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## 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 July 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

- *Giardiasis*: 162 cases of giardiasis were notified in June 2010 compared to 153 cases notified in the same month the previous year. The highest number of cases were reported in Waitemata and Canterbury DHBs (23 cases each), followed by Auckland and Capital and Coast DHBs (22 cases each). Among the cases where risk information was recorded, 48.5% (16/33) had contact with other symptomatic people, 44.4% (12/27) had faecal contact, 10.0% (10/25) had contact with farm animals, and 15.8% (6/38) were overseas during incubation period. Eleven *Giardia* outbreaks involving 31 cases were reported in June.
- *Hydatid disease*: One case of hydatid disease from Waitemata DHB was notified in June 2010. This case was found not to meet the case definition and has since been denotified.
- *Legionellosis*: 20 cases of legionellosis were notified in June 2010 (4 confirmed, 1 probable and 15 under investigation) compared to four cases notified in the same month of the previous year. The highest number of cases were from Waitemata (7 cases) and Auckland (4 cases) DHBs. The cases were distributed by age as follows: 5-9 years (1 case), 15-19 years (1 case), 30-39 years (4 cases), 40-49 years (3 cases), 50-59 years (2 cases), 60-69 years (4 cases) and 70+ years (5 cases). Thirteen cases were hospitalised. The species involved was identified in six cases; *Legionella bozemanai* serogroup 1, *L. dumoffii*, *L. longbeachae* serogroup 1 or 2, *L. pneumophila* serogroup 1, *L. pneumophila* serogroup 15, and *L. pneumophila* serogroup 6 (1 case each).
- *Meningococcal disease*: Based on the earliest date available<sup>1</sup>, 10 cases of meningococcal disease were notified during June 2010, seven (70.0%) of which were laboratory-confirmed. In comparison, eight cases were notified in the previous month and 12 during the same month last year. For the 12-month period ending 30 June 2010, the highest incidence rate was reported in Tairāwhiti DHB (10.8 per 100 000 population, 5 cases), followed by MidCentral (7.2 per 100 000, 12 cases) and Northland (6.4 per 100 000, 10 cases) DHBs. The highest age-specific rate was in infants aged less than one year (47.6 per 100 000 population, 30 cases), followed by those in the 1-4 years age group (15.7 per 100 000, 38 cases).

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<sup>1</sup> 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.

- *Shigellosis*: 20 cases of shigellosis were notified in June 2010 compared to nine in the same month of the previous year. Seven cases were hospitalised. The highest number of notifications was reported in Counties Manukau DHB (5 cases), followed by Waitemata DHB (4 cases). Cases were aged between 1-4 years and 70+ years, with the highest number of notifications in the 20-29 years age group (6 cases). The serotype involved was identified for 16 of the cases: *Shigella flexneri* 2a (5 cases), *S. sonnei* biotype a (3 cases), *S. flexneri* 3a (2 cases), *S. sonnei* biotype g (2 cases), *S. boydii* 1 (1 case), *S. flexneri* 2b (1 case), *S. flexneri* 3c (1 case), and *S. flexneri* 6 (1 case). Three of the Waitemata DHB cases were part of an outbreak. Eight of the cases had been overseas during the incubation period; the most frequent overseas destination was India (3).
- *Taeniasis*: One laboratory-confirmed case of taeniasis was notified in June 2010. The case was a male in the 20-29 years age group from Counties Manukau DHB who had reported overseas travel to Cambodia during the incubation period.
- *Tuberculosis disease*: 32 cases of tuberculosis disease were notified during June 2010, 23 (71.9%) of which were laboratory confirmed. The highest number of notifications was reported in Auckland DHB (9 cases), followed by Waitemata (4 cases), Counties Manukau (4 cases) and Canterbury (4 cases) DHBs. Cases were aged between less than one year and 70+ years, with the highest number of notifications in the 30-39 years age group (8 cases). Ethnicity was recorded for 30 cases (93.8%): Asian (19 cases), Pacific Peoples (4 cases), Maori (3 cases) and European (3 cases). Country of birth was recorded for 23 cases, 18 (78.3%) of which were born overseas. Two Capital and Coast DHB cases were part of separate outbreaks.
- *VTEC/STEC infection*: 13 cases of VTEC/STEC infection were notified in June 2010, compared to 9 cases notified in the same month of the previous year. The highest number of cases was reported in Canterbury DHB (5 cases). The cases were aged between 1-4 years and 60-69 years old, with the highest number of cases in the 1-4 years age group (5 cases). Two cases were hospitalised. *Escherichia coli* O157:H7 was isolated in eight cases. Among the cases for which risk factor information was recorded, 85.7% (6/7) had contact with animals, 57.1% (4/7) attended school, 42.9% (3/7) had contact with nappies, and 28.6% (2/5) had recreational contact with water.
- *Yersiniosis*: 28 cases of yersiniosis were notified in June 2010 compared to 32 cases notified in the previous month and 15 cases in the same month of the previous year. One case was hospitalised. The highest number of notifications was reported in Canterbury DHB (7 cases), followed by Auckland and Waitemata (4 cases each) DHBs. Cases were aged between less than 1 year and 60-69 years, with the highest number of notifications in the 1-4 years age group (8 cases). The serotype involved was identified for 10 of the cases: *Yersinia enterocolitica* Biotype 4 (5 cases), *Y. enterocolitica* Biotype 3 (3 cases), and *Y. pseudotuberculosis* (2 cases).

## 2. Outbreaks

Completed outbreak reports: 26 outbreak reports were entered into EpiSurv and completed during June 2010 (Table 1).

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

Organism/Toxin/Illness	Health District(s) where exposure/transmission occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	West Coast	1	2
<i>Campylobacter</i>	Manawatu	1	2
Ciguatera fish poisoning	Taranaki	1	2
<i>Cryptosporidium</i>	Auckland	2	5
Gastroenteritis	Auckland, Hutt	5	32
<i>Giardia</i>	Auckland, South Canterbury	9	27
Influenza A (H1N1) virus*	Hutt, Wellington	1	9
<i>Mycobacterium tuberculosis</i>	Wellington	1	2
Norovirus	Auckland, Waikato, Hutt, Canterbury	4	57
<i>Salmonella</i>	Auckland	1	3
<b>Total</b>		<b>26</b>	<b>141</b>

\* Exposure/transmission occurred in multiple health districts (Hutt and Wellington).

Interim outbreak reports: 21 interim outbreaks have been reported in June 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 June 2010**

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Waikato, Wellington	2	3
Gastroenteritis	Auckland, Waikato, Taupo, Manawatu, Otago	9	48
<i>Giardia</i>	Waikato	2	4
Norovirus	Northland, Canterbury, Southland	3	26
Rheumatic fever	Auckland	1	2
Rotavirus	Manawatu, Wairarapa	2	12
<i>Salmonella</i>	Waikato	1	4
<i>Shigella</i>	Waikato	1	-
<b>Total</b>		<b>21</b>	<b>99</b>

## 3. Deaths from notifiable diseases

Five deaths were reported for the month of June from invasive pneumococcal disease, meningococcal disease, and tuberculosis disease (new case) (Table 3).

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

Disease	District Health Board	Age group
Invasive pneumococcal disease	Counties Manukau	70+
Invasive pneumococcal disease	Bay of Plenty	70+
Invasive pneumococcal disease	Hutt Valley	50-59
Meningococcal disease	Capital and Coast	1-4
Tuberculosis disease – new case	Auckland	60-69

#### 4. Trends in selected diseases to June 2010

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

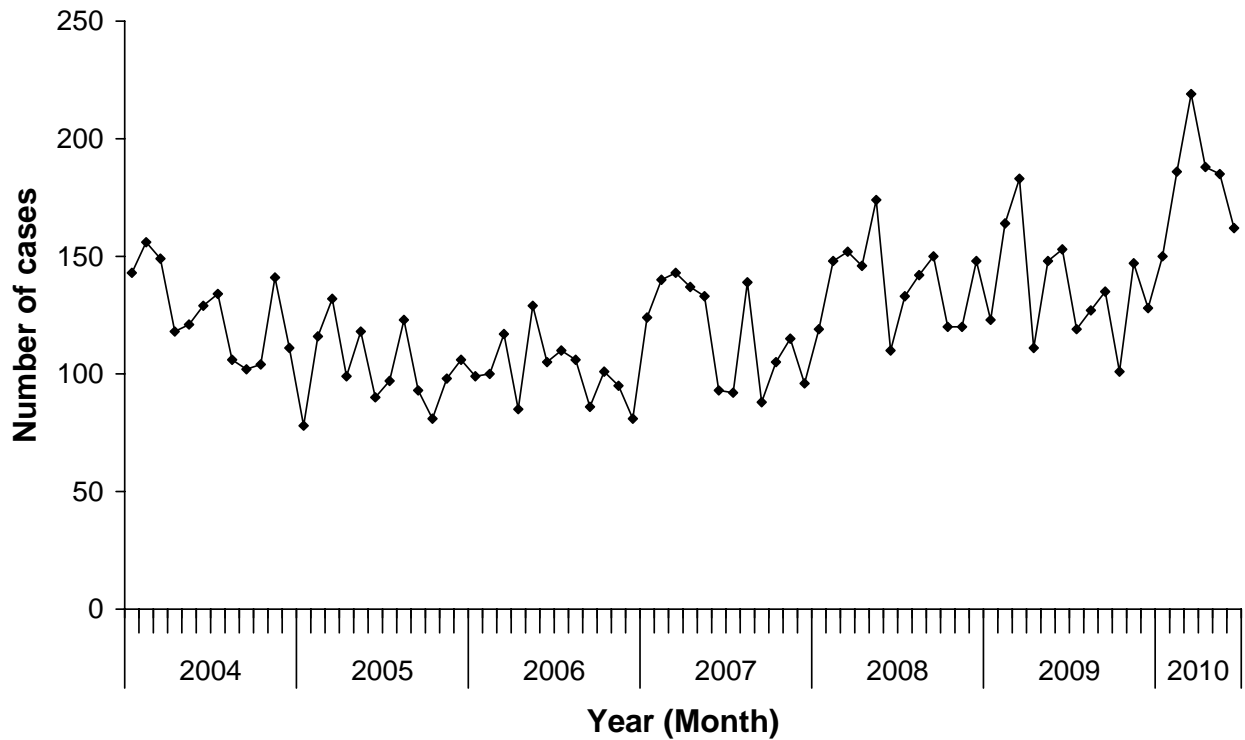
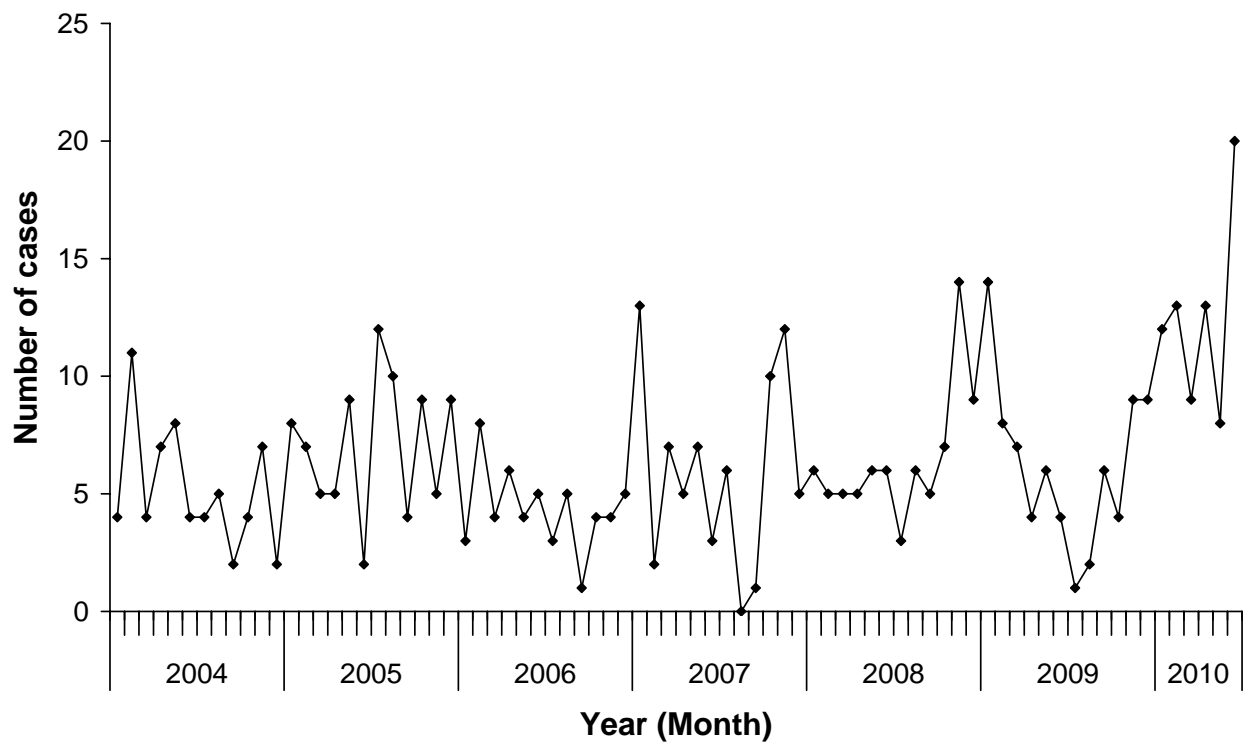


Figure 2: Legionellosis notifications by month by year, January 2004 – June 2010



## 5. Data Tables

### National Notifiable Disease Surveillance Data June 2010

Disease	Current Year - 2010 <sup>1</sup>			Previous Year - 2009		
	June 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	June 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	452	3531	175.4	397	3137	164.4
Cryptosporidiosis	38	421	22.7	67	297	20.7
Dengue fever	5	22	1.1	21	113	4.1
Gastroenteritis <sup>3</sup>	31	225	14.9	50	294	16.1
Giardiasis	162	1090	42.8	153	882	39.7
Haemophilus influenzae type b	2	7	0.3	0	5	0.2
Hazardous substances injury	1	6	0.4	0	1	0.2
Hepatitis A	6	33	1.3	4	19	1.8
Hepatitis B <sup>4</sup>	8	26	1.3	6	23	0.9
Hepatitis C <sup>4</sup>	0	5	0.4	4	19	0.7
Invasive pneumococcal disease <sup>5</sup>	51	220	14.7	80	282	9.6
Lead absorption	19	99	5.0	34	150	6.4
Legionellosis	20	75	2.5	4	43	1.9
Leptospirosis	5	48	2.0	4	29	2.3
Listeriosis	0	16	0.7	2	12	0.7
Malaria	4	25	1.2	0	25	1.1
Measles	3	41	5.8	5	40	1.0
Meningococcal disease <sup>6</sup>	12	48	3.2	10	45	2.8
Mumps	6	26	1.5	5	26	1.2
Non seasonal influenza A (H1N1) <sup>7</sup>	34	43	58.1	1169	1204	28.2
Paratyphoid fever	2	10	0.5	0	13	0.6
Pertussis	71	476	28.3	115	653	21.9
Rheumatic fever	25	85	3.3	22	81	3.9
Rickettsial disease	1	4	0.2	1	1	0.2
Rubella	0	1	0.0	0	4	0.2
Salmonellosis	66	563	23.7	64	669	28.9
Shigellosis	20	64	2.5	9	74	3.0
Tuberculosis disease	32	168	7.5	16	145	6.8
Typhoid fever	1	20	0.6	3	27	1.0
VTEC/STEC infection	13	79	3.1	9	89	3.1
Yersiniosis	28	192	8.9	15	236	10.6

<sup>1</sup> These data are provisional

<sup>2</sup> Rate is based on the cumulative total for the current year (12 months up to and including June 2010) or the previous year (12 months up to and including June 2009), expressed as cases per 100 000

<sup>3</sup> Cases of gastroenteritis from a common source or foodborne intoxication

<sup>4</sup> Only acute cases of this disease are currently notifiable

<sup>5</sup> Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

<sup>6</sup> 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

<sup>7</sup> Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Other notifiable infectious disease reported in June: Hydatid disease (1) , Leprosy (1) , Ross River virus infection (1) , Taeniasis (1)

# Notifiable Disease Surveillance Data by District Health Board June 2010

Cases<sup>1</sup> and current rate<sup>2</sup> for June 2010 by District Health Board<sup>3</sup>

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	56	46	37	38	14	23	5	12	17	5	19	24	41	4	15	2	42	12	17	12
	Rate	125.2	175.1	173.2	136.6	189.4	204.3	165.6	103.9	258.7	232.0	215.4	157.9	279.6	246.1	217.7	134.5	171.8	141.0	198.0	147.0	156.5
Cryptosporidiosis	Cases	1	4	3	3	2	0	0	0	0	4	0	1	2	4	0	3	0	5	1	5	0
	Rate	25.7	16.1	14.9	9.1	33.6	11.8	8.2	13.0	21.2	22.7	14.3	15.1	10.5	32.3	22.5	30.7	67.5	43.0	52.2	21.8	25.0
Dengue fever	Cases	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.6	1.5	2.7	1.0	1.7	1.0	0.5	0.0	0.0	0.6	0.0	0.6	0.7	2.4	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Gastroenteritis	Cases	1	1	4	1	1	1	1	0	3	0	0	5	3	4	2	0	0	2	0	1	1
	Rate	3.2	14.4	23.9	6.9	7.5	6.9	3.4	0.0	5.5	7.8	14.3	36.2	28.7	28.1	7.5	5.8	273.1	9.8	3.6	10.1	2.7
Giardiasis	Cases	2	23	22	12	13	1	3	3	4	11	2	0	3	22	1	2	0	23	4	7	4
	Rate	36.0	41.4	57.9	39.4	48.6	53.0	31.8	21.6	42.5	57.2	52.3	14.5	34.3	58.7	50.0	36.5	33.8	45.4	30.6	30.8	24.1
Haemophilus influenzae type b	Cases	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.0	0.6	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	1	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	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Rate	0.6	0.8	2.7	2.3	1.4	1.0	1.0	0.0	0.0	1.3	0.0	3.0	1.4	0.7	0.0	0.0	0.0	1.4	0.0	1.6	0.9
Hepatitis B	Cases	0	0	3	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0
	Rate	1.9	0.6	2.3	1.9	0.6	2.0	1.4	4.3	0.0	1.3	1.6	0.6	0.0	1.4	7.5	2.2	6.1	1.0	0.0	1.6	0.0
Hepatitis C	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	0.0	0.2	0.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.6	1.4	0.0	5.0	0.0	0.0	0.6	1.8	0.5	0.0
Invasive pneumococcal disease <sup>4</sup>	Cases	0	6	4	11	3	0	5	0	1	1	2	1	1	3	2	1	0	4	0	4	2
	Rate	16.1	11.2	11.3	21.4	15.8	24.6	22.1	19.5	16.6	18.2	20.6	13.9	17.5	10.1	25.0	8.0	0.0	10.0	3.6	17.0	17.9
Lead absorption	Cases	1	2	0	0	1	0	0	0	1	0	1	0	3	1	0	1	0	6	0	1	1
	Rate	3.9	2.8	3.2	3.1	4.2	5.9	1.4	10.8	2.8	3.2	9.5	7.8	11.9	3.8	5.0	8.8	0.0	7.0	16.2	10.1	4.5
Legionellosis	Cases	2	7	4	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	2
	Rate	7.7	3.6	2.7	1.9	0.6	0.0	3.9	2.2	1.8	2.6	0.0	1.2	1.4	0.3	0.0	0.7	12.3	4.2	3.6	0.5	2.7
Leptospirosis	Cases	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	1
	Rate	1.9	0.2	0.2	0.2	6.4	2.0	2.4	0.0	3.7	2.6	7.9	7.8	0.0	0.3	0.0	2.2	18.4	2.0	1.8	0.0	4.5
Listeriosis	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	0.6	1.1	0.8	1.4	0.0	1.4	6.5	0.9	0.0	0.0	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0
Malaria	Cases	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	0.0	1.1	2.0	2.9	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	1.2	0.0	0.0	0.9
Measles	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
	Rate	23.1	2.3	2.0	0.6	0.0	1.0	1.0	0.0	0.0	0.6	0.0	1.2	0.0	0.7	0.0	1.5	24.5	32.7	1.8	2.1	1.8
Meningococcal disease <sup>5</sup>	Cases	4	1	1	1	1	0	0	0	0	1	0	2	0	1	0	0	0	0	0	0	0
	Rate	6.4	1.5	2.7	3.9	2.5	1.0	4.8	10.8	2.8	5.8	1.6	7.2	4.2	2.8	2.5	0.0	3.1	2.6	0.0	2.1	3.6
Mumps	Cases	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	0	2	0	0	0
	Rate	1.9	0.8	1.1	1.0	0.8	1.0	1.0	0.0	4.6	0.6	0.0	0.6	2.1	2.8	5.0	1.5	3.1	2.8	1.8	1.1	0.0
Non seasonal influenza A (H1N1) <sup>6</sup>	Cases	0	5	6	1	0	0	1	0	2	0	0	0	1	13	0	0	0	0	5	0	0
	Rate	80.3	40.5	55.8	37.4	41.7	32.4	35.6	106.1	29.6	91.0	104.5	41.0	55.4	90.9	115.1	49.7	174.9	83.7	135.0	40.9	40.2
Paratyphoid fever	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	0.8	0.7	0.4	0.8	2.0	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	0	4	5	2	6	0	2	0	0	1	0	2	3	20	0	2	3	17	0	2	2
	Rate	6.4	18.9	12.6	13.9	61.7	14.7	25.5	26.0	46.2	12.3	11.1	22.3	35.7	48.9	27.5	24.1	46.0	52.8	36.0	7.4	20.6
Rheumatic fever	Cases	1	0	1	12	5	0	2	0	1	1	1	0	0	0	1	0	0	0	0	0	0
	Rate	9.6	1.1	2.5	9.8	7.2	2.0	2.9	21.6	0.9	4.5	1.6	0.6	1.4	2.4	2.5	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	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	0.2	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis	Cases	3	3	8	3	3	1	5	1	2	1	0	2	3	2	0	2	1	13	3	8	2
	Rate	23.8	15.0	18.9	15.4	25.0	16.7	20.2	36.8	17.6	29.9	12.7	22.3	21.0	18.4	30.0	33.6	33.8	29.9	59.4	51.5	35.8
Shigellosis	Cases	0	4	2	5	3	0	1	0	0	1	0	0	0	0	0	2	0	2	0	0	0
	Rate	1.9	3.6	3.4	4.2	2.5	0.0	2.4	0.0	0.0	1.9	0.0	0.6	2.1	1.7	0.0	2.2	3.1	2.8	1.8	3.2	0.9
Tuberculosis disease	Cases	0	4	9	4	3	0	0	0	0	1	0	1	1	2	1	0	0	4	0	1	1
	Rate	4.5	9.3	14.0	13.9	4.4	3.9	6.3	19.5	0.9	6.5	1.6	5.4	6.3	7.3	2.5	3.7	9.2	5.2	7.2	2.1	1.8
Typhoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	1.8	1.2	0.6	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	1	1	1	2	1	0	1	0	0	0	0	0	0	0	1	0	5	0	0	0
	Rate	1.9	1.7	1.8	1.7	6.4	3.9	5.8	6.5	10.2	3.2	1.6	1.2	0.0	1.0	2.5	2.9	0.0	5.6	1.8	2.1	2.7
Yersiniosis	Cases	0	4	4	1	0	0	1	1	1	1	1	0	1	3	0	2	0	7	1	0	0
	Rate	5.1	9.8	13.1	6.4	6.4	8.8	3.4	8.7	6.5	11.0	9.5	4.2	15.4	16.0	2.5	2.9	30.7	9.8	14.4	8.0	1.8

<sup>1</sup> These data are provisional

<sup>2</sup> Current rate is based on the cumulative total for the 12 months up to and including June 2010 expressed as cases per 100 000

<sup>3</sup> Further data are available from the local Medical Officer of Health

<sup>4</sup> Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

<sup>5</sup> 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

<sup>6</sup> Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.