

## MONTHLY SURVEILLANCE REPORT

Data contained within this April monthly report is based on information recorded on EpiSurv by public health service staff up until 3 May 2005. 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 positive serology and still under investigation, was notified during April. The case was an adult male who had occupational exposure to animals.
- *Cryptosporidiosis*: a total of 52 cases of cryptosporidiosis was notified during April 2005 compared to 10 cases notified at the same time last year. Waikato DHB reported the highest number of cases (9). For the previous 12 months, Lakes DHB had the highest current incidence rates of 52.1 per 100 000 population (50 cases). Among the cases for whom this information was recorded, 78.6% (11/14) had recreational water contact, 50.0% (4/8) had consumed food from a food premise, 45.5% (5/11) had consumed untreated water, 42.9% (6/14) had faecal contact, and 7.7% (1/13) had contact with a sick animal during the incubation period. One case was hospitalised. One outbreak was reported this month from Wellington.
- *Haemophilus influenzae* type b disease (Hib): There were three cases of *Haemophilus influenzae* type b disease notified in April. Only one of the three cases was confirmed. The confirmed case was a male of Pacific Peoples ethnicity from Counties Manukau aged between 30-39 years. This brings the year-to-date total to four. According to information recorded on EpiSurv the case had not been vaccinated.
- *Meningococcal disease*: based on earliest date available<sup>1</sup>, 21 cases of meningococcal disease were notified during April 2005, of which 15 (71.4.0%) were laboratory-confirmed. In comparison, 17 cases were notified the previous month, and 22 cases were notified during April 2004. For the previous 12 months, Tairāwhiti DHB recorded the highest current rate of 25.0

<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.

per 100 000 population (11 cases). Waitemata DHB recorded the highest number of cases (48) with a current rate of 11.2 per 100 000 population. The rate of disease was highest amongst infants aged less than one year (69.5 per 100 000 population, 38 cases), followed by those in the 1-4 years age group (41.6 per 100 000 population, 90 cases).

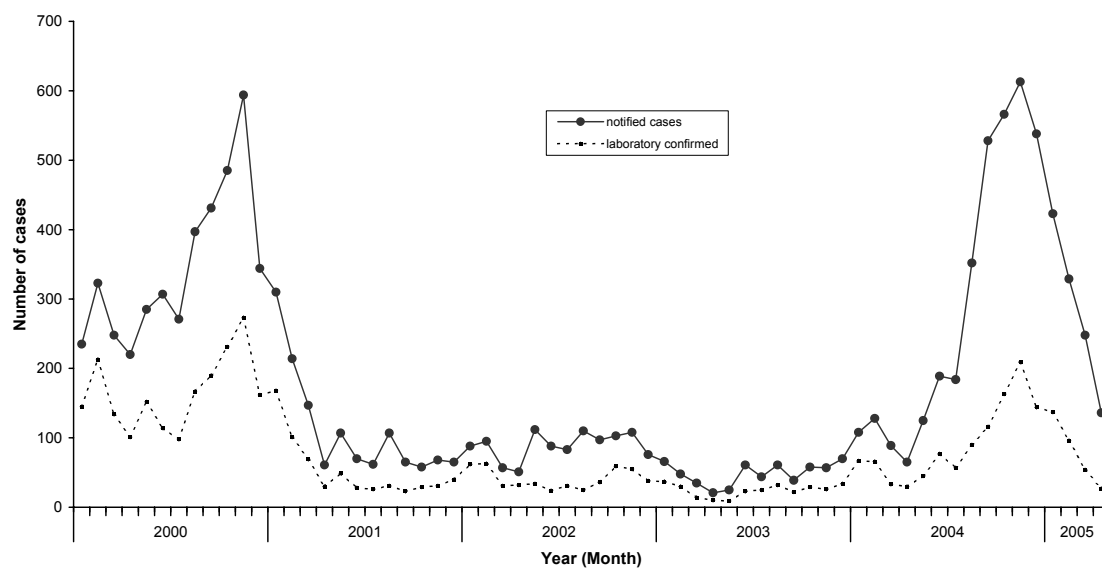
- *Pertussis*: 136 cases of pertussis were notified in April 2005, of whom 25 (18.4%) were laboratory confirmed. Pertussis numbers continue to decrease from the peak in November 2004 with (613 cases). Canterbury DHB had the highest number of cases (42). For the previous 12 months, Southland DHB had the highest incidence rate of 734.5 per 100 000 population (759 cases), compared to a national rate of 113.2 per 100 000 population. Hospitalisation data was recorded for 111 cases of whom 2 (1.8%) were hospitalised. The rate by age group for the previous 12 months was highest amongst infants aged less than one year (369.6 per 100 000 population), followed by the children in the 5-9 years age group (246.0), and children in the 10-14 years age group (228.7).
- *Salmonellosis*: there were 150 salmonellosis cases notified in April 2005, compared with 85 cases at the same time last year. Salmonellosis numbers continued to increase from December 2004 with 79 cases. Waitemata DHB had the highest number of cases (27). For the previous 12 months, Southland DHB had the highest incidence rate of 68.7 per 100 000 population (71 cases), compared to a national rate of 31.1 per 100 000 population. The rate of disease was highest amongst children aged between 1-4 years (115.7 per 100 000 population, 249 cases).
- *VTEC*: Twenty-three cases of VTEC infection were notified in April bringing the total number of notified cases to 46 for the year to date. In comparison, three cases were notified during April 2004. Hospitalisation status was recorded for 16 cases of whom three were hospitalised. The ESR Enteric Reference Laboratory received isolates from 22 of the 23 cases. All 22 cases were serotype O157. The cases were reported from Waikato (4), Auckland (3 cases), Northland (2), Waitemata (2), Capital and Coast (2), Canterbury (2), Otago (2), Southland (2), Bay of Plenty (1), Whanganui (1), Hutt (1), and Hawkes Bay (1) DHBs. Nine cases were children aged less than five years, four each in the 5-9, 50-59, 70+, and one each in the 15-19 and 20-29 years age group.

## 2. Deaths from notifiable diseases

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

Disease	District Health Board	Age group	Sex
Hepatitis B	Otago	40-49 years	F
Meningococcal disease	MidCentral	<1 year	M
Meningococcal disease	Counties Manukau	40-49 years	M

### 3. Trends in selected diseases to April 2005



**Figure 1: Pertussis notifications and laboratory confirmed cases by month, January 2000 to April 2005**

## 4. Data Tables

### *Disease incidence and rates*

Disease <sup>1</sup>	Current year - 2005 <sup>2</sup>			Previous year - 2004		
	Apr 2005 cases	Cumulative total since 1 January	Current rate <sup>3</sup>	Apr 2004 cases	Cumulative total since 1 January	Previous rate <sup>3</sup>
AIDS	7	21	1.3	3	12	0.9
Campylobacteriosis	724	4129	318.1	680	4455	380.9
Cryptosporidiosis	52	175	19.3	10	67	18.7
Dengue fever	0	3	0.1	0	6	0.8
Gastroenteritis <sup>4</sup>	23	195	29.0	199	473	32.5
Giardiasis	99	426	36.8	118	566	42.9
<i>H. influenzae</i> type b disease	3	4	0.2	0	0	0.2
Hepatitis A	2	18	1.2	6	24	1.8
Hepatitis B (acute) <sup>5</sup>	8	16	1.1	1	14	1.4
Hepatitis C (acute) <sup>5</sup>	0	7	0.5	0	12	1.1
Hydatid disease	0	0	0	0	0	0
Influenza <sup>6</sup>	15	25	24.2	2	9	28.3
Lead absorption	7	26	2.4	6	33	2.8
Legionellosis	5	27	1.7	7	26	2.3
Leprosy	0	1	0.1	1	1	0.1
Leptospirosis	8	31	2.5	11	40	3.0
Listeriosis	0	8	0.6	2	13	0.7
Malaria	5	17	0.9	4	15	1.2
Measles	0	5	0.6	5	14	1.8
Meningococcal disease <sup>7</sup>	22	75	9.0	23	82	13.2
Mumps	5	16	1.3	2	12	1.3
Paratyphoid fever	1	9	0.7	5	12	0.6
Pertussis	136	1136	113.2	65	390	21.5
Rheumatic fever	3	21	1.9	5	25	3.5
Rickettsial disease	0	0	0.1	0	0	0
Rubella	0	2	0.5	1	8	0.7
Salmonellosis	150	522	31.1	85	438	33.0
SARS	0	0	0	0	0	0
Shigellosis	7	36	3.6	9	42	2.7
Tetanus	0	1	0.1	0	0	0
Tuberculosis	36	119	10.4	25	104	10.6
Typhoid fever	1	12	0.9	1	11	0.6
VTEC / STEC infection	23	46	2.6	3	38	2.7
Yersiniosis	30	132	9.8	34	184	12.4

**Notes:** <sup>1</sup> Other notifiable infectious diseases reported in April : Brucellosis

<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 April 2005) or the previous year (12 months up to and including April 2004), expressed as cases per 100 000

<sup>4</sup> Cases of gastroenteritis from a common source or foodborne intoxication. Eg: staphylococcal intoxication

<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 April 2005 and preceding 12 months*

Disease	Apr 2005	Mar 2005	Feb 2005	Jan 2005	Dec 2004	Nov 2004	Oct 2004	Sep 2004	Aug 2004	Jul 2004	Jun 2004	May 2004	Apr 2004
AIDS	7	3	6	5	6	3	5	4	3	4	2	0	3
Campylobacteriosis	724	767	1287	1351	1389	1278	928	917	909	827	842	670	680
Cryptosporidiosis	52	66	44	13	20	87	185	160	50	12	13	18	10
Dengue fever	0	0	2	1	0	0	0	0	0	0	2	0	0
Gastroenteritis <sup>2</sup>	23	53	42	77	83	129	134	105	91	87	147	113	199
Giardiasis	99	132	116	79	111	141	104	102	106	134	129	121	118
Haemophilus influenzae type b	3	1	0	0	1	0	0	1	0	1	1	0	0
Hepatitis A	2	5	7	4	3	1	2	2	4	5	2	6	6
Hepatitis B (acute) <sup>3</sup>	8	1	2	5	2	2	1	2	4	7	2	4	1
Hepatitis C (acute) <sup>3</sup>	0	2	2	3	1	1	2	1	1	3	0	3	0
Hydatid disease	0	0	0	0	0	1	0	0	0	0	0	0	0
Influenza <sup>4</sup>	15	5	4	1	0	21	153	626	57	13	6	2	2
Lead absorption	7	11	5	3	7	9	7	7	8	8	7	9	6
Legionellosis	5	6	8	8	2	7	4	2	5	4	4	8	7
Leprosy	0	0	0	1	0	0	1	0	0	1	0	0	1
Leptospirosis	8	8	7	8	6	5	6	10	9	7	10	10	11
Listeriosis	0	2	3	3	2	2	2	2	2	1	1	1	2
Malaria	5	3	5	4	2	3	1	2	3	3	1	3	4
Measles	0	2	3	0	8	2	3	1	1	1	1	2	5
Meningococcal disease <sup>5</sup>	22	18	15	20	18	27	36	54	38	35	25	28	23
Mumps	5	5	3	3	3	7	3	5	7	3	4	1	2
Paratyphoid fever	1	2	3	3	0	2	2	5	0	3	2	2	5
Pertussis	136	248	329	423	538	613	566	528	352	184	189	125	65
Rheumatic Fever	3	9	7	2	3	6	9	3	11	4	11	3	5
Rickettsial disease	0	0	0	0	0	0	0	0	1	0	0	1	0
Rubella	0	1	1	0	3	2	1	3	2	1	1	3	1
Salmonellosis	150	148	139	85	79	94	92	70	91	61	73	81	85
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	7	10	11	8	11	22	6	8	19	10	10	12	9
Tetanus	0	0	1	0	0	0	0	1	0	0	0	0	0
Tuberculosis	36	36	24	23	42	32	38	29	38	29	26	35	25
Typhoid fever	1	4	2	5	0	1	3	5	0	3	6	2	1
VTEC/STEC infection	23	11	8	4	6	7	6	8	9	4	6	5	3
Yersiniosis	30	25	37	40	27	26	25	19	28	31	37	43	34

**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 - April 2005

Cases this month

Current rate<sup>1</sup>

Disease	Cases for April 2005, <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>	0	6			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	2.7			1.3	0	1.1	0	0	1.4	0	0	0.5	0	0.8	0.5	4.4	0	0	0	1.0
Campylobacteriosis	16	94	78	51	44	12	31	9	8	21	11	18	19	66	6	15	0	103	21	63	38
	235.5	372.8	370.4	290.0	343.7	232.3	222.8	220.7	267.9	275.8	193.4	169.1	291.2	331.9	191.1	238.4	251.1	326.2	625.2	432.8	519.7
Cryptosporidiosis	1	1	3	2	9	6	2	1	0	3	0	2	4	7	0	1	0	8	0	1	1
	17.8	6.3	5.2	6.1	48.2	52.1	7.9	18.2	13.6	18.1	25.2	37.4	7.6	18.7	39.3	16.3	23.1	21.3	45.5	28.7	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
	0.7	0	0	0	0.9	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0
Gastroenteritis	0	0	5	1	1	1	2	0	1	0	0	0	1	1	1	2	0	6	0	0	1
	0	19.5	20.1	13.8	94.1	50.0	1.7	0	7.8	4.2	17.3	70.3	19.0	30.1	28.8	13.9	6.6	42.1	13.3	31.0	20.3
Giardiasis	2	15	12	8	13	2	5	3	1	3	2	2	3	5	0	3	1	14	1	4	0
	26.4	41.2	56.0	30.4	48.8	47.9	33.7	56.9	12.6	38.3	36.2	29.0	32.6	45.6	39.3	34.3	29.7	32.1	17.1	17.0	21.3
H. influenzae type b disease	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	0	0	1.1	0.3	0	0	0	0	0	0	0	0.8	0	0	0	0	0.2	0	0	0
Hepatitis A	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1.6	1.6	2.4	0.3	2.1	0.6	2.3	2.9	0.7	0	0.6	0	0.8	0	0	3.3	1.2	0	1.2	1.0
Hepatitis B	0	2	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0
	1.4	1.6	1.1	1.6	1.9	1.0	0.6	2.3	1.0	0.7	0	0	0	1.2	0	0.8	0	0.9	0	1.2	0
Hepatitis C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	0	0.5	0.3	0	1.0	0	4.6	0	0	0	0	0	0	0	1.6	9.9	1.6	0	0	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	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead absorption	0	3	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0
	0	1.9	1.6	0.5	3.8	1.0	0.6	9.1	2.9	2.1	6.3	1.9	2.3	2.4	2.6	0.8	3.3	1.9	5.7	8.2	3.9
Legionellosis	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0
	2.1	3.5	2.2	1.3	0.9	0	2.8	0	1.9	0	1.6	2.6	3.0	1.6	2.6	0.8	0	1.2	1.9	0.6	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	0.3	0	0	0	0	0	0	0	0	0.8	0.4	0	0	0	0	0	0	0
Leptospirosis	0	0	0	0	1	0	0	1	0	1	0	0	0	0	2	1	1	1	0	0	0
	0.7	0.2	0.3	0.3	3.8	2.1	3.9	9.1	1.0	13.9	4.7	6.5	0	0.4	5.2	4.1	13.2	0.9	1.9	1.8	10.6
Listeriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1.1	1.1	0.3	2.1	0.6	0	0	0.7	0	0.6	0.8	0.8	2.6	1.6	0	0	0	0	1.0
Malaria	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0	1.2	1.1	2.4	1.3	0	0	0	0	0.7	0	0	0.8	1.2	0	0	0	1.4	0	0	1.9
Measles	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	0.3	0	1.0	1.1	0	1.0	0.7	1.6	1.3	0.8	0	2.6	0.8	9.9	0.9	0	0.6	1.0
Meningococcal disease <sup>9</sup>	0	2	1	4	2	0	4	0	1	1	0	1	1	3	0	0	1	0	0	1	0
	14.3	11.2	8.4	11.4	8.5	11.5	7.9	25.0	5.8	10.4	7.9	11.6	3.8	8.5	2.6	4.1	9.9	6.3	3.8	10.0	5.8
Mumps	1	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0
	2.9	0.5	1.1	1.3	0.6	0	0.6	2.3	1.0	0.7	7.9	0.6	0.8	2.8	7.9	2.4	3.3	0.7	3.8	0.6	1.0
Paratyphoid fever	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	0.2	0.8	1.6	0.6	2.1	0.6	0	0	1.4	0	0	0.8	0.4	2.6	0.8	0	0.7	0	0	0
Pertussis	0	3	3	1	31	4	9	0	1	0	0	0	0	7	0	7	3	42	7	1	17
	37.8	22.3	24.5	22.6	186.3	105.2	75.2	47.8	20.4	20.2	3.1	36.1	47.8	41.5	15.7	457.2	85.9	231.1	219.8	194.4	734.5
Rheumatic fever	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	7.8	0	0.8	3.7	3.1	1.0	5.6	9.1	0	3.5	0	0	3.0	3.7	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	0	0	0	0	0	0	0	0	0
	0.7	0.2	0	0.3	0	0	0.6	0	2.9	1.4	1.6	0	1.5	0.4	0	0.8	6.6	0.5	0	0	0
Salmonellosis	9	27	9	10	10	0	7	5	4	6	3	5	11	9	1	5	0	15	2	8	4
	24.3	26.1	28.6	24.2	31.8	16.7	28.1	22.8	31.1	33.4	40.9	14.8	25.8	28.1	62.8	35.9	23.1	37.2	51.2	46.9	68.7
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	2	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
	1.4	3.3	5.4	5.9	1.9	0	1.7	0	0	0	1.6	0	9.9	3.7	7.9	1.6	0	7.7	0	2.9	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	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	2	4	10	3	5	0	0	0	1	0	0	1	0	5	0	1	0	1	0	2	1
	6.4	12.8	20.7	16.8	10.7	2.1	3.4	2.3	5.8	14.6	0	9.0	6.1	18.3	10.5	4.1	9.9	5.4	3.8	4.1	3.9
Typhoid fever	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.2	1.9	4.8	0.3	1.0	0	0	0	0	0	0	2.3	0	0	0.8	0	0	0	0	0
VTEC / STEC	2	2	3	0	4	0	1	0	0	1	1	0	1	2	0	0	0	2	0	2	2
	2.1	0.7	1.9	1.6	7.9	2.1	6.7	6.8	1.9	3.5	1.6	0	1.5	1.2	0	2.4	0	0.9	1.9	5.9	4.8
Yersiniosis	3	7	7	4	0	0	0	0	1	1	0	0	0	1	1	1	0	4	0	0	0
	5.0	10.9	16.3	8.0	12.3	4.2	5.1	13.7	5.8	11.8	11.0	5.2	8.3	10.6	5.2	4.1	69.4	9.6	11.4	6.4	4.8

1 Current rate is based on the cumulative total for the 12 months up to and including April 2005 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.