

MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 5 May 2010. 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. Outbreaks	3
3. Deaths from notifiable diseases	3
4. Trends in selected diseases to April 2010	4
5. Data Tables	5

1. Key notifiable disease trends

- *Campylobacteriosis*: 510 campylobacteriosis cases were notified in April 2010 compared to 423 cases in the same month of the previous year. Four hundred and forty cases were laboratory-confirmed. For the 12-month period ending 30 April 2010, the highest incidence rates were reported from Hutt Valley (271.2 per 100 000 population, 387 cases) and Taranaki (247.6 per 100 000, 268 cases) DHBs compared to a national rate of 173.5 per 100 000.
- *Cryptosporidiosis*: 91 cryptosporidiosis cases were notified in April 2010 compared to 51 cases during the same month of the previous year. The highest number of cases was reported in the 1-4 years age group (22 cases). No cases were reported as hospitalised. Canterbury DHB reported the highest number of cases (31 cases), followed by Waitemata (14 cases) and Auckland (14 cases) DHBs. *Cryptosporidium parvum* oocysts were detected in faecal specimens for 97.8% (89/91) of the cases. Five completed *Cryptosporidium* outbreaks involving 13 cases were reported in April.
- *Giardiasis*: 188 giardiasis cases were notified in April 2010 compared to 111 notified in the same month the previous year (Figure 1). Waitemata DHB reported the highest number of cases (31 cases), followed by Auckland (26 cases), Counties Manukau (20 cases) and Waikato (18 cases) DHBs. Among the cases where risk information was recorded, 56.3% (18/32) had faecal contact, 50.0% (19/38) had contact with farm animals, 40.6% (13/32) had recreational contact with water, 38.9% (14/36) had contact with other symptomatic people, and 32.1% (9/28) had consumed untreated water. Nine *Giardia* outbreaks (eight final and one interim) involving 24 cases were reported in April.
- *Hepatitis A*: Nine hepatitis A cases were notified in April 2010 compared to two in the same month of the previous year. Ethnicity was reported as Asian (4 cases), Maori (1 case), Pacific Peoples (1 case), European (1 case) and is unknown for the remaining two cases. Five cases (55.6%) reported overseas travel during the incubation period and countries visited included Samoa (2 cases), India, Republic of Korea and Malaysia (each 1 case). Three cases did not report overseas travel during the incubation period. Of these three cases, one was possibly exposed through household contact and the other two cases had no obvious risk factors. The remaining case had unknown travel history and has since been de-notified.

- *Legionellosis*: Eighteen cases of legionellosis were notified in April 2010 (4 confirmed, 4 probable and 10 under investigation) compared to four in the same month of the previous year. The highest number of cases were from Counties Manukau (5 cases), Auckland (4 cases) and Canterbury (3 cases) DHBs. The cases were distributed by age as follows: 15-19 years (1 case), 20-29 years (2 cases), 30-39 years (1 case), 40-49 years (1 case), 50-59 years (7 cases), 60-69 years (4 cases) and 70+ years (2 cases). Eleven cases were hospitalised. The species involved was identified in eight cases; *Legionella pneumophila* serogroup 1 (5 cases), *L. longbeachae* serogroup unknown (2 cases), *L. dumoffii* (1 case).
- *Leptospirosis*: Seven cases of leptospirosis (2 confirmed, 1 probable and 4 under investigation) were notified in April 2010 compared to three cases in the same month of the previous year. The cases were from Hawke's Bay (4 cases), Waikato (2 cases), and Northland (1 case) DHBs. High risk occupation was recorded for five cases, four meat processing workers and one fencer. The remaining two cases were recorded as a technician (with potential overseas animal exposure) and an antiques dealer. The *Leptospira* serovar was recorded for two cases: *L. Australis* (1 case) and *L. Ballum* (1 case).
- *Measles*: 17 cases of measles (6 confirmed, 2 probable, and 9 under investigation) were notified in April 2010 compared to eight in the same month of the previous year (Figure 2). There were four laboratory confirmed cases. The highest number of cases was reported by Northland DHB (4 cases) followed by Capital and Coast DHB (3 cases). No cases were hospitalised. For more information on the measles situation in New Zealand, including the age, ethnicity, and vaccination status of cases, please refer to the Measles Report available from <http://www.surv.esr.cri.nz/surveillance/WeeklyMeaslesRpt.php>.
- *Meningococcal disease*: Based on the earliest date available¹, nine cases of meningococcal disease were notified during April 2010, seven of which were laboratory-confirmed. In comparison, 12 cases were notified in the previous month, March 2010, and seven during the same month last year, April 2009. For the 12-month period ending 30 April 2010, Tairāwhiti DHB recorded the highest incidence rate of 13.0 per 100 000 population (6 cases), followed by MidCentral (5.4 per 100 000, 9 cases) and Hutt Valley (4.9 per 100 000, 7 cases) DHBs. The highest age-specific rate was in infants aged less than one year (49.2 per 100 000 population, 31 cases), followed by those in the 1-4 years age group (14.4 per 100 000), 35 cases).
- *VTEC/STEC infection*: 14 cases of VTEC/STEC infection were notified in April 2010, compared to seven notifications in the same month of the previous year. The highest number of cases was reported from Hawke's Bay (4 cases), and Canterbury (3 cases) DHBs. The cases were aged between less than 1 year and 70+ years, with the highest number of cases in the 1-4 years age group (7 cases). *Escherichia coli* O157:H7 was isolated in seven cases, and one case of *E. coli* O77:HNM. Two cases were hospitalised. Among the cases for which risk factor information was recorded, 75.0% (3/4) had contact with manure, 71.4% (5/7) had contact with animals, 50.0% (4/8) had contact with another person with similar symptoms, and 37.5% (3/8) had contact with children in nappies.
- *Ross River virus infection*: Three cases of Ross River virus infection were notified in April 2010. All three cases were laboratory-confirmed and had been in Australia 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: 31 outbreak reports were entered into EpiSurv and completed during April 2010 (Table 1).

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

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i> *	Hutt, Wellington	1	4
<i>Campylobacter</i>	Auckland	1	2
<i>Cryptosporidium</i>	Auckland	5	13
Gastroenteritis	Auckland, Wellington, Canterbury	9	49
<i>Giardia</i>	Auckland, Waikato	8	24
Norovirus	Auckland, Canterbury	5	67
<i>Plesiomonas shigelloides</i>	Canterbury	1	23
<i>Salmonella</i>	Auckland	1	3
Total		31	185

Interim outbreak reports: 17 interim outbreaks have been reported in April 2010. 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 2010

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Canterbury	1	4
Gastroenteritis	Auckland, Hawke's Bay, Taranaki, Hutt, Wellington, Canterbury	13	29
<i>Giardia</i>	Waikato	1	2
Norovirus	Northland	1	8
<i>Salmonella</i>	Auckland	1	2
Total		17	45

* Multiple Health District exposure/transmission

3. Deaths from notifiable diseases

Four deaths were reported for the month of April from invasive pneumococcal disease, meningococcal disease, listeriosis-perinatal, and tuberculosis disease (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during April 2010

Disease	District Health Board	Age group
Invasive pneumococcal disease	Bay of Plenty	70+
Listeriosis-perinatal	Counties Manukau	20-29
Meningococcal disease	Bay of Plenty	1-4
Tuberculosis disease	Hawke's Bay	70+

4. Trends in selected diseases to April 2010

Figure 1: Giardiasis notifications by month by year, January 2004 – April 2010

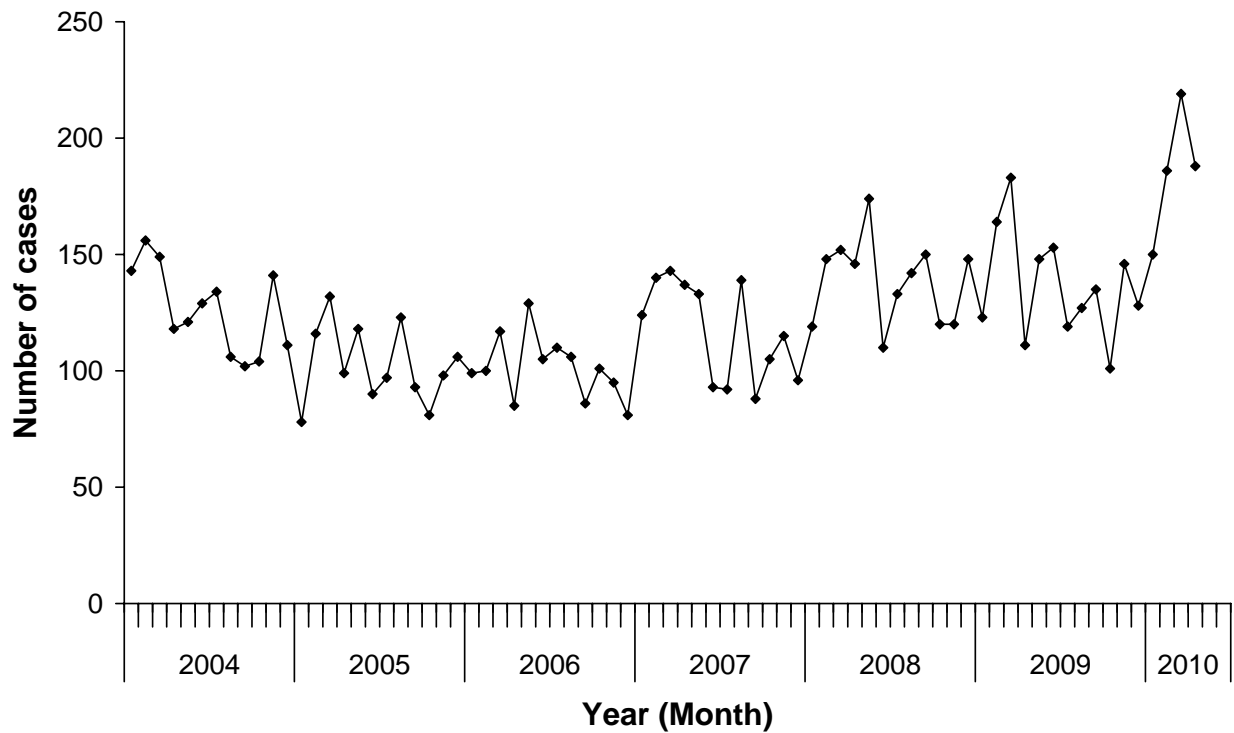
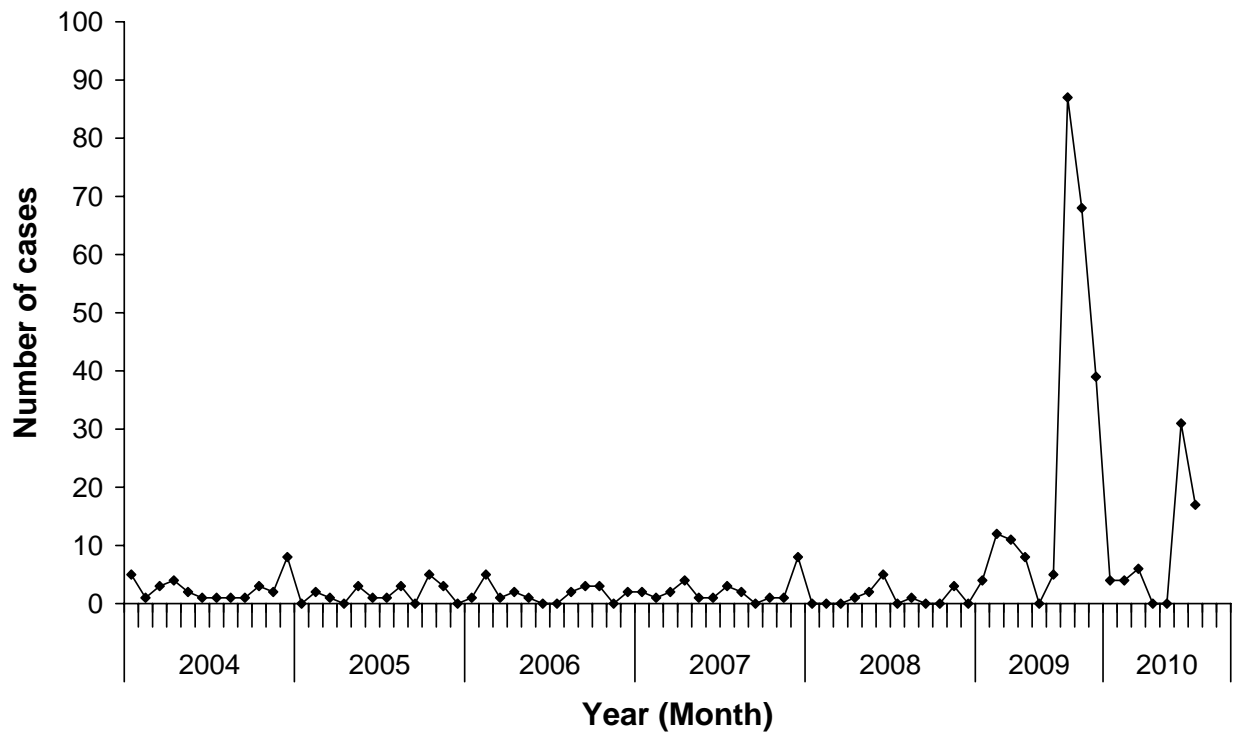


Figure 2: Measles notifications by month by year, January 2004 – April 2010



5. Data Tables

National Notifiable Disease Surveillance Data April 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	April 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	April 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	510	2629	173.5	423	2315	160.5
Cryptosporidiosis	91	325	23.0	51	185	19.4
Dengue fever	2	13	1.7	9	78	3.5
Gastroenteritis ³	40	161	15.6	58	199	15.5
Giardiasis	188	743	41.7	111	581	39.3
Haemophilus influenzae type b	0	5	0.3	3	4	0.2
Hazardous substances injury	1	4	0.3	0	1	0.2
Hepatitis A	9	22	1.3	2	11	1.8
Hepatitis B ⁴	5	19	1.4	1	13	0.8
Hepatitis C ⁴	1	4	0.5	2	13	0.7
Invasive pneumococcal disease ⁵	54	126	15.2	47	168	6.9
Lead absorption	20	67	7.2	31	123	8.3
Legionellosis	18	61	2.4	4	33	2.0
Leptospirosis	7	43	2.2	3	17	2.4
Listeriosis	2	13	0.8	2	8	0.6
Malaria	2	20	1.1	3	21	1.2
Measles	17	48	6.0	8	35	1.1
Meningococcal disease ⁶	11	33	3.2	8	30	2.9
Mumps	4	25	1.6	13	18	1.4
Non seasonal influenza A (H1N1) ⁷	2	6	84.7	17	17	0.4
Paratyphoid fever	0	4	0.4	3	12	0.6
Pertussis	54	348	30.4	97	432	17.9
Rheumatic fever	13	43	3.2	17	46	3.7
Rickettsial disease	0	2	0.2	0	0	0.2
Rubella	1	1	0.1	2	2	0.2
Salmonellosis	88	424	23.9	83	522	29.4
Shigellosis	8	33	2.3	11	53	3.2
Tuberculosis disease	27	114	7.3	24	103	7.1
Typhoid fever	4	17	0.7	3	22	0.9
VTEC/STEC infection	14	56	2.9	7	75	3.2
Yersiniosis	20	132	8.6	31	193	11.1

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including April 2010) or the previous year (12 months up to and including April 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 April: Hepatitis NOS (1) , Leprosy (1) , Ross River virus infection (3)

Notifiable Disease Surveillance Data by District Health Board April 2010

		Cases ¹ and current rate ² for April 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	14	56	55	44	42	8	18	1	17	19	7	13	24	42	6	16	3	67	13	31	14
	Rate	123.3	174.5	173.4	140.5	186.7	188.6	157.9	93.1	247.6	238.5	237.5	148.3	271.2	247.1	207.7	133.8	171.8	136.5	192.6	150.7	147.6
Cryptosporidiosis	Cases	1	14	14	3	5	0	0	0	0	3	0	0	1	4	0	11	0	31	0	1	3
	Rate	25.0	16.7	14.0	9.8	33.3	11.8	8.7	15.2	22.2	23.4	14.3	13.9	11.2	43.0	27.5	27.8	67.5	41.2	50.4	18.0	25.9
Dengue fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	1.9	2.5	3.2	2.5	1.7	1.0	1.0	0.0	0.9	0.6	0.0	0.6	1.4	3.8	0.0	0.0	0.0	1.2	0.0	0.5	0.0
Gastroenteritis	Cases	0	9	8	3	0	0	4	0	2	0	0	3	1	5	0	0	0	4	0	1	0
	Rate	1.9	17.8	23.9	7.5	6.4	11.8	3.9	0.0	2.8	7.1	22.2	45.2	32.2	28.5	5.0	5.8	276.2	8.4	3.6	8.5	1.8
Giardiasis	Cases	1	31	26	20	18	6	9	1	6	6	8	4	7	8	4	8	1	16	2	3	3
	Rate	36.0	39.0	54.7	41.5	46.7	59.9	34.2	19.5	47.1	46.8	47.5	15.7	32.2	59.7	37.5	35.8	46.0	42.6	18.0	28.7	28.6
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	0
	Rate	0.0	0.4	0.0	0.4	1.1	0.0	0.0	0.0	0.0	0.0	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	1	3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	1	0
	Rate	0.0	0.9	2.7	1.2	1.7	1.0	1.0	0.0	0.0	2.6	0.0	3.0	2.1	0.7	0.0	0.0	0.0	1.4	0.0	0.5	0.9
Hepatitis B	Cases	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
	Rate	1.9	1.1	2.3	1.7	0.3	2.0	1.9	4.3	0.9	1.3	1.6	1.2	0.0	1.4	7.5	2.2	6.1	0.8	0.0	1.1	0.9
Hepatitis C	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.0	0.2	0.6	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.6	1.4	0.7	5.0	0.0	0.0	0.8	1.8	1.1	0.0
Invasive pneumococcal disease ⁴	Cases	1	2	7	13	6	1	4	1	0	1	0	4	2	2	0	0	0	5	1	2	2
	Rate	18.6	11.2	12.2	19.1	20.3	28.5	24.1	19.5	16.6	20.8	20.6	12.1	20.3	10.4	22.5	10.2	0.0	9.0	7.2	15.9	14.3
Lead absorption	Cases	0	1	1	1	1	0	0	1	0	0	2	2	2	3	1	0	0	3	0	2	0
	Rate	2.6	5.9	11.5	9.8	5.0	7.9	3.4	15.2	2.8	3.2	9.5	7.8	11.2	4.9	7.5	7.3	0.0	6.2	18.0	10.6	7.2
Legionellosis	Cases	2	1	4	5	0	0	0	0	0	1	0	0	1	0	0	0	0	3	1	0	0
	Rate	8.3	2.8	3.2	2.3	0.6	0.0	2.9	2.2	0.0	3.2	0.0	1.2	1.4	0.7	2.5	0.7	12.3	3.8	3.6	1.1	1.8
Leptospirosis	Cases	1	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.2	0.2	0.2	0.2	6.9	2.9	2.4	0.0	4.6	4.5	6.3	7.2	0.0	0.3	0.0	2.9	12.3	2.0	1.8	0.0	5.4
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Rate	0.0	0.8	1.4	0.8	1.4	0.0	1.4	6.5	0.9	0.0	0.0	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0
Malaria	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.3	2.3	2.7	0.8	0.0	1.4	0.0	0.9	0.6	0.0	0.0	0.0	1.0	2.5	1.5	0.0	0.8	0.0	0.0	0.9
Measles	Cases	4	1	1	0	0	1	1	0	2	0	0	1	0	3	1	2	0	0	0	0	0
	Rate	24.4	2.3	2.0	0.6	0.3	1.0	1.0	0.0	1.8	0.6	1.6	1.2	0.0	1.4	2.5	2.2	21.5	33.3	1.8	2.1	1.8
Meningococcal disease ⁵	Cases	1	2	0	2	1	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	3.9	1.5	2.7	4.4	2.8	2.9	4.3	13.0	3.7	4.5	1.6	5.4	4.9	3.5	2.5	0.0	3.1	2.6	0.0	2.7	2.7
Mumps	Cases	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.3	1.4	1.9	1.4	1.0	1.0	0.0	3.7	0.6	0.0	0.0	0.7	2.8	5.0	1.5	3.1	2.8	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	115.6	60.4	83.5	65.2	50.3	49.1	50.5	108.2	30.5	113.1	112.4	47.6	149.3	179.1	135.1	58.5	199.4	119.3	138.6	42.4	41.1
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	0.8	0.5	0.0	0.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Pertussis	Cases	0	4	3	1	5	0	0	0	5	1	0	0	4	2	0	2	1	21	0	2	3
	Rate	8.3	22.7	14.0	14.1	64.7	20.6	28.4	28.1	53.6	17.5	14.3	25.3	45.6	42.3	27.5	30.7	33.8	53.6	48.6	9.6	21.5
Rheumatic fever	Cases	2	0	0	5	3	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0
	Rate	10.3	1.7	2.5	9.5	5.8	2.9	1.4	26.0	0.0	3.9	0.0	0.6	2.1	2.1	0.0	0.0	0.0	0.0	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	0.4	0.0	0.2	0.8	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.0	0.0	0.0	0.0	0.5	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
Salmonellosis	Cases	2	7	9	7	8	1	5	0	1	4	1	1	1	7	1	2	2	12	5	8	4
	Rate	21.8	14.6	21.8	15.4	27.2	17.7	17.3	36.8	17.6	29.2	14.3	19.9	21.7	20.5	37.5	31.4	30.7	30.1	55.8	47.8	38.5
Shigellosis	Cases	1	2	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	3.0	3.4	5.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.6	2.1	2.1	0.0	1.5	3.1	1.6	1.8	3.2	1.8
Tuberculosis disease	Cases	0	2	5	5	1	0	1	0	1	2	0	1	1	3	0	1	0	2	1	1	0
	Rate	4.5	8.9	12.6	14.9	4.2	3.9	6.3	15.2	0.9	7.8	3.2	4.2	8.4	6.9	0.0	3.7	6.1	4.6	9.0	1.1	0.9
Typhoid fever	Cases	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	Rate	0.0	0.9	2.3	1.5	0.6	0.0	1.0	0.0	0.												

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including April 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 April 2010

		Cases ¹ and current rate ² for April 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	14	56	55	44	42	8	18	1	17	19	7	13	24	42	6	16	3	67	13	31	14
	Rate	123.3	174.5	173.4	140.5	186.7	188.6	157.9	93.1	247.6	238.5	237.5	148.3	271.2	247.1	207.7	133.8	171.8	136.5	192.6	150.7	147.6
Cryptosporidiosis	Cases	1	14	14	3	5	0	0	0	0	3	0	0	1	4	0	11	0	31	0	1	3
	Rate	25.0	16.7	14.0	9.8	33.3	11.8	8.7	15.2	22.2	23.4	14.3	13.9	11.2	43.0	27.5	27.8	67.5	41.2	50.4	18.0	25.9
Dengue fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	1.9	2.5	3.2	2.5	1.7	1.0	1.0	0.0	0.9	0.6	0.0	0.6	1.4	3.8	0.0	0.0	0.0	1.2	0.0	0.5	0.0
Gastroenteritis	Cases	0	9	8	3	0	0	4	0	2	0	0	3	1	5	0	0	0	4	0	1	0
	Rate	1.9	17.8	23.9	7.5	6.4	11.8	3.9	0.0	2.8	7.1	22.2	45.2	32.2	28.5	5.0	5.8	276.2	8.4	3.6	8.5	1.8
Giardiasis	Cases	1	31	26	20	18	6	9	1	6	6	8	4	7	8	4	8	1	16	2	3	3
	Rate	36.0	39.0	54.7	41.5	46.7	59.9	34.2	19.5	47.1	46.8	47.5	15.7	32.2	59.7	37.5	35.8	46.0	42.6	18.0	28.7	28.6
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	0
	Rate	0.0	0.4	0.0	0.4	1.1	0.0	0.0	0.0	0.0	0.0	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	1	3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	1	0
	Rate	0.0	0.9	2.7	1.2	1.7	1.0	1.0	0.0	0.0	2.6	0.0	3.0	2.1	0.7	0.0	0.0	0.0	1.4	0.0	0.5	0.9
Hepatitis B	Cases	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
	Rate	1.9	1.1	2.3	1.7	0.3	2.0	1.9	4.3	0.9	1.3	1.6	1.2	0.0	1.4	7.5	2.2	6.1	0.8	0.0	1.1	0.9
Hepatitis C	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.0	0.2	0.6	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.6	1.4	0.7	5.0	0.0	0.0	0.8	1.8	1.1	0.0
Invasive pneumococcal disease ⁴	Cases	1	2	7	13	6	1	4	1	0	1	0	4	2	2	0	0	0	5	1	2	2
	Rate	18.6	11.2	12.2	19.1	20.3	28.5	24.1	19.5	16.6	20.8	20.6	12.1	20.3	10.4	22.5	10.2	0.0	9.0	7.2	15.9	14.3
Lead absorption	Cases	0	1	1	1	1	0	0	1	0	0	2	2	2	3	1	0	0	3	0	2	0
	Rate	2.6	5.9	11.5	9.8	5.0	7.9	3.4	15.2	2.8	3.2	9.5	7.8	11.2	4.9	7.5	7.3	0.0	6.2	18.0	10.6	7.2
Legionellosis	Cases	2	1	4	5	0	0	0	0	0	1	0	0	1	0	0	0	0	3	1	0	0
	Rate	8.3	2.8	3.2	2.3	0.6	0.0	2.9	2.2	0.0	3.2	0.0	1.2	1.4	0.7	2.5	0.7	12.3	3.8	3.6	1.1	1.8
Leptospirosis	Cases	1	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.2	0.2	0.2	0.2	6.9	2.9	2.4	0.0	4.6	4.5	6.3	7.2	0.0	0.3	0.0	2.9	12.3	2.0	1.8	0.0	5.4
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Rate	0.0	0.8	1.4	0.8	1.4	0.0	1.4	6.5	0.9	0.0	0.0	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0
Malaria	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.3	2.3	2.7	0.8	0.0	1.4	0.0	0.9	0.6	0.0	0.0	0.0	1.0	2.5	1.5	0.0	0.8	0.0	0.0	0.9
Measles	Cases	4	1	1	0	0	1	1	0	2	0	0	1	0	3	1	2	0	0	0	0	0
	Rate	24.4	2.3	2.0	0.6	0.3	1.0	1.0	0.0	1.8	0.6	1.6	1.2	0.0	1.4	2.5	2.2	21.5	33.3	1.8	2.1	1.8
Meningococcal disease ⁵	Cases	1	2	0	2	1	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	3.9	1.5	2.7	4.4	2.8	2.9	4.3	13.0	3.7	4.5	1.6	5.4	4.9	3.5	2.5	0.0	3.1	2.6	0.0	2.7	2.7
Mumps	Cases	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.3	1.4	1.9	1.4	1.0	1.0	0.0	3.7	0.6	0.0	0.0	0.7	2.8	5.0	1.5	3.1	2.8	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	115.6	60.4	83.5	65.2	50.3	49.1	50.5	108.2	30.5	113.1	112.4	47.6	149.3	179.1	135.1	58.5	199.4	119.3	138.6	42.4	41.1
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	0.8	0.5	0.0	0.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Pertussis	Cases	0	4	3	1	5	0	0	0	5	1	0	0	4	2	0	2	1	21	0	2	3
	Rate	8.3	22.7	14.0	14.1	64.7	20.6	28.4	28.1	53.6	17.5	14.3	25.3	45.6	42.3	27.5	30.7	33.8	53.6	48.6	9.6	21.5
Rheumatic fever	Cases	2	0	0	5	3	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0
	Rate	10.3	1.7	2.5	9.5	5.8	2.9	1.4	26.0	0.0	3.9	0.0	0.6	2.1	2.1	0.0	0.0	0.0	0.0	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	0.4	0.0	0.2	0.8	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.0	0.0	0.0	0.0	0.5	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
Salmonellosis	Cases	2	7	9	7	8	1	5	0	1	4	1	1	1	7	1	2	2	12	5	8	4
	Rate	21.8	14.6	21.8	15.4	27.2	17.7	17.3	36.8	17.6	29.2	14.3	19.9	21.7	20.5	37.5	31.4	30.7	30.1	55.8	47.8	38.5
Shigellosis	Cases	1	2	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	3.0	3.4	5.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.6	2.1	2.1	0.0	1.5	3.1	1.6	1.8	3.2	1.8
Tuberculosis disease	Cases	0	2	5	5	1	0	1	0	1	2	0	1	1	3	0	1	0	2	1	1	0
	Rate	4.5	8.9	12.6	14.9	4.2	3.9	6.3	15.2	0.9	7.8	3.2	4.2	8.4	6.9	0.0	3.7	6.1	4.6	9.0	1.1	0.9
Typhoid fever	Cases	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	Rate	0.0	0.9	2.3	1.5	0.6	0.0	1.0	0.0	0.												

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including April 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 April-2010 by District Health Board

Disease	Cases for the 12 months ending April 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	7489	192	922	770	677	672	192	328	43	268	367	150	246	387	712	83	183	56	685	107	284	165
Cryptosporidiosis	994	39	88	62	47	120	12	18	7	24	36	9	23	16	124	11	38	22	207	28	34	29
Dengue fever	74	3	13	14	12	6	1	2	0	1	1	0	1	2	11	0	0	0	6	0	1	0
Gastroenteritis	675	3	94	106	36	23	12	8	0	3	11	14	75	46	82	2	8	90	42	2	16	2
Giardiasis	1800	56	206	243	200	168	61	71	9	51	72	30	26	46	172	15	49	15	214	10	54	32
Haemophilus influenzae type b	11	0	2	0	2	4	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
Hazardous substances injury	14	1	4	2	0	0	0	0	0	0	5	0	1	0	1	0	0	0	0	0	0	0
Hepatitis A	55	0	5	12	6	6	1	2	0	0	4	0	5	3	2	0	0	0	7	0	1	1
Hepatitis B	61	3	6	10	8	1	2	4	2	1	2	1	2	0	4	3	3	2	4	0	2	1
Hepatitis C	23	1	0	1	3	0	0	0	0	4	0	0	1	2	2	2	0	0	4	1	2	0
Invasive pneumococcal disease ⁴	655	29	59	54	92	73	29	50	9	18	32	13	20	29	30	9	14	0	45	4	30	16
Lead absorption	312	4	31	51	47	18	8	7	7	3	5	6	13	16	14	3	10	0	31	10	20	8
Legionellosis	104	13	15	14	11	2	0	6	1	0	5	0	2	2	2	1	1	4	19	2	2	2
Leptospirosis	95	5	1	1	1	25	3	5	0	5	7	4	12	0	1	0	4	4	10	1	0	6
Listeriosis	33	0	4	6	4	5	0	3	3	1	0	0	2	1	0	0	0	0	0	0	4	0
Malaria	49	0	7	10	13	3	0	3	0	1	1	0	0	0	3	1	2	0	4	0	0	1
Measles	261	38	12	9	3	1	1	2	0	2	1	1	2	0	4	1	3	7	167	1	4	2
Meningococcal disease ⁵	136	6	8	12	21	10	3	9	6	4	7	1	9	7	10	1	0	1	13	0	5	3
Mumps	70	3	7	6	9	5	1	2	0	4	1	0	0	1	8	2	2	1	14	1	3	0
Non seasonal influenza A (H1N1) ⁶	3657	180	319	371	314	181	50	105	50	33	174	71	79	213	516	54	80	65	599	77	80	46
Paratyphoid fever	17	0	4	2	0	2	2	0	0	0	0	0	0	1	4	0	0	0	2	0	0	0
Pertussis	1314	13	120	62	68	233	21	59	13	58	27	9	42	65	122	11	42	11	269	27	18	24
Rheumatic fever	137	16	9	11	46	21	3	3	12	0	6	0	1	3	6	0	0	0	0	0	0	0
Rickettsial disease	7	1	2	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	3	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Salmonellosis	1030	34	77	97	74	98	18	36	17	19	45	9	33	31	59	15	43	10	151	31	90	43
Shigellosis	99	3	16	15	24	7	0	4	0	0	0	0	1	3	6	0	2	1	8	1	6	2
Tuberculosis disease	313	7	47	56	72	15	4	13	7	1	12	2	7	12	20	0	5	2	23	5	2	1
Typhoid fever	29	0	5	10	7	2	0	2	0	0	0	0	0	0	1	0	0	0	2	0	0	0
VTEC/STEC infection	124	4	8	8	7	20	4	12	1	11	6	1	2	0	4	1	3	0	23	2	4	3
Yersiniosis	370	7	52	55	30	22	9	6	3	7	15	4	6	22	43	1	3	12	47	8	16	2
Total	20011	661	2144	2070	1835	1746	437	761	190	519	842	326	612	908	1964	216	495	303	2597	318	678	389

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 April 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	April 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	April 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	510	2629	173.5	423	2315	160.5
Cryptosporidiosis	91	325	23.0	51	185	19.4
Dengue fever	2	13	1.7	9	78	3.5
Gastroenteritis ³	40	161	15.6	58	199	15.5
Giardiasis	188	743	41.7	111	581	39.3
Haemophilus influenzae type b	0	5	0.3	3	4	0.2
Hazardous substances injury	1	4	0.3	0	1	0.2
Hepatitis A	9	22	1.3	2	11	1.8
Hepatitis B ⁴	5	19	1.4	1	13	0.8
Hepatitis C ⁴	1	4	0.5	2	13	0.7
Invasive pneumococcal disease ⁵	54	126	15.2	47	168	6.9
Lead absorption	20	67	7.2	31	123	8.3
Legionellosis	18	61	2.4	4	33	2.0
Leptospirosis	7	43	2.2	3	17	2.4
Listeriosis	2	13	0.8	2	8	0.6
Malaria	2	20	1.1	3	21	1.2
Measles	17	48	6.0	8	35	1.1
Meningococcal disease ⁶	11	33	3.2	8	30	2.9
Mumps	4	25	1.6	13	18	1.4
Non seasonal influenza A (H1N1) ⁷	2	6	84.7	17	17	0.4
Paratyphoid fever	0	4	0.4	3	12	0.6
Pertussis	54	348	30.4	97	432	17.9
Rheumatic fever	13	43	3.2	17	46	3.7
Rickettsial disease	0	2	0.2	0	0	0.2
Rubella	1	1	0.1	2	2	0.2
Salmonellosis	88	424	23.9	83	522	29.4
Shigellosis	8	33	2.3	11	53	3.2
Tuberculosis disease	27	114	7.3	24	103	7.1
Typhoid fever	4	17	0.7	3	22	0.9
VTEC/STEC infection	14	56	2.9	7	75	3.2
Yersiniosis	20	132	8.6	31	193	11.1

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including April 2010) or the previous year (12 months up to and including April 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 April: Hepatitis NOS (1) , Leprosy (1) , Ross River virus infection (3)