

MONTHLY SURVEILLANCE REPORT

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

- *Cryptosporidiosis*: a total of 45 cases of cryptosporidiosis was notified during May 2005 compared to 18 cases notified at the same time last year. Capital and Coast DHB reported the highest number of cases (10). For the previous 12 months, Lakes, Waikato and South Canterbury DHB had the highest current incidence rates of 53.1, 49.1, 45.5 per 100 000 population (51, 156 and 24 cases), respectively. Among the cases for whom this information was recorded, 61.5% (8/13) had consumed food from a food premise, 40.9% (9/22) had recreational water contact, 36.4% (8/22) had faecal contact, and 13.3% (2/15) had consumed untreated water, during the incubation period.
- *Haemophilus influenzae* type b disease (Hib): One laboratory-confirmed case of *Haemophilus influenzae* type b disease was notified in May, bringing the year to date total to three. The case was aged between 1-4 years, of Pacific Peoples ethnicity who had not been vaccinated.
- *Influenza*: during May (weeks 18 – 21), 424 consultations for influenza-like illness were reported from 78 general practices (on average) in 22 out of 24 health districts. The average weekly consultation rate for May was 34.6 per 100 000 patient population, compared to a rate of 19.1 per 100 000 patient population during the same month last year. Otago had the highest consultation rate (117.9 per 100 000), followed by Ruapehu (91.7 per 100 000). A total of 151 swabs were received for testing during May. Of these, 46 influenza viruses were identified, 40 were B/Hong Kong/330/2001-like and six were B/Shanghai/361/2002-like.

In addition, 63 influenza viruses were reported from the laboratory-based (non-sentinel) surveillance in May. Of these, 30 were B/Hong Kong/330/2001-like, 14 were influenza B (yet to be antigenically typed), 13 were B/Shanghai/361/2002-like, five were influenza A (yet to be sub-typed), and

one was A/Wellington/1/2004-like. New Zealand is currently experiencing an increased incidence of influenza B in children and young adults.

- *Malaria*: six cases of malaria were notified in May compared to three cases notified at the same time last year. Three cases were reported from Capital and Coast, and one each from Counties Manukau, Waikato, and Nelson-Marlborough DHBs. Overseas travel was recorded for five cases, and one unknown. The countries visited were: South Africa (2), Tanzania, Papua New Guinea, and India (1 each). Three cases were infected with *Plasmodium vivax*, two with *P. falciparum* and one with *P. malariae*.
- *Meningococcal disease*: based on earliest date available¹, 20 cases of meningococcal disease were notified during May 2005, of which 17 (85.0%) were laboratory-confirmed. In comparison, 21 cases were notified the previous month, and 26 cases were notified during May 2004. For the previous 12 months, Tairāwhiti DHB recorded the highest current rate of 25.0 per 100 000 population (11 cases). Counties Manukau DHB recorded the highest number of cases (43) with a current rate of 11.4 per 100 000 population. The rate of disease was highest amongst infants aged less than one year (62.2 per 100 000 population, 34 cases), followed by those in the 1-4 years age group (41.2 per 100 000 population, 89 cases).
- *Pertussis*: 171 cases of pertussis were notified in May 2005, of whom 28 (16.4%) were laboratory confirmed. Pertussis numbers have decreased from the peak in November 2004 with (613 cases) (Figure 1). Canterbury DHB had the highest number of cases (71). For the previous 12 months, Southland DHB had the highest incidence rate of 744.2 per 100 000 population (769 cases), compared to a national rate of 114.5 per 100 000 population. Hospitalisation data was recorded for 130 cases of whom 2 (1.5%) were hospitalised. The rate by age group for the previous 12 months was highest amongst infants aged less than one year (364.1 per 100 000 population), followed by the children in the 5-9 years age group (241.8), and children in the 10-14 years age group (226.7).
- *Salmonellosis*: 100 salmonellosis cases notified in May 2005, compared with 81 cases at the same time last year. Auckland and Nelson-Marlborough DHBs had the highest number of cases (12 cases each). For the previous 12 months, Wairarapa DHB had the highest incidence rate of 68.1 per 100 000 population (26 cases), compared to a national rate of 31.6 per 100 000 population. Hospitalisation data was recorded for 55 cases of whom 4 (7.3%) were hospitalised. The rate of disease was highest amongst children aged between 1-4 years (114.7 per 100 000 population, 248 cases). There was one outbreak in Auckland involving three cases thus far.
- *Shigellosis*: 19 shigellosis cases were notified in May 2005 compared to 12 notified cases during at the same time last year. The cases were from Auckland (6), Counties Manukau (3), Capital and Coast (3), Waitemata (2), Waikato (1), Lakes (1), Whanganui (1), Hutt (1), and Canterbury (1) DHBs. Two cases were hospitalised. The ESR Enteric Reference Laboratory received

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.

isolates from all the 19 cases. The species involved were: *Shigella sonnei* Biotype a (11), *S. sonnei* Biotype g (6), *S. flexneri* 3a (1), and *S. species* (1). Overseas travel was recorded for 12 of the cases, of which seven had been overseas during the incubation period. The countries visited were: Samoa (3), Fiji (2), India (1), and Nepal (1).

2. Deaths from notifiable diseases

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

Disease	District Health Board	Age group	Sex
Meningococcal disease	Counties Manukau	20-29 years	F

3. Trends in selected diseases to May 2005

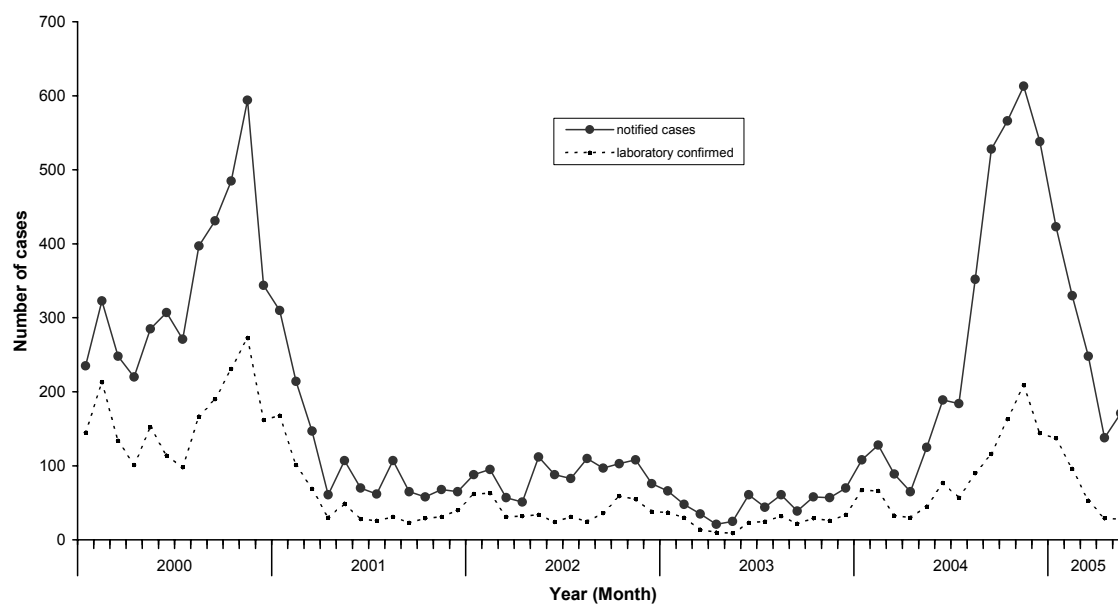


Figure 1: Pertussis notifications and laboratory confirmed cases by month, January 2000 to May 2005

4. Data Tables

Disease incidence and rates

Disease ¹	Current year - 2005 ²			Previous year - 2004		
	May 2005 cases	Cumulative total since 1 January	Current rate ³	May 2004 cases	Cumulative total since 1 January	Previous rate ³
AIDS	12	33	1.6	0	12	0.9
Campylobacteriosis	747	4880	320.3	670	5125	379.8
Cryptosporidiosis	45	220	20.0	18	85	18.4
Dengue fever	0	3	0.1	0	6	0.4
Gastroenteritis ⁴	51	276	28.1	113	587	32.6
Giardiasis	118	544	36.7	121	687	43.0
<i>H. influenzae</i> type b disease	1	3	0.2	0	0	0.2
Hepatitis A	0	18	1.0	6	30	1.8
Hepatitis B (acute) ⁵	5	21	1.1	4	18	1.4
Hepatitis C (acute) ⁵	3	10	0.5	3	15	1.1
Hydatid disease	0	0	0	0	0	0
Influenza ⁶	45	70	25.3	2	11	28.1
Lead absorption	5	31	2.2	9	42	2.6
Legionellosis	10	38	1.8	8	34	2.3
Leprosy	0	1	0.1	0	1	0.1
Leptospirosis	4	35	2.4	10	50	3.1
Listeriosis	0	8	0.5	1	14	0.7
Malaria	6	23	1.0	3	18	1.2
Measles	3	6	0.6	2	16	1.7
Meningococcal disease ⁷	17	88	8.6	28	110	12.8
Mumps	4	20	1.4	1	13	1.3
Paratyphoid fever	2	11	0.7	2	14	0.6
Pertussis	171	1310	114.5	125	515	24.2
Rheumatic fever	5	29	2.0	3	28	3.3
Rickettsial disease	0	0	0	1	1	0.1
Rubella	3	5	0.5	3	11	0.8
Salmonellosis	100	620	31.6	81	519	32.3
SARS	0	0	0	0	0	0
Shigellosis	19	55	3.8	12	54	2.8
Tetanus	0	1	0.1	0	0	0
Tuberculosis	32	152	10.3	35	139	10.8
Typhoid fever	2	14	0.9	2	13	0.6
VTEC / STEC infection	6	53	2.6	5	43	2.4
Yersiniosis	33	165	9.6	43	227	13.0

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

² These data are provisional

³ Rate is based on the cumulative total for the current year (12 months up to and including May 2005) or the previous year (12 months up to and including May 2004), expressed as cases per 100 000

⁴ Cases of gastroenteritis from a common source or foodborne intoxication. Eg: staphylococcal intoxication

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 May 2005 and preceding 12 months

Disease	May 2005	Apr 2005	Mar 2005	Feb 2005	Jan 2005	Dec 2004	Nov 2004	Oct 2004	Sep 2004	Aug 2004	Jul 2004	Jun 2004	May 2004
AIDS	12	7	3	6	5	6	3	5	4	3	4	2	0
Campylobacteriosis	747	726	767	1288	1352	1389	1278	928	916	909	827	842	670
Cryptosporidiosis	45	52	66	44	13	20	87	185	160	50	12	13	18
Dengue fever	0	0	0	2	1	0	0	0	0	0	0	2	0
Gastroenteritis ²	51	36	70	42	77	83	129	134	105	91	87	147	113
Giardiasis	118	99	132	116	79	111	141	104	102	106	134	129	121
Haemophilus influenzae type b	1	1	1	0	0	1	0	0	1	0	1	1	0
Hepatitis A	0	2	5	7	4	3	1	2	2	4	5	2	6
Hepatitis B (acute) ³	5	8	1	2	5	2	2	1	2	4	7	2	4
Hepatitis C (acute) ³	3	0	2	2	3	1	1	2	1	1	3	0	3
Hydatid disease	0	0	0	0	0	0	1	0	0	0	0	0	0
Influenza ⁴	45	15	5	4	1	0	21	153	626	57	13	6	2
Lead absorption	5	7	11	5	3	7	9	7	7	8	8	7	9
Legionellosis	10	6	6	8	8	2	7	4	2	5	4	4	8
Leprosy	0	0	0	0	1	0	0	1	0	0	1	0	0
Leptospirosis	4	9	8	7	7	6	5	6	10	9	7	10	10
Listeriosis	0	0	2	3	3	2	2	2	2	2	1	1	1
Malaria	6	5	3	5	4	2	3	1	2	3	3	1	3
Measles	3	0	1	2	0	8	2	3	1	1	1	1	2
Meningococcal disease ⁵	17	20	16	15	20	18	27	36	54	38	35	25	28
Mumps	4	5	5	3	3	3	7	3	5	7	3	4	1
Paratyphoid fever	2	1	2	3	3	0	2	2	5	0	3	2	2
Pertussis	171	138	248	330	423	538	613	566	528	352	184	189	125
Rheumatic Fever	5	3	9	10	2	3	6	9	3	11	4	11	3
Rickettsial disease	0	0	0	0	0	0	0	0	0	1	0	0	1
Rubella	3	0	1	1	0	3	2	1	3	2	1	1	3
Salmonellosis	100	150	146	140	84	79	94	92	71	91	61	73	81
SARS	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	19	7	10	11	8	11	22	6	8	19	10	10	12
Tetanus	0	0	0	1	0	0	0	0	1	0	0	0	0
Tuberculosis	32	37	35	24	24	42	32	38	29	38	29	25	35
Typhoid fever	2	1	4	2	5	0	1	3	5	0	3	6	2
VTEC/STEC infection	6	24	11	8	4	6	7	6	8	9	4	6	5
Yersiniosis	33	30	25	37	40	27	26	25	19	28	31	37	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 - May 2005

Cases this month

Current rate¹

Disease	Cases for May 2005, 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	10			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	1.4	3.6			1.3	0	1.1	0	0	1.4	0	0	0.8	0	0	0.8	0.8	4.4	0	0	1.0	
Campylobacteriosis	9	101	85	57	51	9	28	6	8	41	6	24	28	62	5	24	2	82	33	54	32	
	229.8	377.0	367.4	288.9	341.8	223.0	225.6	225.3	260.1	283.5	190.2	176.8	296.6	335.5	198.9	246.6	244.5	326.6	666.9	443.4	530.3	
Cryptosporidiosis	1	2	5	2	6	1	0	0	0	1	1	1	3	10	2	1	0	9	0	0	0	
	18.6	6.5	6.5	6.4	49.1	53.1	7.9	18.2	13.6	18.1	26.7	36.8	9.1	22.4	41.9	17.1	23.1	22.7	45.5	26.4	24.2	
Dengue fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0.7	0	0	0	0.9	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	
Gastroenteritis	4	4	4	8	0	0	0	0	1	1	2	0	2	5	1	3	1	15	0	0	0	
	2.9	20.9	23.9	16.0	79.6	50.0	1.7	0	6.8	5.6	18.9	70.3	19.0	30.9	31.4	16.3	9.9	41.2	11.4	18.2	20.3	
Giardiasis	1	19	29	11	11	2	7	4	0	3	1	1	3	5	1	1	0	13	1	4	1	
	25.0	41.7	59.3	31.7	48.8	44.8	35.9	66.0	10.7	37.6	31.4	24.5	30.3	42.7	39.3	31.8	23.1	32.1	20.8	19.3	18.4	
H. influenzae type b disease	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	0.8	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	1.6	1.4	1.6	0.3	2.1	0.6	2.3	2.9	0.7	0	0.6	0	0	0	0	3.3	1.2	0	1.2	1.0	
Hepatitis B	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	
	1.4	2.1	1.1	1.6	1.6	0	0.6	4.6	1.0	0	0	0	0	0.8	0	1.6	0	0.7	1.9	1.8	0	
Hepatitis C	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	
	0.7	0	0.5	0.3	0	1.0	0	2.3	0	0	0	0	1.5	0	0	1.6	6.6	1.6	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	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lead absorption	1	0	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	
	0.7	1.9	1.6	0.5	3.5	1.0	0.6	9.1	3.9	0.7	6.3	2.6	2.3	2.4	2.6	0.8	3.3	1.9	5.7	7.0	1.9	
Legionellosis	0	4	0	2	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	
	1.4	4.2	1.6	1.3	1.3	0	2.2	0	1.9	0.7	1.6	2.6	4.6	1.2	2.6	0.8	0	1.4	1.9	0.6	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	0.3	0	0	0	0	0	0	0	0	0.8	0.4	0	0	0	0	0	0	0	
Leptospirosis	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
	1.4	0.2	0.3	0.3	3.8	1.0	3.9	6.8	1.0	11.8	4.7	5.8	0	0.8	5.2	4.1	9.9	0.9	1.9	1.8	9.7	
Listeriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	1.1	1.1	0.3	2.1	0.6	0	0	0.7	0	0.6	0.8	0.8	2.6	1.6	0	0	0	0	0	
Malaria	0	0	0	1	1	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	
	0	0.9	0.5	2.7	1.6	0	0	0	0	0.7	0	0	0.8	2.4	0	0.8	0	1.4	0	0	1.9	
Measles	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0.9	0	0.3	0	1.0	1.7	0	1.0	0.7	1.6	1.3	0.8	0	2.6	0.8	9.9	0.7	0	0	0	
Meningococcal disease ⁵	0	1	2	2	5	2	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	
	12.1	10.0	7.6	10.9	9.4	12.5	6.7	25.0	5.8	11.8	7.9	11.6	2.3	8.5	2.6	4.1	9.9	6.3	3.8	7.6	5.8	
Mumps	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2.9	0.7	1.1	1.3	0.9	1.0	1.1	2.3	1.0	0.7	6.3	0.6	0.8	2.8	7.9	2.4	3.3	0.7	3.8	0.6	1.0	
Paratyphoid fever	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	
	0.7	0.2	0.5	1.6	0.6	2.1	0.6	0	0	1.4	0	0	1.5	0.4	2.6	0.8	0	0.7	0	0	0	
Pertussis	0	7	2	3	19	9	10	0	0	0	0	2	4	3	0	4	5	71	15	3	14	
	37.8	22.6	23.4	23.4	185.4	109.4	78.0	47.8	19.4	18.8	3.1	35.5	49.3	39.9	15.7	455.6	102.4	245.9	244.4	171.0	744.2	
Rheumatic fever	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	
	9.3	0.5	0.8	4.0	2.8	1.0	5.6	4.6	0	3.5	0	0	3.0	4.5	0	0.8	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	
Rubella	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
	0.7	0.5	0.3	0.3	0	0	0.6	0	2.9	1.4	0	0	0.8	0.4	0	0.8	6.6	0.5	0	0	0	
Salmonellosis	1	10	12	7	11	1	6	2	0	1	4	4	3	6	2	12	0	11	0	5	2	
	23.5	27.0	28.8	24.2	31.8	16.7	29.7	27.3	29.1	33.4	44.0	16.8	28.1	28.1	68.1	43.3	23.1	36.3	43.6	47.4	67.7	
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	6	3	1	1	0	0	0	0	1	0	1	3	0	0	0	1	0	0	0	
	1.4	3.7	6.8	4.3	2.2	1.0	1.7	0	0	0	3.1	0	10.6	4.9	5.2	1.6	0	8.0	0	2.3	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	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tuberculosis	1	4	9	4	3	0	0	0	0	0	1	0	2	6	0	0	0	2	0	0	0	
	7.1	12.3	21.8	16.8	8.8	2.1	2.8	2.3	3.9	11.8	3.1	8.4	6.8	20.3	10.5	4.1	9.9	5.6	3.8	4.1	2.9	
Typhoid fever	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	0	0.2	1.6	5.1	0	1.0	0	0	0	0	0	0	2.3	0	0	0.8	0	0.2	0	0	0	
VTEC / STEC	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	1	1	0	1	0	0	
	2.1	0.7	1.9	1.3	7.6	2.1	7.9	4.6	1.9	3.5	1.6	0	1.5	1.6	0	3.3	3.3	0.9	3.8	5.3	4.8	
Yersiniosis	0	1	1	1	2	0	1	0	0	2	5	0	0	7	0	1	1	2	0	7	2	
	5.0	9.8	15.5	7.2	10.7	4.2	4.5	13.7	5.8	10.4	15.7	4.5	7.6	12.2	2.6	4.1	62.8	9.6	11.4	10.0	5.8	

1 Current rate is based on the cumulative total for the 12 months up to and including May 2005 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.