

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 11 January 2010. 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

- *Brucellosis*: One brucellosis case still under investigation was notified in December 2009 from Bay of Plenty DHB. An alternative diagnosis is considered more likely; however, laboratory results are pending.
- *Cryptosporidiosis*: 47 cryptosporidiosis cases were notified in December 2009 compared to 36 cases during the same month of the previous year (Figure 1). The cases ranged in age from <1 year to 70+ years, with the highest number of cases in the 1-4 years age group (14 cases). No cases were hospitalised. Among the cases where risk factor information was recorded, 61.5% (8/13) had faecal contact, 47.4% (9/19) attended school, 35.7% (5/14) had contact with a symptomatic person, 35.7% (5/14) had recreational water contact, 23.1% (3/13) consumed untreated water, 21.4% (3/14) had contact with a sick animal, 21.4% (3/14) had consumed food from a food premise, 20.0% (3/15) had contact with farm animals and 6.3% (1/16) were overseas during the incubation period. *Cryptosporidium parvum* oocysts were detected in faecal specimens for 95.7% (45/47) of the cases.
- *Hydatid disease*: One probable case of hydatid disease from Auckland DHB was notified in December 2009. The case was born in Taiwan and has had farm exposure in New Zealand. This case is still under investigation. A second case from Auckland DHB has since been de-notified upon further investigation.
- *Leptospirosis*: 22 cases of leptospirosis (15 confirmed, 1 probable, and 6 under investigation) were notified in December 2009 compared with seven in the preceding month and 13 in the same month of the previous year (Figure 2). The highest number of cases was reported from Waikato DHB (7 cases), followed by Canterbury DHB (5 cases). Of the 15 cases with an occupation recorded, seven (46.7%) were farmers or farm workers, two (13.3%) worked in the meat processing industry, and there was one of each of the following: electrician, homemaker (on lifestyle block with cows), park ranger, stock agent,

truck driver and veterinary nurse. The *Leptospira* serovar was available for 11 of the 22 notified cases: *L. Hardjo* (8 cases), *L. Ballum* (1 case), *L. Pomona* (1 case) and *L. Tarassovi* (1 case).

- *Measles*: Eight cases of measles (5 confirmed, 2 probable, and 1 under investigation) were notified in December 2009 compared with nine in the preceding month and zero in the same month of the previous year. There were five laboratory confirmed cases. The highest number of cases was reported from Auckland and West Coast DHBs (3 cases each), followed by Canterbury DHB (2 cases). No cases were hospitalised.
- *Meningococcal disease*: Based on the earliest date available¹, eight cases (7 laboratory-confirmed) of meningococcal disease were notified during December 2009. In comparison, five cases were notified in the previous month, November 2009, and eight cases were notified during the same month last year, December 2008. For the 12-month period ending 31 December 2009, Tairāwhiti DHB recorded the highest incidence rate (13.0 per 100 000 population, 6 cases), followed by MidCentral (6.0 per 100 000 population, 10 cases) and Lakes DHB (4.9 per 100 000 population, 5 cases). The age-specific incidence rate was highest in the less than 1 year age group (42.8 per 100 000 population, 27 cases), followed by those in the 1-4 years age group (14.4 per 100 000 population).
- *Non-seasonal influenza*: In New Zealand, non seasonal influenza became notifiable on 29 April 2009. Fourteen cases of non-seasonal influenza A (H1N1) were notified in December 2009 (all laboratory-confirmed) compared with eight in the preceding month. Four cases were hospitalised. The highest number of cases was reported by Capital and Coast DHB (6), followed by Counties Manukau and Canterbury DHBs (2 cases each). For the latest information on the non seasonal influenza A (H1N1) situation in New Zealand see <http://www.moh.govt.nz/influenza-a-h1n1>.
- *Pertussis*: 144 cases of pertussis were notified in December 2009, compared to 142 notifications in the preceding month and 65 notifications in the same month of the previous year. There were 49 (34.0%) laboratory-confirmed cases. The highest numbers of cases were reported by Canterbury DHB (29), followed by Waikato (28) and Capital and Coast (18) DHBs. For the 12-month period ending 31 December 2009, the highest incidence rates were reported from West Coast (89.0 per 100 000 population, 29 cases) and Nelson Marlborough (67.3 per 100 000 population, 92 cases) DHBs compared to a national rate of 32.4 per 100 000 population. The current 12-month rate by age group was highest amongst infants aged less than one year (183.9 per 100 000 population, 116 cases), followed by children in the 1-4 years age group (58.6 per 100 000 population, 142 cases). Further analysis of pertussis notifications is available in the Pertussis Report which is updated fortnightly and available from <http://www.surv.esr.cri.nz/surveillance/PertussisRpt.php>.
- *Toxic shellfish poisoning*: Two cases of toxic shellfish poisoning were notified during December 2009. One case of paralytic shellfish poisoning (still under investigation) was notified. The 60-69 year old male from Bay of Plenty DHB ate steamed Tuatuas that were originally collected from Motiti Reserve. The case was hospitalised. One case of diarrhoeic shellfish poisoning was notified from Canterbury DHB. Upon further investigation the case has since been de-notified.

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.

- *Tuberculosis disease:* 37 cases of tuberculosis disease were notified in December, all of these were cases of new tuberculosis disease (100.0%). Twenty two cases were laboratory confirmed. The highest number of cases was reported from Counties Manukau DHB (9 cases), followed by Auckland DHB (6 cases). Of the 27 (73.0%) cases for which place of birth was recorded, 17 (63.0%) were born outside New Zealand. Cases were distributed by age as follows: 1-4 years (4 cases), 5-14 years (2 cases), 15-24 years (2 cases), 25-44 years (16 cases) and 65 years or greater (4 cases). *Mycobacterium tuberculosis* was isolated for 16 cases and the organism for the remaining six laboratory confirmed cases was unknown.

2. Outbreaks

Completed outbreak reports: 19 outbreak reports were entered into EpiSurv and completed during December 2009 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during December 2009

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Wellington	2	7
<i>Campylobacter</i>	Manawatu	1	8
<i>Cryptosporidium</i>	Auckland	2	17
Gastroenteritis	Hawke's Bay, Hutt, Canterbury, Otago	4	64
<i>Giardia</i>	Auckland	4	11
Norovirus	Waikato, Canterbury, South Canterbury, Otago	5	42
Rotavirus	Manawatu	1	47
Total		19	196

Interim outbreak reports: 37 interim outbreaks have been reported in December 2009. 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 2009

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Wellington	1	7
Carbon monoxide poisoning	Waikato	1	2
Ciguatera fish poisoning	Hutt	1	6
<i>Cryptosporidium</i>	Auckland	1	3
Gastroenteritis	Northland, Auckland, Waikato, Tauranga, Rotorua, Manawatu, Wellington, Otago	26	119
Influenza A virus	Wellington	1	3
<i>Mycobacterium tuberculosis</i>	Gisborne	1	4
Norovirus	Waikato, Tauranga, Otago, Southland	4	29
Rotavirus	Wellington	1	0
Total		37	173

3. Deaths from notifiable diseases

Four deaths were reported for the month of December from chemical poisoning from the environment, invasive pneumococcal disease, meningococcal disease and tuberculosis disease – new case (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during December 2009

Disease	District Health Board	Age group
Chemical poisoning from the environment	Waikato	70+
Invasive pneumococcal disease	Auckland	70+
Meningococcal disease	Taranaki	15-19
Tuberculosis disease – new case	Counties Manukau	70+

4. Trends in selected diseases to December 2009

Figure 1: Cryptosporidiosis notifications by month by year, January 2004 – December 2009

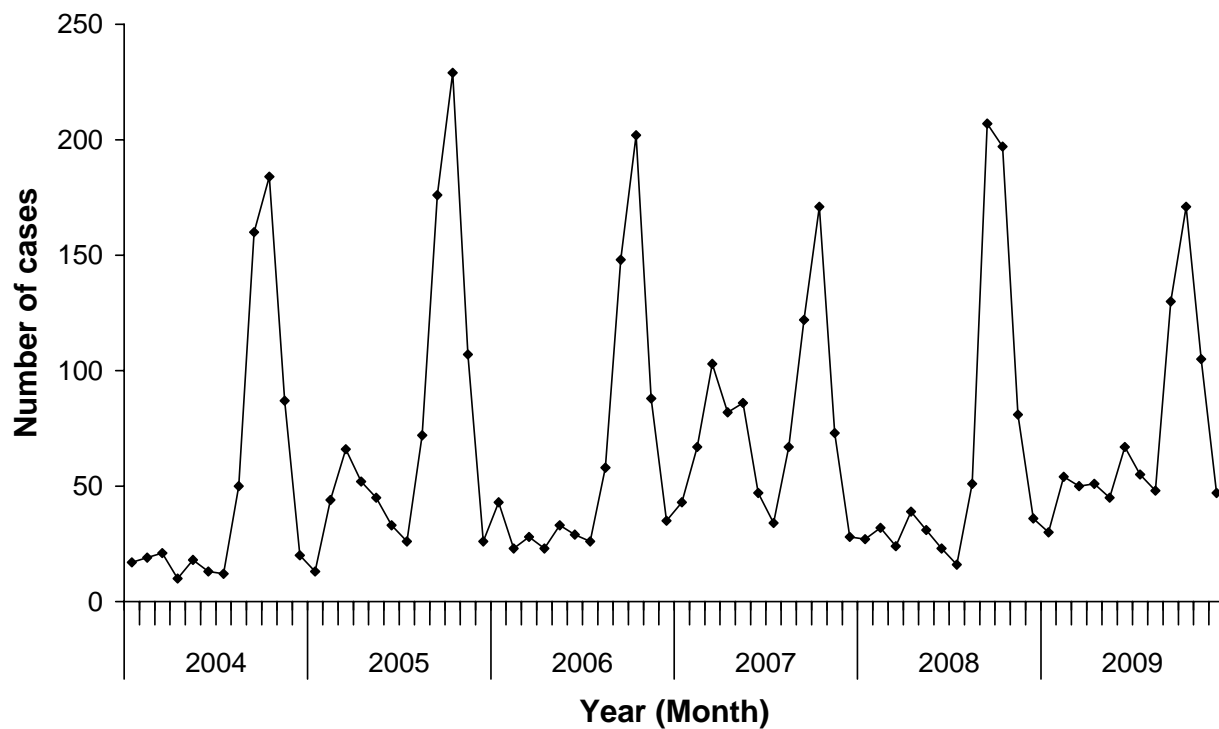
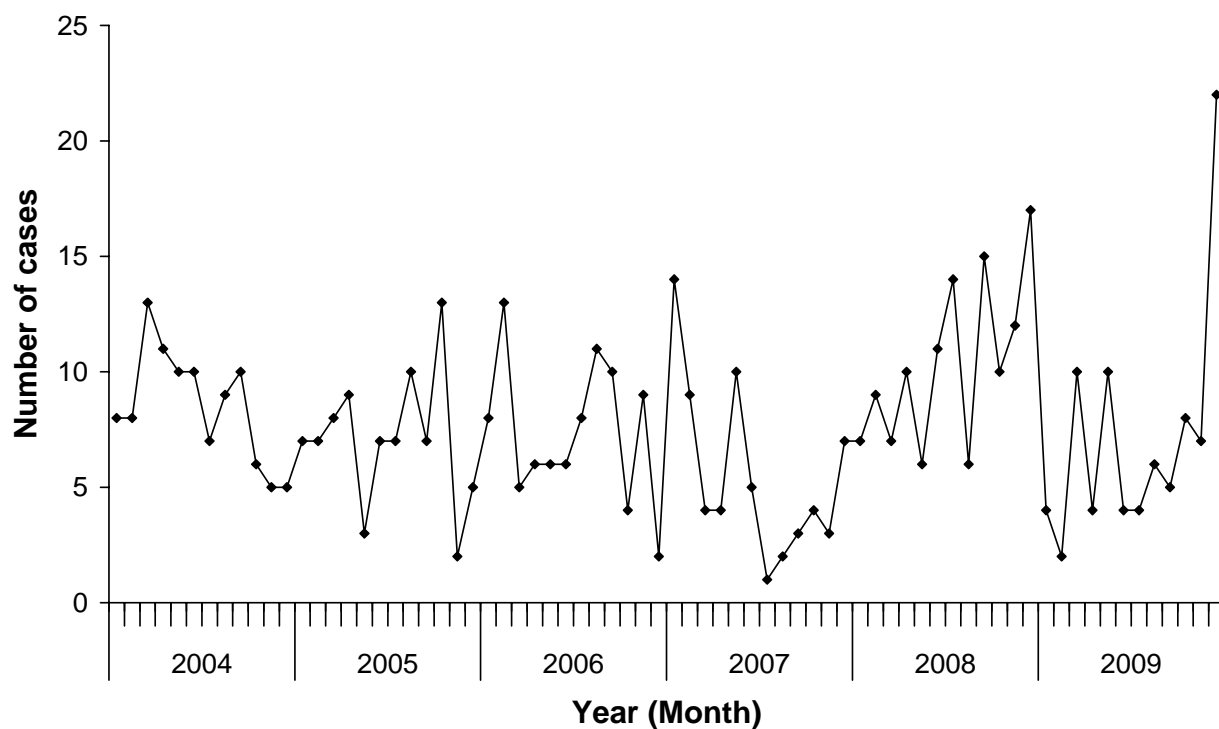


Figure 2: Leptospirosis notifications by month by year, January 2004 – December 2009



5. Data Tables

National Notifiable Disease Surveillance Data December 2009

Disease	Current Year - 2009 ¹			Previous Year - 2008		
	December 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	December 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	886	7173	166.2	931	6694	156.8
Cryptosporidiosis	47	853	19.8	36	764	17.9
Dengue fever	4	141	3.3	8	113	2.6
Gastroenteritis ³	42	714	16.5	77	687	16.1
Giardiasis	130	1640	38.0	148	1660	38.9
Haemophilus influenzae type b	1	11	0.3	0	9	0.2
Hazardous substances injury	0	11	0.3	0	7	0.2
Hepatitis A	2	44	1.0	5	89	2.1
Hepatitis B ⁴	3	57	1.3	2	38	0.9
Hepatitis C ⁴	1	31	0.7	2	23	0.5
Invasive pneumococcal disease ⁵	38	706	16.4	49	127	3.0
Lead absorption	19	368	8.5	42	317	7.4
Legionellosis	12	84	1.9	9	73	1.7
Leptospirosis	22	86	2.0	13	118	2.8
Listeriosis	1	28	0.6	3	27	0.6
Malaria	2	50	1.2	3	40	0.9
Measles	8	259	6.0	0	12	0.3
Meningococcal disease ⁶	8	133	3.1	7	122	2.9
Mumps	9	66	1.5	4	76	1.8
Non seasonal influenza A (H1N1) ⁷	14	3668	85.0	0	0	0.0
Paratyphoid fever	1	24	0.6	2	25	0.6
Pertussis	144	1397	32.4	65	417	9.8
Rheumatic fever	7	140	3.2	9	153	3.6
Rickettsial disease	0	6	0.1	0	10	0.2
Rubella	0	4	0.1	1	9	0.2
Salmonellosis	89	1130	26.2	129	1345	31.5
Shigellosis	4	120	2.8	11	113	2.6
Tuberculosis disease	37	316	7.3	18	296	6.9
Typhoid fever	1	35	0.8	2	29	0.7
VTEC/STEC infection	8	144	3.3	10	124	2.9
Yersiniosis	43	435	10.1	43	509	11.9

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including December 2009) or the previous year (12 months up to and including December 2008), 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: Brucellosis (1) , Chemical poisoning from the environment (3) , Diarrhoeic shellfish poisoning (1) , Hydatid disease (1) , Paralytic shellfish poisoning (1) , Ross River virus infection (1)

Notifiable Disease Surveillance Data by District Health Board December 2009

		Cases ¹ and current rate ² for December 2009 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	19	122	73	90	93	33	26	3	29	46	16	34	31	86	16	15	8	84	7	40	15
	Rate	134.2	172.8	182.4	142.2	183.6	202.4	152.6	67.1	215.3	218.3	218.5	142.9	248.8	240.2	175.1	126.5	128.9	108.6	185.4	133.7	147.6
Cryptosporidiosis	Cases	3	4	7	3	4	1	1	2	4	3	1	0	1	2	0	0	1	9	1	0	0
	Rate	23.8	14.0	12.6	10.6	30.3	12.8	13.0	19.5	22.2	23.4	14.3	17.5	13.3	44.8	32.5	17.5	55.2	19.3	50.4	14.9	20.6
Dengue fever	Cases	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	2.6	3.2	6.8	7.9	1.7	2.0	1.9	4.3	0.9	2.6	3.2	2.4	1.4	4.9	2.5	0.0	3.1	1.4	0.0	0.5	0.9
Gastroenteritis	Cases	0	4	6	3	0	1	1	0	0	0	2	4	6	6	0	0	0	7	0	2	0
	Rate	2.6	15.3	22.1	9.1	6.4	12.8	2.4	0.0	0.0	7.1	25.3	65.1	36.4	30.5	5.0	8.0	276.2	10.4	7.2	4.8	2.7
Giardiasis	Cases	6	10	24	15	8	6	6	1	1	3	1	1	4	6	2	4	1	25	1	4	1
	Rate	41.1	29.3	47.7	41.9	41.1	63.9	30.3	23.8	41.6	42.9	33.3	10.8	24.5	58.0	30.0	35.1	39.9	37.9	18.0	28.1	37.6
Haemophilus influenzae type b	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.0	0.2	0.8	0.0	0.5	0.0	0.0	0.0	0.0	0.6	0.7	0.0	0.0	0.0	0.0	0.0	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	0.6	0.4	0.2	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	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	Rate	0.6	0.6	2.0	1.2	0.8	1.0	1.0	0.0	0.0	2.6	0.0	1.2	2.1	1.0	0.0	0.0	0.0	1.2	0.0	0.0	0.9
Hepatitis B	Cases	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
	Rate	1.9	1.1	2.9	1.7	0.3	1.0	1.9	2.2	0.9	0.6	1.6	1.8	0.0	0.7	5.0	1.5	6.1	1.0	0.0	0.5	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.6	0.2	0.9	0.4	0.0	0.0	0.0	0.0	4.6	0.0	0.0	1.2	1.4	0.7	5.0	0.0	0.0	1.6	1.8	0.5	0.0
HbA1c ≥ 6.5% diabetes mellitus	Cases	4	3	2	4	5	1	3	1	0	2	1	0	2	2	2	0	0	4	0	2	0
	Rate	20.5	12.1	11.7	18.9	23.3	29.5	23.1	21.6	18.5	23.4	19.0	10.2	21.0	10.4	30.0	16.1	0.0	11.6	10.8	17.0	17.9
Lead absorption	Cases	0	7	4	0	0	0	0	1	0	0	0	0	0	0	0	1	0	4	0	2	0
	Rate	2.6	7.8	19.1	10.8	6.4	8.8	4.3	15.2	4.6	3.9	11.1	7.8	10.5	4.2	7.5	7.3	0.0	6.0	9.0	12.2	8.0
Legionellosis	Cases	2	1	1	0	0	0	2	0	0	2	0	0	0	0	0	0	1	3	0	0	0
	Rate	1.3	2.8	2.0	2.3	0.3	1.0	4.3	0.0	0.9	3.2	0.0	0.6	0.7	0.7	5.0	1.5	9.2	2.8	1.8	1.6	0.9
Leptospirosis	Cases	0	0	0	0	7	0	2	0	1	1	0	1	0	0	0	0	3	5	1	1	0
	Rate	4.5	0.2	0.5	0.2	4.4	2.0	4.8	0.0	3.7	3.9	4.8	3.6	0.0	0.3	2.5	1.5	15.3	2.4	3.6	0.5	3.6
Listeriosis	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.8	0.9	0.4	1.1	0.0	0.5	4.3	0.9	0.0	1.6	1.2	0.7	0.3	0.0	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.3	1.4	3.9	0.8	0.0	1.0	0.0	0.9	0.6	0.0	0.0	0.0	1.0	2.5	1.5	6.1	0.6	0.0	0.0	0.0
Measles	Cases	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0
	Rate	3.2	2.8	2.0	0.6	0.3	0.0	1.0	0.0	0.0	1.9	1.6	0.6	0.0	0.3	0.0	0.7	24.5	33.9	3.6	18.6	1.8
Meningococcal infection	Cases	0	0	0	0	0	0	2	0	2	0	0	1	0	0	0	0	0	2	0	0	1
	Rate	3.9	1.1	2.5	3.9	2.5	4.9	4.3	15.2	2.8	4.5	1.6	6.0	4.2	3.8	2.5	0.0	3.1	2.4	0.0	2.7	3.6
Mumps	Cases	0	1	1	1	1	0	0	0	1	0	0	0	0	1	0	1	0	1	1	0	0
	Rate	1.9	0.9	1.1	1.0	1.9	1.0	2.4	0.0	1.8	0.6	0.0	0.0	2.1	2.8	5.0	0.7	3.1	2.8	5.4	0.0	0.0
Non-communicable diseases	Cases	1	0	1	2	1	0	0	0	0	0	0	0	0	6	0	1	0	2	0	0	0
	Rate	115.6	63.0	83.8	64.8	50.0	49.1	50.5	108.2	30.5	113.1	112.4	47.6	149.3	178.8	135.1	58.5	199.4	119.5	136.8	42.4	41.1
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	0.9	0.4	0.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.7	2.5	0.0	0.0	0.6	0.0	0.0	0.0
Pertussis	Cases	4	15	6	8	28	1	6	2	7	2	0	2	4	18	0	6	1	29	2	1	2
	Rate	12.8	22.5	14.9	15.6	64.7	30.5	30.3	28.1	38.8	18.2	9.5	16.3	37.1	36.1	17.5	67.3	89.0	63.0	48.6	9.6	25.0
Rheumatic fever	Cases	2	0	1	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	10.3	1.5	2.9	8.5	6.1	2.9	2.4	21.6	0.9	3.2	0.0	0.6	4.2	2.4	0.0	0.7	0.0	0.2	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	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	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	0.2	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	0.2	0.0	0.0	0.0
Salmonellosis	Cases	4	3	10	8	12	2	2	0	3	1	0	1	0	6	2	4	1	17	3	7	3
	Rate	20.5	16.7	24.1	20.8	28.9	26.5	19.7	69.3	18.5	37.7	19.0	18.7	24.5	20.5	47.5	29.2	30.7	29.7	61.2	40.9	49.2
Shigellosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1
	Rate	1.9	4.4	4.3	5.4	1.9	1.0	1.9	2.2	0.0	0.6	0.0	0.6	2.8	2.8	2.5	1.5	3.1	2.0	1.8	2.1	2.7
Tuberculosis disease	Cases	1	5	6	9	1	1	1	5	0	1	0	2	0	1	0	2	1	1	0	0	0
	Rate	5.1	9.3	14.4	13.7	5.0	6.9	5.8	13.0	0.0	5.2	1.6	3.6	7.7	6.9	0.0	7.3	6.1	4.4	3.6	1.1	1.8
Typhoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.9	1.8	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	0	0	0	1	1	2	0	2	0	0	0	0	0	1	0	0	0	0	0	1
	Rate	3.9	1.7	4.1	1.7	7.8	4.9	4.3	10.8	12.9	2.6	0.0	1.8	1.4	1.7	2.5	1.5	3.1	3.2	3.6	2.1	1.8
Yersiniosis	Cases	1	3	5	8	4	1	0	1	0	2	0	0	3	3	0	0	0	6	3	3	0
	Rate	7.1	9.7	15.5	7.1	7.8	9.8	2.9	6.5	13.9	9.7	4.8	2.4	17.5	14.6	2.5	2.2	36.8	13.7	19.8	10.1	3.6

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including December 2009 expressed as cases per 100 000

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

‘b] Uglj`Y`dbYi a cVc`VVU`X]gYUgY`VYWUa`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`c`Vh`c`VYf`&\$\$,
`H`YgY`h`U`g`UbX`f`UH`g`UFY`XYfj]`YX`Zfca`h`Y`9d]G`fj`fYdcfhXUH`Ug`cddcgYX`h`h`Y`YUf`Y]gh`Uj`Uj]UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`c`Vc`VVU`X]gYUgY`gYVh]cb`c`Z`h`jg`fYdcfh
`Bcb]gYUgcbU`]bZi`YbnU`f`WUdUV`Y`c`Z`h`f`Ubga`]gg]cb`VYh`YYb`i`a`Ub`VY]b[`gk`VYWUa`Y`Ub`]bZVh]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5dfj`i`&\$-\$`-`"

Notifiable Disease Surveillance Data by District Health Board December 2009

		Cases ¹ and current rate ² for December 2009 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	19	122	73	90	93	33	26	3	29	46	16	34	31	86	16	15	8	84	7	40	15
	Rate	134.2	172.8	182.4	142.2	183.6	202.4	152.6	67.1	215.3	218.3	218.5	142.9	248.8	240.2	175.1	126.5	128.9	108.6	185.4	133.7	147.6
Cryptosporidiosis	Cases	3	4	7	3	4	1	1	2	4	3	1	0	1	2	0	0	1	9	1	0	0
	Rate	23.8	14.0	12.6	10.6	30.3	12.8	13.0	19.5	22.2	23.4	14.3	17.5	13.3	44.8	32.5	17.5	55.2	19.3	50.4	14.9	20.6
Dengue fever	Cases	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	2.6	3.2	6.8	7.9	1.7	2.0	1.9	4.3	0.9	2.6	3.2	2.4	1.4	4.9	2.5	0.0	3.1	1.4	0.0	0.5	0.9
Gastroenteritis	Cases	0	4	6	3	0	1	1	0	0	0	2	4	6	6	0	0	0	7	0	2	0
	Rate	2.6	15.3	22.1	9.1	6.4	12.8	2.4	0.0	0.0	7.1	25.3	65.1	36.4	30.5	5.0	8.0	276.2	10.4	7.2	4.8	2.7
Giardiasis	Cases	6	10	24	15	8	6	6	1	1	3	1	1	4	6	2	4	1	25	1	4	1
	Rate	41.1	29.3	47.7	41.9	41.1	63.9	30.3	23.8	41.6	42.9	33.3	10.8	24.5	58.0	30.0	35.1	39.9	37.9	18.0	28.1	37.6
Haemophilus influenzae type b	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.0	0.2	0.8	0.0	0.5	0.0	0.0	0.0	0.0	0.6	0.7	0.0	0.0	0.0	0.0	0.0	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	0.6	0.4	0.2	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	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	Rate	0.6	0.6	2.0	1.2	0.8	1.0	1.0	0.0	0.0	2.6	0.0	1.2	2.1	1.0	0.0	0.0	0.0	1.2	0.0	0.0	0.9
Hepatitis B	Cases	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
	Rate	1.9	1.1	2.9	1.7	0.3	1.0	1.9	2.2	0.9	0.6	1.6	1.8	0.0	0.7	5.0	1.5	6.1	1.0	0.0	0.5	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.6	0.2	0.9	0.4	0.0	0.0	0.0	0.0	4.6	0.0	0.0	1.2	1.4	0.7	5.0	0.0	0.0	1.6	1.8	0.5	0.0
HbA1c ≥ 6.5% diabetes mellitus	Cases	4	3	2	4	5	1	3	1	0	2	1	0	2	2	2	0	0	4	0	2	0
	Rate	20.5	12.1	11.7	18.9	23.3	29.5	23.1	21.6	18.5	23.4	19.0	10.2	21.0	10.4	30.0	16.1	0.0	11.6	10.8	17.0	17.9
Lead absorption	Cases	0	7	4	0	0	0	0	1	0	0	0	0	0	0	0	1	0	4	0	2	0
	Rate	2.6	7.8	19.1	10.8	6.4	8.8	4.3	15.2	4.6	3.9	11.1	7.8	10.5	4.2	7.5	7.3	0.0	6.0	9.0	12.2	8.0
Legionellosis	Cases	2	1	1	0	0	0	2	0	0	2	0	0	0	0	0	0	1	3	0	0	0
	Rate	1.3	2.8	2.0	2.3	0.3	1.0	4.3	0.0	0.9	3.2	0.0	0.6	0.7	0.7	5.0	1.5	9.2	2.8	1.8	1.6	0.9
Leptospirosis	Cases	0	0	0	0	7	0	2	0	1	1	0	1	0	0	0	0	3	5	1	1	0
	Rate	4.5	0.2	0.5	0.2	4.4	2.0	4.8	0.0	3.7	3.9	4.8	3.6	0.0	0.3	2.5	1.5	15.3	2.4	3.6	0.5	3.6
Listeriosis	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.8	0.9	0.4	1.1	0.0	0.5	4.3	0.9	0.0	1.6	1.2	0.7	0.3	0.0	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.3	1.4	3.9	0.8	0.0	1.0	0.0	0.9	0.6	0.0	0.0	0.0	1.0	2.5	1.5	6.1	0.6	0.0	0.0	0.0
Measles	Cases	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	0
	Rate	3.2	2.8	2.0	0.6	0.3	0.0	1.0	0.0	0.0	1.9	1.6	0.6	0.0	0.3	0.0	0.7	24.5	33.9	3.6	18.6	1.8
Meningococcal infection	Cases	0	0	0	0	0	0	2	0	2	0	0	1	0	0	0	0	0	2	0	0	1
	Rate	3.9	1.1	2.5	3.9	2.5	4.9	4.3	15.2	2.8	4.5	1.6	6.0	4.2	3.8	2.5	0.0	3.1	2.4	0.0	2.7	3.6
Mumps	Cases	0	1	1	1	1	0	0	0	1	0	0	0	0	1	0	1	0	1	1	0	0
	Rate	1.9	0.9	1.1	1.0	1.9	1.0	2.4	0.0	1.8	0.6	0.0	0.0	2.1	2.8	5.0	0.7	3.1	2.8	5.4	0.0	0.0
Non-communicable diseases	Cases	1	0	1	2	1	0	0	0	0	0	0	0	0	6	0	1	0	2	0	0	0
	Rate	115.6	63.0	83.8	64.8	50.0	49.1	50.5	108.2	30.5	113.1	112.4	47.6	149.3	178.8	135.1	58.5	199.4	119.5	136.8	42.4	41.1
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	0.9	0.4	0.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.7	2.5	0.0	0.0	0.6	0.0	0.0	0.0
Pertussis	Cases	4	15	6	8	28	1	6	2	7	2	0	2	4	18	0	6	1	29	2	1	2
	Rate	12.8	22.5	14.9	15.6	64.7	30.5	30.3	28.1	38.8	18.2	9.5	16.3	37.1	36.1	17.5	67.3	89.0	63.0	48.6	9.6	25.0
Rheumatic fever	Cases	2	0	1	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	10.3	1.5	2.9	8.5	6.1	2.9	2.4	21.6	0.9	3.2	0.0	0.6	4.2	2.4	0.0	0.7	0.0	0.2	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	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	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	0.2	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	0.2	0.0	0.0	0.0
Salmonellosis	Cases	4	3	10	8	12	2	2	0	3	1	0	1	0	6	2	4	1	17	3	7	3
	Rate	20.5	16.7	24.1	20.8	28.9	26.5	19.7	69.3	18.5	37.7	19.0	18.7	24.5	20.5	47.5	29.2	30.7	29.7	61.2	40.9	49.2
Shigellosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1
	Rate	1.9	4.4	4.3	5.4	1.9	1.0	1.9	2.2	0.0	0.6	0.0	0.6	2.8	2.8	2.5	1.5	3.1	2.0	1.8	2.1	2.7
Tuberculosis disease	Cases	1	5	6	9	1	1	1	5	0	1	0	2	0	1	0	2	1	1	0	0	0
	Rate	5.1	9.3	14.4	13.7	5.0	6.9	5.8	13.0	0.0	5.2	1.6	3.6	7.7	6.9	0.0	7.3	6.1	4.4	3.6	1.1	1.8
Typhoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.9	1.8	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	0	0	0	1	1	2	0	2	0	0	0	0	0	1	0	0	0	0	0	1
	Rate	3.9	1.7	4.1	1.7	7.8	4.9	4.3	10.8	12.9	2.6	0.0	1.8	1.4	1.7	2.5	1.5	3.1	3.2	3.6	2.1	1.8
Yersiniosis	Cases	1	3	5	8	4	1	0	1	0	2	0	0	3	3	0	0	0	6	3	3	0
	Rate	7.1	9.7	15.5	7.1	7.8	9.8	2.9	6.5	13.9	9.7	4.8	2.4	17.5	14.6	2.5	2.2	36.8	13.7	19.8	10.1	3.6

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including December 2009 expressed as cases per 100 000

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

HbA1c ≥ 6.5%
 diabetes mellitus
 HbYgY'hcH'g'UbX'fUHYg'UFY'XYfj]YX'Zfca' h\Y'9d]Gi'fj'fYdcfhXUH'Y'Ug'cddcgYX'hc' h\Y'YUf'Y]gh'Uj'Uj'UV'Y'XUH'i'gYX'jb'h\Y'a'Yb]b[cVc'VWU'X]gYUgY'gYV]cb'cZH'Jg'fYdcfh
 Bcb' gYUgcbU']bZi' YbnU'5'f'k' %B%
 Bcb' gYUgcbU']bZi' YbnU'fWUdUV'Y'cZH'fUbga']gg]cb' VYf'k'YYb' \i' a' Ub' VY]b[gk'VYWUa' Y'Ub']bZYV]ci' g'bch]ZUV'Y'X]gYUgY'cb' &- '5df]'&\$ \$- "

Notifiable Disease Surveillance Data for the 12 months ending December-2009 by District Health Board

Disease	Cases for the 12 months ending December 2009 ^{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	7173	209	913	810	685	661	206	317	31	233	336	138	237	355	692	70	173	42	545	103	252	165
Cryptosporidiosis	853	37	74	56	51	109	13	27	9	24	36	9	29	19	129	13	24	18	97	28	28	23
Dengue fever	141	4	17	30	38	6	2	4	2	1	4	2	4	2	14	1	0	1	7	0	1	1
Gastroenteritis	714	4	81	98	44	23	13	5	0	0	11	16	108	52	88	2	11	90	52	4	9	3
Giardiasis	1640	64	155	212	202	148	65	63	11	45	66	21	18	35	167	12	48	13	190	10	53	42
Haemophilus influenzae type b	11	1	3	0	1	3	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Hazardous substances injury	11	1	2	1	0	0	0	0	0	0	5	0	1	0	1	0	0	0	0	0	0	0
Hepatitis A	44	1	3	9	6	3	1	2	0	0	4	0	2	3	3	0	0	0	6	0	0	1
Hepatitis B	57	3	6	13	8	1	1	4	1	1	1	1	3	0	2	2	2	2	5	0	1	0
Hepatitis C	31	1	1	4	2	0	0	0	0	5	0	0	2	2	2	2	0	0	8	1	1	0
Ischaemic heart disease	706	32	64	52	91	84	30	48	10	20	36	12	17	30	30	12	22	0	58	6	32	20
Lead absorption	368	4	41	85	52	23	9	9	7	5	6	7	13	15	12	3	10	0	30	5	23	9
Legionellosis	84	2	15	9	11	1	1	9	0	1	5	0	1	1	2	2	2	3	14	1	3	1
Leptospirosis	86	7	1	2	1	16	2	10	0	4	6	3	6	0	1	1	2	5	12	2	1	4
Listeriosis	28	0	4	4	2	4	0	1	2	1	0	1	2	1	1	0	0	0	2	0	3	0
Malaria	50	0	7	6	19	3	0	2	0	1	1	0	0	0	3	1	2	2	3	0	0	0
Measles	259	5	15	9	3	1	0	2	0	0	3	1	1	0	1	0	1	8	170	2	35	2
Non-infectious diseases	133	6	6	11	19	9	5	9	7	3	7	1	10	6	11	1	0	1	12	0	5	4
Mumps	66	3	5	5	5	7	1	5	0	2	1	0	0	3	8	2	1	1	14	3	0	0
Non-infectious diseases	3668	180	333	372	312	180	50	105	50	33	174	71	79	213	515	54	80	65	600	76	80	46
Paratyphoid fever	24	0	5	4	2	2	3	0	0	0	0	0	0	2	2	1	0	0	3	0	0	0
Pertussis	1397	20	119	66	75	233	31	63	13	42	28	6	27	53	104	7	92	29	316	27	18	28
Rheumatic fever	140	16	8	13	41	22	3	5	10	1	5	0	1	6	7	0	1	0	1	0	0	0
Rickettsial disease	6	1	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rubella	4	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Salmonellosis	1130	32	88	107	100	104	27	41	32	20	58	12	31	35	59	19	40	10	149	34	77	55
Shigellosis	120	3	23	19	26	7	1	4	1	0	1	0	1	4	8	1	2	1	10	1	4	3
Tuberculosis disease	316	8	49	64	66	18	7	12	6	0	8	1	6	11	20	0	10	2	22	2	2	2
Typhoid fever	35	0	5	8	13	1	0	0	0	0	0	0	0	0	6	0	0	0	2	0	0	0
VTEC/STEC infection	144	6	9	18	8	28	5	9	5	14	4	0	3	2	5	1	2	1	16	2	4	2
Yersiniosis	435	11	51	69	34	28	10	6	3	15	15	3	4	25	42	1	3	12	69	11	19	4
Total	19874	661	2105	2157	1917	1727	486	764	200	471	821	305	607	876	1937	208	528	306	2414	318	651	415

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

“b] Uglj Y`dbYi a cVtVWU`X]gYUgY`VYVWla Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`WtVYf`&\$\$,`h`Y`gY`hc`HJ`g`UbX`fUH`g`UFY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Ug`cddcgYX`hc`h`Y`YUf`Y]ghUj`Uj`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`cVtVWU`X]gYUgY`gYVW]cb`cZ`h`Jg`fYdcfh`Bcb]`gYUgcbU`]bZi`YbnU`fWUdUV`Y`cZ`fUbg`a`Jgg]cb`VYhk`YYb`\\i`a`Ub`VY]b[`gE`VYVWla`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5df]`&\$\$-`”

National Notifiable Disease Surveillance Data December 2009

Disease	Current Year - 2009 ¹			Previous Year - 2008		
	December 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	December 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	886	7173	166.2	931	6694	156.8
Cryptosporidiosis	47	853	19.8	36	764	17.9
Dengue fever	4	141	3.3	8	113	2.6
Gastroenteritis ³	42	714	16.5	77	687	16.1
Giardiasis	130	1640	38.0	148	1660	38.9
Haemophilus influenzae type b	1	11	0.3	0	9	0.2
Hazardous substances injury	0	11	0.3	0	7	0.2
Hepatitis A	2	44	1.0	5	89	2.1
<YdUh]hg`6	3	57	1.3	2	38	0.9
<YdUh]hg`7	1	31	0.7	2	23	0.5
⊕j Ug]j Y`dbYi a cVŁVWU`X]gYUgY	38	706	16.4	49	127	3.0
Lead absorption	19	368	8.5	42	317	7.4
Legionellosis	12	84	1.9	9	73	1.7
Leptospirosis	22	86	2.0	13	118	2.8
Listeriosis	1	28	0.6	3	27	0.6
Malaria	2	50	1.2	3	40	0.9
Measles	8	259	6.0	0	12	0.3
A Yb]b[cVŁVWU`X]gYUgY	8	133	3.1	7	122	2.9
Mumps	9	66	1.5	4	76	1.8
Bcb`gYUgcbU`]bZi YbnU`5`fk`%B`%Ł`	14	3668	85.0	0	0	0.0
Paratyphoid fever	1	24	0.6	2	25	0.6
Pertussis	144	1397	32.4	65	417	9.8
Rheumatic fever	7	140	3.2	9	153	3.6
Rickettsial disease	0	6	0.1	0	10	0.2
Rubella	0	4	0.1	1	9	0.2
Salmonellosis	89	1130	26.2	129	1345	31.5
Shigellosis	4	120	2.8	11	113	2.6
Tuberculosis disease	37	316	7.3	18	296	6.9
Typhoid fever	1	35	0.8	2	29	0.7
VTEC/STEC infection	8	144	3.3	10	124	2.9
Yersiniosis	43	435	10.1	43	509	11.9

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including December 2009) or the previous year (12 months up to and including December 2008), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

C`b`mUW`hY`WUgYg`cZ`h`jg`X]gYUgY`UFY`W`ffYbhmbch]Z]UV`Y`
⊕j Ug]j Y`dbYi a cVŁVWU`X]gYUgY`VYVWla Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+`h`C`VŁVYf`&\$\$,
`h`Y`gY`hc`HJ`g`UbX`fUH`g`UFY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUHY`Ug`cddcgYX`hc`h`Y`YUf`]YghUj`Uj`UV`Y`XUHY`i`gYX`]b`h`Y`
a`Yb]b[`cVŁVWU`X]gYUgY`gYVW]cb`cZ`h`jg`fYdcfh
`Bcb!`gYUgcbU`]bZi`YbnU`fVWdUV`Y`cZ`fUbg`a`]gg]cb`VYhk`YYb`\\i`a`Ub`VY]b[`gŁVYVWla`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`
&-`5df]`&\$\$_`-

Other notifiable infectious disease reported in December: Brucellosis (1) , Chemical poisoning from the environment (3) , Diarrhoeic shellfish poisoning (1) , Hydatid disease (1) , Paralytic shellfish poisoning (1) , Ross River virus infection (1)