

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 6 September 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

- *Cholera*: One case of cholera, still under investigation, was reported in August 2010. The case had travelled to Thailand and Australia.
- *Cryptosporidiosis*: 61 cases of cryptosporidiosis were notified in August 2010 compared to 48 cases notified during the same month of the previous year. The highest number of cases was reported in Waikato DHB (15 cases), followed by Waitemata DHB (9 cases). The highest number of cases was reported in the 1-4 years age group (23 cases). Three cases were hospitalised. *Cryptosporidium parvum* oocysts were detected in faecal specimens for 98.4% (60/61) of the cases.
- *Giardiasis*: 141 cases of giardiasis were notified in August 2010 compared to 127 cases notified in the same month of the previous year (Figure 1). The highest number of cases was reported in Canterbury DHB (31 cases), followed by Auckland (23 cases) and Waitemata (21 cases) DHBs. The cases were aged between less than one year and over 70 years, with the highest number of cases in the 30-39 year age group (38 cases). Among the cases where risk information was recorded, 42.1% (16/38) had contact with faecal matter, 32.4% (12/37) had contact with farm animals, 31.3% (10/32) had consumed untreated water, 27.5% (14/51) had attended school, and 15.4% (6/39) had recreational contact with water. Seven *Giardia* outbreaks (6 completed, 1 interim) involving 25 cases were reported in August.
- *Haemophilus influenzae* type b: Two cases of *Haemophilus influenzae* serotype b were notified in August 2010. The cases were in Northland and Counties Manukau DHBs. One case was male and the other female. Both cases were aged less than 1 month and therefore not eligible for immunisation. Both cases have since been de-notified after further investigation.
- *Hydatid disease*: One confirmed case of hydatid disease from Tairāwhiti DHB was notified in August 2010. The case was a female of Māori ethnicity in the 20-39 years age group. MAF has been informed and this case is still under investigation.
- *Invasive pneumococcal disease*: 72 cases of invasive pneumococcal disease were notified in August 2010. The highest number of cases were reported from Waitemata and Counties Manukau (10 cases each) DHBs. The cases were distributed by age as follows 4 (<1 years), 7 (1-4 years), 1 (5-9 years), 2 (10-14 years), 2 (15-19 years), 3 (20-29 years), 6 (30-39 years), 6 (40-49 years), 5 (50-59 years), 12 (60-69 years) and 23 (70+ years). There were 60 hospitalisations and three deaths from invasive pneumococcal disease reported. Of the cases where risk factor information was available, 65.4% (34/52) had a chronic illness, 31.1% (14/45) were current smokers, and 14.3% (7/49) were immunocompromised.

- *Legionellosis*: 26 cases of legionellosis were notified in August 2010 (4 confirmed, 3 probable and 19 under investigation) compared to two cases notified in the same month of the previous year. The highest number of cases were from Auckland and Counties Manukau (7 cases each) DHBs. Cases were aged between 15-19 years and over 70 years, with 69.2% (18/26) of cases aged over 40 years. There were 14 hospitalisations reported. The *Legionella* species was identified in 8 cases; *Legionella dumoffii* (2 cases), *L. pneumophila* serogroup 1 (2 cases), *L. bozemanii* serogroup 1, *L. longbeachae* serogroup 1 or 2, *L. pneumophila* serogroup 1, *L. pneumophila* serogroup 2 (1 case each).
- *Meningococcal disease*: Based on the earliest date available¹, 11 cases of meningococcal disease were notified during August 2010, nine (81.8%) of which were laboratory-confirmed. In comparison, 14 cases (12 laboratory-confirmed) were notified in the previous month and 26 (21 laboratory-confirmed) during the same month last year. For the 12-month period ending 31 August 2010, the highest incidence rate was reported in MidCentral DHB (7.2 per 100 000 population, 12 cases), followed by Tairāwhiti (6.5 per 100 000, 3 cases), Hawke's Bay and Northland (4.5 per 100 000, 7 cases each) DHBs. The highest age-specific rate was in infants aged less than one year (42.8 per 100 000 population, 27 cases), followed by those in the 1-4 years age group (13.6 per 100 000, 33 cases).
- *Non-seasonal influenza*: In New Zealand, non seasonal influenza A (H1N1) became notifiable on 29 April 2009 and 1144 cases of influenza A (H1N1) were notified in August 2010 (1108 confirmed, 12 probable and 24 under investigation), compared to 383 cases notified in July 2010. There were 445 hospitalised cases in August. The highest number of cases was recorded from Canterbury (175 cases) followed by Waikato (169 cases) and Bay of Plenty (133 cases) DHBs. For more information on the non seasonal influenza A (H1N1) situation in New Zealand see <http://www.moh.govt.nz/influenza-a-h1n1>.
- *Rickettsial disease*: Four cases of rickettsial disease were notified in August 2010 (1 confirmed, 1 probable, and 2 under investigation). One case was notified as murine typhus, one as Q fever, and the remaining two cases were for rickettsial disease that was not further specified. The laboratory-confirmed case of *murine typhus* was of a female aged 40-49 years from Waikato DHB who had been in contact with rats. The probable case of Q fever was of a male in the 50-59 years age group from Waikato DHB who had been in contact with animals. MAF was informed of this case. The two cases of *Rickettsial* disease, both still under investigation, had been overseas during the incubation period in Fiji and Samoa.
- *Salmonellosis*: 96 cases of salmonellosis were notified in August 2010 compared to 80 cases notified in the same month of the previous year (Figure 2). There were 84 (87.5%) laboratory-confirmed cases. The highest numbers of cases were reported from Waitemata (16 cases), Otago (11 cases) and Canterbury (10 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 (15 cases), 40-49 years (14 cases), 60-69 years (13 cases) and 30-39 years (12 cases) age groups. Six of the reported cases were hospitalised. The serotype involved was identified in 56 of the cases, and the dominant serotypes were *Salmonella* Typhimurium phage type RDNC-May 06 (7 cases), *S. Typhimurium* phage type 160 (7 cases), and *S. Brandenburg* (4 cases).
- *VTEC/STEC infection*: 21 cases of VTEC/STEC infection were notified in August 2010, compared to seven cases notified in the same month of the previous year. The cases were aged from less than 1 year to 70+ years, with the highest number of cases in children under 5 years (11 cases). Five cases were hospitalised. *Escherichia coli* O157:H7 was isolated in 14 cases and *E. coli* ONT:H23 in one case. Among the cases for which risk factor information was recorded, 100% (7/7) had contact with manure, 88.9% (8/9) had contact with animals, 44.4% (4/9) had contact with children in nappies, and 22.2% (2/9) had contact with another person with similar symptoms.

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

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

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Cryptosporidium</i>	Auckland	3	7
Gastroenteritis	Auckland, Waikato, Wellington, Canterbury	5	76
<i>Giardia</i>	Auckland, Southland	6	21
Pandemic influenza (H1N1) 09	Waikato	2	4
Norovirus	Auckland, Wellington, Canterbury	3	28
Rotavirus	Waikato	1	15
Total		20	151

Interim outbreak reports: 31 interim outbreaks have been reported in August 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 August 2010

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Waikato	1	2
Chest infection	Tauranga	1	6
<i>Cryptosporidium</i>	Waikato	1	2
<i>Escherichia coli</i> O157:H7	Waikato	1	2
Gastroenteritis	Auckland, Waikato, Gisborne, Taranaki, Wanganui, Manawatu, Otago	20	180
<i>Giardia</i>	Auckland	1	4
Pandemic influenza (H1N1) 09	Rotorua, Nelson Marlborough	2	10
Norovirus	Hawke's Bay	1	5
Rotavirus	Auckland, Waikato	2	7
<i>Salmonella</i>	Auckland	1	-
Total		31	218

3. Deaths from notifiable diseases

Eleven deaths were reported for the month of August from invasive pneumococcal disease and non seasonal influenza A (H1N1) (Table 3).

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

Disease	District Health Board	Age group (years)
Invasive pneumococcal disease	Counties Manukau	70+
Invasive pneumococcal disease	MidCentral	60-69
Invasive pneumococcal disease	Otago	60-69
Non seasonal influenza A (H1N1)	Waitemata	20-29
Non seasonal influenza A (H1N1)	Waitemata	50-59
Non seasonal influenza A (H1N1)	Waitemata	50-59
Non seasonal influenza A (H1N1)	Waitemata	70+
Non seasonal influenza A (H1N1)	Auckland	20-29
Non seasonal influenza A (H1N1)	Auckland	50-59
Non seasonal influenza A (H1N1)	Auckland	70+
Non seasonal influenza A (H1N1)	Waikato	50-59
Non seasonal influenza A (H1N1)	Capital and Coast	30-39

4. Trends in selected diseases to August 2010

Figure 1: Giardiasis notifications by month by year, January 2005 – August 2010

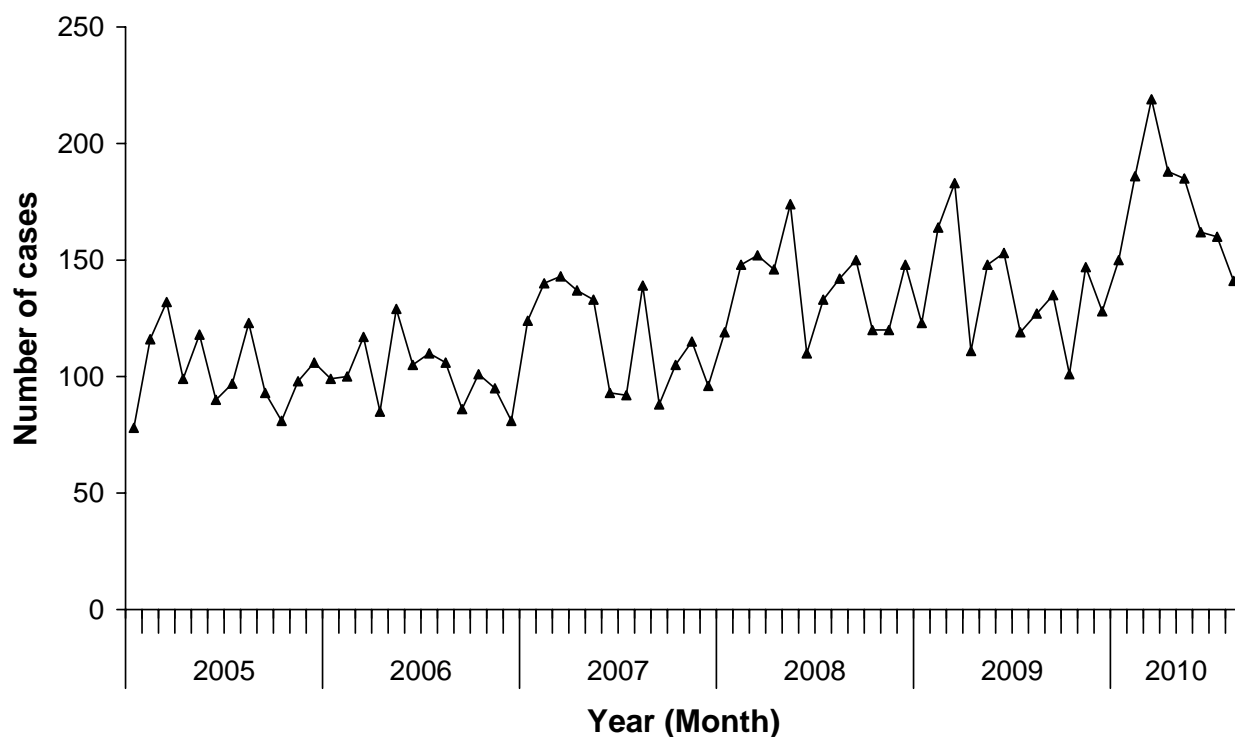
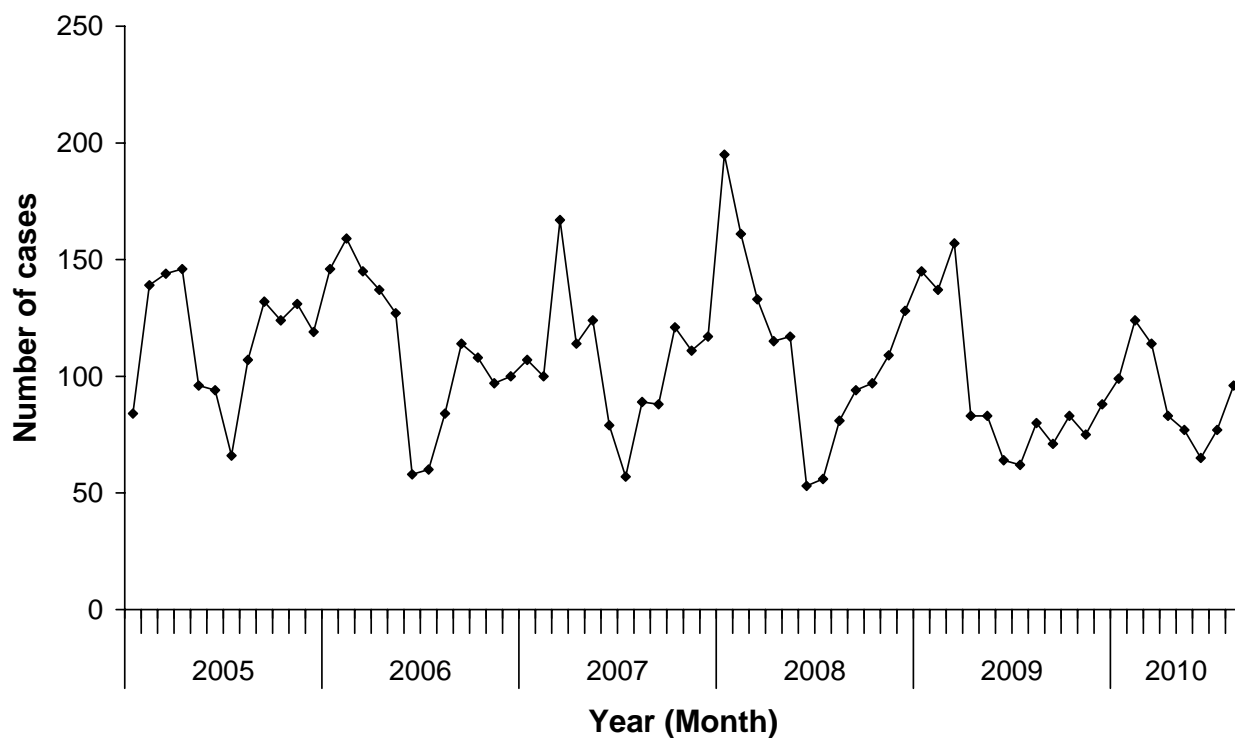


Figure 2: Salmonellosis notifications by month by year, January 2005 – August 2010



5. Data tables

National Notifiable Disease Surveillance Data August 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	August 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	August 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	628	4601	177.5	561	4114	163.1
Cryptosporidiosis	61	511	22.4	48	400	21.3
Dengue fever	4	29	1.0	6	124	3.8
Gastroenteritis ³	33	298	14.1	50	400	16.1
Giardiasis	141	1391	44.1	127	1128	38.6
Haemophilus influenzae type b	2	9	0.3	0	5	0.2
Hazardous substances injury	0	8	0.4	1	2	0.2
Hepatitis A	5	37	1.2	7	30	1.3
Hepatitis B ⁴	3	34	1.2	5	39	1.1
Hepatitis C ⁴	4	11	0.4	1	25	0.8
Invasive pneumococcal disease ⁵	72	375	14.3	58	453	13.4
Lead absorption	10	121	4.6	11	193	6.1
Legionellosis	26	115	3.3	2	46	1.9
Leptospirosis	9	62	2.2	5	37	2.0
Listeriosis	1	20	0.7	3	18	0.6
Malaria	6	36	1.2	6	36	1.2
Measles	10	49	2.4	68	195	4.6
Meningococcal disease ⁶	12	72	2.6	25	92	3.1
Mumps	6	38	1.4	8	39	1.2
Non seasonal influenza A (H1N1) ⁷	1144	1570	37.9	299	3604	83.5
Paratyphoid fever	1	14	0.5	4	19	0.6
Pertussis	79	621	26.7	110	867	25.2
Rheumatic fever	10	113	3.3	18	110	3.6
Rickettsial disease	4	15	0.4	2	3	0.1
Rubella	1	2	0.0	0	4	0.1
Salmonellosis	96	735	24.4	80	811	28.7
Shigellosis	9	90	2.8	11	90	3.0
Tuberculosis disease	19	210	7.0	36	208	7.2
Typhoid fever	3	26	0.7	2	30	0.8
VTEC/STEC infection	21	111	3.6	7	99	3.0
Yersiniosis	35	253	9.3	25	282	9.7

¹ These data are provisional

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

Notifiable Disease Surveillance Data by District Health Board August 2010

		Cases ¹ and current rate ² for August 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	24	85	61	62	72	15	16	0	32	26	5	21	16	45	5	24	4	71	7	24	13
	Rate	116.9	178.8	169.8	139.7	189.4	196.5	166.1	108.2	256.8	224.8	199.5	161.5	265.6	241.9	235.2	151.3	174.9	153.2	207.0	161.8	169.9
Cryptosporidiosis	Cases	3	9	4	4	15	0	1	0	3	3	0	2	0	1	0	0	2	3	4	3	4
	Rate	26.3	15.9	15.3	10.0	36.4	8.8	7.7	13.0	24.0	24.0	14.3	12.1	7.7	21.5	25.0	27.0	73.6	44.2	55.8	23.3	25.9
Dengue fever	Cases	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	2.5	0.8	1.7	0.0	1.4	2.2	0.0	0.0	1.6	0.6	0.7	2.4	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Gastroenteritis	Cases	0	2	7	1	1	0	0	0	0	0	0	5	9	4	0	1	0	2	0	0	1
	Rate	2.6	11.9	19.6	6.2	6.1	6.9	2.9	0.0	5.5	7.8	22.2	41.0	35.7	24.6	5.0	6.6	273.1	9.8	1.8	8.0	3.6
Giardiasis	Cases	3	21	23	11	4	1	6	1	2	4	1	5	4	10	0	6	0	31	0	4	4
	Rate	35.3	44.3	63.9	39.0	46.1	48.1	28.9	32.5	33.3	58.5	50.7	19.9	32.9	53.5	45.0	37.3	30.7	53.4	30.6	32.9	29.5
Haemophilus influenzae type b	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.8	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	0.7	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	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.6	0.4	2.7	1.9	1.1	1.0	1.0	0.0	0.0	1.3	0.0	1.8	1.4	0.3	0.0	0.0	0.0	1.6	0.0	1.6	0.9
Hepatitis B	Cases	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	0.4	2.0	1.9	0.6	2.0	1.0	6.5	0.0	1.9	1.6	0.6	0.7	1.0	5.0	0.7	0.0	1.0	0.0	1.1	0.0
Hepatitis C	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.5	0.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.4	1.0	2.5	0.0	0.0	0.0	1.8	0.5	0.0
Invasive pneumococcal disease ⁴	Cases	3	10	6	10	3	5	7	0	1	6	0	2	4	3	1	1	1	6	0	3	0
	Rate	16.1	12.1	10.4	22.6	14.2	27.5	23.6	6.5	14.8	16.9	17.4	10.8	16.1	9.7	20.0	6.6	3.1	10.2	1.8	17.0	17.9
Lead absorption	Cases	0	2	2	0	0	0	1	0	0	1	2	0	1	0	0	0	0	0	0	1	0
	Rate	2.6	2.8	3.2	2.3	4.7	5.9	3.9	10.8	1.8	4.5	11.1	6.6	11.2	3.8	2.5	7.3	0.0	5.8	16.2	8.0	1.8
Legionellosis	Cases	3	3	7	7	0	0	0	0	0	1	0	0	0	1	0	0	0	3	0	0	1
	Rate	9.0	4.4	4.7	4.2	0.6	0.0	3.9	2.2	1.8	3.2	0.0	1.2	2.8	1.0	0.0	0.0	12.3	5.2	3.6	0.5	4.5
Leptospirosis	Cases	0	0	0	0	0	0	0	0	0	4	0	2	0	0	1	0	0	1	0	1	0
	Rate	1.3	0.2	0.2	0.2	6.7	2.0	1.9	0.0	2.8	5.8	7.9	8.4	0.0	0.0	2.5	2.2	21.5	2.0	1.8	1.1	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	0.6	0.4	1.1	0.8	1.4	0.0	1.0	4.3	0.0	0.0	0.0	1.8	0.7	0.3	0.0	0.0	3.1	0.0	0.0	1.6	0.0
Malaria	Cases	0	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	1.1	2.5	2.3	0.3	0.0	1.9	0.0	1.8	0.6	0.0	0.0	0.0	1.0	2.5	0.7	0.0	1.4	0.0	0.5	0.9
Measles	Cases	0	2	6	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	22.5	0.6	1.8	0.2	0.0	1.0	1.0	0.0	0.0	0.6	0.0	1.2	0.0	0.7	2.5	0.7	21.5	7.4	0.0	0.5	0.0
Meningococcal disease ⁵	Cases	0	1	0	4	1	0	1	0	0	1	0	1	0	0	0	1	0	1	0	1	0
	Rate	4.5	1.1	1.6	4.4	2.2	2.0	4.3	4.3	2.8	4.5	1.6	7.2	3.5	1.7	0.0	0.7	3.1	1.6	0.0	2.7	2.7
Mumps	Cases	0	1	1	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	1.9	1.5	0.7	1.5	0.6	1.0	0.5	0.0	4.6	0.0	0.0	0.0	2.8	2.4	10.0	1.5	3.1	2.0	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	51	57	82	102	169	64	133	9	35	41	27	52	13	67	11	14	13	175	10	13	6
	Rate	38.5	23.3	30.8	36.7	65.6	92.3	84.2	26.0	46.2	29.9	44.3	33.8	10.5	35.1	30.0	16.8	43.0	43.0	68.4	9.0	5.4
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	1.4	0.4	0.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Pertussis	Cases	2	6	9	13	7	0	4	3	3	1	0	1	1	4	0	9	2	11	1	0	2
	Rate	7.7	17.2	13.5	17.4	52.5	10.8	25.0	30.3	47.1	11.0	9.5	20.5	30.8	44.4	35.0	28.5	49.1	47.6	34.2	6.9	17.0
Rheumatic fever	Cases	0	1	1	6	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	9.0	1.5	2.3	10.4	6.7	2.9	3.4	15.2	0.9	3.9	1.6	1.2	1.4	2.1	2.5	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	0.5	0.2	2.5	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	1	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	4	16	6	7	5	1	4	0	3	3	2	1	4	4	4	4	1	10	1	11	5
	Rate	25.0	18.7	21.4	16.0	23.9	15.7	21.2	34.6	21.2	22.1	9.5	17.5	21.7	17.4	35.0	34.4	33.8	30.1	63.0	55.7	39.3
Shigellosis	Cases	0	1	0	2	1	0	1	0	0	0	0	0	0	2	0	0	0	2	0	0	0
	Rate	4.5	3.8	2.9	4.8	3.1	0.0	2.9	0.0	0.0	3.2	0.0	0.0	2.1	1.7	0.0	2.2	3.1	2.6	3.6	3.2	0.9
Tuberculosis disease	Cases	1	0	5	2	2	0	1	0	1	1	0	1	1	2	1	0	0	1	0	0	0
	Rate	3.9	7.9	13.5	13.3	5.3	2.0	4.8	19.5	0.9	5.8	3.2	4.8	7.0	5.9	5.0	3.7	9.2	4.4	3.6	2.7	2.7
Typhoid fever	Cases	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	2.0	1.5	0.6	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	3	1	0	6	0	3	0	2	0	0	0	0	0	2	0	0	4	0	0	0
	Rate	1.3	2.5	1.8	1.7	6.7	4.9	8.2	4.3	12.0	4.5	3.2	0.6	0.0	1.4	10.0	2.2	3.1	6.4	1.8	2.7	2.7
Yersiniosis	Cases	1	3	2	2	2	3	2	0	0	4	0	0	2	9	0	1	1	2	1	0	0
	Rate	5.1	10.2	11.0	7.1	6.4	8.8	4.3	8.7	7.4	13.0	6.3	4.8	15.4	19.8	2.5	3.7	33.8	10.0	16.2	6.4	3.6

¹ These data are provisional

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

		Cases ¹ and current rate ² for August 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	24	85	61	62	72	15	16	0	32	26	5	21	16	45	5	24	4	71	7	24	13
	Rate	116.9	178.8	169.8	139.7	189.4	196.5	166.1	108.2	256.8	224.8	199.5	161.5	265.6	241.9	235.2	151.3	174.9	153.2	207.0	161.8	169.9
Cryptosporidiosis	Cases	3	9	4	4	15	0	1	0	3	3	0	2	0	1	0	0	2	3	4	3	4
	Rate	26.3	15.9	15.3	10.0	36.4	8.8	7.7	13.0	24.0	24.0	14.3	12.1	7.7	21.5	25.0	27.0	73.6	44.2	55.8	23.3	25.9
Dengue fever	Cases	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	2.5	0.8	1.7	0.0	1.4	2.2	0.0	0.0	1.6	0.6	0.7	2.4	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Gastroenteritis	Cases	0	2	7	1	1	0	0	0	0	0	0	5	9	4	0	1	0	2	0	0	1
	Rate	2.6	11.9	19.6	6.2	6.1	6.9	2.9	0.0	5.5	7.8	22.2	41.0	35.7	24.6	5.0	6.6	273.1	9.8	1.8	8.0	3.6
Giardiasis	Cases	3	21	23	11	4	1	6	1	2	4	1	5	4	10	0	6	0	31	0	4	4
	Rate	35.3	44.3	63.9	39.0	46.1	48.1	28.9	32.5	33.3	58.5	50.7	19.9	32.9	53.5	45.0	37.3	30.7	53.4	30.6	32.9	29.5
Haemophilus influenzae type b	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.8	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	0.7	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	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.6	0.4	2.7	1.9	1.1	1.0	1.0	0.0	0.0	1.3	0.0	1.8	1.4	0.3	0.0	0.0	0.0	1.6	0.0	1.6	0.9
Hepatitis B	Cases	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	0.4	2.0	1.9	0.6	2.0	1.0	6.5	0.0	1.9	1.6	0.6	0.7	1.0	5.0	0.7	0.0	1.0	0.0	1.1	0.0
Hepatitis C	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.5	0.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.4	1.0	2.5	0.0	0.0	0.0	1.8	0.5	0.0
Invasive pneumococcal disease ⁴	Cases	3	10	6	10	3	5	7	0	1	6	0	2	4	3	1	1	1	6	0	3	0
	Rate	16.1	12.1	10.4	22.6	14.2	27.5	23.6	6.5	14.8	16.9	17.4	10.8	16.1	9.7	20.0	6.6	3.1	10.2	1.8	17.0	17.9
Lead absorption	Cases	0	2	2	0	0	0	1	0	0	1	2	0	1	0	0	0	0	0	0	1	0
	Rate	2.6	2.8	3.2	2.3	4.7	5.9	3.9	10.8	1.8	4.5	11.1	6.6	11.2	3.8	2.5	7.3	0.0	5.8	16.2	8.0	1.8
Legionellosis	Cases	3	3	7	7	0	0	0	0	0	1	0	0	0	1	0	0	0	3	0	0	1
	Rate	9.0	4.4	4.7	4.2	0.6	0.0	3.9	2.2	1.8	3.2	0.0	1.2	2.8	1.0	0.0	0.0	12.3	5.2	3.6	0.5	4.5
Leptospirosis	Cases	0	0	0	0	0	0	0	0	0	4	0	2	0	0	1	0	0	1	0	1	0
	Rate	1.3	0.2	0.2	0.2	6.7	2.0	1.9	0.0	2.8	5.8	7.9	8.4	0.0	0.0	2.5	2.2	21.5	2.0	1.8	1.1	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	0.6	0.4	1.1	0.8	1.4	0.0	1.0	4.3	0.0	0.0	0.0	1.8	0.7	0.3	0.0	0.0	3.1	0.0	0.0	1.6	0.0
Malaria	Cases	0	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	1.1	2.5	2.3	0.3	0.0	1.9	0.0	1.8	0.6	0.0	0.0	0.0	1.0	2.5	0.7	0.0	1.4	0.0	0.5	0.9
Measles	Cases	0	2	6	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	22.5	0.6	1.8	0.2	0.0	1.0	1.0	0.0	0.0	0.6	0.0	1.2	0.0	0.7	2.5	0.7	21.5	7.4	0.0	0.5	0.0
Meningococcal disease ⁵	Cases	0	1	0	4	1	0	1	0	0	1	0	1	0	0	0	1	0	1	0	1	0
	Rate	4.5	1.1	1.6	4.4	2.2	2.0	4.3	4.3	2.8	4.5	1.6	7.2	3.5	1.7	0.0	0.7	3.1	1.6	0.0	2.7	2.7
Mumps	Cases	0	1	1	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	1.9	1.5	0.7	1.5	0.6	1.0	0.5	0.0	4.6	0.0	0.0	0.0	2.8	2.4	10.0	1.5	3.1	2.0	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	51	57	82	102	169	64	133	9	35	41	27	52	13	67	11	14	13	175	10	13	6
	Rate	38.5	23.3	30.8	36.7	65.6	92.3	84.2	26.0	46.2	29.9	44.3	33.8	10.5	35.1	30.0	16.8	43.0	43.0	68.4	9.0	5.4
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	1.4	0.4	0.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Pertussis	Cases	2	6	9	13	7	0	4	3	3	1	0	1	1	4	0	9	2	11	1	0	2
	Rate	7.7	17.2	13.5	17.4	52.5	10.8	25.0	30.3	47.1	11.0	9.5	20.5	30.8	44.4	35.0	28.5	49.1	47.6	34.2	6.9	17.0
Rheumatic fever	Cases	0	1	1	6	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	9.0	1.5	2.3	10.4	6.7	2.9	3.4	15.2	0.9	3.9	1.6	1.2	1.4	2.1	2.5	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	0.5	0.2	2.5	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	1	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	4	16	6	7	5	1	4	0	3	3	2	1	4	4	4	4	1	10	1	11	5
	Rate	25.0	18.7	21.4	16.0	23.9	15.7	21.2	34.6	21.2	22.1	9.5	17.5	21.7	17.4	35.0	34.4	33.8	30.1	63.0	55.7	39.3
Shigellosis	Cases	0	1	0	2	1	0	1	0	0	0	0	0	0	2	0	0	0	2	0	0	0
	Rate	4.5	3.8	2.9	4.8	3.1	0.0	2.9	0.0	0.0	3.2	0.0	0.0	2.1	1.7	0.0	2.2	3.1	2.6	3.6	3.2	0.9
Tuberculosis disease	Cases	1	0	5	2	2	0	1	0	1	1	0	1	1	2	1	0	0	1	0	0	0
	Rate	3.9	7.9	13.5	13.3	5.3	2.0	4.8	19.5	0.9	5.8	3.2	4.8	7.0	5.9	5.0	3.7	9.2	4.4	3.6	2.7	2.7
Typhoid fever	Cases	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	2.0	1.5	0.6	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	3	1	0	6	0	3	0	2	0	0	0	0	0	2	0	0	4	0	0	0
	Rate	1.3	2.5	1.8	1.7	6.7	4.9	8.2	4.3	12.0	4.5	3.2	0.6	0.0	1.4	10.0	2.2	3.1	6.4	1.8	2.7	2.7
Yersiniosis	Cases	1	3	2	2	2	3	2	0	0	4	0	0	2	9	0	1	1	2	1	0	0
	Rate	5.1	10.2	11.0	7.1	6.4	8.8	4.3	8.7	7.4	13.0	6.3	4.8	15.4	19.8	2.5	3.7	33.8	10.0	16.2	6.4	3.6

¹ These data are provisional

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

Disease	Cases for the 12 months ending August 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	7662	182	945	754	673	682	200	345	50	278	346	126	268	379	697	94	207	57	769	115	305	190
Cryptosporidiosis	965	41	84	68	48	131	9	16	6	26	37	9	20	11	62	10	37	24	222	31	44	29
Dengue fever	44	1	5	11	4	6	0	3	1	0	0	1	1	1	7	0	0	0	3	0	0	0
Gastroenteritis	610	4	63	87	30	22	7	6	0	6	12	14	68	51	71	2	9	89	49	1	15	4
Giardiasis	1902	55	234	284	188	166	49	60	15	36	90	32	33	47	154	18	51	10	268	17	62	33
Haemophilus influenzae type b	14	1	2	0	4	4	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
Hazardous substances injury	17	1	5	3	0	0	0	0	0	0	5	0	0	0	3	0	0	0	0	0	0	0
Hepatitis A	51	1	2	12	9	4	1	2	0	0	2	0	3	2	1	0	0	0	8	0	3	1
Hepatitis B	50	2	2	9	9	2	2	2	3	0	3	1	1	1	3	2	1	0	5	0	2	0
Hepatitis C	18	0	2	2	2	0	0	0	0	4	0	0	0	2	3	1	0	0	0	1	1	0
Invasive pneumococcal disease ⁴	619	25	64	46	109	51	28	49	3	16	26	11	18	23	28	8	9	1	51	1	32	20
Lead absorption	200	4	15	14	11	17	6	8	5	2	7	7	11	16	11	1	10	0	29	9	15	2
Legionellosis	143	14	23	21	20	2	0	8	1	2	5	0	2	4	3	0	0	4	26	2	1	5
Leptospirosis	94	2	1	1	1	24	2	4	0	3	9	5	14	0	0	1	3	7	10	1	2	4
Listeriosis	30	1	2	5	4	5	0	2	2	0	0	0	3	1	1	0	0	1	0	0	3	0
Malaria	50	0	6	11	11	1	0	4	0	2	1	0	0	0	3	1	1	0	7	0	1	1
Measles	102	35	3	8	1	0	1	2	0	0	1	0	2	0	2	1	1	7	37	0	1	0
Meningococcal disease ⁵	113	7	6	7	21	8	2	9	2	3	7	1	12	5	5	0	1	1	8	0	5	3
Mumps	62	3	8	3	7	2	1	1	0	5	0	0	0	4	7	4	2	1	10	1	3	0
Non seasonal influenza A (H1N1) ⁶	1636	60	123	137	177	236	94	175	12	50	46	28	56	15	101	12	23	14	216	38	17	6
Paratyphoid fever	20	0	0	6	2	1	3	0	0	0	0	0	0	1	6	0	0	0	1	0	0	0
Pertussis	1152	12	91	60	84	189	11	52	14	51	17	6	34	44	128	14	39	16	239	19	13	19
Rheumatic fever	143	14	8	10	50	24	3	7	7	1	6	1	2	2	6	1	0	0	1	0	0	0
Rickettsial disease	17	1	4	2	1	9	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	1052	39	99	95	77	86	16	44	16	23	34	6	29	31	50	14	47	11	151	35	105	44
Shigellosis	119	7	20	13	23	11	0	6	0	0	5	0	0	3	5	0	3	1	13	2	6	1
Tuberculosis disease	301	6	42	60	64	19	2	10	9	1	9	2	8	10	17	2	5	3	22	2	5	3
Typhoid fever	30	1	4	9	7	2	0	3	0	0	0	0	0	0	2	0	0	0	2	0	0	0
VTEC/STEC infection	155	2	13	8	8	24	5	17	2	13	7	2	1	0	4	4	3	1	32	1	5	3
Yersiniosis	401	8	54	49	34	23	9	9	4	8	20	4	8	22	57	1	5	11	50	9	12	4
Total	17774	529	1931	1795	1679	1751	451	844	152	530	695	257	595	675	1438	191	457	259	2230	285	658	372

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 August 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	August 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	August 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	628	4601	177.5	561	4114	163.1
Cryptosporidiosis	61	511	22.4	48	400	21.3
Dengue fever	4	29	1.0	6	124	3.8
Gastroenteritis ³	33	298	14.1	50	400	16.1
Giardiasis	141	1391	44.1	127	1128	38.6
Haemophilus influenzae type b	2	9	0.3	0	5	0.2
Hazardous substances injury	0	8	0.4	1	2	0.2
Hepatitis A	5	37	1.2	7	30	1.3
Hepatitis B ⁴	3	34	1.2	5	39	1.1
Hepatitis C ⁴	4	11	0.4	1	25	0.8
Invasive pneumococcal disease ⁵	72	375	14.3	58	453	13.4
Lead absorption	10	121	4.6	11	193	6.1
Legionellosis	26	115	3.3	2	46	1.9
Leptospirosis	9	62	2.2	5	37	2.0
Listeriosis	1	20	0.7	3	18	0.6
Malaria	6	36	1.2	6	36	1.2
Measles	10	49	2.4	68	195	4.6
Meningococcal disease ⁶	12	72	2.6	25	92	3.1
Mumps	6	38	1.4	8	39	1.2
Non seasonal influenza A (H1N1) ⁷	1144	1570	37.9	299	3604	83.5
Paratyphoid fever	1	14	0.5	4	19	0.6
Pertussis	79	621	26.7	110	867	25.2
Rheumatic fever	10	113	3.3	18	110	3.6
Rickettsial disease	4	15	0.4	2	3	0.1
Rubella	1	2	0.0	0	4	0.1
Salmonellosis	96	735	24.4	80	811	28.7
Shigellosis	9	90	2.8	11	90	3.0
Tuberculosis disease	19	210	7.0	36	208	7.2
Typhoid fever	3	26	0.7	2	30	0.8
VTEC/STEC infection	21	111	3.6	7	99	3.0
Yersiniosis	35	253	9.3	25	282	9.7

¹ These data are provisional

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