
MONTHLY SURVEILLANCE REPORT

Data contained within this April monthly report is based on information recorded on EpiSurv by public health service staff up until 11 May 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*: there were 676 cases of campylobacteriosis notified during April 2004 of whom 656 (97.0%) were confirmed. Although campylobacteriosis notifications have been decreasing from a peak of 1542 cases in December 2003, the April 2004 total was the second highest number of notifications for the month of April recorded in the past five years (the highest total was for April 2003 with 768 cases). South Canterbury DHB experienced the highest monthly incidence rate of 36.0 per 100 000, compared to a national rate of 18.1 per 100 000. Among those cases for whom this information was recorded, 63.6% (49/77) had consumed food from a food premise, 27.2% (28/103) had contact with farm animals and 14.1% (13/92) had contact with children in nappies, other types of faecal matter or vomit during incubation period.
- *Gastroenteritis*: there were 180 gastroenteritis notifications in April. This is the highest ever recorded gastroenteritis cases for the month of April and the second highest ever recorded for any given month (highest was October 1996 with 207 cases). Two cases were hospitalised. Over half (61.9%) of the cases for whom age was recorded were aged over fifty years. The most frequent occupations recorded were retired (44.3%), care giver (7.8%) and staff nurse (3.4%). The majority of cases (58.3%) were discovered as a result of outbreak investigations, while 34.4% of cases were self-notifications. One hundred and eight cases (60.0%) were linked to 4 outbreaks recorded in the Outbreak Module of EpiSurv. One Waikato outbreak alone accounted for 58 cases. Person to person transmission of Norwalk-like virus was suspected.
- *Giardiasis*: a total of 118 cases was notified in April 2004 of whom 112 (94.9%) were confirmed. In comparison, 123 cases during the same month the previous year. Among April cases for whom this information was recorded, 13 (50.0%) reported contact with recreational water, 15 (48.4%) reported contact with children in nappies, other types of faecal matter or vomit and 13 (37.1%) reported contact with other symptomatic people during the incubation period.

- *Meningococcal disease*: based on earliest date available, 23 cases of meningococcal disease were notified during April 2004, of which 17 (73.9%) were laboratory-confirmed. In comparison, 30 cases were notified the previous month, and 28 cases were notified during April 2003. Tairāwhiti DHB recorded the highest monthly rate of 4.6 per 100 000 population (2 cases). However, the highest number of meningococcal cases (5 cases) was observed from Counties Manukau DHB. The rate of disease was highest in the less than one year age group with a monthly rate of 11.0 per 100 000 (6 cases), compared to a national monthly rate of 0.6 per 100 000 population.
- *Pertussis*: during April 2004 there were 67 pertussis notifications, compared to 89 cases the previous month, and 21 cases during April the previous year. Of the 67 April cases, 47.8% (32 cases) were either confirmed by serological means, by PCR or by isolation of *Bordetella pertussis*. Four of the remaining 35 cases were epidemiologically linked to confirmed cases. Among the 67 pertussis cases, 57 (85.1%) cases were reported from general practitioners, 7 (10.4%) cases were reported from hospital-based practitioners and 3 (4.5%) cases were from laboratory notifications. South Canterbury DHB experienced the highest monthly incidence rate of 13.3 per 100 000, compared to a national rate of 1.8 per 100 000.
- *Salmonellosis*: 90 cases were notified during April 2004, compared to 132 cases during the same month the previous year. April 2004 total was the lowest number of notifications for the month of April recorded in the past five years. Among the 107 human cases confirmed by the ESR Enteric Reference Laboratory (ERL) in April, the most frequently identified serotype was *S. Typhimurium* (51 cases, including 13 cases of *S. Typhimurium* phage type 160) and *S. Enteritidis* phage type 9a (10 cases). Of the April notifications, 5 cases had been hospitalised and 7 cases had been travelled overseas during the incubation period. Canterbury DHB experienced the highest monthly incidence rate of 4.7 per 100 000 (20 cases), compared to a national rate of 2.4 per 100 000.
- *Tuberculosis*: 27 cases of Tuberculosis were notified in April, of whom 16 (59.3%) were laboratory confirmed. Incidence rate was highest in the 20-29 years age group with a monthly rate of 2.1 per 100 000 (10 cases), compared to the national rate of 0.7 per 100 000. Among the 27 cases with recorded ethnicity, 11 cases were of 'Other ethnicity', 7 were Māori, 4 were Pacific peoples and 3 were European. Fourteen cases were hospitalised. Country of birth was recorded for 22 cases, of whom 10 (45.5%) were born overseas. Among overseas born cases for whom date of arrival in New Zealand was recorded, 6 arrived between one and five years and one case arrived more than five years prior to notification.

2. Deaths from notifiable diseases

One death from meningococcal disease was reported in March 2004. The case was a female aged 50 - 59 years from Bay of Plenty DHB.

3. Data Tables

Disease incidence and rates

National surveillance data - April 2004

Disease ¹	Current year - 2004 ²			Previous year - 2003		
	Apr 2004 cases	Cumulative total since 1 January	Current rate ³	Apr 2003 cases	Cumulative total since 1 January	Previous rate ³
AIDS	3	12	0.9	0	11	0.5
Campylobacteriosis	676	4447	380.7	768	5010	355.5
Cryptosporidiosis	10	67	18.8	48	184	27.8
Dengue fever	0	6	0.8	10	32	2.4
Gastroenteritis ⁴	180	449	31.9	75	285	28.8
Giardiasis	118	567	42.9	123	532	40.7
<i>H. influenzae</i> type b disease	0	0	0.2	0	3	0.2
Hepatitis A	6	24	1.8	2	28	1.7
Hepatitis B (acute) ⁵	1	15	1.4	7	22	1.8
Hepatitis C (acute) ⁵	0	13	1.1	6	12	1.3
Hydatid disease	0	0	0	0	0	0.1
Influenza ⁶	2	9	28.3	0	5	18.1
Lead absorption	6	33	2.8	4	49	3.0
Legionellosis	9	31	2.4	6	17	1.4
Leprosy	1	1	0.1	0	1	0.1
Leptospirosis	12	43	3.1	7	40	3.5
Listeriosis	3	13	0.7	2	10	0.6
Malaria	4	15	1.2	2	15	1.3
Measles	5	21	2.0	2	12	0.7
Meningococcal disease ⁷	26	89	13.4	30	132	15.3
Mumps	2	12	1.3	6	20	1.8
Paratyphoid	1	7	0.5	0	7	0.5
Pertussis	67	393	21.6	21	170	25.3
Rheumatic fever	5	25	3.5	18	47	2.6
Rickettsial disease	0	0	0	0	0	0.2
Rubella	1	8	0.7	1	8	0.9
Salmonellosis	90	446	33.2	132	606	40.7
SARS	0	0	0	1	0	0
Shigellosis	9	43	2.7	9	28	2.6
Tetanus	0	0	0	1	1	0.1
Tuberculosis	27	114	10.8	38	130	10.7
Typhoid	1	11	0.6	0	9	0.5
VTEC / STEC infection	3	38	2.7	19	40	2.3
Yersiniosis	35	185	12.4	18	161	12.0

Notes: ¹ Other notifiable infectious diseases reported in April : Nil

² These data are provisional

³ Rate is based on the cumulative total for the current year (12 months up to and including April 2004) or the previous year (12 months up to and including April 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 April 2004 and preceding 12 months

Disease	Apr 2004	Mar 2004	Feb 2004	Jan 2004	Dec 2003	Nov 2003	Oct 2003	Sep 2003	Aug 2003	Jul 2003	Jun 2003	May 2003	Apr 2003
AIDS	3	2	4	3	5	2	0	5	1	5	3	2	0
Campylobacteriosis	676	1203	1073	1495	1542	1471	1454	1389	1394	1070	750	710	768
Cryptosporidiosis	10	21	19	17	30	92	195	181	60	16	29	31	48
Dengue fever	0	3	1	2	0	1	0	0	1	3	3	15	10
Gastroenteritis ²	180	81	72	116	89	127	67	110	46	73	121	112	75
Giardiasis	118	150	156	143	138	122	129	129	139	110	153	117	123
Haemophilus influenzae type b	0	0	0	0	1	0	0	1	3	2	1	1	0
Hepatitis A	6	5	7	6	5	3	5	8	7	5	5	4	2
Hepatitis B (acute) ³	1	2	9	3	2	4	5	4	9	6	5	4	7
Hepatitis C (acute) ³	0	5	8	0	4	3	2	9	3	4	2	1	6
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza ⁴	2	0	4	3	2	1	28	29	264	645	72	6	0
Lead absorption	6	10	7	10	2	9	10	8	11	6	11	13	4
Legionellosis	9	7	11	4	17	5	7	5	2	8	8	8	6
Leprosy	1	0	0	0	0	0	2	0	0	0	0	1	0
Leptospirosis	12	13	9	9	8	15	7	16	9	5	8	6	7
Listeriosis	3	4	3	3	2	3	0	1	2	2	2	2	2
Malaria	4	2	6	3	3	6	2	7	2	5	3	3	2
Measles	5	6	2	8	12	5	8	5	4	7	5	9	2
Meningococcal disease ⁵	26	30	12	21	27	34	51	66	51	88	52	41	30
Mumps	2	1	5	4	8	5	3	5	1	10	2	2	6
Paratyphoid	1	3	3	0	4	1	1	2	1	1	0	1	0
Pertussis	67	89	128	109	70	57	58	38	61	44	61	25	21
Rheumatic Fever	5	5	12	3	10	2	16	14	35	18	2	7	18
Rickettsial disease	0	0	0	0	0	0	0	0	1	0	0	0	0
Rubella	1	3	1	3	3	1	2	2	6	2	2	0	1
Salmonellosis	90	116	98	142	126	87	114	106	106	72	79	105	132
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	9	12	8	14	7	6	10	2	2	15	7	10	9
Tetanus	0	0	0	0	0	0	0	0	0	0	1	0	1
Tuberculosis	27	39	28	20	42	40	44	44	28	33	30	30	38
Typhoid	1	2	5	3	0	2	1	0	3	2	1	2	0
VTEC/STEC infection	3	6	16	13	5	8	16	2	5	6	3	19	19
Yersiniosis	35	40	45	65	40	41	43	45	35	35	18	21	18

Notes: ¹ Later data are provisional

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

³ Only acute cases of this disease are currently notifiable

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 - April 2004

Cases this month

Current rate¹

Disease	Cases for April 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	1		1		0	0	0	0	0	0	0	0	1		0	0	0	0	0	0	0
	1.4		2.0		0.3	0	0.6	0	0	0.7	0	0	1.1		0	0	1.1	4.4	0	0.6	0
Campylobacteriosis	10	80	69	49	62	18	16	3	15	24	6	20	23	77	4	16	4	98	19	40	23
	206.2	394.2	390.2	304.3	471.2	430.3	308.2	300.4	412.5	445.1	358.4	229.1	484.7	559.6	371.7	258.8	343.6	412.6	414.9	327.4	293.2
Cryptosporidiosis	0	2	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0	2	0	0	0
	14.3	4.4	3.5	5.1	45.3	44.8	14.0	15.9	9.7	37.6	23.6	29.0	9.1	11.4	26.2	17.1	33.0	18.0	90.9	29.9	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	0.9	1.9	0.5	0.9	1.0	0.6	0	1.0	0	0	0	1.5	2.0	0	0	0	0.2	0	0.6	1.0
Gastroenteritis	0	7	9	3	113	1	0	0	1	2	1	0	7	5	0	2	1	24	0	3	1
	18.6	23.3	30.5	19.2	47.5	15.6	1.1	0	8.7	2.8	11.0	26.5	28.1	33.4	13.1	30.2	16.5	51.7	170.5	25.8	86.1
Giardiasis	8	15	10	4	22	1	3	0	4	4	1	7	6	20	0	3	0	7	0	1	2
	21.4	37.5	60.4	37.0	71.4	61.5	35.9	34.1	18.4	57.1	23.6	29.7	42.5	65.5	18.3	40.8	46.3	37.7	13.3	28.7	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	0	1	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	0	2.6	3.8	4.0	0.9	2.1	0.6	4.6	0	2.1	1.6	0	0	2.4	0	1.6	0	0.7	0	1.8	0
Hepatitis B	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.4	2.1	1.9	2.1	1.3	5.2	1.7	2.3	1.0	1.4	0	0	1.5	1.2	0	0.8	0	0.2	1.9	1.8	1.0
Hepatitis C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1.2	1.1	0.5	0	1.0	3.9	0	0	0.7	1.6	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	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	2.9	1.4	2.4	0.3	4.1	2.1	0.6	4.6	1.0	2.1	4.7	6.5	0	4.5	5.2	2.4	0	3.0	5.7	7.6	2.9
Legionellosis	0	2	1	2	0	0	2	1	0	0	0	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	0	0	0
Leprosy	0	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	0	0	0
Leptospirosis	0	0	0	0	2	1	1	0	1	0	0	4	0	0	0	0	0	3	0	0	0
	5.7	0.2	0	0.8	7.6	3.1	1.1	13.7	5.8	8.4	3.1	6.5	0	0	2.6	7.3	13.2	3.0	3.8	1.8	6.8
Listeriosis	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	0.7	1.4	0.5	0.3	1.3	1.0	1.1	0	0	0	0	1.9	0	1.2	0	0	0	0.2	0	1.2	1.0
Malaria	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
	0.7	1.4	1.4	1.3	1.3	0	0	0	0	1.4	4.7	0	2.3	2.0	0	0.8	0	1.2	0	2.9	1.0
Measles	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0
	0.7	0.9	1.6	0.8	0.3	0	0	0	0	1.4	1.6	11.6	4.6	1.2	2.6	9.8	16.5	1.2	3.8	0	6.8
Meningococcal disease ⁵	1	2	0	6	3	2	2	2	1	0	0	0	0	2	1	0	0	3	0	1	0
	23.5	12.1	15.5	27.7	12.6	25.0	19.6	9.1	6.8	12.5	25.2	4.5	7.6	8.5	5.2	0.8	3.3	7.5	5.7	12.3	9.7
Mumps	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
	4.3	0.5	0	0.3	0.3	0	0.6	2.3	0	2.1	4.7	1.9	1.5	3.3	0	2.4	0	1.9	0	2.9	1.0
Paratyphoid	0	0	0	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	0.9	0	0	0
Pertussis	1	6	5	3	7	1	3	2	0	0	0	0	1	2	0	5	0	11	7	9	4
	37.8	18.4	15.5	13.0	37.5	19.8	26.9	25.0	6.8	44.6	6.3	8.4	12.9	7.7	0	30.2	9.9	23.2	70.1	26.4	23.2
Rheumatic fever	2	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
	6.4	1.6	6.8	13.3	2.2	2.1	3.4	4.6	0	5.6	1.6	0.6	4.6	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	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	1.4	0.2	0.3	0.3	0	1.0	0.6	0	0	3.5	0	0.6	0	1.2	2.6	1.6	9.9	0.5	0	1.2	0
Salmonellosis	2	5	3	4	9	4	5	0	4	5	1	6	2	4	0	3	1	20	2	7	3
	27.1	24.9	32.4	34.9	38.7	22.9	30.9	31.9	27.2	53.6	29.9	20.0	23.5	33.8	28.8	34.3	13.2	34.9	66.3	43.9	44.5
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	1	2	3	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	1.4	4.0	7.9	6.1	1.3	1.0	0.6	0	0	0	3.1	0	0.8	3.3	0	0.8	3.3	1.9	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	0	0	0	0	0	0	0
Tuberculosis	0	2	3	3	3	0	0	0	0	1	1	1	2	6	1	1	0	2	0	1	0
	6.4	14.4	20.1	18.4	8.2	7.3	8.4	0	9.7	16.0	4.7	5.8	12.1	16.7	2.6	2.4	3.3	4.2	1.9	5.3	2.9
Typhoid	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.5	1.6	2.4	0.3	0	0.6	0	0	0.7	0	0	0	0.8	0	0	0	0	0	0	0
VTEC / STEC	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
	5.7	1.2	1.1	1.6	7.2	3.1	3.9	0	8.7	0.7	0	1.9	0	0.8	0	4.1	3.3	2.6	9.5	4.7	1.0
Yersiniosis	0	7	5	3	3	0	2	0	2	2	1	0	6	0	0	0	0	3	0	1	0
	2.1	18.6	16.3	7.5	13.8	11.5	9.0	20.5	4.9	13.2	6.3	5.8	17.4	15.9	18.3	7.3	33.0	14.0	15.2	8.2	4.8

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