

MONTHLY SURVEILLANCE REPORT

Data contained within this September monthly report is based on information recorded on EpiSurv by public health service staff up until 13 October 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

- *Cryptosporidiosis*: There was a typical spring peak in notified cases of cryptosporidiosis, with 180 notifications received during September 2003, compared to just 60 the month before. Monthly rates were nearly 8 times higher in the '1 to 4 years' age group than in the general population. Of the 65 cases for whom information on animal contact was recorded, 92% reported contact with farm animals. South Canterbury DHB experienced the highest monthly incidence rate of 20.8 per 100 000, compared to a national rate of 4.8 per 100 000.
- *Haemophilus influenzae type b disease (Hib)*: One case of Hib in a 41-year-old hospital worker was notified in September 2003. The case was hospitalised with epiglottitis. Laboratory results are awaited.
- *Leptospirosis*: 15 cases of leptospirosis were notified in September 2003, bringing the year-to-date to 85. Among the 13 September cases for whom occupation was recorded, seven worked in the meat processing industry and four were farmers. The most commonly identified serovar among the 12 laboratory confirmed notifications was *L. hardjo* (9 cases), followed by *L. pomona* (3 cases).
- *Measles*: 6 cases were notified in September 2003, of whom three were laboratory confirmed. This brings the year-to-date total to 42 cases, compared to a total of just 25 notifications during 2002. Four September cases were aged under 3 years, and two cases were in their twenties. Vaccination status was recorded for four cases, of whom two (including one laboratory-confirmed case) had received at least one dose of vaccine. Both adult cases were hospitalised.
- *Meningococcal disease*: 67 cases of meningococcal disease were notified during September 2003, of whom 51 (76%) were laboratory-confirmed. This brings the

year-to-date total to 436 cases. In comparison, 55 cases were notified the previous month, and 68 cases were notified during September the previous year. Rates of disease were highest in the 'less than one year' age group, with a monthly rate of 14.6 per 100 000 (8 cases). Whanganui and Lakes DHBs experienced the highest rates of 9.4 and 5.2 per 100 000, respectively, compared to a national rate of 1.8 per 100 000. Among the 64 cases for whom ethnicity was recorded, 32 (50%) were European, 19 (30%) were Maori, and 13 (20%) were Pacific Peoples.

- *Salmonellosis*: 105 cases were notified during September 2003, compared to 131 cases during the same month last year. Among the 99 (94%) cases that could be matched to human cases identified by the ESR Enteric Reference Laboratory (ERL), the most frequently identified serotype was *S. Typhimurium* (54 cases), (including 23 cases of *S. Typhimurium* phage type 160), and *S. Brandenburg* (14 cases). Incidence rates were highest in Southland and Otago DHBs, with monthly rates of 11.6 and 7.0 per 100 000, respectively, compared to a national rate of 2.8 per 100 000. Among the 36 cases for whom information on contact with animals was recorded, 47% reported contact with farm animals. As in previous years, the elevated rate of salmonellosis in Southland during September was largely due to a spring peak in incidence of *S. Brandenburg* (9 of the 14 cases notified nationally were from Southland DHB).
- *Tuberculosis*: 44 cases of tuberculosis were notified in September 2003, compared to 28 cases during the same month the previous year. Among the 36 cases for whom hospitalisation status was recorded, 25 (69%) were hospitalised. Twenty cases (45%) were of Other ethnicity, 11 were Pacific Peoples, 7 were European and 6 were Maori. Country of birth was recorded for 32 cases, of whom 20 (63%) were born overseas. Among overseas-born cases for whom the date of arrival in New Zealand was recorded, two cases arrived less than one year prior to notification, 6 cases arrived between one and five years prior to notification, and 7 cases arrived more than five years prior to notification.

2. Outbreaks

According to information recorded on EpiSurv, 15 outbreaks commenced in September. Among these, the most commonly reported illnesses or pathogens were gastroenteritis (8 outbreaks) and *Campylobacter* (3 outbreaks). There were also two norovirus outbreaks, one *Giardia* and one measles outbreak reported. The largest outbreak reported, involving 33 cases, was an outbreak of gastroenteritis in a Southland resthome.

3. Deaths from notifiable diseases

Three deaths from meningococcal disease were reported in September: one female infant from Otago DHB, and a teenage male and a young adult female from Capital and Coast DHB.

4. Data tables

Disease incidence and rates

Disease ¹	Current year - 2003 ²			Previous year - 2002		
	Sep 2003 cases	Cumulative total since 1 January	Current rate ³	Sep 2002 cases	Cumulative total since 1 January	Previous rate ³
AIDS	5	27	0.8	3	15	0.6
Campylobacteriosis	1386	10319	369.1	1176	9017	349.4
Cryptosporidiosis	180	500	24.1	241	574	25.7
Dengue fever	0	54	1.7	0	60	2.2
Gastroenteritis ⁴	107	740	29.6	69	723	25.8
Giardiasis	129	1180	40.6	107	1211	42.9
<i>H. influenzae</i> type b disease	1	12	0.3	0	3	0.1
Hepatitis A	7	56	1.9	2	93	2.9
Hepatitis B (acute) ⁵	4	51	1.8	5	52	1.7
Hepatitis C (acute) ⁵	9	31	1.1	7	44	1.5
Hydatid disease	0	0	0	0	1	0.1
Influenza ⁶	29	1021	27.9	103	675	18.6
Lead absorption	8	99	3.1	5	73	2.5
Legionellosis	5	49	1.6	4	39	1.3
Leprosy	0	2	0.1	0	3	0.1
Leptospirosis	15	85	3.1	13	109	3.6
Listeriosis	1	19	0.7	1	13	0.5
Malaria	7	35	1.2	6	53	1.7
Measles	6	42	1.2	0	17	1.4
Meningococcal disease ⁷	67	436	14.4	72	452	17.1
Mumps	6	42	1.6	6	45	1.4
Paratyphoid	2	12	0.4	0	14	0.6
Pertussis	38	401	18.4	97	781	26.0
Rheumatic fever	3	112	3.6	4	69	2.1
Rickettsial disease	0	1	0	2	6	0.2
Rubella	3	21	0.7	1	29	0.9
Salmonellosis	105	1074	39.3	131	1484	59.6
SARS	0	1	0	0	0	0
Shigellosis	2	64	2.3	4	91	3.0
Tetanus	0	2	0.1	0	1	0.1
Tuberculosis	44	296	11.0	28	266	10.0
Typhoid	0	17	0.6	0	19	0.7
VTEC / STEC infection	2	75	2.4	6	60	1.9
Yersiniosis	44	314	11.7	26	351	12.9

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

² These data are provisional

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

Disease	Sep 2003	Aug 2003	Jul 2003	Jun 2003	May 2003	Apr 2003	Mar 2003	Feb 2003	Jan 2003	Dec 2002	Nov 2002	Oct 2002	Sep 2002
AIDS	5	1	5	3	2	1	2	4	4	0	2	0	3
Campylobacteriosis	1386	1393	1068	752	710	767	1190	1266	1787	1273	1042	1162	1176
Cryptosporidiosis	180	60	16	29	31	48	52	60	24	45	95	261	241
Dengue fever	0	1	3	3	15	10	7	7	8	1	9	0	0
Gastroenteritis ²	107	42	73	121	112	75	97	64	49	143	68	154	69
Giardiasis	129	139	110	153	117	123	148	130	131	114	110	112	107
Haemophilus influenzae type b	1	3	2	1	1	1	1	0	2	0	0	0	0
Hepatitis A	7	7	5	5	4	2	8	12	6	3	8	3	2
Hepatitis B (acute) ³	4	9	6	5	5	7	3	4	8	10	3	3	5
Hepatitis C (acute) ³	9	3	4	2	1	6	2	0	4	5	3	1	7
Hydatid disease	0	0	0	0	0	0	0	0	0	1	0	0	0
Influenza ⁴	29	264	645	72	6	0	5	0	0	0	1	22	103
Lead absorption	8	12	6	11	13	4	24	16	5	3	9	6	5
Legionellosis	5	3	8	8	8	6	2	4	5	4	5	1	4
Leprosy	0	0	0	0	1	0	0	1	0	0	1	0	0
Leptospirosis	15	10	5	8	6	7	9	9	16	8	14	10	13
Listeriosis	1	2	2	2	2	2	3	3	2	1	2	3	1
Malaria	7	2	5	3	3	2	1	9	3	2	3	3	6
Measles	6	5	5	5	9	2	7	0	3	0	2	2	0
Meningococcal disease ⁵	67	54	90	52	41	30	28	40	34	33	28	42	72
Mumps	6	1	10	2	2	6	4	5	6	3	6	10	6
Paratyphoid	2	1	1	0	1	0	1	3	3	1	1	0	0
Pertussis	38	60	46	62	25	21	35	48	66	76	108	103	97
Rheumatic Fever	3	35	18	2	7	18	13	2	14	4	12	8	4
Rickettsial disease	0	1	0	0	0	0	0	0	0	0	0	0	2
Rubella	3	6	2	2	0	1	1	3	3	2	1	1	1
Salmonellosis	105	106	72	79	106	132	149	167	158	123	135	138	131
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	2	2	15	7	10	9	3	6	10	9	4	8	4
Tetanus	0	0	0	1	0	1	0	0	0	0	0	0	0
Tuberculosis	44	27	34	30	31	38	27	30	35	36	35	45	28
Typhoid	0	3	2	1	2	0	2	6	1	1	0	3	0
VTEC/STEC infection	2	5	6	3	19	19	10	8	3	5	3	5	6
Yersiniosis	44	35	35	18	21	18	44	43	56	31	49	45	26

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 - September 2003

Cases this month

Current rate¹

Disease	Cases for September 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	2			0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	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	
Campylobacteriosis	30	130	99	86	180	46	38	14	46	84	24	36	105	169	18	26	9	172	18	32	24
	192.7	399.8	401.6	331.5	429.0	380.2	265.5	288.8	336.8	379.7	284.6	188.4	466.4	590.5	340.2	237.6	300.4	414.0	380.8	302.2	318.3
Cryptosporidiosis	5	6	3	5	58	10	1	1	2	12	4	17	1	1	4	1	6	13	12	11	7
	9.3	5.8	5.4	5.3	42.8	33.3	11.8	11.4	17.5	38.3	36.2	31.6	17.4	57.3	31.4	19.6	66.0	22.7	89.0	46.9	38.7
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	5	7	2	4	2	0	0	0	1	1	0	0	10	1	0	1	16	5	1	51
	15.7	23.7	34.3	17.6	17.3	39.6	2.8	36.4	9.7	2.1	12.6	0.6	23.5	38.6	39.3	27.8	9.9	61.8	142.1	25.2	90.0
Giardiasis	2	19	12	7	24	5	7	2	0	6	0	3	5	16	1	1	2	11	0	4	2
	18.6	41.9	64.2	31.7	57.6	54.2	43.8	27.3	8.7	58.5	29.9	33.6	25.0	65.5	18.3	32.7	29.7	32.5	20.8	27.5	18.4
H. influenzae type b disease	1	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	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0
	1.4	1.9	4.1	3.7	1.3	2.0	1.1	1.0	0	2.8	1.0	0	0.8	3.3	0	0	0	1.2	1.9	2.0	0
Hepatitis B	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
	2.1	1.6	3.0	1.6	1.9	3.1	1.0	6.8	1.9	2.1	1.0	2.0	3.0	3.0	7.9	2.4	0	0.7	2.0	1.0	0
Hepatitis C	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3	0	0	0
	1.4	0.2	1.6	1.0	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	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead absorption	0	1	0	1	0	0	0	0	0	0	0	2	0	3	0	0	0	1	0	0	0
	2.1	1.2	3.3	1.1	4.4	0	1.0	1.0	6.8	5.6	2.0	7.7	0	4.9	10.5	3.3	0	2.8	5.7	5.3	3.9
Legionellosis	0	1	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	2.6	2.4	9.0	0.3	0	3.4	0	1.0	2.1	1.0	0	1.5	2.4	5.2	0	1.0	0.9	0	1.2	1.0
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	0.5	0	0	0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	0	0	0	0	5	0	0	1	1	1	0	2	0	0	0	1	0	3	0	0	1
	4.3	0.7	1.0	1.1	6.0	1.0	2.2	13.6	5.8	9.8	6.3	7.1	0	0	2.6	13.1	0	2.6	3.8	3.5	1.9
Listeriosis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.0	0.9	1.6	2.0	0.6	0	1.1	0	0	0	0	2.6	0.8	1.0	0	0	0	0.2	0	0	0
Malaria	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0
	0	1.9	0.8	1.3	1.3	1.0	0	0	1.0	0	1.6	0.6	3.0	0.8	0	0	0	2.3	0	3.0	1.0
Measles	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	2
	0	4.0	1.0	2.0	0.3	0	1.0	0	0	1.4	1.0	7.0	5.3	1.2	0	4.9	3.3	1.6	1.0	0	2.0
Meningococcal disease ⁹	2	10	7	9	4	4	4	1	1	2	5	0	1	5	0	0	0	5	0	5	2
	26.4	11.6	17.9	22.9	11.6	38.5	25.8	9.1	7.8	13.9	26.7	4.5	10.6	10.6	2.6	0	6.6	7.7	9.5	18.2	11.6
Mumps	0	0	0	0	0	0	0	1	0	1	1	0	0	3	0	0	0	0	0	0	0
	5.7	0.7	0.8	0.8	0.9	1.0	1.7	1.0	1.0	2.1	2.0	0	0.8	3.0	2.6	4.1	3.3	1.4	0	7.0	1.0
Paratyphoid	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	7	2	5	7	0	0	2	0	2	0	0	1	1	0	3	0	7	0	0	0
	5.7	17.5	6.0	7.5	21.7	5.2	10.7	3.0	17.5	36.9	72.3	20.6	29.6	9.4	5.2	63.7	79.2	22.9	56.8	3.0	12.6
Rheumatic fever	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	3.6	3.0	6.8	13.3	2.8	4.0	3.9	4.5	0	4.9	1.0	1.3	4.0	1.6	2.6	0.8	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	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0
	0	0	0.3	1.0	0	0	0.6	2.3	0	4.9	0	1.0	0	1.6	2.6	1.0	16.5	1.0	0	1.0	0
Salmonellosis	2	7	8	8	14	1	4	2	1	3	2	1	4	7	2	5	1	8	1	12	12
	29.3	37.2	40.8	33.8	51.0	31.3	32.0	59.1	22.3	42.5	47.2	27.1	35.6	45.6	47.1	29.4	23.1	45.0	51.2	36.3	58.0
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	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	0.7	2.8	6.8	2.9	1.6	0	0	0	0	2.1	1.6	0	0.8	2.4	5.2	1.6	0	2.3	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	1.0	0	0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	0
Tuberculosis	3	8	9	10	1	1	0	0	3	0	0	1	0	4	0	1	0	2	0	1	0
	6.0	34.0	48.0	39.0	8.0	2.0	9.0	0	5.0	7.0	1.0	1.0	9.0	19.0	0	2.0	1.0	4.0	2.0	4.0	1.0
Typhoid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.2	1.6	2.1	0	0	0	0	0	0	0	0	1.5	1.2	0	0	0	0.2	0	0	0
VTEC / STEC	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	5.7	0.9	2.0	1.3	6.3	1.0	3.9	0	4.0	0.7	1.6	1.9	0	1.2	0	3.0	1.0	1.9	15.2	3.5	2.9
Yersiniosis	0	6	3	2	1	0	3	4	1	4	1	1	1	3	1	3	1	4	1	4	0
	3.6	18.1	16.3	6.7	13.8	8.3	9.0	31.8	3.9	11.8	7.9	3.9	9.1	11.8	20.9	4.0	56.1	12.6	24.6	8.8	4.8

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