
MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 7 July 2007. 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

- *Cryptosporidiosis*: 47 cases of cryptosporidiosis were notified in June 2007 compared to 29 notified cases in the same month of the previous year (Figure 1). Two cases were hospitalised. The highest numbers of cases were reported from Capital and Coast (12), Waikato (6), Waitemata (5), and Auckland (5) DHBs. Among the cases for whom this information was recorded, 63.6% (7/11) had contact with other symptomatic people, 55.6% (5/9) had eaten at a food premise, 50.0% (5/10) had faecal contact, 50.0% (5/10) had recreational water contact, 37.5% (6/16) had attended school, pre-school or childcare, 22.2% (2/9) had contact with farm animals, 12.5% (1/8) had consumed non-habitual water supply, and 12.5% (1/8) had consumed untreated water during the incubation period.
- *Listeriosis*: two cases of listeriosis were notified in June 2007 bringing the year to date total to 12. The cases were aged 30-39 years and 70+ years from Northland and Bay of Plenty DHBs respectively. Both cases were hospitalised. It is unknown whether the cases had any underlying illnesses.
- *Measles*: two measles cases, both still under investigation, were notified in June 2007. Both cases were children in the 1-4 years age group, and were eligible to have received their first MMR immunisation. The Waikato DHB case was reported as immunised but the immunisation history of the Taranaki DHB case was unknown.

- *Meningococcal disease*: based on the earliest date available¹, nine cases of meningococcal disease were notified during June 2007, of which seven (77.8%) were laboratory-confirmed. In comparison, eight cases were notified the previous month, May 2007, and 15 cases were notified during the same month last year, June 2006. For the 12 month period ending 30 June 2007, Tairāwhiti DHB recorded the highest incidence rate of 9.0 per 100 000 population (4 cases), followed by Counties Manukau (6.3 per 100 000, 28 cases), and Northland (6.0 per 100 000, 9 cases). The highest age-specific incidence rate was in infants aged less than one year (54.3 per 100 000 population, 31 cases), followed by those in the 1-4 years age group (11.5 per 100 000 population, 26 cases), and those in the 15-19 years age group (8.0 per 100 000 population, 25 cases).
- *Rubella*: two probable rubella cases were notified in June 2007. The cases were aged <1 year and 1-4 years old from Waitemata and West Coast DHBs. Both cases were not immunised against the disease. The younger case was not yet eligible to be immunised with MMR.
- *Salmonellosis*: 81 cases of salmonellosis were notified in June 2007 compared to 58 notified cases in the same month of the previous year. The highest numbers of cases were reported from Capital and Coast (12), Canterbury (12), Waitemata (8), Counties Manukau (8), and Waikato (8) DHBs. Eleven cases were hospitalised. The serotype involved was identified for 76 of the cases. The dominant serotypes were: *Salmonella* Typhimurium phage type 156 (7 cases), *S. Virchow* (6), *S. Infantis* (5), and *S. Typhimurium* phage type 160 (5).
- *Shigellosis*: 11 cases were notified in June 2007 compared to five notified cases in the same month in the previous year (Figure 2). The cases were from Counties Manukau (3), Southland (2), Waitemata (1), Auckland (1), Hawke's Bay (1), Capital and Coast (1), Canterbury (1), and South Canterbury (1) DHBs. The species involved was identified for 10 cases: *Shigella sonnei* biotype g (4), *S. sonnei* biotype a (3), *S. boydii* 4 (1), *S. flexneri* 2a (1), and *S. flexneri* 4a (1). Two cases had been overseas: India and Bhutan (1), and Malaysia (1) during the incubation period.
- *Yersiniosis*: 45 yersiniosis cases were notified in June 2007 compared to 31 cases notified in the same month of the previous year. Eight cases were hospitalised. Canterbury had highest number of cases (11) followed by Auckland (4), Counties Manukau (4), and Capital and Coast (4) DHBs. Overseas travel information was recorded for 22 cases, of which one had been to Vietnam.

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

ESR received 15 completed reports via EpiSurv for outbreaks during June 2007. These are summarised in the table below.

Summary of completed outbreaks reported to ESR during June 2007

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Auckland	1	4
<i>Cryptosporidium</i>	Auckland	4	9
Gastroenteritis	Auckland	2	4
Giardia	West Coast	1	3
Norovirus	Auckland, Canterbury	5	203
<i>Salmonella</i> Typhi E1a	Auckland	1	2
VTEC/STEC	Tauranga	1	2
Total		15	227

Interim outbreak reports

The following outbreaks have been reported as interim. The status of the outbreak and cases involved are subject to change, as more data becomes available.

Summary of interim outbreaks reported to ESR during June 2007

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Auckland	1	3
<i>Cryptosporidium</i>	Auckland	1	2
Gastroenteritis	Auckland, Waikato	4	7
Giardia	Auckland, Otago	2	4
Influenza A H1	Wellington	1	-
Norovirus	Auckland	4	35
Total		13	51

3. Deaths from notifiable diseases

One death was reported for the month of June.

Disease	District Health Board	Age group	Sex
Meningococcal disease	Counties Manukau	<1 year	F

4. Trends in selected diseases to June 2007

Figure 1: Cryptosporidiosis notifications by month, January 2002 to June 2007

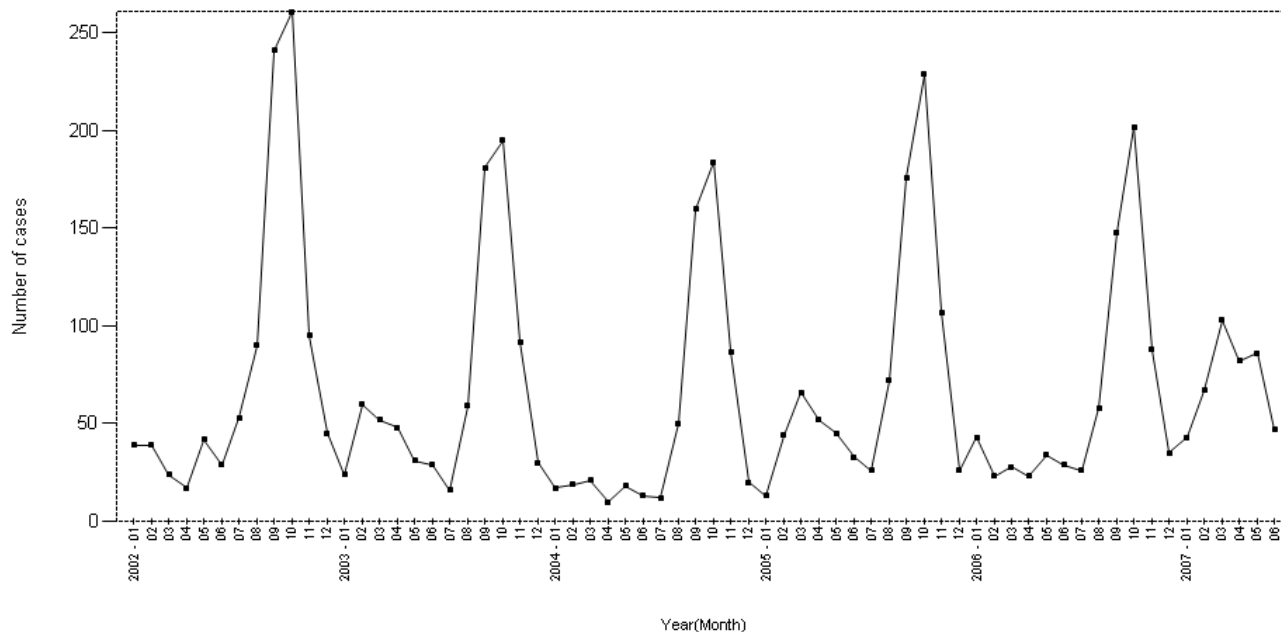
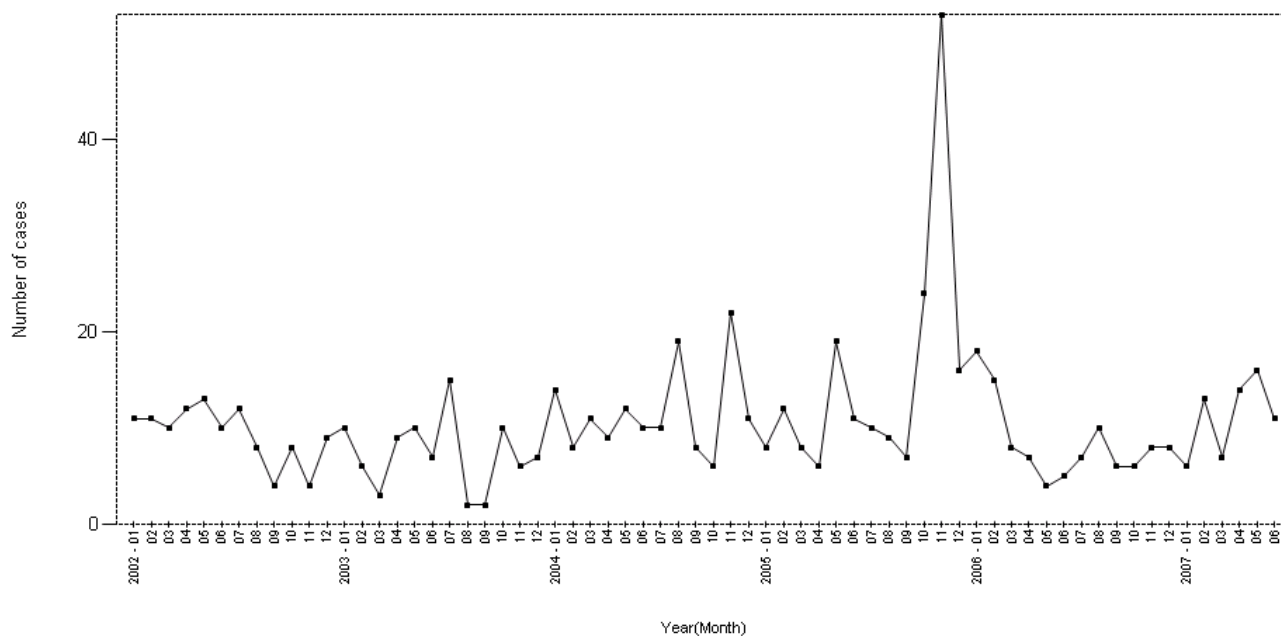


Figure 2: Shigellosis notifications by month, January 2002 to June 2007



5. Data Tables

Disease incidence and rates - June 2007

Disease	Current Year - 2007 ¹			Previous Year - 2006		
	Jun-2007 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	Jun-2006 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	822	7072	362.1	1290	7958	394.5
Cryptosporidiosis	47	428	23.8	29	180	19.9
Dengue fever	5	95	2.5	2	9	0.4
Gastroenteritis ³	37	294	16.0	58	567	19.3
Giardiasis	95	773	32.7	105	635	30.1
<i>Haemophilus influenzae</i> type b	2	10	0.2	3	9	0.3
Hepatitis A	2	25	1.4	7	89	2.9
Hepatitis B ⁴	8	44	1.8	7	34	1.7
Hepatitis C ⁴	3	20	0.9	4	16	0.7
Highly pathogenic avian influenza	0	0	0.0	0	0	0.0
Hydatid disease	0	2	0.0	0	0	0.0
Lead absorption	5	37	1.6	8	49	1.9
Legionellosis	6	44	1.6	5	30	1.9
Leprosy	0	4	0.1	0	1	0.0
Leptospirosis	7	49	2.2	6	44	2.1
Listeriosis	2	12	0.5	2	9	0.5
Malaria	3	10	0.7	1	12	0.5
Measles	2	12	0.5	0	10	0.5
Meningococcal disease ⁵	9	38	3.3	12	60	4.2
Mumps	5	31	1.4	5	20	1.5
Paratyphoid fever	2	12	0.6	1	10	0.5
Pertussis	30	180	16.1	81	635	45.4
Rheumatic fever	7	30	1.9	6	60	2.6
Rickettsial disease	0	0	0.1	0	1	0.0
Rubella	2	3	0.2	0	2	0.2
Salmonellosis	81	696	30.4	58	772	35.4
Shigellosis	11	67	2.7	5	57	4.3
Tetanus	0	1	0.0	0	1	0.0
Tuberculosis disease	18	137	8.5	29	143	7.3
Typhoid fever	1	34	1.5	2	13	0.5
VTEC/STEC infection	4	53	2.0	6	59	2.3
Yersiniosis	45	257	12.6	31	221	10.7

1 These data are provisional

2 Rate is based on the cumulative total for the current year (12 months up to and including Jun 2007 or the previous year (12 months up to and including June 2006), 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 These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date as used in the meningococcal disease section

Surveillance Data by District Health Board - June 2007

		Cases ¹ and current rate ² for June 2007 by District Health Board ³																					
		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	
Disease																							
Campylobacteriosis	Cases	20	97	89	67	70	17	28	0	39	40	17	25	33	68	5	32	4	110	8	43	10	
	Rate	237.9	419.5	383.7	315.5	348.7	320.9	316.0	148.3	460.3	327.4	362.3	245.6	388.0	431.0	214.2	308.0	272.0	424.4	472.0	402.9	292.7	
Cryptosporidiosis	Cases	0	5	5	2	6	2	2	0	0	1	0	2	3	12	2	2	0	3	0	0	0	
	Rate	16.7	15.6	11.6	12.9	46.4	20.7	18.6	4.5	18.1	21.3	38.6	45.9	49.9	30.1	71.4	18.3	32.8	17.6	65.3	21.9	28.4	
Dengue fever	Cases	0	1	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.7	3.8	6.0	7.2	1.5	0.0	2.5	0.0	1.9	0.7	1.6	0.0	0.0	1.4	2.5	2.9	3.3	0.6	0.0	0.0	0.0	
Gastroenteritis	Cases	0	5	4	3	2	2	1	0	0	4	0	0	2	5	0	0	0	9	0	0	0	
	Rate	2.7	15.6	18.8	11.8	11.1	10.8	3.5	0.0	5.7	11.3	9.7	50.8	21.0	21.5	12.7	5.1	19.7	28.0	9.3	12.6	10.1	
Giardiasis	Cases	1	16	9	10	10	2	3	1	1	1	2	1	1	10	0	8	2	9	1	3	4	
	Rate	51.5	28.5	40.9	22.4	40.6	36.4	31.7	27.0	8.6	27.9	27.4	20.8	28.2	39.8	38.2	61.4	22.9	26.6	28.0	36.1	36.6	
<i>Haemophilus influenzae</i> type b	Cases	0	2	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	0.2	0.3	0.0	0.5	0.0	0.0	2.0	0.0	0.6	0.0	0.0	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	2	0	0	0	0	0	0	0	0	0	0	0	
	Rate	1.3	2.6	1.4	3.4	0.6	1.0	2.0	2.2	1.9	2.7	0.0	0.6	0.7	0.4	2.5	0.7	0.0	0.4	0.0	1.1	0.0	
Hepatitis B	Cases	0	0	1	1	0	0	0	0	2	0	0	0	0	2	0	0	0	2	0	0	0	
	Rate	0.0	3.6	1.4	2.0	1.5	0.0	1.0	2.2	3.8	2.7	0.0	0.0	2.2	1.1	0.0	2.2	0.0	2.7	1.9	0.5	0.0	
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	
	Rate	0.7	0.4	0.5	0.2	0.3	2.0	0.5	2.2	2.9	0.0	0.0	0.0	2.2	1.8	0.0	0.0	0.0	2.9	0.0	1.1	0.0	
Highly pathogenic avian influenza	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	0.0	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	
Hydatids disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Lead absorption	Cases	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	
	Rate	0.0	1.0	0.5	0.5	1.8	4.9	2.0	4.5	1.0	2.0	3.2	3.7	2.2	1.8	0.0	0.0	0.0	2.1	0.0	4.4	0.0	
Legionellosis	Cases	0	1	2	0	0	0	0	0	0	0	0	1	0	2	0	0	0	2	0	0	0	
	Rate	1.3	1.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.4	0.0	0.0	3.3	2.3	0.0	2.2	0.9	
Leprosy	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	0.2	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Leptospirosis	Cases	1	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	1	0	
	Rate	6.7	0.4	0.0	0.5	2.6	1.0	1.5	4.5	6.7	4.0	9.7	5.5	1.4	0.0	10.2	3.7	13.1	2.7	3.7	1.6	2.7	
Listeriosis	Cases	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	2.7	0.4	0.7	0.9	0.3	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.0	1.9	1.1	0.9	
Malaria	Cases	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.2	1.2	1.4	1.5	1.0	0.0	0.0	0.0	0.0	1.6	0.0	2.2	0.0	2.5	0.7	0.0	0.6	1.9	0.0	0.0	
Measles	Cases	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.0	0.0	0.2	0.3	0.0	0.5	0.0	1.0	0.0	0.0	1.2	0.7	1.4	0.0	0.7	13.1	1.0	0.0	0.0	0.9	
Meningococcal disease ⁴	Cases	0	0	1	5	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	Rate	6.0	1.0	3.3	6.6	5.5	2.0	1.0	9.0	2.9	4.0	0.0	3.1	5.1	1.8	2.5	0.7	0.0	2.5	1.9	3.8	5.5	
Mumps	Cases	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	
	Rate	0.0	1.0	1.6	1.6	0.9	3.0	1.5	0.0	1.0	2.0	3.2	3.1	2.2	1.4	2.5	0.7	0.0	1.0	0.0	3.3	0.0	
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.4	0.5	2.3	0.9	0.0	0.5	0.0	1.0	0.7	0.0	0.6	0.7	0.4	0.0	0.7	0.0	0.0	0.0	0.5	0.0	
Pertussis	Cases	0	3	0	1	7	0	4	0	0	0	0	0	1	2	0	1	0	7	3	1	0	
	Rate	0.7	2.6	3.5	4.5	50.2	10.8	22.1	22.5	0.0	6.6	8.1	11.6	19.5	15.4	7.6	36.6	3.3	35.2	37.3	9.3	14.6	
Rheumatic fever	Cases	0	0	4	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	
	Rate	5.3	0.0	0.9	3.2	2.0	1.0	2.5	6.7	1.0	6.6	4.8	0.6	5.1	3.6	0.0	0.0	0.0	0.4	0.0	0.0	0.9	
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	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	
Rubella	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	Rate	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	0.6	0.0	0.0	0.0	0.0	3.3	0.2	0.0	0.5	0.9	
Salmonellosis	Cases	4	8	5	8	8	1	6	0	1	1	3	3	3	12	1	2	0	12	0	2	1	
	Rate	41.4	23.3	25.6	19.7	42.6	19.7	28.2	27.0	27.6	35.9	25.8	26.3	33.2	36.9	40.8	24.9	29.5	31.0	39.2	37.8	55.8	
Shigellosis	Cases	0	1	1	3	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	0	2	
	Rate	1.3	1.8	4.4	4.1	3.5	5.9	3.0	0.0	0.0	1.3	1.6	0.0	2.2	2.5	0.0	5.1	0.0	2.5	1.9	2.2	2.7	
Tetanus	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	0.0	0.0	0.3	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	
Tuberculosis disease	Cases	0	1	4	4	3	0	0	0	1	1	0	0	2	2	0	0	0	0	0	0	0	
	Rate	22.7	6.4	12.8	14.0	9.3	3.0	4.5	0.0	6.7	5.3	1.6	16.5	7.2	8.2	7.6	1.5	9.8	6.5	5.6	1.6	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	3.0	1.4	5.4	2.3	0.0	1.0	0.0	0.0	0.0	0.0	1.2	0.0	1.1	0.0	0.7	0.0	0.2	0.0	0.5	0.0	
VTEC/STEC infection	Cases	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	
	Rate	0.7	2.2	0.9	0.7	4.4	2.0	2.5	2.2	1.0	0.7	0.0	0.6	0.0	0.7	0.0	1.5	3.3	4.8	4.8	2.2	1.8	
Yersiniosis	Cases	1	3	4	4	2	1	1	1	3	1	1	1	2	4	0	0	1	11	2	2	0	
	Rate	6.0	7.4	9.8	6.6	9.9	21.7	14.1	11.2	13.3	12.6	12.9	6.1	11.6	22.9	12.7	11.0	52.4	22.6	26.1	12.6	4.6	

1 These data are provisional

2 Current rate is based on the cumulative total for the 12 months up to and including June 2007 expressed as cases per 100 000

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

4 These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date as used in the meningococcal disease section