

MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff as at 11 January 2011. Changes made to EpiSurv data after this date will not be reflected in this report. The results presented may be updated and should be regarded as provisional.

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1. Key notifiable disease trends

- *Campylobacteriosis*: 674 cases of campylobacteriosis were notified in December 2010 compared to 890 cases notified in the same month of the previous year. Five hundred and eighty-seven (87.1%) cases were laboratory-confirmed. For the 12-month period ending 31 December 2010, the highest cumulative incidence were reported in Taranaki (243.9 per 100 000 population, 264 cases), Hutt Valley (240.4 per 100 000, 343 cases), and South Canterbury (221.4 per 100 000, 123 cases) DHBs compared to a national rate of 170.2 per 100 000.
- *Cryptosporidiosis*: 38 cases of cryptosporidiosis were notified in December 2010 compared to 48 cases notified during the same month of the previous year. The highest number of cases was reported in Canterbury DHB (6 cases), followed by South Canterbury (5 cases) and Lakes (4 cases) DHBs. Cases were distributed across age groups under 70 years with the highest number of cases in the 1-4 years age group (8 cases), followed by the 5-9 years and 20-29 years (6 cases each) age groups. No cases were hospitalised.
- *Haemophilus influenzae* type b: Three cases of *Haemophilus influenzae* type b were notified in December 2010 (1 confirmed and 2 under investigation) compared to one case in the same month of the previous year. The confirmed case was a female in the less than 1 year age group from Hawke's Bay DHB who had been immunised. The remaining cases were a male from Lakes DHB who was aged less than 1 month and therefore not eligible for immunisation, and a female from Bay of Plenty DHB that has been de-notified after further investigation.
- *Hydatid disease*: Two laboratory-confirmed cases of hydatid disease were notified in December 2010. One case was a female in South Canterbury DHB and the other was a male in Southland DHB. Both cases were in the 70+ years age group and have a history of past infection.
- *Lead absorption*: 20 cases of lead absorption were notified in December 2010 compared to 13 in the same month of the previous year. There were 200 cases notified in 2010 compared to 272 cases in 2009. The highest numbers of cases were reported in Auckland and Otago DHBs (3 cases each). The cases were aged between 15-19 years and 60-69 years with the highest number of cases in the 40-49 years age group (7 cases). Occupation was recorded for 11 cases: painter/decorator (5 cases), boilermaker, chemical plant operator, radiator repair person, manager, sickness beneficiary, and retired (1 case each). Of these, 4 reported occupational exposure to lead. Of the remaining 7 cases, one reported exposure to lead through hobbies (small bore rifle shooting), one was exposed to ayurvedic medicine from India, and one was exposed to rock chemical at a gold mine.

- *Legionellosis*: 44 cases of legionellosis were notified in December 2010 (18 confirmed, 7 probable and 19 under investigation) compared to nine in the same month of the previous year. The following section is based on confirmed and probable cases. Seventeen were from Canterbury DHB, and the following DHBs had one case each: Waitemata, Auckland, Counties Manukau, Waikato, Capital and Coast, West Coast, Otago, and Southland. Nine cases occurred in the 70+ and over age group, six each in the 50-59 and 60-69 years age groups, and four in the 30-39 age group. Of the 22 cases (50.0%) where the hospitalisation information was recorded, 21 cases (95.5%) were hospitalised. The *Legionella* species were identified in eight cases: *Legionella jordanis* (2 cases), *L. longbeachae* serogroup 1 (2 cases), *L. longbeachae* serogroup 1 or 2, *L. longbeachae* serogroup 2, *L. pneumophila* serogroup 1 and *L. pneumophila* serogroup 4 (1 case each).
- *Leprosy*: One confirmed case of leprosy was notified in December 2010. The acid-fast status was recorded as multibacillary. The case had been in Samoa during the incubation period.
- *Meningococcal disease*: Based on the earliest date available¹, four cases of meningococcal disease were notified during December 2010, three (75.0%) of which were laboratory-confirmed. In comparison, nine cases (8 laboratory-confirmed) were notified in the previous month and nine (eight laboratory-confirmed) during the same month last year. For the 12-month period ending 31 December 2010, the highest incidence rate was reported in Hutt Valley DHB (5.6 per 100 000, 8 cases), Northland (4.5 per 100 000 population, 7 cases), Hawke's Bay (4.5 per 100 000, 7 cases) and Southland (4.5 per 100 000, 5 cases) DHBs. The highest age-specific rate was in infants aged less than one year (42.8 per 100 000 population, 27 cases), followed by those in the 1-4 years age group (9.5 per 100 000, 23 cases).
- *Rheumatic fever*: 14 cases of rheumatic fever (all initial attacks) were notified in December 2010 compared to 18 notified in the previous month and seven cases notified in the same month of the previous year. The cases were distributed by DHB as follows: Counties Manukau (6 cases), Capital and Coast (3 cases), Northland, Auckland, MidCentral, Hutt Valley, and Canterbury (1 case each). All 14 cases were hospitalised. Eleven (78.6%) cases were aged less than 15 years; five cases in the 5-9 years and six cases in the 6-14 years age groups. Ethnicity was recorded for all cases: Pacific Peoples (8 cases), Maori (5 cases), and European (1 case). Six cases (42.9%) were recorded as of Samoan origin. The Jones criteria was recorded in nine cases, of which eight (88.9%) had a laboratory-confirmed diagnosis for streptococcal infection. Four of the cases recorded an onset date in November 2010.
- *Salmonellosis*: 84 cases of salmonellosis were notified in December 2010 compared to 101 notified in the previous month and 88 cases the same month of the previous year. There were 67 (79.8%) laboratory-confirmed cases. Canterbury and Otago DHBs reported the highest number of cases (12 each), followed by Waitemata (9 cases), Auckland (7 cases) and Hawke's Bay (7 cases) DHBs. Salmonellosis occurred in all age groups, with the highest numbers of cases in the 20-29 years (14 cases), 1-4 years (11 cases), 30-39 years (10 cases) age groups. Of the 46 cases with hospitalisation information, eight were hospitalised. The serotype involved was identified in 50 of the cases, and most prevalent serotypes were *Salmonella* Typhimurium phage type 160 (9 cases), *S. Infantis* (4 cases), *S. Enteritidis* phage type 9a (3 cases), *S. Typhimurium* phage type 101 (3 cases), and *S. Weltevreden* (3 cases).
- *Tetanus*: One confirmed case of tetanus was reported in December 2010 by Otago DHB. A retired male, of European ethnicity in the 70+ age group, was hospitalised. The probable source of infection was a forearm graze contracted whilst gardening.
- *Typhoid fever*: Two laboratory-confirmed cases of typhoid fever were notified in December 2010. Both cases were males in the 10-19 years age group who had travelled to India during the incubation period.

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.

2. Outbreaks

Completed outbreak reports: 19 outbreak reports were entered into EpiSurv and completed during December 2010 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during December 2010

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordatella pertussis</i>	Waikato	2	7
<i>Campylobacter</i>	Waikato, Wellington	2	4
Chemical poisoning from the environment ¹	Waikato	1	2
<i>Clostridium difficile</i>	Taranaki	1	2
<i>Cryptosporidium</i>	Waikato	1	2
Gastroenteritis	Hawke's Bay, Wellington	2	16
Norovirus	Waikato, Hawke's Bay, Wanganui, Manawatu, Hutt, Wellington	8	189
Rotavirus	Canterbury	1	26
<i>Salmonella</i> ²	Waikato	1	3
Total		19	251

¹ Suspected pathogen was blue green algae for chemical poisoning from the environment outbreak

² *Salmonella* outbreak with overseas transmission (Tonga)

Interim outbreak reports: 25 interim outbreaks have been reported in December 2010 (Table 2). The status of the outbreak and cases involved are subject to change, as more data becomes available.

Table 2: Summary of interim outbreaks reported to ESR during December 2010

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Manawatu, Otago	2	7
Gastroenteritis	Auckland, Waikato, Rotorua, Otago	14	87
<i>Giardia</i> ³	Waikato	1	3
Histamine (scombrotoxic) fish poisoning	Auckland	1	2
<i>Mycobacterium tuberculosis</i>	Hutt	1	3
Norovirus	Northland, Auckland, Wellington	5	55
Rotavirus	Auckland	1	8
Total		25	165

³ Interim outbreaks with no cases entered to date

3. Deaths from notifiable diseases

No deaths were reported in December 2010.

4. Trends in selected diseases to December 2010

Figure 1: Campylobacteriosis notifications by month, January 2005 – December 2010

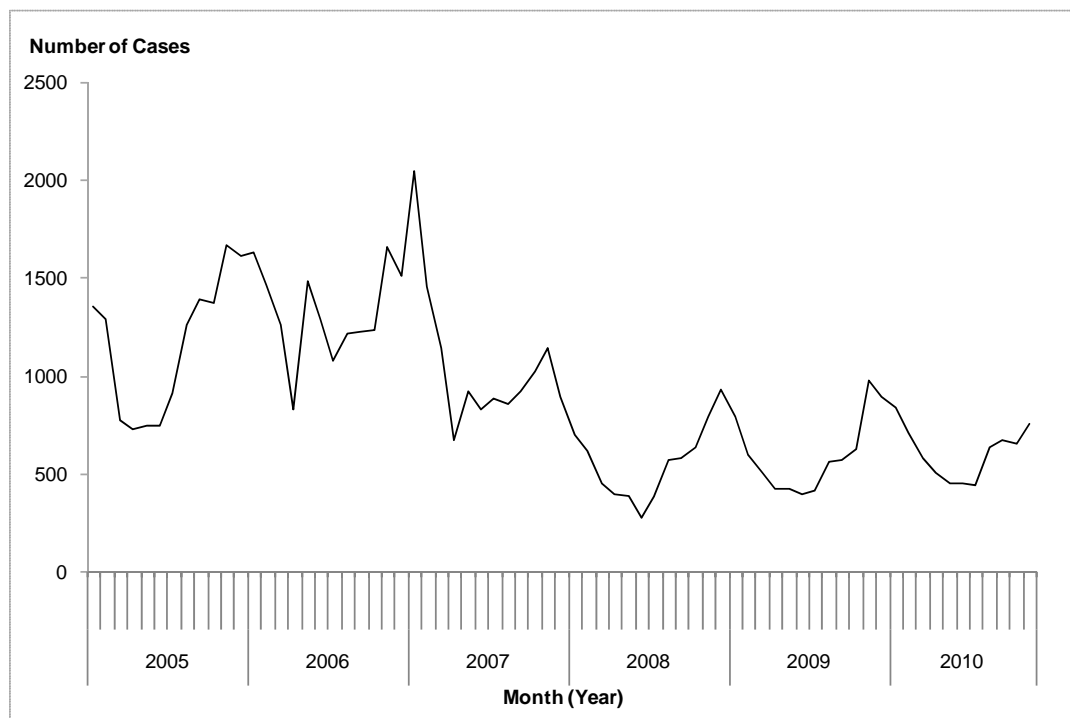
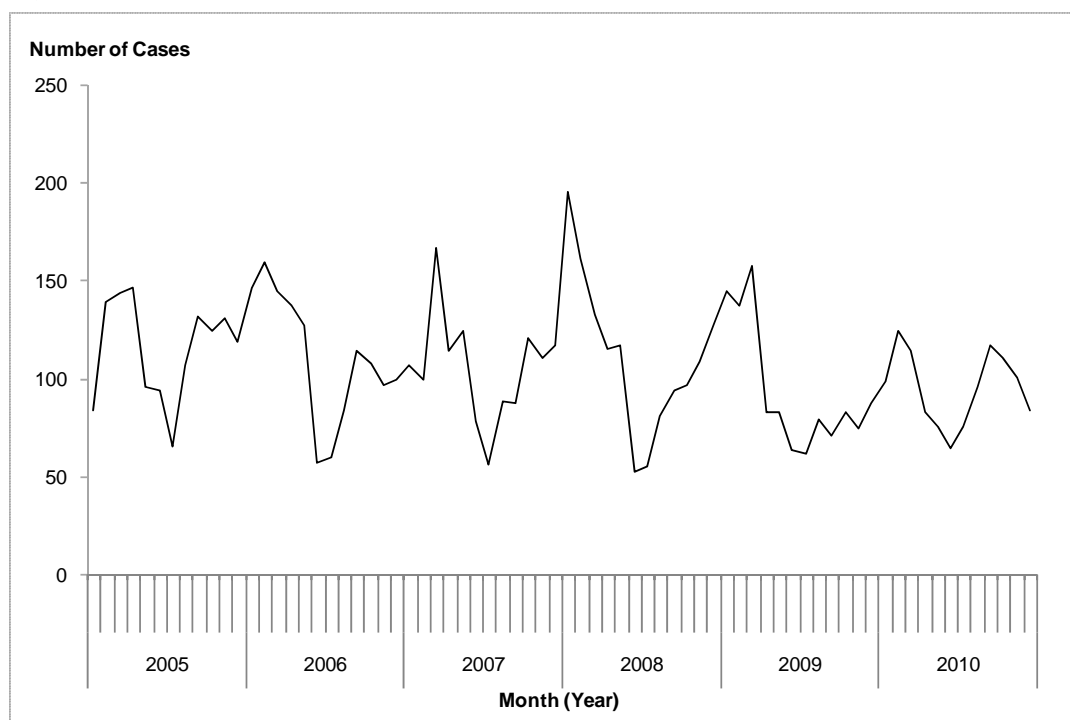


Figure 2: Salmonellosis notifications by month, January 2005 – December 2010



5. Data tables

National Notifiable Disease Surveillance Data December 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	December 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	December 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	674	7345	170.2	890	7177	166.3
Cryptosporidiosis	38	954	22.1	48	854	19.8
Dengue fever	4	51	1.2	4	139	3.2
Gastroenteritis ³	39	497	11.5	44	712	16.5
Giardiasis	126	1985	46.0	128	1639	38.0
Haemophilus influenzae type b	3	10	0.2	1	10	0.2
Hazardous substances injury	0	8	0.2	0	11	0.3
Hepatitis A	3	48	1.1	2	44	1.0
Hepatitis B ⁴	9	59	1.4	3	55	1.3
Hepatitis C ⁴	2	19	0.4	2	32	0.7
Invasive pneumococcal disease ⁵	27	535	12.4	38	697	16.1
Lead absorption	20	200	4.6	13	272	6.3
Legionellosis	44	191	4.4	9	74	1.7
Leptospirosis	11	91	2.1	13	69	1.6
Listeriosis	0	23	0.5	1	28	0.6
Malaria	1	45	1.0	2	50	1.2
Measles	1	48	1.1	6	248	5.7
Meningococcal disease ⁶	6	97	2.2	8	133	3.1
Mumps	2	41	0.9	7	63	1.5
Non seasonal influenza A (H1N1) ⁷	1	1827	42.3	14	3670	85.0
Paratyphoid fever	0	19	0.4	2	25	0.6
Pertussis	73	874	20.3	141	1398	32.4
Rheumatic fever	14	168	3.9	7	140	3.2
Rickettsial disease	0	16	0.4	0	5	0.1
Rubella	2	5	0.1	0	4	0.1
Salmonellosis	84	1146	26.6	88	1128	26.1
Shigellosis	3	105	2.4	4	119	2.8
Tuberculosis disease	35	319	7.4	33	299	6.9
Typhoid fever	2	31	0.7	1	34	0.8
VTEC/STEC infection	6	142	3.3	7	143	3.3
Yersiniosis	27	407	9.4	41	430	10.0

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including December 2010) or the previous year (12 months up to and including December 2009), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

⁴ Only acute cases of this disease are currently notifiable

⁵ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁶ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

⁷ Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Other notifiable infectious disease reported in December: Chemical poisoning from the environment (2) , Hydatid disease (2) , Leprosy (1) , Tetanus (1)

Notifiable Disease Surveillance Data by District Health Board December 2010

		Cases ¹ and current rate ² for December 2010 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	20	86	44	49	61	15	32	1	16	32	2	18	26	46	6	34	4	106	9	45	22
	Rate	117.5	159.5	147.5	110.9	188.9	179.8	155.0	80.1	243.9	206.0	155.2	149.5	240.4	205.5	182.6	171.8	202.5	185.3	221.4	200.6	215.5
Cryptosporidiosis	Cases	1	2	3	2	2	4	1	0	0	2	0	0	0	3	2	1	0	6	5	3	1
	Rate	26.3	15.3	14.4	8.1	39.2	13.8	6.7	10.8	27.7	29.2	9.5	11.5	6.3	12.1	17.5	26.3	30.7	45.8	84.6	22.8	34.0
Dengue fever	Cases	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	Rate	1.3	1.1	2.7	0.6	2.5	0.0	1.4	2.2	0.9	0.0	1.6	0.0	0.0	2.1	0.0	0.0	0.0	0.6	0.0	1.1	1.8
Gastroenteritis	Cases	0	4	0	2	0	0	2	0	0	0	5	6	7	8	1	0	0	4	0	0	0
	Rate	2.6	11.2	14.2	5.6	8.3	2.9	5.3	0.0	12.0	2.6	25.3	27.7	37.8	31.2	7.5	5.1	21.5	9.6	0.0	5.8	0.9
Giardiasis	Cases	6	16	14	7	18	3	5	1	1	10	1	1	5	11	0	1	0	18	1	6	1
	Rate	26.3	47.9	68.5	42.6	50.0	43.2	34.7	34.6	33.3	68.2	36.4	17.5	35.7	50.7	42.5	35.1	30.7	56.4	36.0	32.9	35.8
Haemophilus influenzae type b	Cases	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.0	0.4	0.6	1.0	0.5	0.0	0.0	0.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.8	0.5	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	0.0	0.0
Hepatitis A	Cases	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0
	Rate	1.3	0.4	1.6	1.9	1.1	1.0	0.5	4.3	0.0	1.3	1.6	1.8	0.7	0.7	0.0	0.0	0.0	1.6	0.0	1.6	0.0
Hepatitis B	Cases	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	1	0	2	0
	Rate	0.6	0.4	1.8	2.1	0.3	3.9	3.4	10.8	0.0	1.9	1.6	0.6	1.4	0.7	2.5	0.7	0.0	1.2	0.0	2.1	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.0	0.2	0.2	0.4	0.0	0.0	1.0	0.0	3.7	0.0	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.6	0.0	0.5	0.0
Invasive pneumococcal disease ⁴	Cases	1	3	3	7	1	0	2	0	1	3	1	1	1	0	0	0	0	1	1	1	0
	Rate	10.9	11.7	10.1	21.8	13.1	17.7	15.9	2.2	9.2	15.6	14.3	10.8	14.7	8.0	12.5	2.9	3.1	8.4	5.4	15.9	15.2
Lead absorption	Cases	0	1	3	1	1	0	2	0	2	1	0	0	2	2	0	0	0	1	1	3	0
	Rate	3.9	3.0	4.1	2.5	4.7	0.0	2.4	4.3	3.7	5.2	12.7	5.4	15.4	3.1	7.5	3.7	0.0	4.8	12.6	12.7	0.9
Legionellosis	Cases	0	7	3	2	1	0	2	0	0	0	0	0	0	1	0	0	1	22	0	3	2
	Rate	9.0	4.9	4.5	3.3	1.7	1.0	3.4	2.2	1.8	2.6	0.0	1.8	3.5	1.0	0.0	0.7	9.2	12.4	3.6	3.7	7.2
Leptospirosis	Cases	0	0	0	0	0	0	0	2	1	2	1	0	0	0	1	1	0	2	0	0	1
	Rate	1.3	0.2	0.0	0.2	4.2	1.0	1.4	8.7	2.8	7.1	12.7	7.8	0.0	0.0	10.0	2.9	18.4	2.0	0.0	0.5	3.6
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.7	0.8	0.3	0.0	1.0	2.2	0.9	0.0	1.6	1.8	0.7	0.3	0.0	0.0	3.1	0.0	0.0	1.1	0.0
Malaria	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	2.7	1.7	0.3	0.0	1.4	0.0	0.9	0.6	0.0	0.0	0.0	0.7	0.0	2.2	0.0	1.4	0.0	0.5	0.9
Measles	Cases	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	19.9	0.4	1.1	0.2	0.0	1.0	0.5	2.2	0.0	0.6	0.0	0.6	0.0	0.7	2.5	0.0	3.1	0.0	0.0	0.0	0.0
Meningococcal disease ⁵	Cases	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0
	Rate	4.5	1.7	1.6	3.3	1.9	2.9	2.4	2.2	0.9	4.5	0.0	3.0	5.6	1.7	0.0	0.7	3.1	1.4	0.0	1.1	4.5
Mumps	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	1.9	1.3	0.2	0.8	0.6	0.0	0.0	0.0	3.7	0.0	0.0	0.0	2.1	1.4	5.0	1.5	0.0	1.2	0.0	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	39.8	22.5	32.2	38.4	71.7	121.8	92.4	30.3	46.2	35.1	52.3	36.2	14.7	37.1	30.0	22.7	52.2	54.4	77.4	10.6	8.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	1.4	0.4	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	3.1	0.2	0.0	0.0	0.0
Pertussis	Cases	0	5	16	2	9	0	6	0	2	4	0	11	0	1	0	0	2	9	0	0	6
	Rate	3.2	10.8	19.1	14.9	25.8	4.9	20.2	17.3	31.4	14.9	7.9	24.1	24.5	34.4	12.5	19.7	43.0	33.1	25.2	7.4	27.7
Rheumatic fever	Cases	1	0	1	6	0	0	0	0	0	0	0	1	1	3	0	0	0	1	0	0	0
	Rate	10.3	2.1	2.0	11.8	5.8	2.0	3.4	15.2	2.8	5.8	3.2	2.4	4.9	3.1	5.0	0.0	0.0	0.4	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.5	0.4	2.2	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
Rubella	Cases	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis	Cases	3	9	7	5	6	1	5	0	2	7	1	0	2	2	0	4	1	12	4	12	1
	Rate	23.8	21.0	22.3	15.2	25.0	18.7	23.6	28.1	25.9	27.3	14.3	18.7	21.7	18.0	22.5	37.3	27.6	32.3	66.6	76.9	43.8
Shigellosis	Cases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	4.5	3.6	3.2	3.3	3.1	0.0	2.9	0.0	0.0	3.2	0.0	0.0	1.4	1.0	0.0	1.5	0.0	2.8	3.6	1.6	0.9
Tuberculosis disease	Cases	0	5	9	6	5	1	0	0	0	1	0	1	1	3	0	0	1	2	0	0	0
	Rate	3.9	6.8	14.4	12.9	6.1	3.9	3.4	6.5	1.8	7.1	3.2	5.4	9.1	9.7	2.5	5.8	3.1	5.4	5.4	3.7	2.7
Typhoid fever	Cases	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	2.0	1.5	0.6	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	0	0	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0
	Rate	2.6	2.8	1.8	1.7	6.7	7.9	6.3	17.3	3.7	5.2	3.2	0.6	0.0	0.7	5.0	0.7	3.1	5.0	0.0	2.7	2.7
Yersiniosis	Cases	1	0	4	3	3	0	2	0	1	1	0	2	1	1	0	1	0	7	0	0	0
	Rate	3.2	10.0	9.2	6.0	9.2	9.8	8.2	10.8	19.4	11.7	6.3	6.6	16.1	19.4	7.5	6.6	15.3	9.2	16.2	1.6	5.4

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including December 2010 expressed as cases per 100 000

³ Further data are available from the local Medical Officer of Health

⁴ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

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 of this report

⁶ Non–seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Notifiable Disease Surveillance Data by District Health Board December 2010

		Cases ¹ and current rate ² for December 2010 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	20	86	44	49	61	15	32	1	16	32	2	18	26	46	6	34	4	106	9	45	22
	Rate	117.5	159.5	147.5	110.9	188.9	179.8	155.0	80.1	243.9	206.0	155.2	149.5	240.4	205.5	182.6	171.8	202.5	185.3	221.4	200.6	215.5
Cryptosporidiosis	Cases	1	2	3	2	2	4	1	0	0	2	0	0	0	3	2	1	0	6	5	3	1
	Rate	26.3	15.3	14.4	8.1	39.2	13.8	6.7	10.8	27.7	29.2	9.5	11.5	6.3	12.1	17.5	26.3	30.7	45.8	84.6	22.8	34.0
Dengue fever	Cases	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	Rate	1.3	1.1	2.7	0.6	2.5	0.0	1.4	2.2	0.9	0.0	1.6	0.0	0.0	2.1	0.0	0.0	0.0	0.6	0.0	1.1	1.8
Gastroenteritis	Cases	0	4	0	2	0	0	2	0	0	0	5	6	7	8	1	0	0	4	0	0	0
	Rate	2.6	11.2	14.2	5.6	8.3	2.9	5.3	0.0	12.0	2.6	25.3	27.7	37.8	31.2	7.5	5.1	21.5	9.6	0.0	5.8	0.9
Giardiasis	Cases	6	16	14	7	18	3	5	1	1	10	1	1	5	11	0	1	0	18	1	6	1
	Rate	26.3	47.9	68.5	42.6	50.0	43.2	34.7	34.6	33.3	68.2	36.4	17.5	35.7	50.7	42.5	35.1	30.7	56.4	36.0	32.9	35.8
Haemophilus influenzae type b	Cases	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.0	0.4	0.6	1.0	0.5	0.0	0.0	0.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.8	0.5	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	0.0	0.0
Hepatitis A	Cases	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0
	Rate	1.3	0.4	1.6	1.9	1.1	1.0	0.5	4.3	0.0	1.3	1.6	1.8	0.7	0.7	0.0	0.0	0.0	1.6	0.0	1.6	0.0
Hepatitis B	Cases	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	1	0	2	0
	Rate	0.6	0.4	1.8	2.1	0.3	3.9	3.4	10.8	0.0	1.9	1.6	0.6	1.4	0.7	2.5	0.7	0.0	1.2	0.0	2.1	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.0	0.2	0.2	0.4	0.0	0.0	1.0	0.0	3.7	0.0	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.6	0.0	0.5	0.0
Invasive pneumococcal disease ⁴	Cases	1	3	3	7	1	0	2	0	1	3	1	1	1	0	0	0	0	1	1	1	0
	Rate	10.9	11.7	10.1	21.8	13.1	17.7	15.9	2.2	9.2	15.6	14.3	10.8	14.7	8.0	12.5	2.9	3.1	8.4	5.4	15.9	15.2
Lead absorption	Cases	0	1	3	1	1	0	2	0	2	1	0	0	2	2	0	0	0	1	1	3	0
	Rate	3.9	3.0	4.1	2.5	4.7	0.0	2.4	4.3	3.7	5.2	12.7	5.4	15.4	3.1	7.5	3.7	0.0	4.8	12.6	12.7	0.9
Legionellosis	Cases	0	7	3	2	1	0	2	0	0	0	0	0	0	1	0	0	1	22	0	3	2
	Rate	9.0	4.9	4.5	3.3	1.7	1.0	3.4	2.2	1.8	2.6	0.0	1.8	3.5	1.0	0.0	0.7	9.2	12.4	3.6	3.7	7.2
Leptospirosis	Cases	0	0	0	0	0	0	0	2	1	2	1	0	0	0	1	1	0	2	0	0	1
	Rate	1.3	0.2	0.0	0.2	4.2	1.0	1.4	8.7	2.8	7.1	12.7	7.8	0.0	0.0	10.0	2.9	18.4	2.0	0.0	0.5	3.6
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.7	0.8	0.3	0.0	1.0	2.2	0.9	0.0	1.6	1.8	0.7	0.3	0.0	0.0	3.1	0.0	0.0	1.1	0.0
Malaria	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	2.7	1.7	0.3	0.0	1.4	0.0	0.9	0.6	0.0	0.0	0.0	0.7	0.0	2.2	0.0	1.4	0.0	0.5	0.9
Measles	Cases	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	19.9	0.4	1.1	0.2	0.0	1.0	0.5	2.2	0.0	0.6	0.0	0.6	0.0	0.7	2.5	0.0	3.1	0.0	0.0	0.0	0.0
Meningococcal disease ⁵	Cases	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0
	Rate	4.5	1.7	1.6	3.3	1.9	2.9	2.4	2.2	0.9	4.5	0.0	3.0	5.6	1.7	0.0	0.7	3.1	1.4	0.0	1.1	4.5
Mumps	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	1.9	1.3	0.2	0.8	0.6	0.0	0.0	0.0	3.7	0.0	0.0	0.0	2.1	1.4	5.0	1.5	0.0	1.2	0.0	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	39.8	22.5	32.2	38.4	71.7	121.8	92.4	30.3	46.2	35.1	52.3	36.2	14.7	37.1	30.0	22.7	52.2	54.4	77.4	10.6	8.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	1.4	0.4	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	3.1	0.2	0.0	0.0	0.0
Pertussis	Cases	0	5	16	2	9	0	6	0	2	4	0	11	0	1	0	0	2	9	0	0	6
	Rate	3.2	10.8	19.1	14.9	25.8	4.9	20.2	17.3	31.4	14.9	7.9	24.1	24.5	34.4	12.5	19.7	43.0	33.1	25.2	7.4	27.7
Rheumatic fever	Cases	1	0	1	6	0	0	0	0	0	0	0	1	1	3	0	0	0	1	0	0	0
	Rate	10.3	2.1	2.0	11.8	5.8	2.0	3.4	15.2	2.8	5.8	3.2	2.4	4.9	3.1	5.0	0.0	0.0	0.4	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.5	0.4	2.2	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
Rubella	Cases	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis	Cases	3	9	7	5	6	1	5	0	2	7	1	0	2	2	0	4	1	12	4	12	1
	Rate	23.8	21.0	22.3	15.2	25.0	18.7	23.6	28.1	25.9	27.3	14.3	18.7	21.7	18.0	22.5	37.3	27.6	32.3	66.6	76.9	43.8
Shigellosis	Cases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	4.5	3.6	3.2	3.3	3.1	0.0	2.9	0.0	0.0	3.2	0.0	0.0	1.4	1.0	0.0	1.5	0.0	2.8	3.6	1.6	0.9
Tuberculosis disease	Cases	0	5	9	6	5	1	0	0	0	1	0	1	1	3	0	0	1	2	0	0	0
	Rate	3.9	6.8	14.4	12.9	6.1	3.9	3.4	6.5	1.8	7.1	3.2	5.4	9.1	9.7	2.5	5.8	3.1	5.4	5.4	3.7	2.7
Typhoid fever	Cases	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	2.0	1.5	0.6	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	0	0	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0
	Rate	2.6	2.8	1.8	1.7	6.7	7.9	6.3	17.3	3.7	5.2	3.2	0.6	0.0	0.7	5.0	0.7	3.1	5.0	0.0	2.7	2.7
Yersiniosis	Cases	1	0	4	3	3	0	2	0	1	1	0	2	1	1	0	1	0	7	0	0	0
	Rate	3.2	10.0	9.2	6.0	9.2	9.8	8.2	10.8	19.4	11.7	6.3	6.6	16.1	19.4	7.5	6.6	15.3	9.2	16.2	1.6	5.4

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including December 2010 expressed as cases per 100 000

³ Further data are available from the local Medical Officer of Health

⁴ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

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 of this report

⁶ Non–seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Notifiable Disease Surveillance Data for the 12 months ending December-2010 by District Health Board

Disease	Cases for the 12 months ending December 2010 ^{1 2} by District Health Board ³																					
	Total	Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	7345	183	843	655	534	680	183	322	37	264	317	98	248	343	592	73	235	66	930	123	378	241
Cryptosporidiosis	954	41	81	64	39	141	14	14	5	30	45	6	19	9	35	7	36	10	230	47	43	38
Dengue fever	51	2	6	12	3	9	0	3	1	1	0	1	0	0	6	0	0	0	3	0	2	2
Gastroenteritis	497	4	59	63	27	30	3	11	0	13	4	16	46	54	90	3	7	7	48	0	11	1
Giardiasis	1985	41	253	304	205	180	44	72	16	36	105	23	29	51	146	17	48	10	283	20	62	40
Haemophilus influenzae type b	10	0	1	0	2	2	1	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0
Hazardous substances injury	8	0	4	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Hepatitis A	48	2	2	7	9	4	1	1	2	0	2	1	3	1	2	0	0	0	8	0	3	0
Hepatitis B	59	1	2	8	10	1	4	7	5	0	3	1	1	2	2	1	1	0	6	0	4	0
Hepatitis C	19	0	1	1	2	0	0	2	0	4	0	0	0	1	4	0	0	0	3	0	1	0
Invasive pneumococcal disease ⁴	535	17	62	45	105	47	18	33	1	10	24	9	18	21	23	5	4	1	42	3	30	17
Lead absorption	200	6	16	18	12	17	0	5	2	4	8	8	9	22	9	3	5	0	24	7	24	1
Legionellosis	191	14	26	20	16	6	1	7	1	2	4	0	3	5	3	0	1	3	62	2	7	8
Leptospirosis	91	2	1	0	1	15	1	3	4	3	11	8	13	0	0	4	4	6	10	0	1	4
Listeriosis	23	1	1	3	4	1	0	2	1	1	0	1	3	1	1	0	0	1	0	0	2	0
Malaria	45	0	5	12	8	1	0	3	0	1	1	0	0	0	2	0	3	0	7	0	1	1
Measles	48	31	2	5	1	0	1	1	1	0	1	0	1	0	2	1	0	1	0	0	0	0
Meningococcal disease ⁵	97	7	9	7	16	7	3	5	1	1	7	0	5	8	5	0	1	1	7	0	2	5
Mumps	41	3	7	1	4	2	0	0	0	4	0	0	0	3	4	2	2	0	6	0	3	0
Non seasonal influenza A (H1N1) ⁶	1827	62	119	143	185	258	124	192	14	50	54	33	60	21	107	12	31	17	273	43	20	9
Paratyphoid fever	19	0	0	6	2	1	1	0	0	0	0	0	0	0	7	0	0	1	1	0	0	0
Pertussis	874	5	57	85	72	93	5	42	8	34	23	5	40	35	99	5	27	14	166	14	14	31
Rheumatic fever	168	16	11	9	57	21	2	7	7	3	9	2	4	7	9	2	0	0	2	0	0	0
Rickettsial disease	16	1	3	2	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	5	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
Salmonellosis	1146	37	111	99	73	90	19	49	13	28	42	9	31	31	52	9	51	9	162	37	145	49
Shigellosis	105	7	19	14	16	11	0	6	0	0	5	0	0	2	3	0	2	0	14	2	3	1
Tuberculosis disease	319	6	36	64	62	22	4	7	3	2	11	2	9	13	28	1	8	1	27	3	7	3
Typhoid fever	31	1	4	9	7	2	0	5	0	0	0	0	0	0	2	0	0	0	1	0	0	0
VTEC/STEC infection	142	4	15	8	8	24	8	13	8	4	8	2	1	0	2	2	1	1	25	0	5	3
Yersiniosis	407	5	53	41	29	33	10	17	5	21	18	4	11	23	56	3	9	5	46	9	3	6
Total	17306	500	1810	1708	1511	1706	447	830	135	516	703	230	554	654	1294	150	476	154	2387	310	771	460

¹ These data are provisional

² Further data are available from the local Medical Officer of Health

³ These totals are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section

⁴ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

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 of this report

⁶ Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

National Notifiable Disease Surveillance Data December 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	December 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	December 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	674	7345	170.2	890	7177	166.3
Cryptosporidiosis	38	954	22.1	48	854	19.8
Dengue fever	4	51	1.2	4	139	3.2
Gastroenteritis ³	39	497	11.5	44	712	16.5
Giardiasis	126	1985	46.0	128	1639	38.0
Haemophilus influenzae type b	3	10	0.2	1	10	0.2
Hazardous substances injury	0	8	0.2	0	11	0.3
Hepatitis A	3	48	1.1	2	44	1.0
Hepatitis B ⁴	9	59	1.4	3	55	1.3
Hepatitis C ⁴	2	19	0.4	2	32	0.7
Invasive pneumococcal disease ⁵	27	535	12.4	38	697	16.1
Lead absorption	20	200	4.6	13	272	6.3
Legionellosis	44	191	4.4	9	74	1.7
Leptospirosis	11	91	2.1	13	69	1.6
Listeriosis	0	23	0.5	1	28	0.6
Malaria	1	45	1.0	2	50	1.2
Measles	1	48	1.1	6	248	5.7
Meningococcal disease ⁶	6	97	2.2	8	133	3.1
Mumps	2	41	0.9	7	63	1.5
Non seasonal influenza A (H1N1) ⁷	1	1827	42.3	14	3670	85.0
Paratyphoid fever	0	19	0.4	2	25	0.6
Pertussis	73	874	20.3	141	1398	32.4
Rheumatic fever	14	168	3.9	7	140	3.2
Rickettsial disease	0	16	0.4	0	5	0.1
Rubella	2	5	0.1	0	4	0.1
Salmonellosis	84	1146	26.6	88	1128	26.1
Shigellosis	3	105	2.4	4	119	2.8
Tuberculosis disease	35	319	7.4	33	299	6.9
Typhoid fever	2	31	0.7	1	34	0.8
VTEC/STEC infection	6	142	3.3	7	143	3.3
Yersiniosis	27	407	9.4	41	430	10.0

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including December 2010) or the previous year (12 months up to and including December 2009), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

⁴ Only acute cases of this disease are currently notifiable

⁵ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁶ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

⁷ Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Other notifiable infectious disease reported in December: Chemical poisoning from the environment (2) , Hydatid disease (2) , Leprosy (1) , Tetanus (1)