

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 4 November 2010. 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 only.

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1. Key notifiable disease trends

- *Enterobacter (Cronobacter) sakazakii*: A laboratory confirmed case of *Enterobacter sakazakii* was notified by Bay of Plenty DHB in October 2010. The case was a 70 year old male of Maori ethnic origin, who was hospitalised, and died two days later from metastatic carcinoma. The case had not been overseas during the incubation period. A possible source was milk and yoghurt products recently introduced into his diet. This was a single isolated case.
- *Giardiasis*: 139 cases of giardiasis were notified in October 2010 compared to 101 cases notified in the same month of the previous year. The highest number of cases were reported in Auckland and Counties Manukau DHBs (21 cases each), followed by Canterbury (19 cases) and Waikato DHBs (18 cases). Among the cases where risk information was recorded, 41.5% (17/41) had contact with other symptomatic people, 39.0% (16/41) had contact with farm animals, 35.9% (14/39) had contact with faecal matter, 32.4% (11/34) had consumed untreated water, and 28.6% (12/42) had been overseas during the incubation period. Six *Giardia* outbreaks (2 completed, 4 interim) involving 10 cases were reported in October.
- *Hepatitis A*: One laboratory-confirmed case of hepatitis A was notified in October 2010 compared to nine cases notified in the same month of the previous year. The case was a female in the 20-29 years age group of Asian ethnicity who had been overseas during the incubation period.
- *Hydatid disease*: One probable case of hydatid disease was notified in October 2010. The case was a male in the 60-69 years age group from Hawke's Bay DHB. The disease was probably a remote past infection. MAF has been notified.
- *Legionellosis*: 34 cases of legionellosis were notified in October 2010 (9 confirmed, 2 probable and 23 under investigation) compared to four in the same month of the previous year (Figure 1). The following section is based on confirmed and probable cases only. The cases were from Canterbury (5 cases), Bay of Plenty (2 cases), Waitemata, Waikato, Otago and Southland (1 case each) DHBs. Cases were aged between 30-39 years and over 70 years, with 90.9% (10/11) of cases aged over 40 years. Nine cases were hospitalised. The *Legionella* species was identified in five cases; *Legionella dumoffii* L. jordanis, *L. longbeachae* serogroup 1, *L. longbeachae* serogroup 1 or 2, and *L. pneumophila* serogroup 12 (1 case each).

- *Meningococcal disease*: Based on the earliest date available¹, seven cases of meningococcal disease were notified during October 2010, four (57.1%) of which were laboratory-confirmed. In comparison, four cases (all laboratory-confirmed) were notified in the previous month and 11 (all laboratory-confirmed) during the same month last year. For the 12-month period ending 31 October 2010, the highest incidence rate was reported in Tairāwhiti DHB (6.5 per 100 000 population, 3 cases), followed by Hutt Valley (4.9 per 100 000, 7 cases), Northland (4.5 per 100 000, 7 cases) and MidCentral (4.2 per 100 000, 7 cases) DHBs. The highest age-specific rate was in infants aged less than one year 36.5 per 100 000 population, 23 cases), followed by those in the 1-4 years age group (10.3 per 100 000, 25 cases).
- *Rickettsial disease*: One confirmed case of rickettsial disease was notified in Oct 2010. The case had not travelled overseas during the disease incubation period and is assumed to have acquired the infection in New Zealand.
- *Salmonellosis*: 111 cases of salmonellosis were notified in October 2010 compared to 117 the previous month as well as 83 cases the same month of previous year. There were 109 (98.2%) laboratory-confirmed cases. The highest numbers of cases were reported from Otago (18 cases), Canterbury (17 cases), Auckland (15 cases), and Southland (12 cases) DHBs. The cases were aged between less than one year and over 70 years, with the highest numbers of cases in the 1-4 years (28 cases), 20-29 years (15 cases), 5-9 years (12 cases), and 50-59 (10 cases) age groups. Of the 59 cases with hospitalisation information, six were hospitalised. The serotype involved was identified in 80 of the cases, and the dominant serotypes were *Salmonella* Typhimurium phage type 160 (13 cases), *Salmonella* Brandenburg (9 cases), *S. Typhimurium* phage type 135 (7 cases), *S. Typhimurium* phage type 9 and *S. Typhimurium* phage type RDNC-May 06 (5 cases each). One of the cases was linked to a *Salmonella* Typhimurium phage type 101 outbreak. Exposure factors included consumption of unpasteurised milk from a dairy shed and contact with infected livestock.
- *Tuberculosis disease*: 28 cases of tuberculosis disease were notified in October 2010, compared to 37 cases notified in the previous month and 12 cases notified in the same month of the previous year. Twelve (42.9%) of the cases were laboratory confirmed. The highest number of cases was reported in Counties Manukau DHB (6 cases), followed by Auckland, Bay of Plenty, and Canterbury DHBs (4 cases each). Cases were aged between 1-4 years and 70+ years, with the highest number of cases in the 30-39 years age group (9 cases). Ethnicity was recorded for 21 cases (75.0%): Asian (12 cases), Pacific Peoples (4 cases), European (4 cases) and Māori (1 case). Eleven cases were born outside of New Zealand, of which three had been born in India.
- *Yersiniosis*: 44 yersiniosis cases were notified in October 2010 compared to 37 notifications in the preceding month and 37 cases the same month of previous year (Figure 3). Three cases were hospitalised. Taranaki DHB had the highest numbers of cases (10 cases) followed by Waitemata (8 cases) and Waikato (5 cases) DHBs. The highest number of cases was in the 50 to 59 years old (8 cases), 1 to 4 and 20 to 29 (7 cases each) followed by the 40-49 years (5 cases) age groups. The biotype involved was identified in 32 of the cases, and the dominant biotypes were *Yersinia enterocolitica* Biotype 2 (16 cases), *Y. enterocolitica* Biotype 4 (8 cases), *Y. enterocolitica* Biotype 1A and *Y. enterocolitica* Biotype 3 (4 cases each). *Yersinia pseudotuberculosis* occurred in one case.

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: 15 outbreak reports were entered into EpiSurv and completed during October 2010 (Table 1).

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

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Rotorua, Manawatu, Southland	3	13
<i>Campylobacter/Cryptosporidium</i>	Southland	1	6
<i>Cryptosporidium</i>	Auckland, Waikato, Taranaki, Otago	5	17
Gastroenteritis	Auckland	1	2
<i>Giardia</i>	Auckland	2	5
Norovirus	Auckland	1	27
Rotavirus	Manawatu	1	5
<i>Salmonella</i> Typhimurium phage type 101	Wanganui	1	2
Total		15	77

Interim outbreak reports: 32 interim outbreaks have been reported in October 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 October 2010

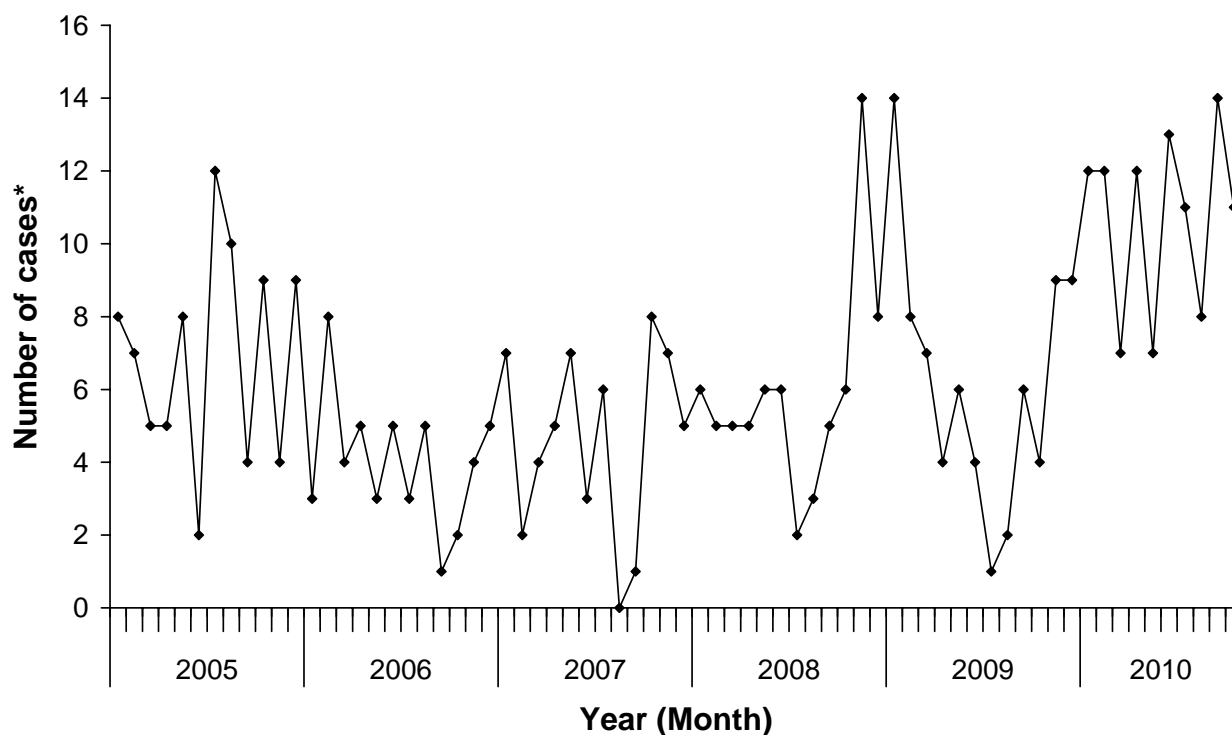
Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Auckland, Waikato	2	2
<i>Cryptosporidium</i>	Auckland, Waikato	2	2
Gastroenteritis	Auckland, Waikato, Manawatu, Canterbury	19	81
<i>Giardia</i>	Auckland, Waikato	4	5
Histamine (scombroid) fish poisoning	Auckland	1	-
Norovirus	Auckland, Manawatu	2	14
Rotavirus	Auckland	1	5
<i>Yersinia enterocolitica</i>	Taranaki	1	-
Biotype 2			
Total		32	109

3. Deaths from notifiable diseases

There have been no deaths from notifiable diseases reported in October 2010.

4. Trends in selected diseases to October 2010

Figure 1: Legionellosis notifications by month by year, January 2005 – October 2010*



* Number of notifications includes confirmed and probable cases of legionellosis only.

Figure 2: Meningococcal disease notifications by month by year, January 2005 – October 2010

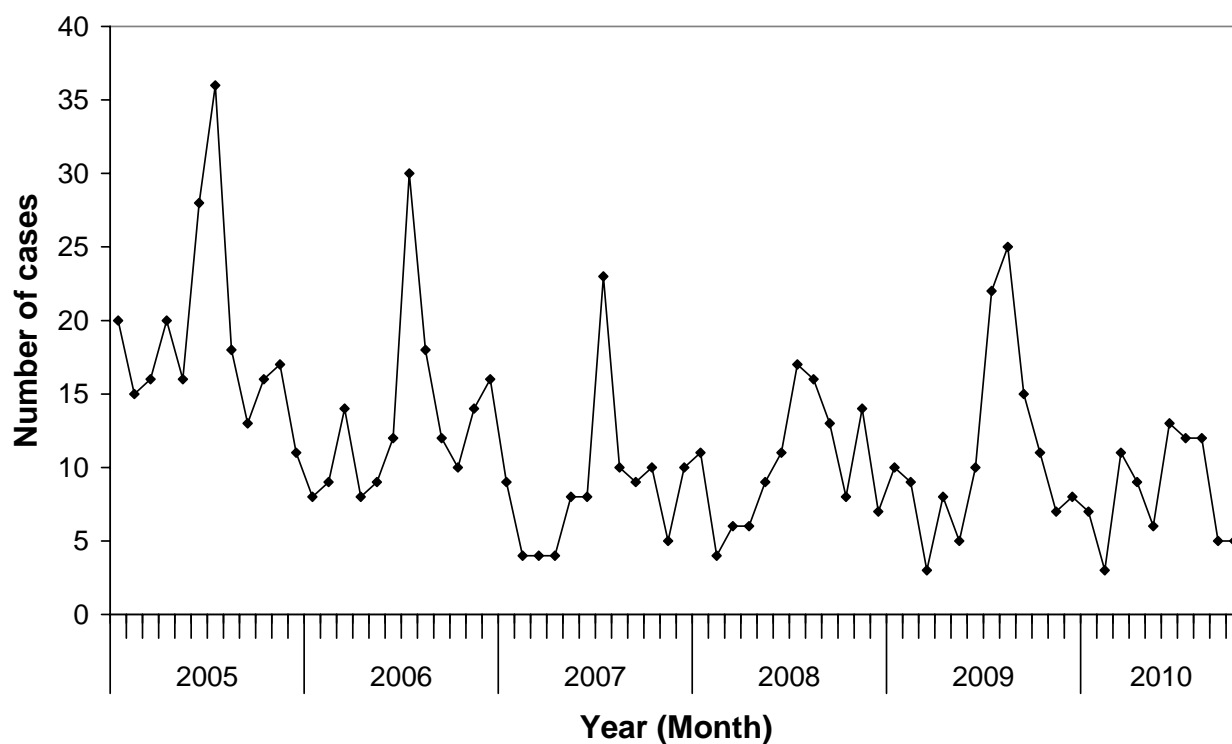
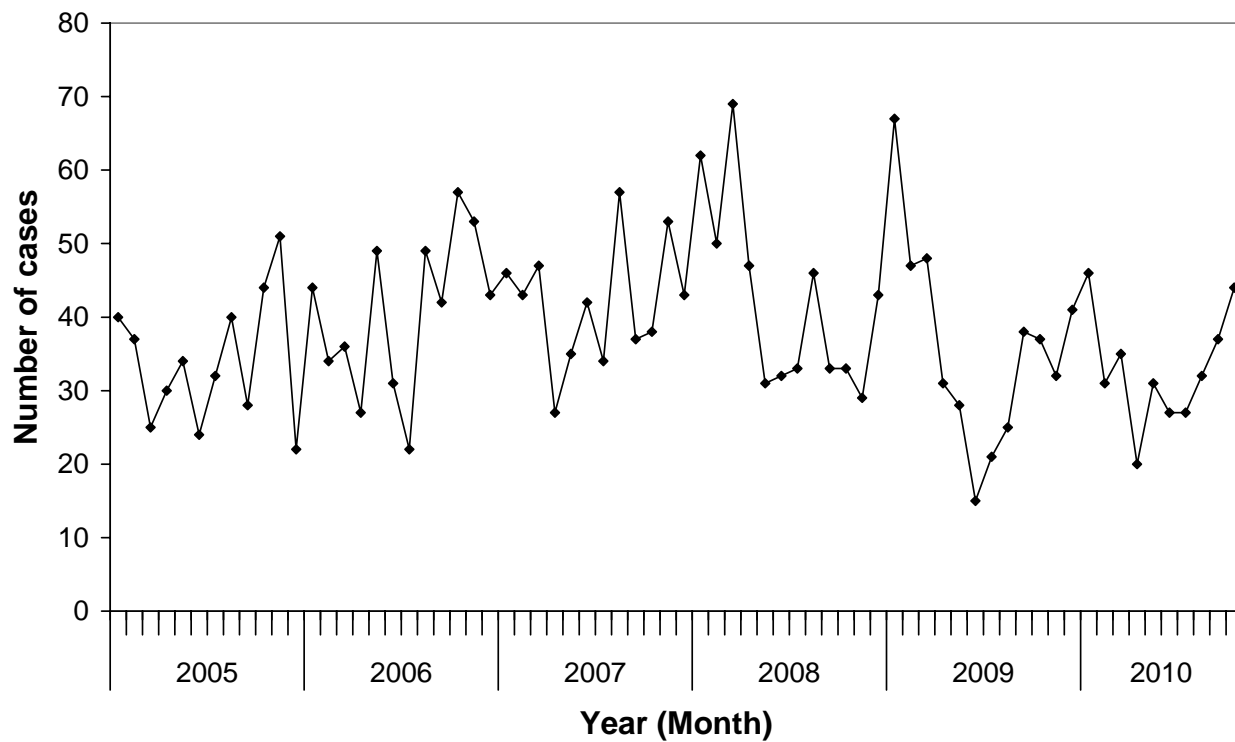


Figure 3: Yersiniosis notifications by month by year, January 2005 – October 2010



5. Data tables

National Notifiable Disease Surveillance Data October 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	October 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	October 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	648	5918	180.3	626	5314	162.9
Cryptosporidiosis	150	839	23.0	171	701	19.0
Dengue fever	6	44	1.2	4	130	3.6
Gastroenteritis ³	62	409	11.9	62	607	18.1
Giardiasis	139	1705	45.9	101	1364	37.8
Haemophilus influenzae type b	1	7	0.2	2	7	0.2
Hazardous substances injury	0	8	0.3	1	4	0.2
Hepatitis A	1	43	1.1	9	39	1.1
Hepatitis B ⁴	7	51	1.4	3	47	1.2
Hepatitis C ⁴	2	12	0.4	2	28	0.7
Invasive pneumococcal disease ⁵	34	472	13.0	72	608	16.4
Lead absorption	14	154	4.2	29	246	6.7
Legionellosis	34	155	4.0	4	56	1.8
Leptospirosis	10	77	2.2	8	49	1.7
Listeriosis	1	22	0.6	2	25	0.7
Malaria	3	42	1.1	5	45	1.2
Measles	2	48	1.3	4	238	5.6
Meningococcal disease ⁶	5	83	2.3	11	118	3.2
Mumps	4	40	1.2	8	53	1.4
Non seasonal influenza A (H1N1) ⁷	20	1818	42.6	22	3648	84.5
Paratyphoid fever	1	19	0.5	2	22	0.6
Pertussis	56	736	23.7	118	1111	28.5
Rheumatic fever	7	136	3.4	6	128	3.3
Rickettsial disease	1	18	0.4	1	5	0.1
Rubella	0	2	0.0	0	4	0.1
Salmonellosis	111	961	26.0	83	965	27.9
Shigellosis	4	101	2.6	11	108	2.9
Tuberculosis disease	28	270	7.5	12	246	6.8
Typhoid fever	2	28	0.7	1	32	0.8
VTEC/STEC infection	11	130	3.3	17	130	3.4
Yersiniosis	44	330	9.3	37	357	9.9

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including October 2010) or the previous year (12 months up to and including October 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 October: Enterobacter sakazakii (1) , Hydatid disease (1)

Notifiable Disease Surveillance Data by District Health Board October 2010

		Cases ¹ and current rate ² for October 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	11	61	60	43	76	23	27	1	23	25	5	21	29	43	5	17	9	83	9	41	36	
	Rate	110.4	178.7	169.1	130.2	204.4	206.3	157.4	106.1	271.6	228.1	197.9	157.3	255.1	229.8	222.7	157.9	205.6	172.1	214.2	176.7	196.7	
Cryptosporidiosis	Cases	8	10	3	6	26	6	4	0	8	15	3	6	1	0	2	3	2	16	7	11	13	
	Rate	27.0	16.8	16.2	8.5	41.7	11.8	6.3	17.3	24.0	30.5	11.1	11.5	7.7	14.2	20.0	29.2	52.2	46.2	77.4	23.3	26.8	
Dengue fever	Cases	1	2	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	
	Rate	1.9	1.5	2.5	0.8	2.2	0.0	1.9	2.2	0.9	0.0	1.6	0.0	0.7	1.7	0.0	0.7	0.0	0.6	0.0	1.1	0.0	
Gastroenteritis	Cases	0	8	6	1	3	1	3	0	4	0	1	1	5	17	0	3	1	8	0	0	0	
	Rate	2.6	10.2	19.4	4.6	7.8	4.9	4.8	0.0	10.2	4.5	22.2	28.3	33.6	29.2	5.0	4.4	33.8	11.4	0.0	6.9	4.5	
Giardiasis	Cases	1	14	21	21	18	4	9	0	4	5	0	1	2	7	1	3	1	19	2	3	3	
	Rate	33.4	44.7	67.3	45.9	46.9	47.2	35.1	32.5	33.3	62.4	42.8	18.1	32.9	51.0	50.0	38.0	33.8	56.0	34.2	32.9	34.9	
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	0.0	0.6	0.0	0.4	0.6	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	1.0	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	0	0	0	0	1	0	0	0	
	Rate	0.6	0.4	2.0	1.7	1.1	1.0	0.5	2.2	0.0	1.3	1.6	1.8	0.7	0.3	0.0	0.0	0.0	1.8	0.0	1.6	0.9	
Hepatitis B	Cases	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	1.3	0.4	2.3	2.1	0.8	5.9	2.9	6.5	0.0	1.3	1.6	0.6	0.7	0.7	5.0	0.7	0.0	1.0	0.0	1.1	0.0	
Hepatitis C	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	Rate	0.0	0.2	0.2	0.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.4	1.0	0.0	0.0	0.0	0.2	1.8	0.5	0.0	
Invasive pneumococcal disease ⁴	Cases	3	1	1	4	5	1	3	0	0	3	2	1	2	2	0	0	0	1	2	3	0	
	Rate	14.1	11.7	9.5	21.4	15.6	21.6	19.3	4.3	8.3	17.5	14.3	9.0	16.8	8.7	20.0	3.7	3.1	8.0	5.4	15.4	15.2	
Lead absorption	Cases	1	0	1	0	0	0	0	0	1	1	1	1	1	0	1	1	0	0	0	5	0	
	Rate	3.9	2.6	3.2	2.3	3.9	1.0	1.9	8.7	1.8	4.5	11.1	5.4	9.1	2.4	5.0	5.1	0.0	5.0	14.4	12.7	0.9	
Legionellosis	Cases	4	12	4	3	1	0	2	0	0	1	0	0	0	0	0	0	0	5	0	1	1	
	Rate	10.9	6.4	5.9	3.3	1.1	0.0	3.4	2.2	1.8	3.2	0.0	1.8	2.8	1.0	0.0	0.0	12.3	6.8	5.4	2.1	5.4	
Leptospirosis	Cases	0	0	0	0	1	0	0	1	1	2	3	1	0	0	0	0	0	1	0	0	0	
	Rate	1.3	0.0	0.0	0.4	6.4	1.0	1.9	2.2	2.8	5.2	12.7	8.4	0.0	0.0	7.5	2.9	24.5	2.2	1.8	0.5	2.7	
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
	Rate	0.6	0.2	1.1	0.8	0.3	0.0	1.0	4.3	0.9	0.0	1.6	1.8	0.0	0.3	0.0	0.0	3.1	0.0	0.0	1.1	0.0	
Malaria	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
	Rate	0.0	0.9	2.7	1.9	0.3	0.0	1.9	0.0	0.9	0.6	0.0	0.0	0.0	0.7	2.5	1.5	0.0	1.4	0.0	0.5	0.9	
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	
	Rate	20.5	0.4	1.6	0.4	0.0	1.0	0.5	2.2	0.0	0.0	0.0	1.2	0.0	0.7	2.5	0.0	15.3	0.4	0.0	0.0	0.0	
Meningococcal disease ⁵	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	
	Rate	4.5	1.7	1.4	3.5	1.4	2.0	3.4	6.5	2.8	3.2	1.6	4.2	4.2	1.7	0.0	0.7	0.0	1.6	0.0	1.1	3.6	
Mumps	Cases	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	
	Rate	1.3	1.7	0.2	1.2	0.6	0.0	0.0	0.0	4.6	0.0	0.0	0.0	2.1	1.7	5.0	2.2	0.0	1.6	1.8	1.6	0.0	
Non seasonal influenza A (H1N1) ⁶	Cases	1	2	1	4	6	0	1	1	0	0	0	0	0	0	0	1	0	3	0	0	0	
	Rate	41.1	22.5	32.2	38.2	71.7	121.8	92.9	30.3	46.2	35.1	52.3	36.2	14.7	39.9	30.0	23.4	55.2	54.6	77.4	10.6	8.0	
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	0.0	1.8	0.4	0.3	2.0	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	6	13	6	4	1	1	1	2	0	0	2	2	3	0	3	0	8	0	1	3	
	Rate	5.1	14.6	15.3	17.0	38.1	5.9	24.1	32.5	40.7	11.7	7.9	22.3	30.1	41.7	32.5	27.0	43.0	38.6	28.8	8.0	21.5	
Rheumatic fever	Cases	1	0	0	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	Rate	10.9	1.7	2.3	10.2	5.8	2.0	3.4	13.0	1.8	5.2	1.6	1.8	3.5	1.7	5.0	0.0	0.0	0.2	0.0	0.0	0.0	
Rickettsial disease	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.6	0.9	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	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	0.0	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	
Salmonellosis	Cases	1	8	15	6	7	3	1	1	1	5	1	2	2	5	0	3	1	17	2	18	12	
	Rate	23.8	18.9	23.0	16.2	25.6	15.7	22.6	28.1	24.0	26.0	11.1	18.1	22.4	18.7	30.0	32.9	33.8	34.7	68.4	64.2	43.8	
Shigellosis	Cases	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	Rate	3.9	3.6	2.9	4.2	3.1	0.0	2.9	0.0	0.0	3.2	0.0	0.0	1.4	1.7	0.0	2.2	0.0	2.8	3.6	2.7	0.9	
Tuberculosis disease	Cases	0	0	4	6	0	0	4	0	0	0	0	1	0	2	0	2	0	4	1	3	1	
	Rate	4.5	6.6	13.7	14.3	5.6	2.0	6.3	19.5	0.9	5.8	3.2	6.0	7.0	8.0	2.5	5.8	3.1	5.2	5.4	4.8	3.6	
Typhoid fever	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.6	0.8	2.3	1.2	0.6	0.0	1.4	0.0	0.0	0.0	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 October 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.

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	October 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	October 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	648	5918	180.3	626	5314	162.9
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Hazardous substances injury	0	8	0.3	1	4	0.2
Hepatitis A	1	43	1.1	9	39	1.1
Hepatitis B ⁴	7	51	1.4	3	47	1.2
Hepatitis C ⁴	2	12	0.4	2	28	0.7
Invasive pneumococcal disease ⁵	34	472	13.0	72	608	16.4
Lead absorption	14	154	4.2	29	246	6.7
Legionellosis	34	155	4.0	4	56	1.8
Leptospirosis	10	77	2.2	8	49	1.7
Listeriosis	1	22	0.6	2	25	0.7
Malaria	3	42	1.1	5	45	1.2
Measles	2	48	1.3	4	238	5.6
Meningococcal disease ⁶	5	83	2.3	11	118	3.2
Mumps	4	40	1.2	8	53	1.4
Non seasonal influenza A (H1N1) ⁷	20	1818	42.6	22	3648	84.5
Paratyphoid fever	1	19	0.5	2	22	0.6
Pertussis	56	736	23.7	118	1111	28.5
Rheumatic fever	7	136	3.4	6	128	3.3
Rickettsial disease	1	18	0.4	1	5	0.1
Rubella	0	2	0.0	0	4	0.1
Salmonellosis	111	961	26.0	83	965	27.9
Shigellosis	4	101	2.6	11	108	2.9
Tuberculosis disease	28	270	7.5	12	246	6.8
Typhoid fever	2	28	0.7	1	32	0.8
VTEC/STEC infection	11	130	3.3	17	130	3.4
Yersiniosis	44	330	9.3	37	357	9.9

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including October 2010) or the previous year (12 months up to and including October 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 October: Enterobacter sakazakii (1) , Hydatid disease (1)

Notifiable Disease Surveillance Data by District Health Board October 2010

		Cases ¹ and current rate ² for October 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	11	61	60	43	76	23	27	1	23	25	5	21	29	43	5	17	9	83	9	41	36
	Rate	110.4	178.7	169.1	130.2	204.4	206.3	157.4	106.1	271.6	228.1	197.9	157.3	255.1	229.8	222.7	157.9	205.6	172.1	214.2	176.7	196.7
Cryptosporidiosis	Cases	8	10	3	6	26	6	4	0	8	15	3	6	1	0	2	3	2	16	7	11	13
	Rate	27.0	16.8	16.2	8.5	41.7	11.8	6.3	17.3	24.0	30.5	11.1	11.5	7.7	14.2	20.0	29.2	52.2	46.2	77.4	23.3	26.8
Dengue fever	Cases	1	2	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	Rate	1.9	1.5	2.5	0.8	2.2	0.0	1.9	2.2	0.9	0.0	1.6	0.0	0.7	1.7	0.0	0.7	0.0	0.6	0.0	1.1	0.0
Gastroenteritis	Cases	0	8	6	1	3	1	3	0	4	0	1	1	5	17	0	3	1	8	0	0	0
	Rate	2.6	10.2	19.4	4.6	7.8	4.9	4.8	0.0	10.2	4.5	22.2	28.3	33.6	29.2	5.0	4.4	33.8	11.4	0.0	6.9	4.5
Giardiasis	Cases	1	14	21	21	18	4	9	0	4	5	0	1	2	7	1	3	1	19	2	3	3
	Rate	33.4	44.7	67.3	45.9	46.9	47.2	35.1	32.5	33.3	62.4	42.8	18.1	32.9	51.0	50.0	38.0	33.8	56.0	34.2	32.9	34.9
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	0.0	0.6	0.0	0.4	0.6	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	1.0	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	0	0	0	0	1	0	0	0
	Rate	0.6	0.4	2.0	1.7	1.1	1.0	0.5	2.2	0.0	1.3	1.6	1.8	0.7	0.3	0.0	0.0	0.0	1.8	0.0	1.6	0.9
Hepatitis B	Cases	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	0.4	2.3	2.1	0.8	5.9	2.9	6.5	0.0	1.3	1.6	0.6	0.7	0.7	5.0	0.7	0.0	1.0	0.0	1.1	0.0
Hepatitis C	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.2	0.2	0.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.4	1.0	0.0	0.0	0.0	0.2	1.8	0.5	0.0
Invasive pneumococcal disease ⁴	Cases	3	1	1	4	5	1	3	0	0	3	2	1	2	2	0	0	0	1	2	3	0
	Rate	14.1	11.7	9.5	21.4	15.6	21.6	19.3	4.3	8.3	17.5	14.3	9.0	16.8	8.7	20.0	3.7	3.1	8.0	5.4	15.4	15.2
Lead absorption	Cases	1	0	1	0	0	0	0	0	1	1	1	1	1	0	1	1	0	0	0	5	0
	Rate	3.9	2.6	3.2	2.3	3.9	1.0	1.9	8.7	1.8	4.5	11.1	5.4	9.1	2.4	5.0	5.1	0.0	5.0	14.4	12.7	0.9
Legionellosis	Cases	4	12	4	3	1	0	2	0	0	1	0	0	0	0	0	0	0	5	0	1	1
	Rate	10.9	6.4	5.9	3.3	1.1	0.0	3.4	2.2	1.8	3.2	0.0	1.8	2.8	1.0	0.0	0.0	12.3	6.8	5.4	2.1	5.4
Leptospirosis	Cases	0	0	0	0	1	0	0	1	1	2	3	1	0	0	0	0	0	1	0	0	0
	Rate	1.3	0.0	0.0	0.4	6.4	1.0	1.9	2.2	2.8	5.2	12.7	8.4	0.0	0.0	7.5	2.9	24.5	2.2	1.8	0.5	2.7
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	1.1	0.8	0.3	0.0	1.0	4.3	0.9	0.0	1.6	1.8	0.0	0.3	0.0	0.0	3.1	0.0	0.0	1.1	0.0
Malaria	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	0.9	2.7	1.9	0.3	0.0	1.9	0.0	0.9	0.6	0.0	0.0	0.0	0.7	2.5	1.5	0.0	1.4	0.0	0.5	0.9
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
	Rate	20.5	0.4	1.6	0.4	0.0	1.0	0.5	2.2	0.0	0.0	0.0	1.2	0.0	0.7	2.5	0.0	15.3	0.4	0.0	0.0	0.0
Meningococcal disease ⁵	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1
	Rate	4.5	1.7	1.4	3.5	1.4	2.0	3.4	6.5	2.8	3.2	1.6	4.2	4.2	1.7	0.0	0.7	0.0	1.6	0.0	1.1	3.6
Mumps	Cases	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
	Rate	1.3	1.7	0.2	1.2	0.6	0.0	0.0	0.0	4.6	0.0	0.0	0.0	2.1	1.7	5.0	2.2	0.0	1.6	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	1	2	1	4	6	0	1	1	0	0	0	0	0	0	0	1	0	3	0	0	0
	Rate	41.1	22.5	32.2	38.2	71.7	121.8	92.9	30.3	46.2	35.1	52.3	36.2	14.7	39.9	30.0	23.4	55.2	54.6	77.4	10.6	8.0
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	0.0	1.8	0.4	0.3	2.0	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	6	13	6	4	1	1	1	2	0	0	2	2	3	0	3	0	8	0	1	3
	Rate	5.1	14.6	15.3	17.0	38.1	5.9	24.1	32.5	40.7	11.7	7.9	22.3	30.1	41.7	32.5	27.0	43.0	38.6	28.8	8.0	21.5
Rheumatic fever	Cases	1	0	0	2	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	10.9	1.7	2.3	10.2	5.8	2.0	3.4	13.0	1.8	5.2	1.6	1.8	3.5	1.7	5.0	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	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	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	0.0	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
Salmonellosis	Cases	1	8	15	6	7	3	1	1	1	5	1	2	2	5	0	3	1	17	2	18	12
	Rate	23.8	18.9	23.0	16.2	25.6	15.7	22.6	28.1	24.0	26.0	11.1	18.1	22.4	18.7	30.0	32.9	33.8	34.7	68.4	64.2	43.8
Shigellosis	Cases	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	3.9	3.6	2.9	4.2	3.1	0.0	2.9	0.0	0.0	3.2	0.0	0.0	1.4	1.7	0.0	2.2	0.0	2.8	3.6	2.7	0.9
Tuberculosis disease	Cases	0	0	4	6	0	0	4	0	0	0	0	1	0	2	0	2	0	4	1	3	1
	Rate	4.5	6.6	13.7	14.3	5.6	2.0	6.3	19.5	0.9	5.8	3.2	6.0	7.0	8.0	2.5	5.8	3.1	5.2	5.4	4.8	3.6
Typhoid fever	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	2.3	1.2	0.6	0.0	1.4	0.0	0.0	0.0	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 October 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 October-2010 by District Health Board

Disease	Cases for the 12 months ending October 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	7781	172	944	751	627	736	210	327	49	294	351	125	261	364	662	89	216	67	864	119	333	220
Cryptosporidiosis	992	42	89	72	41	150	12	13	8	26	47	7	19	11	41	8	40	17	232	43	44	30
Dengue fever	53	3	8	11	4	8	0	4	1	1	0	1	0	1	5	0	1	0	3	0	2	0
Gastroenteritis	514	4	54	86	22	28	5	10	0	11	7	14	47	48	84	2	6	11	57	0	13	5
Giardiasis	1980	52	236	299	221	169	48	73	15	36	96	27	30	47	147	20	52	11	281	19	62	39
Haemophilus influenzae type b	10	0	3	0	2	2	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
Hazardous substances injury	15	0	5	2	0	0	0	0	0	0	5	0	0	0	3	0	0	0	0	0	0	0
Hepatitis A	48	1	2	9	8	4	1	1	1	0	2	1	3	1	1	0	0	0	9	0	3	1
Hepatitis B	59	2	2	10	10	3	6	6	3	0	2	1	1	1	2	2	1	0	5	0	2	0
Hepatitis C	16	0	1	1	2	0	0	0	0	4	0	0	0	2	3	0	0	0	1	1	1	0
Invasive pneumococcal disease ⁴	561	22	62	42	103	56	22	40	2	9	27	9	15	24	25	8	5	1	40	3	29	17
Lead absorption	180	6	14	14	11	14	1	4	4	2	7	7	9	13	7	2	7	0	25	8	24	1
Legionellosis	173	17	34	26	16	4	0	7	1	2	5	0	3	4	3	0	0	4	34	3	4	6
Leptospirosis	97	2	0	0	2	23	1	4	1	3	8	8	14	0	0	3	4	8	11	1	1	3
Listeriosis	25	1	1	5	4	1	0	2	2	1	0	1	3	0	1	0	0	1	0	0	2	0
Malaria	47	0	5	12	9	1	0	4	0	1	1	0	0	0	2	1	2	0	7	0	1	1
Measles	58	32	2	7	2	0	1	1	1	0	0	0	2	0	2	1	0	5	2	0	0	0
Meningococcal disease ⁵	98	7	9	6	17	5	2	7	3	3	5	1	7	6	5	0	1	0	8	0	2	4
Mumps	50	2	9	1	6	2	0	0	0	5	0	0	0	3	5	2	3	0	8	1	3	0
Non seasonal influenza A (H1N1) ⁶	1840	64	119	143	184	258	124	193	14	50	54	33	60	21	115	12	32	18	274	43	20	9
Paratyphoid fever	22	0	0	8	2	1	2	0	0	0	0	0	0	0	7	0	0	1	1	0	0	0
Pertussis	1023	8	77	68	82	137	6	50	15	44	18	5	37	43	120	13	37	14	194	16	15	24
Rheumatic fever	148	17	9	10	49	21	2	7	6	2	8	1	3	5	5	2	0	0	1	0	0	0
Rickettsial disease	18	1	5	2	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Salmonellosis	1124	37	100	102	78	92	16	47	13	26	40	7	30	32	54	12	45	11	174	38	121	49
Shigellosis	112	6	19	13	20	11	0	6	0	0	5	0	0	2	5	0	3	0	14	2	5	1
Tuberculosis disease	323	7	35	61	69	20	2	13	9	1	9	2	10	10	23	1	8	1	26	3	9	4
Typhoid fever	30	1	4	10	6	2	0	3	0	0	0	0	0	0	2	0	0	0	2	0	0	0
VTEC/STEC infection	143	4	16	8	7	24	7	15	3	8	7	2	2	0	2	3	1	1	27	0	3	3
Yersiniosis	403	7	56	42	33	27	10	13	3	19	22	3	8	24	57	1	7	6	41	9	10	5
Total	17945	517	1921	1821	1639	1807	478	850	154	548	726	256	565	662	1389	182	471	177	2342	309	709	422

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.