

MONTHLY SURVEILLANCE REPORT

Data contained within this October monthly report is based on information recorded on EpiSurv by public health service staff up until 10 November 2003. 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*: 1456 cases of campylobacteriosis were notified in October 2003. This is the highest notification total for the month of October ever recorded. Incidence rates were highest in the '1 to 4 years' age group with a monthly rate of 65.2 per 100 000, followed by the '20 to 29 years' age group with a rate of 52.6 per 100 000. Of the 348 cases for whom information on contact with animals was recorded, 126 (36.2%) reported contact with farm animals. Among all DHBs, Capital Coast experienced the highest monthly incidence rate of 61.8 per 100 000, compared to an overall rate of 39.0 per 100 000. Hospitalisation status was recorded for 712 cases, of whom 66 (9.3%) were hospitalised.
- *Measles*: 10 cases were notified in October 2003, of whom two were laboratory confirmed. This brings the year-to-date total to 51 cases, compared to a total of just 25 notifications during 2002. Six October cases were infants aged 3 years or less. Vaccination status was recorded for seven cases, of whom six (including both laboratory-confirmed cases) had received at least one dose of vaccine. One 11-month-old European male was hospitalised.
- *Meningococcal disease*: 49 cases of meningococcal disease were notified during October 2003, of whom 37 (75.5%) were laboratory-confirmed. This brings the year-to-date total to 490 cases. In comparison, 71 cases were notified the previous month, and 40 cases were notified during October the previous year. 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), followed by the '1 to 4 years' age group with a monthly rate of 6.5 per 100 000 (14 cases). Bay of Plenty and Counties Manukau DHBs experienced the highest monthly rates of 4.5 (8 cases) and 5.2 (12 cases) per 100 000 respectively, compared to a national rate of 1.3 per 100 000. Among the 43 cases for whom ethnicity was recorded, 19 (44.2%) were Maori, 13 (30.2%) were European, 10 (23.3%) were Pacific Peoples, and one case (2.3%) was of 'Other' ethnicity.

- *Pertussis*: 56 cases were notified during October 2003, compared to 38 cases the previous month and 103 cases during October the previous year. South Canterbury and Hawke's Bay DHBs experienced the highest monthly incidence rates of 7.6 per 100 000 (4 cases) and 7.0 per 100 000 (10 cases) respectively, compared to a national average of 1.5 cases per 100 000. Of the 45 cases for whom hospitalisation status was recorded on EpiSurv, 11 (24.4%) cases (all aged under 4 years) were hospitalised. Ethnicity was recorded for 10 hospitalised cases: four were of Pacific ethnicity, three were Maori, two were European, and one was of 'Other' ethnicity. Vaccination status was recorded for a total of 33 notified cases, of whom 21 (63.6%) had received at least one dose of vaccine.
- *Salmonellosis*: 114 cases were notified during October 2003, compared to 102 cases the previous month and 138 cases during October the previous year. Incidence rates were highest in Tairāwhiti, Otago and Southland DHBs, all with monthly rates more than twice the overall rate of 3.1 per 100 000. Among the 134 human cases confirmed by the ESR Enteric Reference Laboratory (ERL) in October, the most frequently identified serotype was *S. Typhimurium* (80 cases, including 43 cases of *S. Typhimurium* phage type 160), followed by *S. Brandenburg* (7 cases). Information on animal contact was recorded for 34 notified cases, of whom 14 (41.2%) reported contact with farm animals. Of the 46 cases with travel information recorded, 10 (21.7%) reported travelling overseas during the incubation period.
- *Tuberculosis*: 40 cases of tuberculosis were notified in October 2003, compared to 45 cases during October the previous year. Twenty cases (50%) were of 'Other' ethnicity, 11 were Pacific Peoples, 6 were European and 3 were Maori. Country of birth was recorded for 30 cases, of whom 20 (66.7%) were born overseas. Among overseas-born cases for whom the date of arrival in New Zealand was recorded, 5 cases arrived less than one year prior to notification, 12 cases arrived between one and five years prior to notification, and 2 cases arrived more than five years prior to notification.
- *VTEC/STEC*: 16 cases of VTEC were notified during October 2003, of whom 14 (87.5%) were laboratory confirmed. The year-to-date total of 91 cases already exceeds the 2002 total of 73 cases. Eight (50%) October notifications were aged 4 years or less. Hospitalisation status was recorded for 11 cases, of whom 4 (36.4%) were hospitalised. Among the eight notified cases for whom this information was recorded, 7 (87.5%) reported contact with farm animals, raw milk or home-killed meat.

2. Outbreaks

According to information recorded on EpiSurv, 12 outbreaks commenced in October, among which gastroenteritis was the most commonly reported illness (with 8 outbreaks accounting for a total of 33 cases). There were also two norovirus outbreaks, one *Giardia* and one VTEC outbreak reported.

3. Deaths from notifiable diseases

One death from meningococcal disease of a teenage female from Auckland DHB was reported in October.

4. Data tables

Disease incidence and rates

Disease ¹	Current year - 2003 ²			Previous year - 2002		
	Oct 2003 cases	Cumulative total since 1 January	Current rate ³	Oct 2002 cases	Cumulative total since 1 January	Previous rate ³
AIDS	0	27	0.8	0	15	0.5
Campylobacteriosis	1456	11779	377.1	1162	10179	350.7
Cryptosporidiosis	195	696	22.4	261	835	26.2
Dengue fever	0	54	1.7	0	60	1.8
Gastroenteritis ⁴	62	807	27.2	154	877	27.3
Giardiasis	128	1309	41.0	112	1323	42.3
<i>H. influenzae</i> type b disease	0	12	0.3	0	3	0.1
Hepatitis A	5	61	1.9	3	95	2.9
Hepatitis B (acute) ⁵	3	55	1.8	3	55	1.7
Hepatitis C (acute) ⁵	2	33	1.1	1	45	1.4
Hydatid disease	0	0	0	0	1	0
Influenza ⁶	28	1049	28.1	22	697	18.7
Lead absorption	10	108	3.2	6	79	2.6
Legionellosis	7	56	1.7	1	40	1.2
Leprosy	1	3	0.1	0	3	0.1
Leptospirosis	7	92	3.1	10	119	3.8
Listeriosis	0	19	0.6	3	16	0.5
Malaria	2	37	1.1	3	56	1.7
Measles	10	51	1.4	2	19	0.9
Meningococcal disease ⁷	55	492	14.8	42	494	16.5
Mumps	3	44	1.4	10	55	1.6
Paratyphoid	0	12	0.4	0	14	0.5
Pertussis	56	458	17.2	103	884	27.2
Rheumatic fever	3	115	3.5	8	77	2.2
Rickettsial disease	0	1	0	0	6	0.2
Rubella	3	24	0.7	1	30	0.9
Salmonellosis	114	1188	38.7	138	1622	55.3
SARS	0	1	0	0	0	0
Shigellosis	10	74	2.3	8	99	2.9
Tetanus	0	2	0.1	0	1	0.1
Tuberculosis	40	337	10.9	45	311	10.2
Typhoid	1	18	0.5	3	22	0.8
VTEC / STEC infection	16	91	2.6	5	65	1.9
Yersiniosis	43	358	11.7	45	396	12.5

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

² These data are provisional

³ Rate is based on the cumulative total for the current year (12 months up to and including October 2003) or the previous year (12 months up to and including October 2002), 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 October 2003 and preceding 12 months ¹

Disease	Oct 2003	Sep 2003	Aug 2003	Jul 2003	Jun 2003	May 2003	Apr 2003	Mar 2003	Feb 2003	Jan 2003	Dec 2002	Nov 2002	Oct 2002
AIDS	0	5	1	5	3	2	1	2	4	4	0	2	0
Campylobacteriosis	1456	1390	1394	1070	750	709	768	1189	1266	1787	1273	1042	1162
Cryptosporidiosis	195	181	60	16	29	31	48	52	60	24	45	95	261
Dengue fever	0	0	1	3	3	15	10	7	7	8	1	9	0
Gastroenteritis ²	62	108	46	73	121	112	75	97	64	49	143	68	154
Giardiasis	128	130	139	110	153	117	123	148	130	131	114	110	112
Haemophilus influenzae type b	0	1	3	2	1	1	1	1	0	2	0	0	0
Hepatitis A	5	7	7	5	5	4	2	8	12	6	3	8	3
Hepatitis B (acute) ³	3	5	9	6	5	5	7	3	4	8	10	3	3
Hepatitis C (acute) ³	2	9	3	4	2	1	6	2	0	4	5	3	1
Hydatid disease	0	0	0	0	0	0	0	0	0	0	1	0	0
Influenza ⁴	28	29	264	645	72	6	0	5	0	0	0	1	22
Lead absorption	10	8	11	6	11	13	4	24	16	5	3	9	6
Legionellosis	7	5	3	8	8	8	6	2	4	5	4	5	1
Leprosy	1	0	0	0	0	1	0	0	1	0	0	1	0
Leptospirosis	7	16	10	5	8	6	7	9	8	16	8	14	10
Listeriosis	0	1	2	2	2	2	2	3	3	2	1	2	3
Malaria	2	7	2	5	3	3	2	1	9	3	2	3	3
Measles	10	6	4	5	5	9	2	7	0	3	0	2	2
Meningococcal disease ⁵	55	68	54	90	52	41	30	28	40	34	33	28	42
Mumps	3	5	1	10	2	2	6	4	5	6	3	6	10
Paratyphoid	0	2	1	1	0	1	0	1	3	3	1	1	0
Pertussis	56	38	61	46	62	25	21	35	48	66	76	108	103
Rheumatic Fever	3	3	35	18	2	7	18	13	2	14	4	12	8
Rickettsial disease	0	0	1	0	0	0	0	0	0	0	0	0	0
Rubella	3	3	6	2	2	0	1	1	3	3	2	1	1
Salmonellosis	114	102	106	72	79	107	132	150	167	159	123	135	138
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	10	2	2	15	7	10	9	3	6	10	9	4	8
Tetanus	0	0	0	0	1	0	1	0	0	0	0	0	0
Tuberculosis	40	45	27	34	30	31	38	27	30	35	36	35	45
Typhoid	1	0	3	2	1	2	0	2	6	1	1	0	3
VTEC/STEC infection	16	2	5	6	3	19	19	10	8	3	5	3	5
Yersiniosis	43	45	35	35	18	21	18	44	43	56	31	49	45

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 - October 2003

Cases this month

Current rate¹

Disease	Cases for October 2003, 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	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	1.7			0.6	0	0	0	0	0.7	0	0	0.8	0	0.8	0.8	4.4	0	0.6	0	0
Campylobacteriosis	26	150	122	97	168	58	57	13	52	64	26	57	54	152	20	36	12	187	19	60	26
	194.8	393.9	395.1	326.7	446.6	411.5	282.9	297.9	358.2	405.5	303.5	209.7	482.4	606.4	369.0	246.6	316.9	424.5	392.2	308.7	306.7
Cryptosporidiosis	3	3	2	2	34	8	9	4	5	18	6	16	2	1	3	9	2	22	18	18	10
	11.4	3.7	5.2	5.1	41.9	30.2	13.5	20.5	11.6	36.9	33.0	29.0	16.7	52.1	34.0	19.6	56.1	21.3	87.2	38.1	32.9
Dengue fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.4	1.9	6.3	1.3	1.0	3.1	1.1	0	0	0	0	0	2.0	2.8	2.6	0	0	1.9	0	0	1.9
Gastroenteritis	0	4	12	7	9	0	0	0	0	0	2	0	4	4	0	1	0	18	0	1	0
	15.0	22.3	35.4	17.6	19.5	38.5	2.8	36.4	7.8	2.1	14.2	0.6	21.2	35.0	34.0	26.9	9.9	59.0	34.1	22.3	90.0
Giardiasis	2	11	18	6	19	6	3	0	4	8	1	5	6	10	1	5	4	13	0	3	2
	19.3	41.4	62.3	30.9	58.9	58.3	44.9	27.3	11.6	58.5	31.4	34.8	28.1	65.9	20.9	34.3	39.6	33.5	15.2	26.4	19.3
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
	3.0	0	0	2.0	0	0	1.1	0	0	1.0	0	0.6	0	0	0	0	0	0.7	0	0	0
Hepatitis A	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	1.4	2.1	4.1	4.0	1.3	2.0	1.1	1.0	0	2.8	1.0	0	0.8	3.3	0	0	0	0.9	1.9	3.0	0
Hepatitis B	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.4	2.1	3.0	1.9	1.6	5.2	1.0	4.5	1.9	2.1	1.0	2.0	3.0	3.0	7.9	2.4	0	0.7	1.0	1.0	0
Hepatitis C	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.4	1.0	1.6	2.0	0.3	2.1	2.8	1.0	0	1.4	2.0	2.6	0	1.6	0	0	13.2	5.0	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	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead absorption	0	1	1	0	1	1	0	0	0	1	0	0	0	2	0	0	0	2	0	1	0
	2.1	1.2	3.5	1.1	4.7	1.0	1.0	1.0	6.8	6.3	2.0	7.7	0	5.7	10.5	3.0	0	3.0	2.0	4.7	2.9
Legionellosis	0	1	1	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1
	0	2.8	2.7	9.0	0.3	0	3.4	0	1.9	2.1	1.0	1.0	1.5	2.8	5.2	0	1.0	1.2	0	0.6	1.9
Leprosy	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1.0	0.5	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	1	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
	4.3	0.7	1.0	0.8	6.3	1.0	2.2	13.6	2.9	10.4	6.3	5.8	0	0	2.6	13.1	0	2.8	3.8	3.5	1.9
Listeriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.0	0.9	1.4	2.0	0.6	0	1.1	0	0	0	0	1.9	0.8	1.0	0	0	0	0	0	0	0
Malaria	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	0	1.6	0.8	1.6	1.3	1.0	0	0	0	0	3.1	0.6	3.0	0.8	0	0	0	2.1	0	3.0	1.0
Measles	0	0	0	0	0	0	0	0	0	0	0	4	1	1	0	1	0	2	1	0	0
	0	4.0	1.0	2.0	0.3	0	1.0	0	0	1.4	1.0	11.0	5.3	1.6	0	5.7	3.3	1.6	2.0	0	2.0
Meningococcal disease ⁹	2	4	8	11	4	2	9	0	1	3	2	1	1	1	1	1	0	3	1	0	0
	27.8	11.9	18.8	24.8	12.6	34.4	30.9	9.1	8.7	13.9	28.3	7.0	9.9	8.9	5.2	1.0	6.6	7.3	11.4	15.8	10.6
Mumps	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	5.7	0.5	0.5	0.5	0.9	1.0	1.1	1.0	1.0	2.1	2.0	1.0	1.5	3.0	2.6	4.1	3.3	1.2	0	4.1	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	1.2	1.1	0.3	0	0	0	0	0	0.7	0	0	0	0	0	0	0	2.0	0	0.6	0
Pertussis	1	8	6	2	8	0	1	2	0	10	0	0	0	1	0	1	0	8	4	4	0
	5.7	14.9	7.3	7.2	20.1	5.2	11.2	5.0	12.6	43.9	66.0	18.1	24.3	8.1	0	53.9	62.7	21.3	54.9	8.0	10.6
Rheumatic fever	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5.0	3.0	6.3	12.8	2.8	4.0	4.5	4.5	0	4.9	1.0	1.3	4.0	2.0	0	0	0	0.2	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	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	0	0	0.3	1.0	0	0	1.1	2.3	0	4.9	0	1.0	0	1.6	2.6	1.0	16.5	2.0	0	1.0	0
Salmonellosis	3	8	9	8	12	1	6	4	1	7	0	3	3	7	1	4	0	12	3	15	7
	30.0	35.4	39.2	33.8	51.0	28.1	31.4	56.9	23.3	43.9	42.5	26.5	34.1	45.1	44.5	31.0	23.1	43.8	53.0	39.2	54.2
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	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0
	0.7	2.8	6.8	3.2	1.6	0	0	0	0	1.4	1.6	0	0.8	2.4	5.2	1.6	0	2.6	0	3.5	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	1.0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0
Tuberculosis	1	10	10	2	1	0	2	0	1	1	0	1	1	6	0	1	0	1	1	1	0
	7.0	43.0	57.0	40.0	9.0	2.0	11.0	0	10.0	8.0	1.0	2.0	10.0	25.0	0	3.0	1.0	4.0	3.0	5.0	1.0
Typhoid	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	1.9	1.9	0	0	0	0	0	0	0	0	1.5	1.2	0	0	0	0	0	0	0
VTEC / STEC	2	0	0	3	1	1	0	0	2	0	0	1	0	0	0	1	0	3	1	1	0
	7.1	0.9	2.0	2.1	6.0	2.0	3.9	0	6.0	0.7	0	2.6	0	1.2	0	4.0	1.0	2.1	17.1	4.1	2.9
Yersiniosis	0	7	6	0	3	2	1	1	0	1	0	2	3	4	0	1	3	7	0	1	1
	3.6	17.5	15.8	5.9	13.5	8.3	9.5	34.1	3.9	10.4	7.9	5.2	11.4	12.6	20.9	5.0	49.5	13.3	22.7	9.4	4.0

1 Current rate is based on the cumulative total for the 12 months up to and including October 2003 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.