
MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 3 May 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*: 84 cases of cryptosporidiosis were notified in April 2007 compared to 23 notified cases in the same month of the previous year (Figure 1). Two cases were hospitalised. The highest numbers of cases were reported from Waikato (13), Hutt (11), and Capital and Coast (10) DHBs. Among the cases for whom this information was recorded, 66.7% (14/21) had recreational water contact, 44.8% (13/29) had faecal contact, 39.3% (11/28) had contact with other symptomatic people, 30.8% (4/13) had eaten at a food premise, 30.0% (6/20) had contact with farm animals, 21.7% (5/23) had contact with a confirmed case, and 16.7% (2/12) had consumed untreated water, and 5.6% (1/18) had contact with sick animals during the incubation period.
- *Dengue*: 15 cases of dengue fever were notified in April 2007 compared to zero notified cases in the same month in the previous year (Figure 2). The cases were from Auckland (4), Counties Manukau (3), Waitemata (3), Bay of Plenty (3), and Waikato (2) DHBs. Two cases were hospitalised. Overseas travel was recorded for 14/15 cases. The countries visited were Cook Islands (10), East Timor (1), Samoa (1), and Tahiti (1). The country visited was not recorded for the remaining case known to have overseas travel.
- *Giardiasis*: 137 cases of giardiasis were notified in April 2007 compared to 85 notified cases in the same month of the previous year. One case was hospitalised. The highest numbers of cases were reported from Auckland (21), Nelson Marlborough (21), Canterbury (15), Otago (15), and Capital and Coast (11) DHBs. Among the cases for whom this information was recorded, 46.7% (7/15) had faecal contact, 38.5% (5/13) drank from a non-habitual water supply, 28.6% (4/14) had contact with other symptomatic people, 35.7% (5/14) had recreational water contact, 27.3% (3/11) had eaten at a food

premise, 23.8% (5/21) had contact with a confirmed case, 25.0% (3/12) had consumed untreated water, 12.5% (2/16) had contact with farm animals, and 11.8% (2/17) had contact with sick animals during the incubation period.

- *Haemophilus influenzae type b*: one confirmed case of haemophilus influenzae type b was notified in April 2007 compared to three notified cases in the same month of the previous year. The case was in 1-4 years age group and was hospitalised with epiglottitis and septicaemia. The child survived. The case had not been vaccinated against the disease.
- *Legionellosis*: six cases of legionellosis were notified in April 2007. The cases were from Auckland (2), Capital and Coast (2), Waitemata (1), and MidCentral (1) DHBs. Four cases were in the 50-59 years age group, and one each in the 30-39 years and 70+ years age groups. The species involved were: *Legionella pneumophila* serogroup 1 (3), *L. pneumophila* serogroup 12 (1), *L. sainthelensi* serogroup 1 (1), and *L. jordanis* serogroup 1 (1).
- *Meningococcal disease*: based on the earliest date available¹, three cases of meningococcal disease were notified during April 2007, of which one (33.3%) was laboratory-confirmed. In comparison, five cases were notified the previous month, March 2007, and eight cases were notified during the same month last year, April 2006. For the 12 month period ending 30 April 2007, Tairāwhiti DHB recorded the highest incidence rate of 11.2 per 100 000 population (5 cases), followed by Northland (6.7 per 100 000, 10 cases), and Waikato (6.1 per 100 000, 21 cases). The highest age-specific incidence rate was in infants aged less than one year (52.5 per 100 000 population, 30 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 (9.0 per 100 000 population, 28 cases).
- *Rubella*: one rubella case, still under investigation was notified in April 2007. The case was under one year old and had not been vaccinated against the disease.
- *Shigellosis*: 14 cases were notified in April 2007 compared to seven notified cases in the same month in the previous year. The cases were from Lakes (3), Auckland (2), Waikato (2), Bay of Plenty (2), Canterbury (2), Waitemata (1), Counties Manukau (1), and Otago (1) DHBs. The species involved were: *Shigella sonnei* biotype a (10), *S. dysenteriae* (1), *S. flexneri* (1), *S. flexneri* 2a (1), and *S. sonnei* biotype g (1). Two cases had been overseas, one to Indonesia and one to Nepal during the incubation period.
- *Tuberculosis disease*: 24 cases were notified in April 2007 compared to 10 cases notified in the same month of the previous year. The highest numbers of cases were from Auckland (5), Waitemata (4), and Northland (3) DHBs. The highest number of cases was in the 70+ years age group (7 cases). Two cases were less than 10 years of age. The information on whether the cases were

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.

born outside of New Zealand was recorded for 16 cases, of which 12 were born overseas.

2. Outbreaks

Completed outbreak reports

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

Summary of completed outbreaks reported to ESR during April 2007

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Cryptosporidium parvum</i>	Auckland	3	6
Gastroenteritis	Auckland	1	2
<i>Salmonella</i>	Otago	1	4
Total		5	12

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 April 2007

Organism/Toxin/Illness	Reporting Public Health Unit	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Auckland, Otago	2	5
<i>Cryptosporidium</i>	Auckland	2	5
Gastroenteritis	Auckland, Waikato, Tauranga, Rotorua, Wellington, Otago	22	111
<i>Giardia</i>	Auckland, Otago	2	2
<i>Salmonella</i>	Auckland	1	2
<i>Shigella</i>	Rotorua	1	8
Total		30	133

3. Deaths from notifiable diseases

No deaths were reported for the month of April.

4. Trends in selected diseases to April 2007

Figure 1: Cryptosporidium notifications by month, January 2002 – April 2007

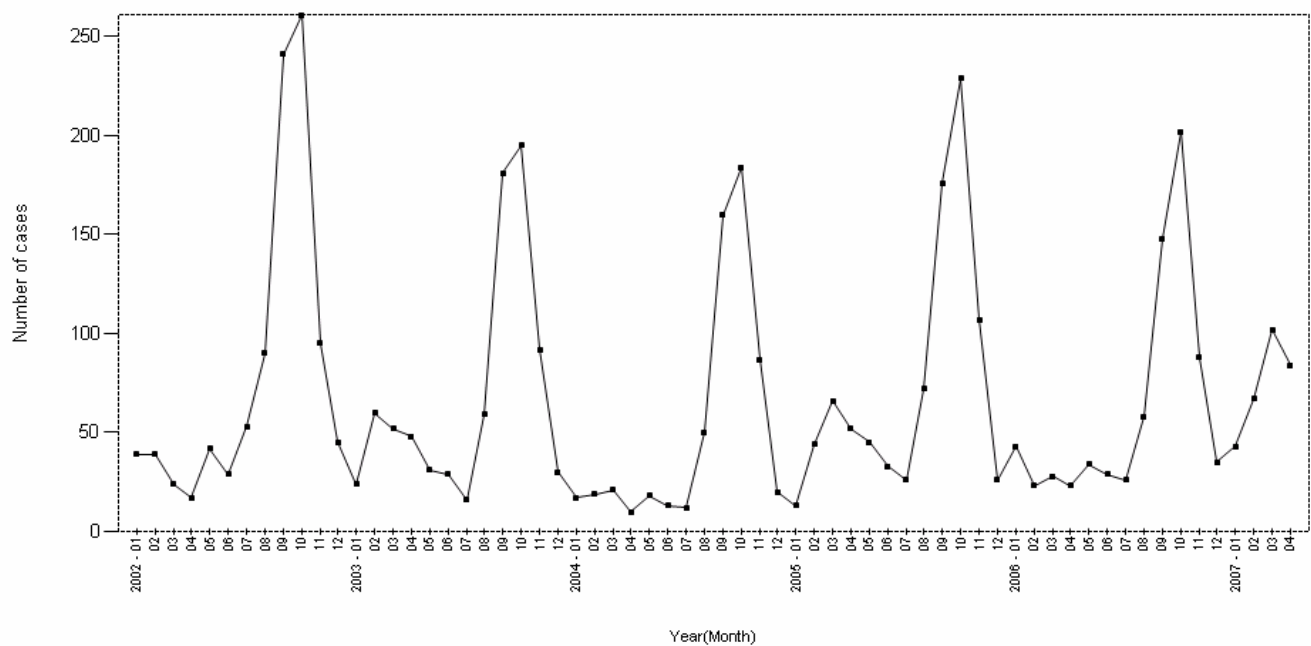
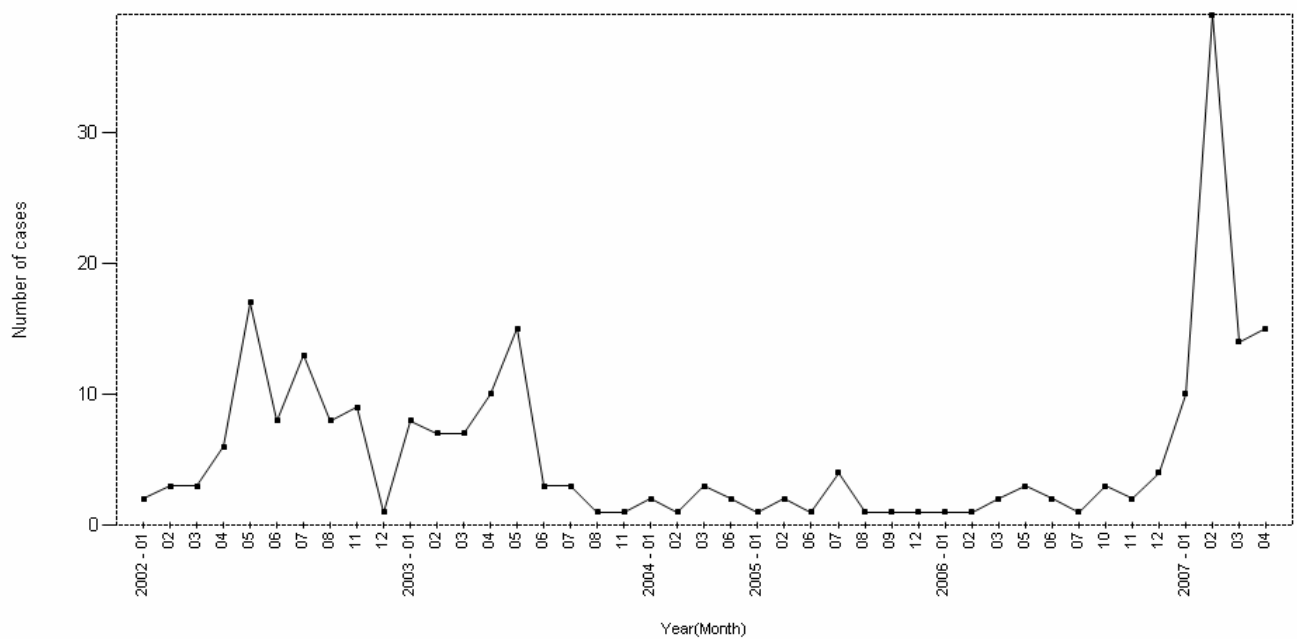


Figure 2: Dengue notifications by month, January 2002 – April 2007



5. Data Tables

Disease incidence and rates - April 2007

Disease	Current Year - 2007 ¹			Previous Year - 2006		
	April-2007 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	April-2006 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	680	5329	386.8	832	5190	363.3
Cryptosporidiosis	84	296	22.1	23	117	20.3
Dengue fever	15	78	2.2	0	4	0.3
Gastroenteritis ³	33	205	18.2	61	386	17.5
Giardiasis	137	544	32.8	85	401	29.4
<i>Haemophilus influenzae</i> type b	1	7	0.3	3	4	0.2
Hepatitis A	4	20	1.7	11	74	2.6
Hepatitis B ⁴	11	33	1.8	3	20	1.5
Hepatitis C ⁴	5	15	0.9	2	10	0.8
Lead absorption	4	29	1.8	9	33	1.9
Legionellosis	6	29	1.4	6	21	2.0
Leptospirosis	4	32	2.1	6	32	2.1
Listeriosis	3	7	0.5	0	7	0.5
Malaria	1	4	0.6	0	9	0.6
Measles	4	9	0.5	2	9	0.6
Meningococcal disease ⁵	5	22	3.5	8	39	4.7
Mumps	4	26	1.5	3	12	1.4
Paratyphoid fever	1	9	0.6	1	9	0.6
Pertussis	15	122	19.4	65	439	49.3
Rheumatic fever	1	15	1.9	23	44	2.4
Rubella	1	2	0.2	0	2	0.3
Salmonellosis	115	490	29.9	137	587	35.5
Shigellosis	14	40	2.3	7	48	4.8
Tuberculosis disease	24	91	8.7	10	87	7.5
Typhoid fever	3	26	1.4	0	8	0.7
VTEC/STEC infection	9	40	2.0	8	43	2.2
Yersiniosis	30	173	12.5	27	141	10.1

1 These data are provisional

2 Rate is based on the cumulative total for the current year (12 months up to and including April 2007 or the previous year (12 months up to and including April 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

Monthly totals for April 2007 and preceding 12 Months¹

Disease	Apr 2007	Mar 2007	Feb 2007	Jan 2007	Dec 2006	Nov 2006	Oct 2006	Sep 2006	Aug 2006	Jul 2006	Jun 2006	May 2006
Campylobacteriosis	680	1149	1453	2047	1510	1654	1234	1228	1216	1074	1289	1478
Cryptosporidiosis	84	102	67	43	35	88	202	148	58	26	29	34
Dengue fever	15	14	39	10	4	2	3	0	0	1	2	3
Gastroenteritis ²	33	52	57	63	65	39	67	56	65	76	58	123
Giardiasis	137	143	140	124	81	95	101	86	106	110	105	129
<i>Haemophilus influenzae</i> type b	1	3	3	0	0	0	0	0	0	0	3	2
Hepatitis A	4	6	7	3	4	5	3	9	9	4	7	8
Hepatitis B ³	11	4	6	12	4	7	3	7	3	5	7	7
Hepatitis C ³	5	3	2	5	2	2	6	2	5	1	4	2
Lead absorption	4	15	5	5	2	6	6	5	8	2	8	8
Legionellosis	6	8	2	13	5	4	4	1	5	3	5	4
Leprosy	0	0	1	0	1	0	0	0	0	1	0	0
Leptospirosis	4	5	9	14	2	9	4	10	11	8	6	6
Listeriosis	3	2	0	2	3	2	2	0	3	0	2	0
Malaria	1	1	0	2	2	1	2	3	7	3	1	2
Measles	4	2	1	2	2	0	3	3	2	0	0	1
Meningococcal disease ⁴	5	4	4	9	16	14	10	12	18	30	12	9
Mumps	4	7	9	6	7	7	6	3	4	1	5	3
Paratyphoid fever	1	2	4	2	2	3	4	1	0	3	1	0
Pertussis	15	26	29	52	28	67	64	103	120	103	81	115
Rheumatic fever	1	9	1	4	6	7	5	2	6	21	6	10
Rickettsial disease	0	0	0	0	0	0	1	0	1	4	0	1
Rubella	1	1	0	0	1	0	1	2	1	1	0	0
Salmonellosis	115	168	100	107	100	97	108	114	84	60	58	127
Shigellosis	14	7	13	6	8	8	6	6	10	7	5	4
Tetanus	0	0	0	1	0	0	0	0	0	0	0	0
Tuberculosis disease	24	25	22	20	21	29	41	60	31	30	29	27
Typhoid fever	3	4	11	8	10	10	2	4	2	1	2	3
VTEC/STEC infection	9	12	12	7	2	8	6	5	6	1	6	10
Yersiniosis	30	51	46	46	43	53	57	42	49	22	31	49

1 Later data are provisional

2 Cases of gastroenteritis from a common source or foodborne intoxication

3 Only acute cases of this disease are currently notifiable

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

Surveillance Data by District Health Board - April 2007

		Cases ¹ and current rate ² for April 2007 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	6	67	72	76	50	15	22	5	22	22	9	14	25	61	2	17	4	110	16	46	19
	Rate	243.9	456.2	417.9	344.9	358.1	354.3	341.2	173.0	455.5	332.1	365.6	260.9	429.2	470.5	252.4	313.1	265.4	446.1	531.7	428.1	319.3
Cryptosporidiosis	Cases	2	8	9	7	13	1	7	0	1	8	1	2	11	10	0	0	0	3	0	1	0
	Rate	19.4	13.2	10.0	11.8	40.3	18.7	16.6	0.0	16.2	19.3	35.4	42.9	49.9	26.5	0.0	0.0	0.0	17.2	0.0	21.3	0.0
Dengue fever	Cases	0	3	4	3	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	3.2	4.9	6.8	1.5	0.0	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
Gastroenteritis	Cases	0	4	4	2	1	0	0	0	1	0	1	5	0	3	0	2	0	6	2	2	0
	Rate	0.0	14.4	19.3	11.5	10.8	0.0	0.0	0.0	4.8	0.0	70.9	74.1	0.0	22.2	0.0	9.5	0.0	28.7	9.3	14.8	0.0
Giardiasis	Cases	4	8	21	7	7	5	4	1	1	4	2	1	4	11	2	21	0	15	2	15	2
	Rate	54.1	27.5	41.8	22.6	40.3	40.4	37.2	24.7	6.7	34.5	33.8	19.0	26.7	39.8	38.2	48.3	0.0	27.8	29.9	34.5	33.8
<i>Haemophilus influenzae</i> type b	Cases	0	0	0	0	0	0	0	0	0	1	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	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.0	1.4	4.8	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	0.2	0.0	0.0	0.0
Hepatitis B	Cases	0	1	1	1	1	0	0	0	0	2	0	0	0	1	0	1	0	3	0	0	0
	Rate	0.0	3.6	0.9	2.7	1.5	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	1.1	0.0	2.2	0.0	3.8	0.0	0.0	0.0
Hepatitis C	Cases	0	1	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.5	0.0	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	0.0	0.0	0.0	0.0
Lead absorption	Cases	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0
	Rate	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	2.1	0.0	0.0	0.0	0.0	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	0	0	0	0
	Rate	0.0	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	0.0	0.0	0.0	0.0	0.0
Leptospirosis	Cases	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0
	Rate	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	9.8	0.0	5.6	0.0	0.0
Listeriosis	Cases	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	1.3	0.0	0.7	0.0	0.0	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
Malaria	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	0.7	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
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	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	1.4	0.0	0.0	9.8	0.0	0.0	0.0	0.0
Meningococcal disease ⁴	Cases	0	0	0	1	0	0	0	1	0	2	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.0	0.0	5.4	0.0	0.0	0.0	11.2	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
Mumps	Cases	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	2	0
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.7	0.0
Paratyphoid fever	Cases	0	0	0	0	0	0	1	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	0.5	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
Pertussis	Cases	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	2	0	5	1	2	0
	Rate	0.0	0.0	0.0	4.1	61.6	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.8	0.0	42.1	28.0	11.5	0.0
Rheumatic fever	Cases	0	0	0	0	0	0	0	0	0	1	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	7.3	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.5	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	0.0	0.0
Salmonellosis	Cases	5	8	5	8	18	1	5	1	2	2	2	4	4	9	2	6	2	20	1	7	3
	Rate	38.1	23.7	24.9	17.0	40.9	19.7	27.2	27.0	26.6	36.5	20.9	25.7	31.1	40.5	43.3	24.9	22.9	29.7	50.4	41.1	53.1
Shigellosis	Cases	0	1	2	1	2	3	2	0	0	0	0	0	0	0	0	0	0	2	0	1	0
	Rate	0.0	1.6	3.9	2.7	2.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.6	0.0
Tuberculosis disease	Cases	3	4	5	2	2	0	1	0	0	1	0	1	1	2	0	0	0	2	0	0	0
	Rate	23.4	7.0	12.8	14.5	9.6	0.0	4.5	0.0	0.0	4.6	0.0	17.8	6.5	9.3	0.0	0.0	0.0	6.5	0.0	0.0	0.0
Typhoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	0	2	0	4	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
	Rate	0.0	0.0	0.7	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	4.4	0.0	2.2	0.0
Yersiniosis	Cases	0	0	2	2	1	2	1	0	1	0	1	0	3	3	0	1	0	7	2	2	2
	Rate	0.0	0.0	9.5	7.5	10.8	22.6	15.6	0.0	10.5	0.0	12.9	0.0	10.1	23.6	0.0	12.4	0.0	21.1	20.5	13.1	4.6

1 These data are provisional

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