	13	1.4
Measles	6	16	1.9	7	10	0.7
Meningococcal disease <sup>7</sup>	30	63	13.5	28	102	15.4
Mumps	1	10	1.4	3	14	1.7
Paratyphoid	3	6	0.5	1	7	0.5
Pertussis	87	324	20.3	35	149	26.1
Rheumatic fever	5	20	3.8	13	29	2.2
Rickettsial disease	0	0	0	0	0	0.2
Rubella	3	8	0.7	1	7	1.0
Salmonellosis	113	353	34.2	149	474	40.6
SARS	0	0	0	0	0	0
Shigellosis	12	34	2.7	3	19	2.6
Tetanus	0	0	0.1	0	0	0
Tuberculosis	41	90	11.2	28	92	10.4
Typhoid	2	10	0.6	2	9	0.6
VTEC / STEC infection	6	35	3.2	10	21	2.0
Yersiniosis	39	149	11.9	44	143	12.4

**Notes:** <sup>1</sup> Other notifiable infectious diseases reported in March :Chemical poisoning from the environment, Ross River virus

<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 March 2004) or the previous year (12 months up to and including March 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 March 2004 and preceding 12 months*

Disease	Mar 2004	Feb 2004	Jan 2004	Dec 2003	Nov 2003	Oct 2003	Sep 2003	Aug 2003	Jul 2003	Jun 2003	May 2003	Apr 2003	Mar 2003
AIDS	2	4	3	5	2	0	5	1	5	3	2	1	2
Campylobacteriosis	1204	1075	1495	1542	1472	1454	1389	1394	1070	750	710	768	1189
Cryptosporidiosis	22	19	17	30	92	195	181	60	16	29	31	48	52
Dengue fever	3	1	2	0	1	0	0	1	3	3	15	10	7
Gastroenteritis <sup>2</sup>	72	71	116	87	127	66	110	46	73	121	112	75	97
Giardiasis	148	156	143	138	122	129	129	139	110	153	117	123	148
Haemophilus influenzae type b	0	0	0	1	0	0	1	3	2	1	1	0	1
Hepatitis A	6	7	6	5	3	5	8	7	5	5	4	2	8
Hepatitis B (acute) <sup>3</sup>	2	9	3	2	4	5	4	9	6	5	4	7	3
Hepatitis C (acute) <sup>3</sup>	5	8	0	4	3	2	9	3	4	2	1	6	2
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza <sup>4</sup>	0	4	3	2	1	28	29	264	645	72	6	0	5
Lead absorption	10	7	10	2	9	10	8	11	6	11	13	4	24
Legionellosis	7	11	4	16	5	7	5	2	8	8	8	6	2
Leprosy	0	0	0	0	0	2	0	0	0	0	1	0	0
Leptospirosis	14	9	9	8	15	7	16	10	5	8	6	7	9
Listeriosis	2	3	3	2	3	0	1	2	2	2	2	2	3
Malaria	2	6	3	3	6	2	7	2	5	3	3	2	1
Measles	6	2	8	12	4	8	5	4	7	5	9	2	7
Meningococcal disease <sup>5</sup>	30	12	21	27	34	51	66	51	88	52	41	30	28
Mumps	1	5	4	8	5	3	5	1	10	2	2	6	3
Paratyphoid	3	3	0	4	1	1	2	1	1	0	1	0	1
Pertussis	87	128	109	70	57	58	38	61	44	61	25	21	35
Rheumatic Fever	5	12	3	10	2	16	14	35	18	2	7	18	13
Rickettsial disease	0	0	0	0	0	0	0	1	0	0	0	0	0
Rubella	3	2	3	3	1	2	2	6	2	2	0	1	1
Salmonellosis	113	98	142	126	87	114	106	106	72	79	105	132	149
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	12	8	14	7	6	10	2	2	15	7	10	9	3
Tetanus	0	0	0	0	0	0	0	0	0	1	0	1	0
Tuberculosis	41	29	20	42	40	43	44	28	33	30	30	38	28
Typhoid	2	5	3	0	2	1	0	3	2	1	2	0	2
VTEC/STEC infection	6	16	13	5	8	16	2	5	6	3	19	19	10
Yersiniosis	39	45	65	40	41	43	45	35	35	18	21	18	44

**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 - March 2004

Cases this month

Current rate<sup>1</sup>

Disease	Cases for March 2004, <sup>2</sup> and current rate <sup>1,2</sup> by District Health Board <sup>3,4</sup>																				
	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 <sup>5</sup>	0	2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	2.0			0.3	0	0.6	0	0	0.7	0	0	0.8	0	0	0.8	4.4	0	0	0.6	0
Campylobacteriosis	21	134	138	97	117	30	59	11	24	47	18	22	75	140	5	18	7	142	19	48	32
	211.9	403.0	398.4	313.1	473.7	427.2	316.6	307.2	410.5	442.3	353.7	223.9	495.3	562.5	376.9	260.5	343.6	408.6	407.3	323.3	284.5
Cryptosporidiosis	1	2	1	1	3	1	0	0	0	3	1	0	0	0	0	2	1	4	0	2	0
	15.0	4.0	3.8	4.8	45.3	44.8	14.0	15.9	10.7	36.9	22.0	29.0	9.9	24.4	26.2	18.8	36.3	19.0	90.9	30.5	29.0
Dengue fever	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	0.7	1.6	3.3	0.5	0.9	1.0	0.6	0	1.0	0	0	0	1.5	2.0	0	0	0	0.5	0	0.6	1.0
Gastroenteritis	1	5	10	2	8	1	0	0	0	0	0	0	1	2	0	1	2	23	1	6	9
	18.6	23.5	29.1	19.2	25.5	17.7	1.7	0	7.8	1.4	9.4	26.5	25.8	33.8	18.3	29.4	13.2	50.3	170.5	24.6	94.8
Giardiasis	1	12	23	10	21	4	5	2	5	8	4	3	0	20	1	4	1	13	1	10	0
	16.4	38.9	62.8	37.8	71.1	65.6	37.6	34.1	14.6	59.2	25.2	27.7	39.4	59.0	23.6	40.8	46.3	39.3	13.3	29.3	18.4
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
	2.1	0	0	0.5	0	0	1.1	0	0	0.7	0	0	0	0	0	0	0	0.2	0	0	0
Hepatitis A	0	1	3	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	0	2.6	3.5	2.9	0.9	2.1	0.6	4.6	0	2.1	1.6	0	0	2.8	0	1.6	0	0.9	0	1.8	0
Hepatitis B	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.4	2.1	2.2	2.4	1.6	5.2	1.7	2.3	1.0	1.4	0	1.3	1.5	1.2	2.6	0.8	0	0.2	1.9	1.8	1.0
Hepatitis C	0	1	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0
	0.7	1.2	1.6	0.5	0	1.0	3.9	2.3	0	1.4	3.1	1.9	0.8	1.2	10.5	0	6.6	1.4	0	0	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	2	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	1	1	0
	2.9	1.4	2.2	0.3	3.8	1.0	0.6	4.6	1.0	2.1	4.7	7.1	0	4.9	5.2	2.4	0	2.8	5.7	8.2	1.9
Legionellosis	0	1	3	2	1	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
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	0	0	0	0	0	0	0	0
Leptospirosis	0	0	0	1	4	0	0	0	0	4	0	0	0	0	0	1	2	0	1	0	1
	5.7	0.2	0.3	0.8	7.6	2.1	2.2	13.7	4.9	9.8	3.1	4.5	0	0	2.6	7.3	13.2	2.6	3.8	1.8	6.8
Listeriosis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1.4	1.4	0.5	0.5	0.9	1.0	0	0	0	0	0	1.9	0	0.8	0	0	0	0.2	0	0.6	1.0
Malaria	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	1.2	1.1	1.3	1.3	0	0	0	0	1.4	4.7	0	2.3	1.6	0	0.8	0	1.6	0	2.3	1.0
Measles	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0
	0.7	1.2	1.4	0.8	0.3	0	0	0	0	1.4	1.6	11.0	3.0	0.8	2.6	9.8	16.5	0.9	3.8	0.6	5.8
Meningococcal disease <sup>5</sup>	1	3	5	7	0	4	2	0	0	3	1	0	0	0	0	0	0	0	0	3	1
	24.3	12.3	16.9	27.4	11.6	26.0	21.3	9.1	5.8	13.2	25.2	5.8	7.6	8.1	2.6	0.8	3.3	7.0	5.7	12.3	9.7
Mumps	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	5.0	0.5	0	0.3	0.3	0	0.6	2.3	1.0	2.1	4.7	1.3	1.5	3.3	0	3.3	0	2.1	0	3.5	1.0
Paratyphoid	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0.7	1.4	0.8	0.5	0.3	0	0	0	0	0	0	0	0	0.4	0	0	0	0.7	0	0	0
Pertussis	4	6	5	6	13	2	9	0	2	5	0	0	6	3	0	6	1	7	2	6	4
	37.1	17.5	14.7	12.5	35.9	18.8	25.3	22.8	7.8	44.6	6.3	9.0	12.9	7.7	0	29.4	13.2	21.3	58.7	21.1	19.4
Rheumatic fever	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5.7	1.9	7.3	16.0	2.2	4.2	3.9	6.8	0	4.9	1.6	0.6	4.6	1.2	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	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	1.4	0.2	0.3	0.3	0	1.0	0.6	0	0	4.2	0	0.6	0	1.2	2.6	1.6	9.9	0.5	0	1.2	0
Salmonellosis	5	13	9	8	13	3	5	0	5	5	0	0	0	14	0	5	0	19	1	6	2
	29.3	26.3	33.7	36.5	43.4	24.0	29.7	34.1	26.2	52.2	31.4	20.0	27.3	35.0	36.6	35.9	9.9	34.9	70.1	41.6	41.6
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	0.7	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	1	2	2	3	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0	0
	1.4	4.0	7.9	5.9	1.3	1.0	0.6	0	0	0.7	0	0	0.8	3.3	0	0.8	3.3	2.3	0	1.8	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	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0
Tuberculosis	0	2	5	7	4	1	2	0	0	5	0	3	0	4	1	1	0	4	0	2	0
	7.1	14.7	23.1	20.5	7.6	7.3	10.1	0	9.7	15.3	3.1	5.8	11.4	16.3	2.6	3.3	3.3	4.0	3.8	4.7	2.9
Typhoid	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.5	1.6	2.4	0.3	0	0	0	0	0.7	0	0	0	0.8	0	0	0	0	0	0	0
VTEC / STEC	0	1	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
	5.7	1.9	1.4	2.4	8.5	3.1	5.6	0	8.7	0.7	0	1.9	0	0.8	0	4.1	3.3	2.8	11.4	4.7	1.0
Yersiniosis	0	8	4	4	4	3	0	0	0	3	0	4	2	3	0	0	0	1	2	1	0
	2.9	17.2	16.3	6.7	13.5	12.5	7.9	20.5	2.9	11.8	6.3	5.8	14.4	16.3	18.3	7.3	39.7	13.3	17.1	7.6	4.8

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