
MONTHLY SURVEILLANCE REPORT

Data contained within this October monthly report is based on information recorded on EpiSurv by public health service staff up until 8 November 2004. As this information may be updated over time, the results should be regarded as provisional only.

Table of contents

1. Key notifiable disease trends	1
2. Deaths from notifiable diseases	2
3. Trends in selected diseases to October 2004	3
4. Data Tables	4

1. Key notifiable disease trends

- *Barmah Forest virus infection*: a case of Barmah Forest virus infection was notified during October. The case was a female in the 5-9 years age group who had been in Queensland, Australia.
- *Brucellosis*: a case of brucellosis, confirmed through isolation of the organism, was notified during October. The case was an adult male who had worked in an abattoir in the late 1960's to mid 1980's before New Zealand became *Brucella*-free.
- *Gastroenteritis*: 130 cases of gastroenteritis were notified during October 2004, compared to 66 cases notified during the same month last year. Two cases were hospitalised. Over half (57.6% or 72/125) of the cases for whom age was recorded were aged over fifty years. Ninety cases were entered in EpiSurv as being linked to four outbreaks. The outbreaks were reported from Waikato, Manawatu, and Wellington (2 outbreaks). The Waikato outbreak alone in a rest home accounted for 68 cases.
- *Influenza*: This year the influenza sentinel surveillance was extended until the end of October to capture the late peak (Figure 1). During October 478 consultations for influenza-like illness were reported from 79 general practices (on average) in 21 out of 24 health districts. The average weekly consultation rate for October was 28.5 per 100 000 patient population. Otago had the highest consultation rate (102.6 per 100 000 per 100 000), followed by Rotorua (75.0 per 100 000). One hundred and twenty-three influenza swabs were received by the regional virology laboratories for testing. Of these, 21 influenza viruses were identified, nine as A/Fujian/411/02 (H3N2), six as B/Sichuan/379/99, four as influenza A (yet to be subtyped), and two as influenza B (not typed).

In addition, 96 influenza viruses were reported by the laboratory-based (non-sentinel) system in October. Of these, 57 were identified as influenza A (yet to

be subtyped), 26 as influenza B (not typed), 10 as A/Fujian/411/02 (H3N2), and three as B/Sichuan/379/99.

- *Meningococcal disease*: based on earliest¹ date available, 35 cases of meningococcal disease were notified during October 2004, of which 29 (82.9%) were laboratory-confirmed. In comparison, 54 cases were notified the previous month, and 48 cases were notified during October 2003. In October 2004, Tairāwhiti DHB recorded the highest current rate of 22.8 per 100 000 population (10 cases). Counties Manukau recorded the highest number of cases (63) with a current rate of 16.8 per 100 000 population. The rate of disease was highest amongst infants aged less than one year (89.7 per 100 000 population), followed by children in the 1-4 years age group (45.3).
- *Pertussis*: during October 2004, 555 cases were notified which is the second highest number notified in any one month since November 2000 (peak of the previous epidemic) (Figure 2). Of the 555 October 2004 cases, 145 (26.1%) were laboratory-confirmed and 27 cases (5.8% or 27/465) had been hospitalised. Canterbury DHB had the highest number of cases (134). Southland DHB had the highest current incidence rate of 430.6 per 100 000 population (133 cases), compared to a national rate of 65.7 per 100 000 population. The current rate by age group was highest amongst infants aged less than one year (272.6 per 100 000 population), followed by the children in the 5-9 years age group (160.4), and children in the 10-14 years age group (149.6).

2. Deaths from notifiable diseases

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

Disease	District Health Board	Age group	Sex
Tuberculosis - new case	Waikato	70+	Male

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.

3. Trends in selected diseases to October 2004

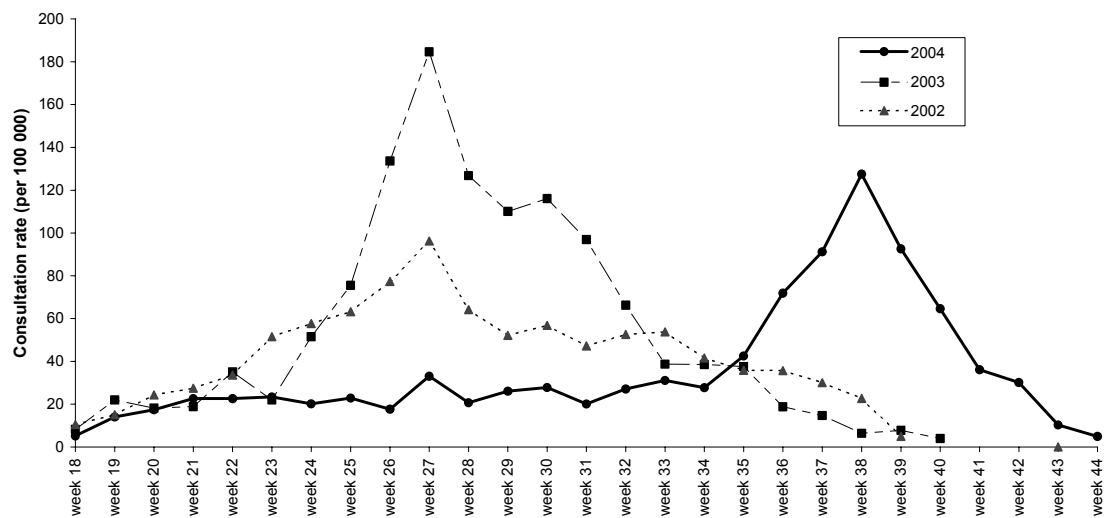


Figure 1: Weekly consultation rates for influenza-like illness in New Zealand, 2002-2004

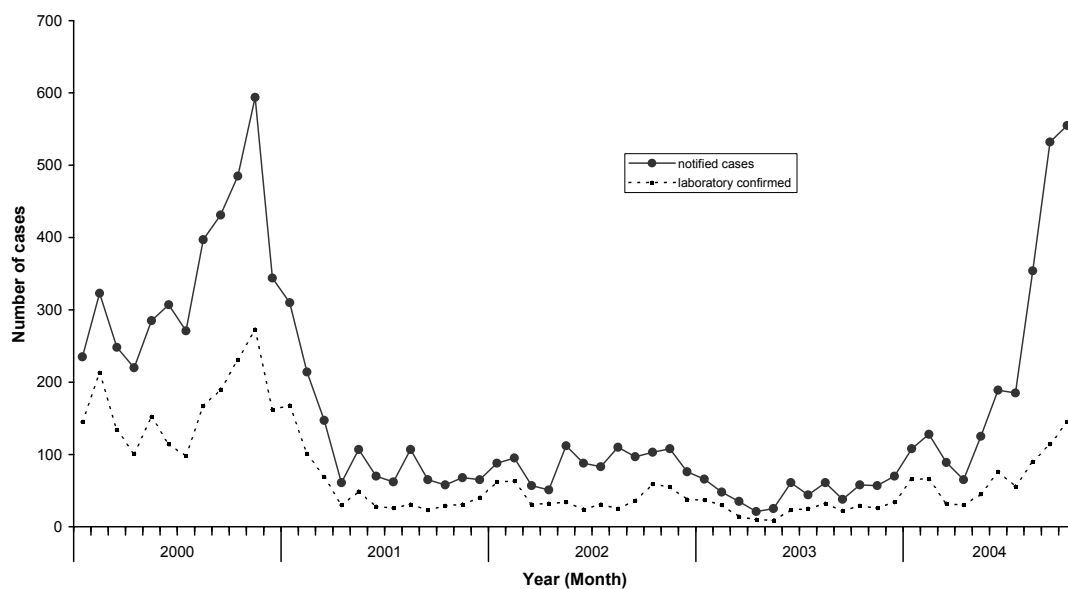


Figure 2: Pertussis notifications and laboratory confirmed cases by month, January 2000 - October 2004

4. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2004 ²			Previous year - 2003		
	Oct 2004 cases	Cumulative total since 1 January	Current rate ³	Oct 2003 cases	Cumulative total since 1 January	Previous rate ³
AIDS	5	30	1.0	0	27	0.8
Campylobacteriosis	924	9552	336.2	1454	11777	377.1
Cryptosporidiosis	185	506	16.8	195	696	22.4
Dengue fever	0	8	0.2	0	54	1.7
Gastroenteritis ⁴	130	1165	37.0	66	810	27.3
Giardiasis	101	1261	40.7	129	1309	41.0
<i>H. influenzae</i> type b disease	0	3	0.1	0	11	0.3
Hepatitis A	2	46	1.4	5	62	2.0
Hepatitis B (acute) ⁵	1	34	1.1	5	55	1.8
Hepatitis C (acute) ⁵	2	23	0.8	2	33	1.1
Hydatid disease	0	0	0	0	0	0
Influenza ⁶	153	866	23.3	28	1049	28.1
Lead absorption	7	80	2.4	10	108	3.2
Legionellosis	6	56	2.1	7	55	1.7
Leprosy	1	3	0.1	2	4	0.1
Leptospirosis	7	93	3.1	6	90	3.0
Listeriosis	2	22	0.7	0	19	0.6
Malaria	1	28	1.0	2	37	1.1
Measles	5	25	1.1	8	50	1.4
Meningococcal disease ⁷	37	301	9.7	51	481	14.5
Mumps	3	35	1.3	3	43	1.4
Paratyphoid	1	20	0.7	1	13	0.4
Pertussis	555	2330	65.7	58	457	17.2
Rheumatic fever	4	48	1.6	16	139	4.1
Rickettsial disease	0	2	0.1	0	1	0
Rubella	1	19	0.6	2	22	0.7
Salmonellosis	93	917	30.2	114	1188	38.7
SARS	0	0	0	0	0	0
Shigellosis	6	107	3.2	10	74	2.3
Tetanus	0	1	0	0	2	0.1
Tuberculosis	38	306	10.4	45	339	11.0
Typhoid	3	30	0.9	1	18	0.5
VTEC / STEC infection	6	76	2.4	16	91	2.6
Yersiniosis	24	368	12.0	43	358	11.7

Notes: ¹ Other notifiable infectious diseases reported in October: Barmah Forest virus infection, Brucellosis

² These data are provisional

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

Disease	Oct 2004	Sep 2004	Aug 2004	Jul 2004	Jun 2004	May 2004	Apr 2004	Mar 2004	Feb 2004	Jan 2004	Dec 2003	Nov 2003	Oct 2003
AIDS	5	4	3	4	2	0	3	2	4	3	5	2	0
Campylobacteriosis	924	919	912	828	844	670	680	1206	1074	1495	1542	1471	1454
Cryptosporidiosis	185	161	50	12	13	18	10	21	19	17	30	92	195
Dengue fever	0	0	0	0	2	0	0	3	1	2	0	1	0
Gastroenteritis ²	130	103	91	88	166	113	199	86	72	117	89	127	66
Giardiasis	101	102	105	135	131	121	118	149	156	143	138	122	129
Haemophilus influenzae type b	0	1	0	1	1	0	0	0	0	0	1	0	0
Hepatitis A	2	3	4	5	2	6	6	5	7	6	5	3	5
Hepatitis B (acute) ³	1	2	4	7	2	4	1	2	8	3	2	4	5
Hepatitis C (acute) ³	2	1	2	3	0	3	0	5	7	0	4	3	2
Hydatid disease	0	0	0	0	0	0	0	0	0	0	0	0	0
Influenza ⁴	153	626	57	13	6	2	2	0	4	3	2	1	28
Lead absorption	7	7	8	8	7	10	6	10	7	10	2	9	10
Legionellosis	6	2	5	4	4	8	7	5	11	4	17	5	7
Leprosy	1	0	0	1	0	0	1	0	0	0	0	0	2
Leptospirosis	7	10	9	7	10	10	11	13	8	8	8	15	6
Listeriosis	2	2	2	1	1	1	2	4	4	3	2	3	0
Malaria	1	2	3	3	1	3	4	2	6	3	3	6	2
Measles	5	1	1	1	1	2	5	3	1	5	12	5	8
Meningococcal disease ⁵	37	54	39	35	25	29	23	29	11	19	27	34	51
Mumps	3	5	7	3	4	1	2	1	4	5	8	5	3
Paratyphoid	1	4	0	3	2	2	2	3	3	0	4	1	1
Pertussis	555	532	354	185	189	125	65	89	128	108	70	57	58
Rheumatic Fever	4	3	7	4	2	3	5	5	12	3	10	2	16
Rickettsial disease	0	0	1	0	0	1	0	0	0	0	0	0	0
Rubella	1	3	2	1	1	3	1	3	1	3	3	1	2
Salmonellosis	93	72	92	62	74	81	88	116	97	142	126	87	114
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	6	8	19	10	10	12	9	11	8	14	7	6	10
Tetanus	0	1	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	38	31	41	29	27	35	26	34	26	19	42	40	45
Typhoid	3	5	0	3	6	2	1	2	5	3	0	2	1
VTEC/STEC infection	6	8	9	4	6	5	3	6	16	13	5	8	16
Yersiniosis	24	19	28	32	38	43	34	40	45	65	40	41	43

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 2004

Cases this month

Current rate¹

Disease	Cases for October 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	3			1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	0.7	1.9			0.6	0	0.6	0	0	2.1	0	0	0.5	0	0	0.8	0.5	4.4	0	0	1.0
Campylobacteriosis	29	121	113	92	114	22	39	12	15	19	10	23	39	47	7	14	7	89	22	52	38
	219.8	374.4	386.4	299.8	410.1	345.9	280.6	257.1	344.5	330.1	286.1	186.5	384.5	429.1	235.6	204.9	274.3	318.9	439.5	351.4	361.0
Cryptosporidiosis	7	8	3	5	30	9	3	2	4	5	8	19	1	6	3	8	5	27	11	13	8
	16.4	5.4	3.3	6.1	42.5	41.7	8.4	9.1	12.6	18.1	26.7	33.6	6.1	8.1	28.8	15.5	26.4	17.6	58.7	27.5	25.2
Dengue fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.2	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	6	7	4	70	0	1	0	4	0	0	20	3	6	1	1	0	5	0	1	1
	4.3	21.2	24.2	18.4	115.5	53.1	1.1	0	8.7	4.2	11.0	95.5	27.3	29.7	15.7	13.9	16.5	48.9	142.1	39.2	46.4
Giardiasis	2	19	12	9	5	4	5	4	1	3	1	6	4	11	1	5	1	6	0	1	1
	25.7	41.2	59.8	35.4	61.4	55.2	30.3	38.7	16.5	48.1	33.0	25.8	50.1	55.3	23.6	36.7	36.3	35.1	18.9	24.0	20.3
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
	0	0	0	0	0.3	0	0.6	0	0	0	0	0	0.8	0	0	0	0	0.2	0	0	0
Hepatitis A	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	0	2.6	2.2	3.7	0.6	2.1	0.6	2.3	1.0	1.4	0	1.3	0	2.0	0	1.6	0	0.7	0	0	0
Hepatitis B	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	1.4	1.1	1.9	1.9	2.1	1.1	2.3	1.0	1.4	0	0	0	0.4	0	1.6	0	0.9	0	0.6	0
Hepatitis C	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0.9	0.8	0.3	0	1.0	2.8	4.6	0	0.7	0	0.6	0.8	0.4	10.5	0.8	6.6	0.5	0	0.6	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	1	1	1	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1	0
	2.1	1.2	1.6	0.3	2.8	2.1	0.6	9.1	1.0	2.1	1.6	5.2	0.8	1.6	0	1.6	3.3	2.8	3.8	10.5	6.8
Legionellosis	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0
	2.1	2.6	3.3	2.7	1.6	0	2.2	2.3	1.0	0	1.6	1.3	3.0	3.7	5.2	0.8	3.3	0.7	3.8	3.5	0
Leprosy	0	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	0	2	0	0	0	0	1	0	2	0	0	0	0	0	1	0	0	0
	2.9	0.5	0.3	0.5	6.0	4.2	1.7	13.7	3.9	14.6	3.1	8.4	0	0	2.6	2.4	19.8	2.1	1.9	0.6	13.5
Listeriosis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	0	1.2	0.3	0.5	0.9	3.1	0.6	0	0	0	0	1.3	0.8	0.8	2.6	0.8	0	0.2	0	1.2	1.9
Malaria	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.7	0.9	1.6	0.8	1.6	0	0	0	0	1.4	3.1	0	0	2.0	0	0.8	0	0.9	0	1.2	1.9
Measles	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0
	0	0.7	0.5	0.5	0.3	0	0	0	0	2.1	1.6	5.8	2.3	0	2.6	4.1	16.5	0.9	0	0	2.9
Meningococcal disease ⁹	2	4	2	7	4	0	2	1	0	2	1	3	0	1	0	3	1	2	0	2	0
	17.1	10.2	10.3	17.0	8.8	15.6	9.5	22.8	5.8	8.4	9.4	9.7	4.6	6.9	2.6	2.4	3.3	7.0	1.9	10.0	6.8
Mumps	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	1.4	0.7	0.5	1.1	0.6	0	0.6	0	0	2.1	9.4	1.9	1.5	2.4	0	3.3	0	1.2	1.9	1.8	1.0
Paratyphoid	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.4	1.2	0.8	1.3	0.6	1.0	0.6	0	0	0.7	0	0	0	0.8	0	0.8	0	0.5	0	0	0
Pertussis	18	4	10	9	65	10	11	3	0	5	1	7	12	0	0	81	0	134	19	33	133
	51.4	19.3	22.0	16.0	112.0	56.3	52.8	52.3	13.6	27.9	3.1	30.3	25.0	13.8	2.6	280.9	19.8	83.4	130.7	142.3	430.6
Rheumatic fever	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0
	7.8	0.2	1.1	4.0	2.2	0	3.4	9.1	0	4.2	0	0	1.5	1.6	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.1	0.2	0.3	0	0	1.0	0.6	0	1.9	1.4	1.6	0	1.5	0.8	2.6	0.8	6.6	0.5	0	0.6	0
Salmonellosis	0	5	12	8	3	1	4	0	0	2	4	2	2	8	1	2	2	8	5	10	14
	26.4	21.9	29.9	31.4	35.6	27.1	30.3	11.4	29.1	44.6	31.4	13.5	21.2	28.1	26.2	29.4	19.8	31.4	62.5	38.1	55.2
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	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	0	2	2	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	1.4	3.5	5.7	8.5	2.5	1.0	1.7	0	0	0	4.7	0	9.9	3.3	7.9	0.8	3.3	1.2	0	2.3	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	7	10	4	4	0	1	0	0	1	0	2	1	2	0	2	0	2	1	1	0
	3.6	12.3	19.3	17.6	12.0	5.2	5.6	2.3	2.9	17.4	3.1	7.7	9.9	17.5	10.5	3.3	3.3	5.9	1.9	2.9	1.0
Typhoid	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	0	0.7	1.1	4.3	0.6	0	0.6	0	0	0.7	0	0	2.3	0.4	0	0.8	0	0	0	0	0
VTEC / STEC	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1
	0.7	1.2	1.1	1.3	8.5	3.1	6.7	4.6	6.8	1.4	0	0	0.8	0.4	0	2.4	0	1.9	0	2.9	2.9
Yersiniosis	0	4	1	0	1	1	1	1	0	0	2	0	2	5	0	0	1	4	0	1	0
	2.1	14.9	16.9	9.9	12.9	9.4	7.3	11.4	5.8	14.6	12.6	7.7	18.2	17.1	13.1	5.7	39.7	11.9	18.9	7.6	3.9

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