
MONTHLY SURVEILLANCE REPORT

Data contained within this December monthly report is based on information recorded on EpiSurv by public health service staff up until 18 January 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

- *Campylobacter*: a total of 1395 cases were notified in December 2004 of whom 1279 (91.7%) were confirmed. In comparison, 1542 cases were notified in the same month last year. Amongst December 2004 cases for whom this information was recorded, 87 (48.9%, 87/178) cases consumed food from a food premise, 53 (28.5%, 53/186) reported contact with untreated water, and 26 (12.7%, 26/204) reported contact with faecal matter during the incubation period. South Canterbury recorded the highest current rate of 545.6 per 100 000 population compared to the national rate of 327.4 per 100 000 population.
- *Lead absorption*: seven cases of lead absorption were notified in December 2004 compared to two cases notified at the same time last year. The cases range in range from 29 to 52 years. Two cases were currently working in high-risk occupation, as a painter and in the metal industry. Four cases were living in a pre-1970 constructed building. Two of these buildings were currently having paint stripped. One case was recorded as having a hobby of making lead bullets.
- *Meningococcal disease*: based on earliest¹ date available, 18 cases of meningococcal disease were notified during December 2004, of which 10 (55.6%) were laboratory-confirmed. In comparison, 26 cases were notified the previous month, and 24 cases were notified during December 2003. Tairāwhiti DHB recorded the highest current rate of 29.6 per 100 000 population (13 cases). Counties Manukau recorded the highest number of cases (49) with a current rate of 13.0 per 100 000 population. The rate of disease was highest amongst infants aged less than one year (84.2 per 100 000 population), followed by children in the 1-4 years age group (44.4).

¹ 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.

- *Pertussis*: during December 2004, 538 cases were notified a slight decrease from the peak of 617 cases the month before (Figure 1). Of the 538 December 2004 cases, 136 (25.3%) were laboratory-confirmed and 13 cases (2.8%, 13/457) had been hospitalised. Canterbury DHB had the highest number of cases (181). Southland DHB had the highest current incidence rate of 593.2 per 100 000 population (82 cases), compared to a national rate of 93.4 per 100 000 population. The current rate by age group was highest amongst infants aged less than one year (331.2 per 100 000 population), followed by the children in the 5-9 years age group (231.0), and children in the 10-14 years age group (207.4).
- *Shigellosis*: 11 shigellosis cases were notified in December 2004 compared to seven notified cases during December the previous year. The cases were from Canterbury (8), Waitemata (1), Auckland (1), and Counties Manukau (1) DHBs. The ESR Enteric Reference Laboratory received isolates from six of the 11 cases. One isolate could not be further serotyped and five were identified as *S. flexneri* 2a (1), *S. flexneri* 6 (1), *S. sonnei* Biotype a (1), *S. sonnei* biotype g (1), and *S. boydii* 13 (1). Overseas travel was recorded for eight of the cases, of which six had been overseas during the incubation period. The countries visited were United States of America (3 cases), Egypt (1), India (1), and Australia (1).

2. Deaths from notifiable diseases

The table below shows the deaths from notifiable diseases in December. One death was reported this month.

Disease	District Health Board	Age group	Sex
Tuberculosis – new case	Hawkes Bay	70+	M

3. Trends in selected diseases to December 2004

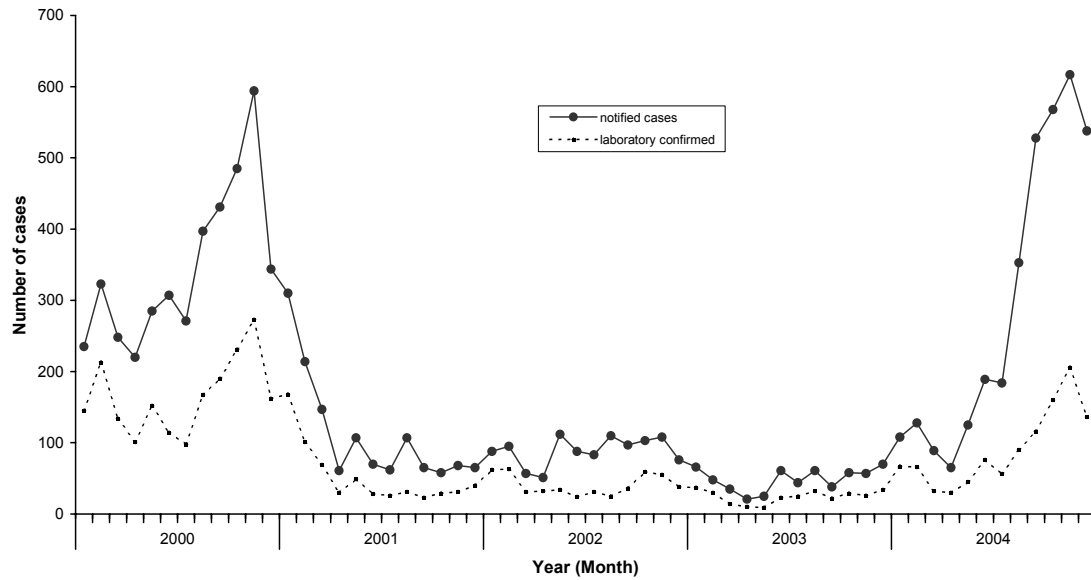


Figure 1: Pertussis notifications and laboratory confirmed cases by month, 2000-2004

4. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2004 ²			Previous year - 2003		
	Dec 2004 cases	Cumulative total since 1 January	Current rate ³	Dec 2003 cases	Cumulative total since 1 January	Previous rate ³
AIDS	6	39	1.0	5	33	0.9
Campylobacteriosis	1395	12235	327.4	1542	14790	395.7
Cryptosporidiosis	20	611	16.3	30	818	21.9
Dengue fever	0	8	0.2	0	55	1.5
Gastroenteritis ⁴	65	1358	36.3	89	1026	27.5
Giardiasis	109	1515	40.5	138	1569	42.0
<i>H. influenzae</i> type b disease	1	4	0.1	1	12	0.3
Hepatitis A	3	49	1.3	5	70	1.9
Hepatitis B (acute) ⁵	3	39	1.0	2	61	1.6
Hepatitis C (acute) ⁵	1	26	0.7	4	40	1.1
Hydatid disease	0	1	0	0	0	0
Influenza ⁶	0	887	23.7	2	1052	28.1
Lead absorption	7	96	2.6	2	119	3.2
Legionellosis	2	63	1.7	17	77	2.1
Leprosy	0	3	0.1	0	4	0.1
Leptospirosis	8	105	2.8	8	113	3.0
Listeriosis	2	26	0.7	2	24	0.6
Malaria	2	33	0.9	3	46	1.2
Measles	8	34	0.9	12	67	1.8
Meningococcal disease ⁷	19	346	9.3	27	542	14.5
Mumps	4	46	1.2	8	56	1.5
Paratyphoid	0	23	0.6	4	18	0.5
Pertussis	538	3492	93.4	70	584	15.6
Rheumatic fever	3	74	2.0	10	151	4.0
Rickettsial disease	0	2	0.1	0	1	0
Rubella	4	25	0.7	3	26	0.7
Salmonellosis	80	1095	29.3	126	1401	37.5
SARS	0	0	0	0	0	0
Shigellosis	11	140	3.7	7	87	2.3
Tetanus	0	1	0	0	2	0.1
Tuberculosis	41	375	10.0	42	421	11.3
Typhoid	0	31	0.8	0	20	0.5
VTEC / STEC infection	6	89	2.4	5	104	2.8
Yersiniosis	27	422	11.3	40	439	11.7

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

² These data are provisional

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

Disease	Dec 2004	Nov 2004	Oct 2004	Sep 2004	Aug 2004	Jul 2004	Jun 2004	May 2004	Apr 2004	Mar 2004	Feb 2004	Jan 2004	Dec 2003
AIDS	6	3	5	4	3	4	2	0	3	2	4	3	5
Campylobacteriosis	1395	1283	928	920	912	828	844	670	680	1206	1074	1495	1542
Cryptosporidiosis	20	86	185	160	50	12	13	18	10	21	19	17	30
Dengue fever	0	0	0	0	0	0	2	0	0	3	1	2	0
Gastroenteritis ²	65	124	134	104	91	88	165	113	199	86	72	117	89
Giardiasis	109	144	103	102	105	134	131	121	118	149	156	143	138
Haemophilus influenzae type b	1	0	0	1	0	1	1	0	0	0	0	0	1
Hepatitis A	3	1	2	2	4	5	2	6	6	5	7	6	5
Hepatitis B (acute) ³	3	2	1	2	4	7	2	4	1	2	8	3	2
Hepatitis C (acute) ³	1	2	2	1	2	3	0	3	0	5	7	0	4
Hydatid disease	0	1	0	0	0	0	0	0	0	0	0	0	0
Influenza ⁴	0	21	153	626	57	13	6	2	2	0	4	3	2
Lead absorption	7	9	7	7	8	8	7	10	6	10	7	10	2
Legionellosis	2	7	5	2	5	4	4	8	7	4	11	4	17
Leprosy	0	0	1	0	0	1	0	0	1	0	0	0	0
Leptospirosis	8	5	6	10	9	7	10	10	11	13	8	8	8
Listeriosis	2	2	2	2	2	1	1	1	2	4	4	3	2
Malaria	2	3	1	2	3	3	1	3	4	2	6	3	3
Measles	8	3	3	1	1	1	1	2	5	3	1	5	12
Meningococcal disease ⁵	19	28	36	54	38	35	25	29	23	29	11	19	27
Mumps	4	7	3	5	7	3	4	1	2	1	4	5	8
Paratyphoid	0	2	2	4	0	3	2	2	2	3	3	0	4
Pertussis	538	617	568	528	353	184	189	125	65	89	128	108	70
Rheumatic Fever	3	5	9	3	11	4	11	3	5	5	12	3	10
Rickettsial disease	0	0	0	0	1	0	0	1	0	0	0	0	0
Rubella	4	2	1	3	2	1	1	3	1	3	1	3	3
Salmonellosis	80	98	93	72	92	62	74	81	88	116	97	142	126
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	11	22	6	8	19	10	10	12	9	11	8	14	7
Tetanus	0	0	0	1	0	0	0	0	0	0	0	0	0
Tuberculosis	41	32	38	30	39	29	27	35	25	34	26	19	42
Typhoid	0	1	3	5	0	3	6	2	1	2	5	3	0
VTEC/STEC infection	6	7	6	8	9	4	6	5	3	6	16	13	5
Yersiniosis	27	26	25	19	28	32	38	43	34	40	45	65	40

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 - December 2004

Cases this month

Current rate¹

Disease	Cases for December 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	0	6			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.4	2.2			0.6	0	0	0	0	2.1	0	0	0.3	0	0	0.8	0.3	4.4	0	0	1.0
Campylobacteriosis	39	201	137	156	120	25	41	5	39	51	13	35	47	71	12	37	15	140	46	85	80
	230.5	380.4	393.7	302.8	379.3	292.8	251.5	193.4	304.7	296.7	262.5	171.6	352.7	379.5	201.6	206.6	277.6	306.7	545.6	363.7	453.9
Cryptosporidiosis	0	3	1	1	1	4	0	0	0	0	0	2	1	1	2	1	0	2	0	1	0
	17.8	5.6	3.5	5.9	40.9	35.4	5.6	13.7	12.6	16.7	28.3	37.4	6.8	8.9	36.6	13.9	26.4	17.1	43.6	25.8	23.2
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	4	2	2	7	1	0	0	1	0	3	0	3	5	0	0	0	20	2	13	2
	1.4	18.4	23.4	14.4	132.2	54.2	1.1	0	6.8	4.9	14.1	71.0	26.5	27.2	20.9	13.9	16.5	48.2	145.9	39.2	46.4
Giardiasis	5	13	14	9	16	4	4	6	2	0	0	1	1	11	2	4	1	13	0	0	3
	35.0	41.2	57.9	31.4	61.7	55.2	31.4	54.6	19.4	44.6	31.4	27.1	48.5	54.9	34.0	40.0	33.0	34.0	13.3	21.1	23.2
H. influenzae type b disease	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0.3	0.3	0	0	0	0	0	0	0	0.8	0	0	0	0	0.2	0	0	0
Hepatitis A	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	0	1.4	1.9	4.0	0.6	2.1	0.6	2.3	1.0	1.4	0	0.6	0	2.0	0	1.6	0	0.7	0	0.6	0
Hepatitis B	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0.7	1.2	0.8	2.4	1.6	2.1	1.7	2.3	1.0	0.7	0	0	0	0.4	0	0.8	0	1.2	0	0.6	0
Hepatitis C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	0	0.7	0.8	0.3	0	1.0	1.1	4.6	0	0.7	0	0.6	0.8	0	7.9	0.8	9.9	0.5	0	0.6	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	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead absorption	0	1	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0
	2.1	1.4	1.4	0.3	3.5	2.1	0.6	6.8	1.9	1.4	6.3	4.5	1.5	1.6	0	1.6	3.3	3.3	3.8	10.0	6.8
Legionellosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
	2.1	1.9	2.7	2.4	1.3	0	2.8	2.3	1.0	0	1.6	1.3	0.8	2.4	2.6	1.6	3.3	0.7	5.7	1.2	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	0	0	1	0	0	2	0	2	0	0	0	1	0	1	0	0	1
	1.4	0.2	0.3	0.5	6.0	4.2	1.7	11.4	1.9	14.6	3.1	9.0	0	0.4	2.6	2.4	13.2	1.6	1.9	0.6	10.6
Listeriosis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	0	0.7	0.5	0.5	0.9	3.1	0.6	0	0	0.7	0	0.6	0.8	1.2	2.6	1.6	0	0	0	1.2	1.0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	0	0.7	1.6	0.8	1.6	0	0	0	0	0	1.6	0	0	2.8	0	0	0	0.9	0	1.2	1.9
Measles	0	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	1	3	0	0	0
	0	0.5	0.8	0.3	0.3	1.0	1.1	0	1.0	1.4	1.6	2.6	1.5	0	2.6	2.4	9.9	1.2	0	0	1.9
Meningococcal disease ⁹	0	3	3	2	1	1	0	0	0	3	0	2	0	0	0	0	1	2	0	1	0
	15.0	10.5	10.6	13.0	7.2	16.7	7.3	29.6	6.8	10.4	11.0	10.3	3.8	6.9	2.6	2.4	6.6	6.3	3.8	11.1	5.8
Mumps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1
	1.4	0.5	0.5	0.8	0.9	0	0.6	2.3	0	0.7	9.4	1.9	0.8	2.0	2.6	2.4	0	0.9	3.8	2.3	1.9
Paratyphoid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	0.9	0.5	1.3	0.6	1.0	0.6	0	0	1.4	0	0	0	0.4	0	0.8	0	0.7	0	0	0
Pertussis	8	9	12	9	66	13	22	3	2	2	0	2	10	18	1	69	2	181	10	17	82
	63.5	22.6	24.5	20.2	148.9	85.4	67.9	59.2	15.5	25.8	1.6	34.2	37.2	27.2	5.2	410.7	29.7	162.5	170.5	178.0	593.2
Rheumatic fever	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	6.4	0.2	1.4	6.1	3.1	1.0	3.4	11.4	0	4.2	0	0	0.8	2.8	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	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0
	1.4	0.2	0.3	0.3	0	1.0	1.1	0	2.9	2.1	1.6	0	1.5	0.4	2.6	1.6	6.6	0.5	0	0	0
Salmonellosis	2	8	3	7	10	0	0	1	3	8	2	0	0	4	0	2	0	11	5	7	7
	29.3	22.8	27.7	23.2	33.7	24.0	26.9	4.6	31.1	39.0	37.7	13.5	17.4	27.7	23.6	29.4	19.8	32.1	54.9	42.8	70.6
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	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0
	1.4	2.8	5.2	8.5	2.5	1.0	1.1	0	0	0	4.7	0	9.9	2.8	7.9	0.8	3.3	7.3	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	2	4	14	0	0	0	0	0	3	0	4	2	9	0	0	0	0	0	1	1
	3.6	10.9	18.2	18.9	9.8	3.1	3.9	2.3	3.9	18.1	3.1	10.3	9.1	18.3	10.5	4.1	6.6	4.4	1.9	2.9	1.9
Typhoid	0	0	0	0	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	1	0	1	1	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	0.7	1.4	1.1	1.3	9.4	2.1	8.4	4.6	3.9	2.1	0	0	0.8	0.4	0	2.4	0	0.9	0	3.5	1.9
Yersiniosis	1	4	5	3	5	0	2	0	0	1	0	0	2	0	0	0	1	2	1	0	0
	2.9	14.2	15.5	9.1	14.5	7.3	9.0	11.4	5.8	13.9	11.0	7.1	17.4	14.6	7.9	3.3	46.3	9.8	20.8	7.0	2.9

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