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## MONTHLY SURVEILLANCE REPORT

Data contained within this November monthly report is based on information recorded on EpiSurv by public health service staff up until 7 December 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

- *Hydatid disease*: a case of laboratory confirmed hydatid disease was notified during November. The case was an adult female farmer who had contact with dogs.
- *Meningococcal disease*: based on earliest<sup>1</sup> date available, 26 cases of meningococcal disease were notified during November 2004, of which 18 (69.2%) were laboratory-confirmed. In comparison, 35 cases were notified the previous month, and 34 cases were notified during November 2003. In November 2004, Tairāwhiti DHB recorded the highest current rate of 29.6 per 100 000 population (13 cases). Counties Manukau recorded the highest number of cases (55) with a current rate of 14.6 per 100 000 population. The rate of disease was highest amongst infants aged less than one year (82.3 per 100 000 population), followed by children in the 1-4 years age group (45.3).
- *Pertussis*: during November 2004, 611 cases were notified the highest number notified in any one month surpassing the highest peak in the 2000 epidemic (594 cases) (Figure 1). Of the 611 November 2004 cases, 184 (30.1%) were laboratory-confirmed and 26 cases (5.1% or 26/505) had been hospitalised. Canterbury DHB had the highest number of cases (170). Southland DHB had the highest current incidence rate of 516.8 per 100 000 population (92 cases), compared to a national rate of 80.8 per 100 000 population. The current rate by age group was highest amongst infants aged less than one year (314.7 per 100 000 population), followed by the children in the 5-9 years age group (205.4), and children in the 10-14 years age group (185.7).

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<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.

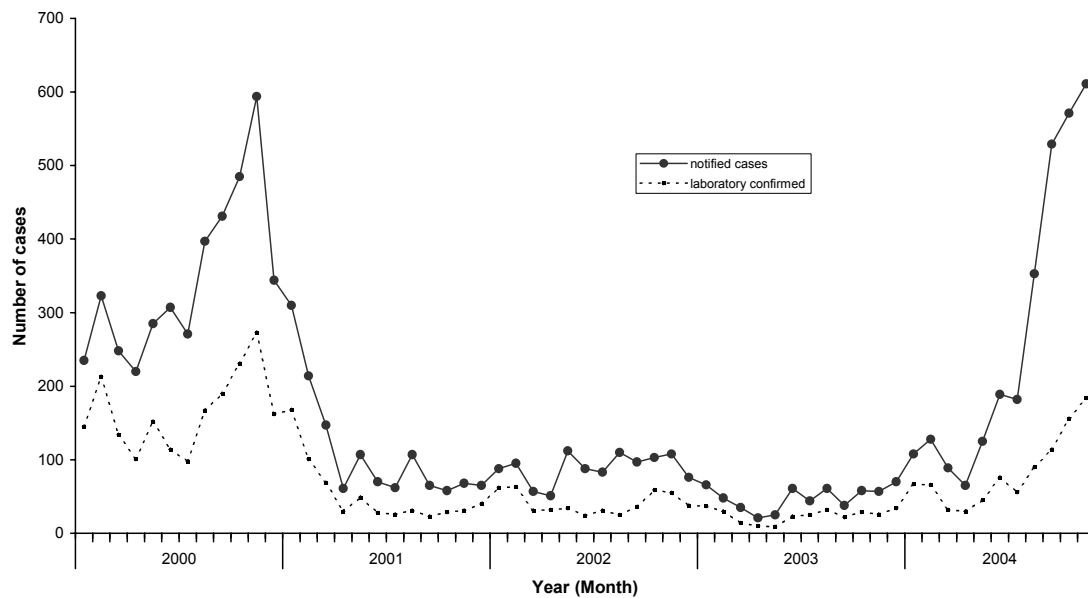
- *Ross River virus infection*: a case of Ross River virus infection was reported in a patient with clinically compatible illness. Serology provided presumptive evidence of a recent Ross River virus infection. The case had been living and working in the Northern Territory of Australia for more than one year and had recently returned to New Zealand.
- *Shigellosis*: 10 shigellosis cases were notified in November 2004 compared to six notified cases during November the previous year. The total so far this year of 117 cases is higher than the 80 cases for the same period last year. The cases were from Canterbury (5), Capital and Coast (2), Auckland (1), Counties Manukau (1), and Otago (1) DHBs. The ESR Enteric Reference Laboratory received isolates from 8 of the 10 cases. Five isolates of *Shigella* species could not be further serotyped and the remaining three isolates were identified as *S. flexneri* 2a (1), *S. flexneri* y variant (1), and *S. sonnei* Biotype g (1). Overseas travel was recorded for seven of the cases, of which four had been overseas during the incubation period. The countries visited were Rarotonga (2 cases), China (1), and Portugal (1). One *Shigella* outbreak was reported from Canterbury where raw sewage had leaked into a water supply.

## 2. Deaths from notifiable diseases

The table below shows the deaths from notifiable diseases in November. Two deaths were reported this month.

Disease	District Health Board	Age group	Sex
Meningococcal disease	Counties Manukau	30-39 years	F
Meningococcal disease	Southland	1-4 years	M

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



**Figure 1: Pertussis notifications and laboratory confirmed cases by month, January 2000 - November 2004**

## 4. Data Tables

### *Disease incidence and rates*

Disease <sup>1</sup>	Current year - 2004 <sup>2</sup>			Previous year - 2003		
	Nov 2004 cases	Cumulative total since 1 January	Current rate <sup>3</sup>	Nov 2003 cases	Cumulative total since 1 January	Previous rate <sup>3</sup>
AIDS	3	33	1.0	1	28	0.7
Campylobacteriosis	1277	10833	331.1	1471	13248	388.5
Cryptosporidiosis	86	591	16.6	92	788	22.3
Dengue fever	0	8	0.2	1	55	1.5
Gastroenteritis <sup>4</sup>	112	1281	36.7	127	937	28.9
Giardiasis	144	1406	41.3	122	1431	41.3
<i>H. influenzae</i> type b disease	0	3	0.1	0	11	0.3
Hepatitis A	1	47	1.4	3	65	1.8
Hepatitis B (acute) <sup>5</sup>	2	36	1.0	4	59	1.8
Hepatitis C (acute) <sup>5</sup>	2	25	0.8	3	36	1.1
Hydatid disease	1	1	0	0	0	0
Influenza <sup>6</sup>	21	887	23.8	1	1050	28.1
Lead absorption	9	89	2.4	9	117	3.2
Legionellosis	7	62	2.1	5	60	1.7
Leprosy	0	3	0.1	0	4	0.1
Leptospirosis	5	98	2.8	15	105	3.0
Listeriosis	2	24	0.7	3	22	0.6
Malaria	3	31	0.9	6	43	1.2
Measles	3	26	1.0	5	55	1.5
Meningococcal disease <sup>7</sup>	28	327	9.5	34	515	14.7
Mumps	6	41	1.3	5	48	1.4
Paratyphoid	2	23	0.7	1	14	0.4
Pertussis	611	2950	80.8	57	514	15.8
Rheumatic fever	5	66	2.0	2	141	3.9
Rickettsial disease	0	2	0.1	0	1	0
Rubella	2	21	0.6	1	23	0.7
Salmonellosis	100	1017	30.6	87	1275	37.4
SARS	0	0	0	0	0	0
Shigellosis	10	117	3.3	6	80	2.4
Tetanus	0	1	0	0	2	0.1
Tuberculosis	33	336	10.1	40	379	11.1
Typhoid	1	31	0.8	2	20	0.6
VTEC / STEC infection	7	83	2.4	8	99	2.8
Yersiniosis	26	394	11.6	41	399	11.5

**Notes:** <sup>1</sup> Other notifiable infectious diseases reported in November : Ross River virus infection

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

Disease	Nov 2004	Oct 2004	Sep 2004	Aug 2004	Jul 2004	Jun 2004	May 2004	Apr 2004	Mar 2004	Feb 2004	Jan 2004	Dec 2003	Nov 2003
AIDS	3	5	4	3	4	2	0	3	2	4	3	5	1
Campylobacteriosis	1277	927	920	912	828	844	670	680	1206	1074	1495	1542	1471
Cryptosporidiosis	86	185	160	50	12	13	18	10	21	19	17	30	92
Dengue fever	0	0	0	0	0	2	0	0	3	1	2	0	1
Gastroenteritis <sup>2</sup>	112	134	104	90	88	166	113	199	86	72	117	89	127
Giardiasis	144	103	102	105	134	131	121	118	149	156	143	138	122
Haemophilus influenzae type b	0	0	1	0	1	1	0	0	0	0	0	1	0
Hepatitis A	1	2	3	4	5	2	6	6	5	7	6	5	3
Hepatitis B (acute) <sup>3</sup>	2	1	2	4	7	2	4	1	2	8	3	2	4
Hepatitis C (acute) <sup>3</sup>	2	2	1	2	3	0	3	0	5	7	0	4	3
Hydatid disease	1	0	0	0	0	0	0	0	0	0	0	0	0
Influenza <sup>4</sup>	21	153	626	57	13	6	2	2	0	4	3	2	1
Lead absorption	9	7	7	8	8	7	10	6	10	7	10	2	9
Legionellosis	7	6	2	5	4	4	8	7	4	11	4	17	5
Leprosy	0	1	0	0	1	0	0	1	0	0	0	0	0
Leptospirosis	5	7	10	9	7	10	10	11	13	8	8	8	15
Listeriosis	2	2	2	2	1	1	1	2	4	4	3	2	3
Malaria	3	1	2	3	3	1	3	4	2	6	3	3	6
Measles	3	3	1	1	1	1	2	5	3	1	5	12	5
Meningococcal disease <sup>5</sup>	28	36	54	38	35	25	29	23	29	11	19	27	34
Mumps	6	3	5	7	3	4	1	2	1	4	5	8	5
Paratyphoid	2	2	4	0	3	2	2	2	3	3	0	4	1
Pertussis	611	571	529	353	182	189	125	65	89	128	108	70	57
Rheumatic Fever	5	9	3	11	4	6	3	5	5	12	3	10	2
Rickettsial disease	0	0	0	1	0	0	1	0	0	0	0	0	0
Rubella	2	1	3	2	1	1	3	1	3	1	3	3	1
Salmonellosis	100	93	72	92	62	74	81	88	116	97	142	126	87
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	10	6	8	19	10	10	12	9	11	8	14	7	6
Tetanus	0	0	1	0	0	0	0	0	0	0	0	0	0
Tuberculosis	33	38	30	40	29	27	35	25	34	26	19	42	40
Typhoid	1	3	5	0	3	6	2	1	2	5	3	0	2
VTEC/STEC infection	7	6	8	9	4	6	5	3	6	16	13	5	8
Yersiniosis	26	24	19	28	32	38	43	34	40	45	65	40	41

**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 - November 2004

Cases this month

Current rate<sup>1</sup>

Disease	Cases for November 2004, <sup>2</sup> and current rate <sup>1,2</sup> by District Health Board <sup>3,4</sup>																					
	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>	1	2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1.4	2.0			0.6	0	0.6	0	0	2.1	0	0	0.5	0	0	0.8	0.5	4.4	0	0	1.0	
Campylobacteriosis	38	201	158	109	134	13	27	2	27	31	14	22	30	66	4	33	8	159	51	77	73	
	228.3	373.9	391.3	294.0	402.2	311.5	258.8	227.5	322.2	312.0	275.1	180.0	363.3	397.0	201.6	200.9	267.6	320.5	507.7	362.5	404.5	
Cryptosporidiosis	5	1	1	0	12	5	1	2	3	5	1	7	0	3	1	1	1	12	3	13	9	
	18.6	5.6	3.3	6.1	42.5	35.4	7.3	13.7	13.6	17.4	28.3	36.8	6.1	8.5	31.4	13.1	26.4	17.3	49.3	25.8	24.2	
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	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	5	6	2	61	0	0	0	1	3	0	1	2	2	2	4	0	21	0	1	1	
	4.3	19.3	23.4	16.2	130.9	53.1	1.1	0	7.8	6.3	7.9	71.0	26.5	26.8	20.9	15.5	16.5	49.4	142.1	39.2	45.5	
Giardiasis	12	17	18	10	16	4	7	2	1	6	0	5	4	10	3	10	0	12	1	3	3	
	32.8	41.4	58.5	35.1	62.3	56.3	30.9	41.0	17.5	52.2	33.0	27.7	51.6	55.7	28.8	39.2	36.3	32.5	18.9	25.8	22.3	
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	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	2.3	2.2	3.5	0.6	2.1	0.6	2.3	1.0	1.4	0	1.3	0	2.0	0	1.6	0	0.7	0	0	0	
Hepatitis B	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	1.2	0.8	2.4	1.6	2.1	1.1	2.3	1.0	0.7	0	0	0	0.4	0	1.6	0	0.9	0	0.6	0	
Hepatitis C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
	0	0.7	0.8	0.3	0	1.0	1.7	4.6	0	0.7	0	0.6	0.8	0.4	10.5	0.8	6.6	0.7	0	0.6	1.0	
Hydatids disease	0	0	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	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lead absorption	0	0	0	0	1	0	0	0	1	0	2	0	1	0	0	0	0	1	0	3	0	
	2.1	1.2	1.1	0.3	2.8	2.1	0.6	6.8	1.9	2.1	4.7	5.2	1.5	1.6	0	1.6	3.3	2.8	3.8	10.0	6.8	
Legionellosis	0	1	1	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	
	2.1	2.6	3.3	2.9	1.3	0	2.8	2.3	1.0	0	1.6	1.3	3.0	3.3	7.9	0.8	3.3	0.7	5.7	2.9	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	0.3	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	
Leptospirosis	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	
	2.1	0.5	0.3	0.5	6.3	4.2	1.1	13.7	1.9	13.9	3.1	8.4	0	0.4	2.6	2.4	13.2	1.6	1.9	0.6	10.6	
Listeriosis	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
	0	0.9	0.5	0.5	0.9	3.1	0.6	0	0	0	0	0.6	0.8	1.2	2.6	0.8	0	0.2	0	1.2	1.0	
Malaria	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
	0	0.9	1.6	0.8	1.6	0	0	0	0	0.7	3.1	0	0	2.4	0	0	0	0.7	0	1.2	1.9	
Measles	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.5	0.8	0.5	0.3	1.0	0	0	0	2.1	1.6	5.2	1.5	0	2.6	4.1	16.5	0.5	0	0	1.9	
Meningococcal disease <sup>9</sup>	0	5	0	4	1	3	0	3	1	0	2	1	0	2	0	0	0	1	1	3	1	
	15.7	9.8	10.3	14.9	7.6	17.7	8.4	29.6	6.8	8.4	11.0	9.0	4.6	7.7	2.6	2.4	3.3	6.6	3.8	11.1	7.7	
Mumps	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	
	2.1	0.9	0.5	1.1	0.9	0	0.6	0	0	1.4	9.4	1.9	0.8	2.8	0	3.3	0	0.9	1.9	1.8	1.0	
Paratyphoid	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	1.4	0.9	0.8	1.6	0.6	1.0	0.6	0	0	1.4	0	0	0	0.8	0	0.8	0	0.7	0	0	0	
Pertussis	6	18	11	11	76	18	14	1	0	0	0	4	6	19	1	92	2	170	17	53	92	
	59.2	22.1	22.8	18.4	131.9	76.1	58.4	54.6	13.6	27.2	3.1	32.9	29.6	20.3	5.2	356.0	26.4	121.5	157.3	171.0	516.8	
Rheumatic fever	0	0	0	0	2	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	
	7.1	0.2	1.9	6.4	3.1	0	3.4	11.4	0	4.9	0	0	0.8	2.0	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	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
	1.4	0.2	0.3	0.3	0	1.0	0.6	0	1.9	1.4	1.6	0	1.5	0.8	2.6	1.6	6.6	0.5	0	0.6	0	
Salmonellosis	5	9	8	6	4	0	6	0	4	5	3	2	1	4	1	7	0	12	2	8	13	
	28.5	22.3	30.7	30.9	34.3	26.0	30.3	11.4	29.1	41.1	36.2	13.5	21.2	28.5	26.2	30.2	19.8	31.4	54.9	40.4	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	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	5	0	1	0	
	1.4	3.0	5.4	8.8	2.5	1.0	1.1	0	0	0	4.7	0	9.9	4.1	7.9	0.8	3.3	2.1	0	2.9	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	5	5	6	1	0	0	0	0	1	0	3	1	7	0	1	1	1	0	0	0	
	3.6	12.3	19.6	17.0	10.7	3.1	4.5	2.3	3.9	16.7	3.1	9.7	8.3	16.7	10.5	4.1	6.6	5.6	1.9	2.3	1.0	
Typhoid	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.7	1.1	4.3	0.6	0	0.6	0	0	0	0	0	2.3	0.4	0	0.8	0	0	0	0	0	
VTEC / STEC	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	
	0.7	1.2	1.1	1.3	9.1	2.1	7.9	4.6	5.8	1.4	0	0	0.8	0.4	0	2.4	0	1.2	0	3.5	1.9	
Yersiniosis	0	5	1	1	7	0	1	0	0	0	0	0	0	3	0	0	3	2	1	2	0	
	2.1	14.7	15.8	9.1	13.5	8.3	7.9	11.4	5.8	14.6	12.6	7.7	17.4	15.5	7.9	4.9	46.3	10.8	20.8	8.2	3.9	

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