

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 6 May 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

- *Cryptosporidiosis*: 19 cases of cryptosporidiosis were notified in April 2011 compared to 92 cases notified during the same month of the previous year (Figure 1). The cases ranged in age from 10 months to 52 years, with the highest number of cases in the 30-39 years age group (6 cases) and in the 1-4 years age group (4 cases). The highest numbers of cases were reported in Canterbury (6 cases) and Waikato (3 cases) DHBs. Among the cases where risk factor information was recorded, 50.0% (4/8) had consumed food from a food premise, 33.3% (2/6) had recreational water contact, 28.6% (2/7) had consumed untreated water, and 25.0% (2/8) were overseas during the incubation period.
- *Invasive pneumococcal disease*: 29 cases of invasive pneumococcal disease were notified in April 2011 compared to 53 cases notified during the same month of the previous year. The highest numbers of cases were reported from Counties Manukau (5 cases), Canterbury and Southern (4 cases each) DHBs. The cases ranged in age from 4 months to 90 years, with the highest numbers of cases in the 70+ years (10 cases), 60-69 years (5 cases), and 30-39 years (3 cases) age groups. There were 21 hospitalisations and one death from invasive pneumococcal disease reported. Of the cases where risk factor information was recorded, 37.5% (6/16) had a chronic illness and 5.9% (1/17) were immunocompromised.
- *Leptospirosis*: Eight cases of leptospirosis (3 confirmed, 5 under investigation) were notified in April 2011 compared to three cases notified in the same month of the previous year. The cases were reported from Hawke's Bay (2 cases), Northland, Counties Manukau, Bay of Plenty, Nelson Marlborough, Canterbury, and South Canterbury (1 case each) DHBs. Occupation was recorded in six cases: farmer (2 cases), dairy cattle farm worker (1 case), paper and pulp mill worker (1 case), housewife (1 case), and student (1 case). The *Leptospira* serovar was recorded for two of the cases, both as *Leptospira* Ballum.
- *Measles*: 15 cases of measles were notified in April 2011 (13 confirmed, 1 probable, 1 under investigation), compared to eight cases notified in the previous month and eight cases in the same month of the previous year (Figure 2). The remainder of this section relates to the 14 confirmed and probable cases only. Nine cases were reported in Hawke's Bay DHB with the remaining cases from Auckland (4 cases) and Waitemata (1 case) DHBs. Cases were distributed as follows: 1-4 years (5 cases), 5-9 years (3 cases), 10-14 years (4 cases), and 30-39 years (2 cases) age groups. One hospitalisation was reported. Fourteen cases had immunisation

information recorded. Of these, 11 cases were not immunised and the remaining three cases were reported as having received one dose of the vaccine (two cases were older than four years, the current age by which two doses are recommended, while the remaining case was aged less than four years and only eligible to receive one dose).

- *Mumps*: Seven cases of mumps were notified in April 2011 (4 probable, 3 under investigation), compared to seven cases notified in the previous month and one case in the same month of the previous year. The remainder of this section relates to the four probable cases only. The cases were reported in Counties Manukau, Hawke's Bay, MidCentral, and Canterbury (1 case each) DHBs. Cases were distributed as follows 5-9 years (2), 10-14 years (1), and 30-39 years (1) age groups. Three cases had immunisation information recorded and all were reported as having been immunised. One case received two doses of the vaccine while the remaining two cases received one dose of the vaccine (all three cases were older than four years, the current age by which two doses are recommended).
- *Ross River virus infection*: One case of Ross River virus infection was notified in April 2011. The case had been overseas during the incubation period but the countries visited are not yet known. Confirmatory laboratory results from a reference laboratory are pending.
- *Salmonellosis*: 113 salmonellosis cases were notified in April 2011, compared to 124 cases notified in the preceding month and 83 cases the same month of the previous year. The highest number of cases was reported in Canterbury DHB (17 cases), followed by Waitemata and Waikato (14 cases each) DHBs. The cases ranged in age from 16 days to 91 years with the highest numbers of cases in the 1-4 years (17 cases), 20-29 years, and 40-49 years (16 cases each) age groups. Seven cases were hospitalised. The serotype involved was identified in 85 (75.2%) of the cases. The most common serotypes were: *Salmonella* Typhimurium phage type 135 (18 cases), *S. Enteritidis* phage type 9a and *S. Typhimurium* phage type 12a (7 cases each). Among the cases for which risk factor information was recorded, 48.6% (18/37) consumed food from a food premise, 36.1% (13/36) had consumed untreated water, 26.3% (10/38) had contact with farm animals, 20.5% (9/44) were overseas, and 13.2% (5/38) had recreational water contact during the incubation period.
- *Toxic shellfish poisoning - unspecified*: Two cases of toxic shellfish poisoning in members of one family were notified in April 2011. Both cases had consumed paua from the same harvest that was collected in the Marlborough region. One case was found to be positive for norovirus and has been made not case, the other case is still under investigation.
- *VTEC/STEC infection*: 20 cases of VTEC/STEC infection were notified in April 2011, compared to 25 cases notified in the preceding month and 11 cases in the same month of the previous year. The highest numbers of cases were reported in Waikato (5 cases) and Canterbury (4 cases) DHBs. The cases ranged in age from 1 to 85 years, with the highest number of cases in children aged 1-4 years (9 cases). Eight cases were hospitalised. *Escherichia coli* O157:H7 was isolated in 11 cases and *E. coli* O84:H2 in one case. Among the cases for which risk factor information was recorded, 100% (6/6) had contact with pets, 66.7% (4/6) had contact with farm animals, 66.7% (4/6) had contact with animal manure, 50.0% (2/4) had contact with other animals, 33.3% (3/9) had recreational water contact, 28.6% (2/7) had contact with children in nappies, and 12.5% (1/7) had contact with another person with similar symptoms during the incubation period.
- *Yersiniosis*: 33 yersiniosis cases were notified in April 2011, compared to 39 cases notified in the preceding month and 20 cases the same month of the previous year. The highest numbers of cases were reported in Waitemata (8 cases), Counties Manukau (6 cases), and Auckland (4 cases) DHBs. The cases were aged from 3 months to 84 years with the highest number of cases in the 1-4 years (12 cases), less than 1 year, and 60-69 years (4 cases each) age groups. Three cases were hospitalised. The biotype involved was identified in 26 (81.8%) of the cases: *Yersinia enterocolitica* Biotype 4 (16 cases), *Y. enterocolitica* Biotype 3 (5 cases), *Y. enterocolitica* Biotype 2 (3 cases), and *Y. enterocolitica* Biotype 1A (2 cases). Among the cases for which risk factor information was recorded, 42.9% (3/7) had contact with faecal matter, 28.6% (2/7) consumed food from a food premise, and 16.7% (1/6) had consumed untreated water during the incubation period.

2. Outbreaks

Finalised outbreak reports: 17 outbreak reports were reported and finalised during April 2011 (Table 1).

Table 1: Summary of finalised outbreaks reported to ESR during April 2011

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Waikato	1	4
Gastroenteritis	Waikato, Hutt, Wellington	5	80
<i>Giardia</i>	Auckland, Waikato	5	15
Norovirus	Hutt, Wellington, Canterbury, South Canterbury	5	186
<i>Pseudomonas</i> (skin infection)	Hawke's Bay	1	11
Total		17	296

Interim outbreak reports: 31 interim outbreaks were reported in April 2011 (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 April 2011

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
Gastroenteritis	Northland, Auckland, Waikato, Taranaki, Manawatu, Wellington, West Coast	16	34
<i>Giardia</i>	Auckland, Tauranga	3	10
Histamine (scombroid) fish poisoning	Hutt	1	9
Norovirus	Northland, Auckland, Taupo, Otago, Southland	7	45
Rotavirus	Nelson Marlborough	1	17
<i>Salmonella</i> ¹	Auckland, Waikato	3	6
Total		31	121

¹ One of the *Salmonella* outbreaks reported in Auckland had overseas exposure location (India)

3. Deaths from notifiable diseases

Two deaths were reported in April 2011 from invasive pneumococcal disease and meningococcal disease (Table 3).

Table 3: Summary of deaths from notifiable diseases reported during April 2011

Disease	District Health Board	Age group (years)
Invasive pneumococcal disease	Waitemata	70+
Meningococcal disease	Capital and Coast	15-19

4. Trends in selected diseases to April 2011

Figure 1: Cryptosporidiosis notifications by month, January 2005 – April 2011

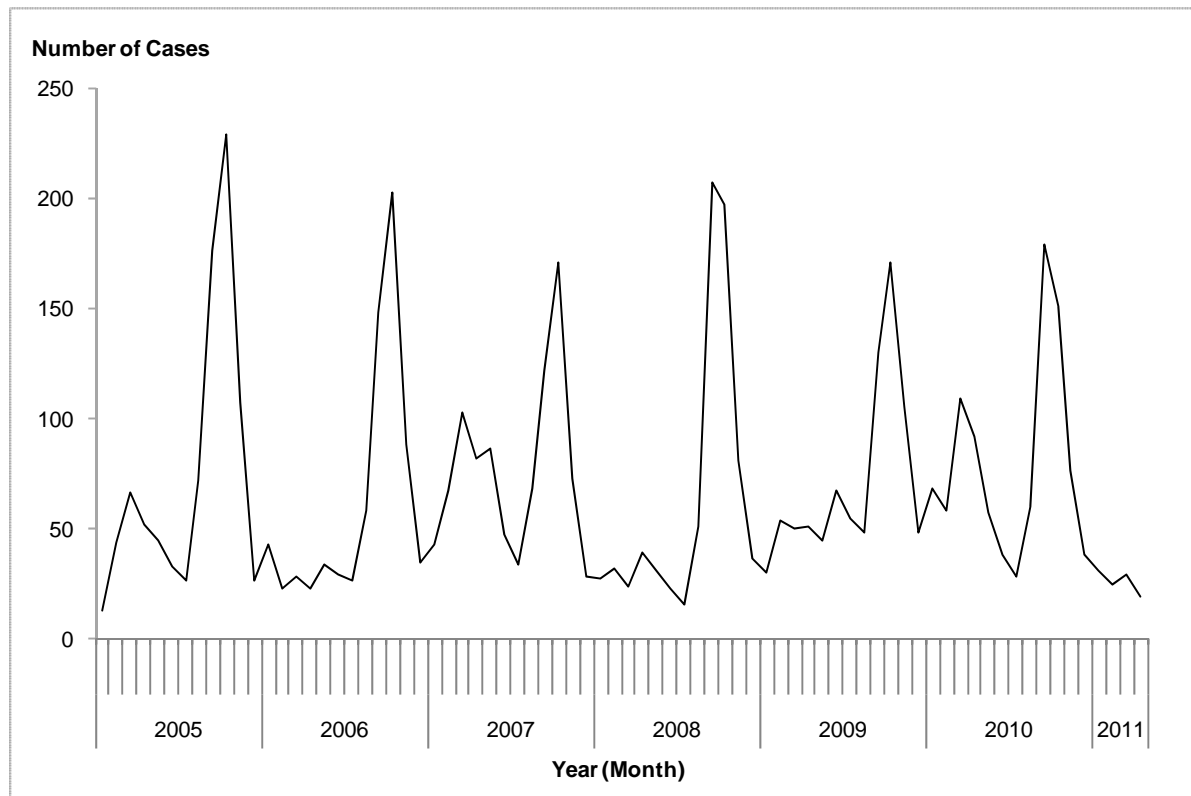
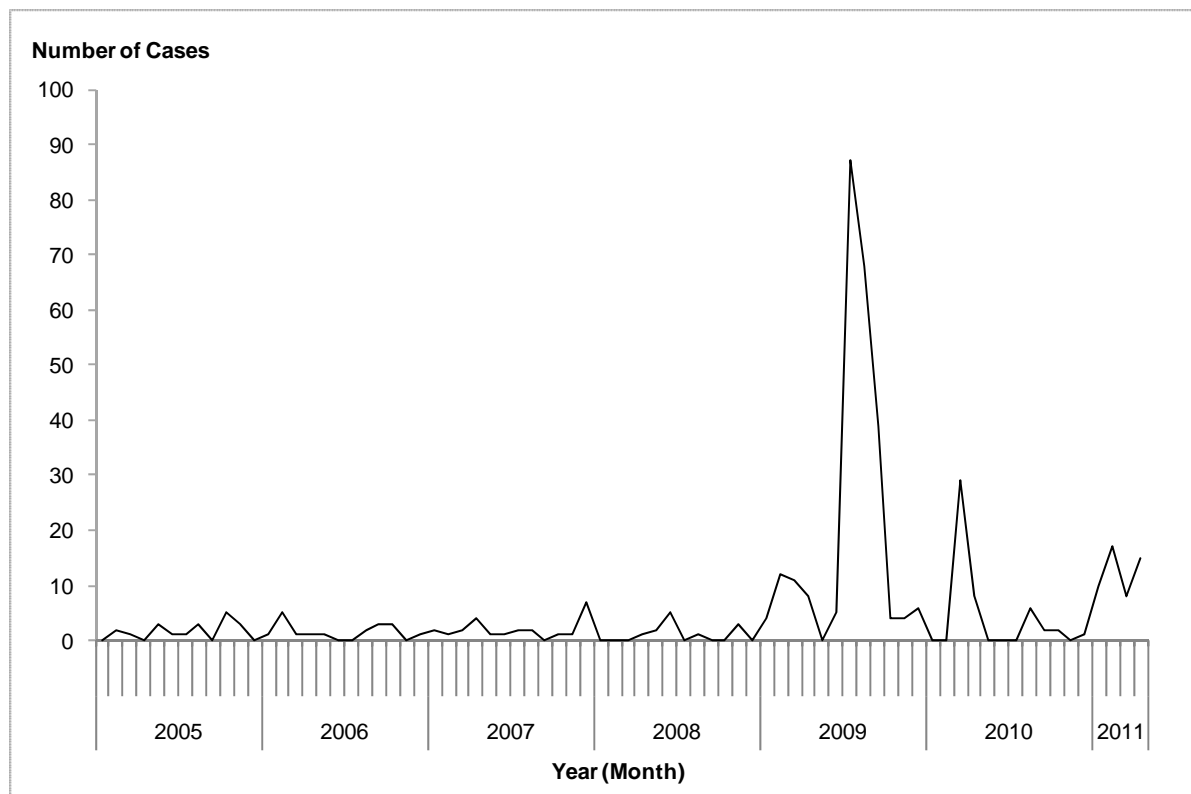


Figure 2: Measles notifications by month, January 2005 – April 2011



5. Data tables

National Notifiable Disease Surveillance Data April 2011

Disease	Current Year - 2011 ¹			Previous Year - 2010		
	April 2011 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	April 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	411	1892	151.3	509	2628	173.5
Cryptosporidiosis	19	104	16.7	92	327	23.1
Dengue fever	2	14	1.2	2	13	1.7
Gastroenteritis ³	43	230	13.0	38	156	15.5
Giardiasis	155	771	46.1	188	743	41.7
Haemophilus influenzae type b	0	1	0.1	0	5	0.3
Hepatitis A	3	11	0.8	7	20	1.2
Hepatitis B ⁴	11	24	1.4	2	15	1.3
Hepatitis C ⁴	3	9	0.5	1	4	0.5
Invasive pneumococcal disease	29	106	11.8	53	125	15.2
Lead absorption	26	103	6.0	20	71	7.4
Legionellosis	11	64	4.4	12	43	1.9
Leptospirosis	8	24	1.6	3	35	2.0
Listeriosis	1	10	0.5	2	13	0.8
Malaria	1	13	0.8	2	20	1.1
Measles	15	50	1.4	8	37	5.8
Meningococcal disease	6	23	2.1	9	30	3.1
Mumps	7	20	1.1	1	15	1.4
Paratyphoid fever	2	8	0.5	2	6	0.4
Pertussis	39	226	17.3	52	343	30.3
Rheumatic fever	10	48	3.9	15	46	3.2
Rickettsial disease	0	1	0.3	0	2	0.2
Rubella	2	6	0.2	1	1	0.1
Salmonellosis	113	482	27.7	83	420	23.8
Shigellosis	3	36	2.5	8	33	2.3
Tuberculosis disease	30	122	7.5	20	101	6.9
Typhoid fever	2	19	0.8	4	17	0.7
VTEC/STEC infection	20	89	4.0	11	53	2.8
Yersiniosis	33	162	10.0	20	132	8.5

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including April 2011) or the previous year (12 months up to and including April 2010), 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

Other notifiable infectious disease reported in April: Hepatitis NOS (1) , Ross River virus infection (1) , Toxic shellfish poisoning (2)

Notifiable Disease Surveillance Data by District Health Board April 2011

		Cases ¹ and current rate ² for April 2011 by District Health Board ³																			
Disease		Northland	Waitemata	Auckland	CountiesManukau	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	Southern
Campylobacteriosis	Cases	7	45	32	38	42	11	18	2	4	20	6	9	14	39	3	15	2	60	9	35
	Rate	113.1	140.9	127.7	96.6	180.6	177.4	138.5	68.8	183.0	181.0	106.0	131.6	173.9	172.0	153.9	161.5	149.7	173.6	207.7	201.8
Cryptosporidiosis	Cases	0	2	0	1	3	0	0	0	0	1	0	0	1	2	1	0	0	6	0	2
	Rate	25.4	9.3	9.8	5.5	37.3	13.6	8.6	10.8	27.5	26.4	6.3	10.8	15.3	9.6	17.4	10.9	18.3	22.2	84.1	21.8
Dengue fever	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	1.3	2.0	1.2	2.2	1.9	1.4	2.2	0.9	0.0	1.6	0.0	0.0	1.4	0.0	0.0	0.0	0.4	1.8	1.3
Gastroenteritis	Cases	0	5	7	0	0	2	1	0	2	0	0	4	2	5	1	0	5	8	0	1
	Rate	1.3	9.9	15.3	6.7	6.0	8.8	3.8	0.0	12.8	0.6	23.7	26.9	36.2	29.9	9.9	5.8	39.7	23.0	7.2	3.6
Giardiasis	Cases	2	4	19	15	20	5	12	0	0	6	0	2	10	19	1	2	1	22	6	9
	Rate	31.1	41.1	70.0	43.2	48.0	38.0	43.8	28.0	20.1	72.1	12.7	16.1	44.5	61.8	29.8	36.2	18.3	51.6	51.9	41.2
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.2	0.2	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	0.0	0.0	0.0
Hepatitis A	Cases	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	1.1	1.8	0.8	0.0	0.0	4.3	0.0	2.6	1.6	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0
Hepatitis B	Cases	0	0	1	2	1	2	2	1	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	0.6	0.6	2.4	1.8	0.8	4.9	1.4	12.9	0.0	1.9	1.6	0.6	1.4	0.0	0.0	0.0	0.0	1.4	1.8	1.3
Hepatitis C	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.0	0.6	0.2	0.4	0.0	0.0	0.0	0.0	0.9	0.6	0.0	1.2	0.7	1.4	0.0	0.0	0.0	1.0	1.8	0.3
Invasive pneumococcal disease	Cases	0	2	2	5	3	2	0	0	1	2	0	0	1	1	0	2	0	4	0	4
	Rate	10.8	10.8	8.7	18.7	12.9	14.6	13.3	2.2	10.1	18.7	14.2	7.2	13.9	6.9	9.9	5.1	3.1	10.0	5.4	17.1
Lead absorption	Cases	0	3	8	3	2	0	1	0	0	2	2	0	1	0	0	0	0	3	1	0
	Rate	3.8	7.8	10.7	5.5	4.1	0.0	2.9	0.0	5.5	7.7	12.7	4.2	12.5	3.1	5.0	4.3	6.1	4.3	7.2	7.9
Legionellosis	Cases	1	3	1	3	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0
	Rate	5.1	4.5	2.9	3.1	1.6	1.0	3.8	0.0	1.8	1.3	1.6	1.2	2.1	1.4	2.5	2.2	6.1	15.0	0.0	7.6
Leptospirosis	Cases	1	0	0	1	0	0	1	0	0	2	0	0	0	0	0	1	0	1	1	0
	Rate	1.9	0.2	0.2	0.6	1.6	0.0	1.9	6.5	0.9	8.4	17.4	4.2	0.0	0.0	5.0	1.4	18.3	0.6	1.8	1.0
Listeriosis	Cases	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.7	0.4	0.3	1.0	1.0	0.0	0.9	0.0	1.6	1.2	2.1	0.3	0.0	0.0	3.1	0.0	0.0	0.0
Malaria	Cases	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.7	2.7	1.4	0.0	0.0	1.4	0.0	0.9	0.0	0.0	0.0	0.0	0.3	0.0	2.9	0.0	0.6	0.0	0.7
Measles	Cases	0	1	4	0	0	0	0	0	0	9	0	0	0	0	0	0	0	1	0	0
	Rate	0.0	2.2	2.7	2.4	0.0	0.0	0.0	2.2	0.0	9.0	0.0	0.0	0.7	0.3	2.5	0.0	3.1	1.2	0.0	0.0
Meningococcal disease	Cases	0	0	1	0	0	2	0	0	0	1	0	0	1	0	0	0	0	0	1	0
	Rate	3.2	1.5	1.3	2.4	1.9	5.8	2.4	2.2	0.0	3.9	3.2	3.0	4.2	1.7	2.5	0.7	3.1	1.0	1.8	2.3
Mumps	Cases	0	0	1	1	1	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0
	Rate	1.9	1.1	1.3	1.0	0.5	0.0	0.5	0.0	1.8	0.6	0.0	0.6	2.8	1.0	5.0	1.4	0.0	1.4	0.0	0.3
Paratyphoid fever	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	2.2	0.2	0.3	3.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.0	0.0	0.0	3.1	0.0	0.0	0.0
Pertussis	Cases	0	0	4	1	6	1	1	1	3	2	0	2	5	5	0	2	0	4	0	2
	Rate	3.2	10.8	21.8	12.0	18.1	5.8	18.1	17.2	22.9	14.8	0.0	14.9	19.5	30.6	9.9	23.9	45.8	23.0	3.6	18.5
Rheumatic fever	Cases	3	0	0	2	0	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	9.5	1.9	1.6	12.4	4.4	4.9	3.3	15.1	1.8	4.5	4.7	1.8	7.0	3.8	5.0	0.0	0.0	0.8	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
	Rate	0.0	0.6	0.2	0.2	1.9	0.0	0.0	0.0	0.9	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	0	1	0	0	0	0	0	0
	Rate	1.3	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.3
Salmonellosis	Cases	3	14	13	2	14	2	2	1	2	4	1	5	1	7	1	6	3	17	2	13
	Rate	24.8	21.8	25.1	15.7	26.1	23.4	19.0	30.1	22.0	27.7	20.6	18.5	22.9	20.3	32.3	35.5	30.6	32.3	59.1	71.6
Shigellosis	Cases	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.2	5.4	3.6	3.5	3.0	0.0	2.4	0.0	0.0	3.2	0.0	0.0	0.0	1.7	0.0	1.4	0.0	2.0	1.8	0.7
Tuberculosis disease	Cases	1	2	7	3	5	0	3	0	1	1	1	1	0	3	0	0	0	1	0	1
	Rate	5.1	5.2	16.9	11.4	7.4	1.9	5.2	6.5	1.8	12.2	3.2	4.8	10.4	11.7	2.5	2.2	3.1	4.1	0.0	3.0
Typhoid fever	Cases	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.7	1.3	2.4	0.3	1.0	1.4	0.0	0.6	0.0	0.6	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0
VTEC/STEC infection	Cases	2	1	3	1	5	0	0	1	0	1	0	1	1	0	0	0	0	4	0	0
	Rate	5.1	2.8	2.0	3.9	9.6	11.7	4.3	19.4	5.5	5.2	1.6	1.8	2.8	1.4	7.4	0.0	6.1	4.1	3.6	1.3
Yersiniosis	Cases	0	8	4	6	2	1	0	0	3	0	0	1	2	1	1	1	0	1	1	1
	Rate	3.8	12.1	9.8	7.5	10.7	8.8	7.1	12.9	20.1	8.4	7.9	7.8	12.5	19.6	7.4	8.0	9.2	9.2	16.1	4.6

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including April 2011 expressed as cases per 100 000

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

Notifiable Disease Surveillance Data by District Health Board April 2011

		Cases ¹ and current rate ² for April 2011 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	Southern
Campylobacteriosis	Cases	7	45	32	38	42	11	18	2	4	20	6	9	14	39	3	15	2	60	9	35
	Rate	113.1	140.9	127.7	96.6	180.6	177.4	138.5	68.8	183.0	181.0	106.0	131.6	173.9	172.0	153.9	161.5	149.7	173.6	207.7	201.8
Cryptosporidiosis	Cases	0	2	0	1	3	0	0	0	0	1	0	0	1	2	1	0	0	6	0	2
	Rate	25.4	9.3	9.8	5.5	37.3	13.6	8.6	10.8	27.5	26.4	6.3	10.8	15.3	9.6	17.4	10.9	18.3	22.2	84.1	21.8
Dengue fever	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	1.3	2.0	1.2	2.2	1.9	1.4	2.2	0.9	0.0	1.6	0.0	0.0	1.4	0.0	0.0	0.0	0.4	1.8	1.3
Gastroenteritis	Cases	0	5	7	0	0	2	1	0	2	0	0	4	2	5	1	0	5	8	0	1
	Rate	1.3	9.9	15.3	6.7	6.0	8.8	3.8	0.0	12.8	0.6	23.7	26.9	36.2	29.9	9.9	5.8	39.7	23.0	7.2	3.6
Giardiasis	Cases	2	4	19	15	20	5	12	0	0	6	0	2	10	19	1	2	1	22	6	9
	Rate	31.1	41.1	70.0	43.2	48.0	38.0	43.8	28.0	20.1	72.1	12.7	16.1	44.5	61.8	29.8	36.2	18.3	51.6	51.9	41.2
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.2	0.2	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	0.0	0.0	0.0
Hepatitis A	Cases	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	1.1	1.8	0.8	0.0	0.0	4.3	0.0	2.6	1.6	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0
Hepatitis B	Cases	0	0	1	2	1	2	2	1	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	0.6	0.6	2.4	1.8	0.8	4.9	1.4	12.9	0.0	1.9	1.6	0.6	1.4	0.0	0.0	0.0	0.0	1.4	1.8	1.3
Hepatitis C	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.0	0.6	0.2	0.4	0.0	0.0	0.0	0.0	0.9	0.6	0.0	1.2	0.7	1.4	0.0	0.0	0.0	1.0	1.8	0.3
Invasive pneumococcal disease	Cases	0	2	2	5	3	2	0	0	1	2	0	0	1	1	0	2	0	4	0	4
	Rate	10.8	10.8	8.7	18.7	12.9	14.6	13.3	2.2	10.1	18.7	14.2	7.2	13.9	6.9	9.9	5.1	3.1	10.0	5.4	17.1
Lead absorption	Cases	0	3	8	3	2	0	1	0	0	2	2	0	1	0	0	0	0	3	1	0
	Rate	3.8	7.8	10.7	5.5	4.1	0.0	2.9	0.0	5.5	7.7	12.7	4.2	12.5	3.1	5.0	4.3	6.1	4.3	7.2	7.9
Legionellosis	Cases	1	3	1	3	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0
	Rate	5.1	4.5	2.9	3.1	1.6	1.0	3.8	0.0	1.8	1.3	1.6	1.2	2.1	1.4	2.5	2.2	6.1	15.0	0.0	7.6
Leptospirosis	Cases	1	0	0	1	0	0	1	0	0	2	0	0	0	0	0	1	0	1	1	0
	Rate	1.9	0.2	0.2	0.6	1.6	0.0	1.9	6.5	0.9	8.4	17.4	4.2	0.0	0.0	5.0	1.4	18.3	0.6	1.8	1.0
Listeriosis	Cases	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.7	0.4	0.3	1.0	1.0	0.0	0.9	0.0	1.6	1.2	2.1	0.3	0.0	0.0	3.1	0.0	0.0	0.0
Malaria	Cases	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.7	2.7	1.4	0.0	0.0	1.4	0.0	0.9	0.0	0.0	0.0	0.0	0.3	0.0	2.9	0.0	0.6	0.0	0.7
Measles	Cases	0	1	4	0	0	0	0	0	0	9	0	0	0	0	0	0	0	1	0	0
	Rate	0.0	2.2	2.7	2.4	0.0	0.0	0.0	2.2	0.0	9.0	0.0	0.0	0.7	0.3	2.5	0.0	3.1	1.2	0.0	0.0
Meningococcal disease	Cases	0	0	1	0	0	2	0	0	0	0	1	0	0	1	0	0	0	0	1	0
	Rate	3.2	1.5	1.3	2.4	1.9	5.8	2.4	2.2	0.0	3.9	3.2	3.0	4.2	1.7	2.5	0.7	3.1	1.0	1.8	2.3
Mumps	Cases	0	0	1	1	1	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0
	Rate	1.9	1.1	1.3	1.0	0.5	0.0	0.5	0.0	1.8	0.6	0.0	0.6	2.8	1.0	5.0	1.4	0.0	1.4	0.0	0.3
Paratyphoid fever	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	2.2	0.2	0.3	3.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.0	0.0	0.0	3.1	0.0	0.0	0.0
Pertussis	Cases	0	0	4	1	6	1	1	1	3	2	0	2	5	5	0	2	0	4	0	2
	Rate	3.2	10.8	21.8	12.0	18.1	5.8	18.1	17.2	22.9	14.8	0.0	14.9	19.5	30.6	9.9	23.9	45.8	23.0	3.6	18.5
Rheumatic fever	Cases	3	0	0	2	0	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	9.5	1.9	1.6	12.4	4.4	4.9	3.3	15.1	1.8	4.5	4.7	1.8	7.0	3.8	5.0	0.0	0.0	0.8	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
	Rate	0.0	0.6	0.2	0.2	1.9	0.0	0.0	0.0	0.9	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	0	1	0	0	0	0	0	0
	Rate	1.3	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.3
Salmonellosis	Cases	3	14	13	2	14	2	2	1	2	4	1	5	1	7	1	6	3	17	2	13
	Rate	24.8	21.8	25.1	15.7	26.1	23.4	19.0	30.1	22.0	27.7	20.6	18.5	22.9	20.3	32.3	35.5	30.6	32.3	59.1	71.6
Shigellosis	Cases	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.2	5.4	3.6	3.5	3.0	0.0	2.4	0.0	0.0	3.2	0.0	0.0	0.0	1.7	0.0	1.4	0.0	2.0	1.8	0.7
Tuberculosis disease	Cases	1	2	7	3	5	0	3	0	1	1	1	1	0	3	0	0	0	1	0	1
	Rate	5.1	5.2	16.9	11.4	7.4	1.9	5.2	6.5	1.8	12.2	3.2	4.8	10.4	11.7	2.5	2.2	3.1	4.1	0.0	3.0
Typhoid fever	Cases	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.7	1.3	2.4	0.3	1.0	1.4	0.0	0.0	0.6	0.0	0.6	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0
VTEC/STEC infection	Cases	2	1	3	1	5	0	0	1	0	1	0	1	1	0	0	0	0	4	0	0
	Rate	5.1	2.8	2.0	3.9	9.6	11.7	4.3	19.4	5.5	5.2	1.6	1.8	2.8	1.4	7.4	0.0	6.1	4.1	3.6	1.3
Yersiniosis	Cases	0	8	4	6	2	1	0	0	3	0	0	1	2	1	1	1	0	1	1	1
	Rate	3.8	12.1	9.8	7.5	10.7	8.8	7.1	12.9	20.1	8.4	7.9	7.8	12.5	19.6	7.4	8.0	9.2	9.2	16.1	4.6

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including April 2011 expressed as cases per 100 000

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

Notifiable Disease Surveillance Data for the 12 months ending April-2011 by District Health Board

Disease	Cases for the 12 months ending April 2011 ¹ by District Health Board ²																				
	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	Southern
Campylobacteriosis	6610	178	757	575	474	658	182	291	32	200	281	67	220	250	501	62	223	49	882	116	612
Cryptosporidiosis	731	40	50	44	27	136	14	18	5	30	41	4	18	22	28	7	15	6	113	47	66
Dengue fever	51	2	7	9	6	8	2	3	1	1	0	1	0	0	4	0	0	0	2	1	4
Gastroenteritis	567	2	53	69	33	22	9	8	0	14	1	15	45	52	87	4	8	13	117	4	11
Giardiasis	2013	49	221	315	212	175	39	92	13	22	112	8	27	64	180	12	50	6	262	29	125
Haemophilus influenzae type b	4	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Hepatitis A	37	1	1	5	9	3	0	0	2	0	4	1	0	0	3	0	0	0	5	0	3
Hepatitis B	60	1	3	11	9	3	5	3	6	0	3	1	1	2	0	0	0	0	7	1	4
Hepatitis C	22	0	3	1	2	0	0	0	0	1	1	0	2	1	4	0	0	0	5	1	1
Invasive pneumococcal disease	516	17	58	39	92	47	15	28	1	11	29	9	12	20	20	4	7	1	51	3	52
Lead absorption	264	6	42	48	27	15	0	6	0	6	12	8	7	18	9	2	6	2	22	4	24
Legionellosis	194	8	24	13	15	6	1	8	0	2	2	1	2	3	4	1	3	2	76	0	23
Leptospirosis	70	3	1	1	3	6	0	4	3	1	13	11	7	0	0	2	2	6	3	1	3
Listeriosis	20	1	1	3	2	1	1	2	0	1	0	1	2	3	1	0	0	1	0	0	0
Malaria	37	0	4	12	7	0	0	3	0	1	0	0	0	0	1	0	4	0	3	0	2
Measles	61	0	12	12	12	0	0	0	1	0	14	0	0	1	1	1	0	1	6	0	0
Meningococcal disease	90	5	8	6	12	7	6	5	1	0	6	2	5	6	5	1	1	1	5	1	7
Mumps	46	3	6	6	5	2	0	1	0	2	1	0	1	4	3	2	2	0	7	0	1
Paratyphoid fever	21	0	0	10	1	1	4	0	0	0	0	0	1	0	3	0	0	1	0	0	0
Pertussis	755	5	58	98	59	66	6	38	8	25	23	0	25	28	89	4	33	15	117	2	56
Rheumatic fever	170	15	10	7	61	16	5	7	7	2	7	3	3	10	11	2	0	0	4	0	0
Rickettsial disease	13	0	3	1	1	7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Rubella	9	2	0	2	1	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1
Salmonellosis	1208	39	117	113	77	95	24	40	14	24	43	13	31	33	59	13	49	10	164	33	217
Shigellosis	108	5	29	16	17	11	0	5	0	0	5	0	0	0	5	0	2	0	10	1	2
Tuberculosis disease	326	8	28	76	56	27	2	11	3	2	19	2	8	15	34	1	3	1	21	0	9
Typhoid fever	33	1	4	6	12	1	1	3	0	0	1	0	1	0	2	0	0	0	1	0	0
VTEC/STEC infection	174	8	15	9	19	35	12	9	9	6	8	1	3	4	4	3	0	2	21	2	4
Yersiniosis	436	6	65	44	37	39	9	15	6	22	13	5	13	18	57	3	11	3	47	9	14
Total	16472	467	1701	1697	1471	1643	461	792	126	424	694	186	494	576	1225	136	450	137	2224	298	1270

¹ These data are provisional

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

National Notifiable Disease Surveillance Data April 2011

Disease	Current Year - 2011 ¹			Previous Year - 2010		
	April 2011 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	April 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	411	1892	151.3	509	2628	173.5
Cryptosporidiosis	19	104	16.7	92	327	23.1
Dengue fever	2	14	1.2	2	13	1.7
Gastroenteritis ³	43	230	13.0	38	156	15.5
Giardiasis	155	771	46.1	188	743	41.7
Haemophilus influenzae type b	0	1	0.1	0	5	0.3
Hepatitis A	3	11	0.8	7	20	1.2
Hepatitis B ⁴	11	24	1.4	2	15	1.3
Hepatitis C ⁴	3	9	0.5	1	4	0.5
Invasive pneumococcal disease	29	106	11.8	53	125	15.2
Lead absorption	26	103	6.0	20	71	7.4
Legionellosis	11	64	4.4	12	43	1.9
Leptospirosis	8	24	1.6	3	35	2.0
Listeriosis	1	10	0.5	2	13	0.8
Malaria	1	13	0.8	2	20	1.1
Measles	15	50	1.4	8	37	5.8
Meningococcal disease	6	23	2.1	9	30	3.1
Mumps	7	20	1.1	1	15	1.4
Paratyphoid fever	2	8	0.5	2	6	0.4
Pertussis	39	226	17.3	52	343	30.3
Rheumatic fever	10	48	3.9	15	46	3.2
Rickettsial disease	0	1	0.3	0	2	0.2
Rubella	2	6	0.2	1	1	0.1
Salmonellosis	113	482	27.7	83	420	23.8
Shigellosis	3	36	2.5	8	33	2.3
Tuberculosis disease	30	122	7.5	20	101	6.9
Typhoid fever	2	19	0.8	4	17	0.7
VTEC/STEC infection	20	89	4.0	11	53	2.8
Yersiniosis	33	162	10.0	20	132	8.5

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including April 2011) or the previous year (12 months up to and including April 2010), 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

Other notifiable infectious disease reported in April: Hepatitis NOS (1) , Ross River virus infection (1) , Toxic shellfish poisoning (2)