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## MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 9 January 2008. 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

- *Hydatid disease:* three cases of hydatid disease were notified in December 2007, bringing the year to date total to six. The cases were from Counties Manukau (2), and Waitemata (1) DHBs. One case had been in India and another in Iraq during the incubation period (both from farming families). The remaining case had been a farmer in New Zealand, more than 60 years ago.
- *Lead absorption:* twelve cases of lead absorption were notified in December 2007 compared to two notified cases in the same month of the previous year. The cases were from Canterbury (3), Otago (3), Waitemata (2), Auckland (1), Waikato (1), Bay of Plenty (1), and Hutt (1) DHBs. The cases were aged between 25 years and 59 years, with the highest number of cases in the 50-59 years age group (5). Risk factor information was recorded for 11 cases. Seven cases were recorded as currently working or having worked in high risk occupations. The recorded occupations were: radiator fitter/turner (2 cases), painter (2 cases), carpenter (replaces ceilings), a general worker (sandblasting equipments), and plastic company worker (chemical sprays). Three cases were recorded as living in or regularly visiting a pre-1970 constructed building. All of these buildings were recorded as currently having paint stripped. One case's hobby was making home ammunition, and another was a regular shooter.
- *Leptospirosis:* nine cases of leptospirosis were notified in December 2007 compared to two notified cases in the same month of the previous year. The cases were from Hawke's Bay (5), Canterbury (2), Nelson Marlborough (1), and Southland (1) DHBs. Occupation was recorded for eight cases: meat process worker/slaughterer (6), and farmer (2).

- *Listeriosis*: two cases of listeriosis, of which one was perinatal, were notified in December 2007, bringing the year to date total to 25. The non-perinatal case was aged 70+ years with no underlying illness but was overseas during the incubation period. The perinatal case was aged between 20-29 years, and occurred at 36 weeks of gestation. The infant survived. No source was identified.
- *Meningococcal disease*: based on the earliest date available<sup>1</sup>, twelve cases of meningococcal disease were notified during December 2007, 11 (91.7%) were laboratory-confirmed. In comparison, five cases were notified the previous month, November 2007, and 15 cases were notified during the same month last year, December 2006. For the 12 month period ending 31 December 2007, Tairāwhiti DHB recorded the highest incidence rate of 9.0 per 100,000 population (4 cases), followed by Hawke's Bay (6.6 per 100,000, 10 cases), and Hutt (4.3 per 100,000, 6 cases). The highest age-specific incidence rate was in infants aged less than one year (33.3 per 100,000 population, 19 cases), followed by those in the 1-4 years age group (13.3 per 100,000 population, 30 cases), and those in the 15-19 years age group (3.8 per 100,000 population, 12 cases).
- *Measles*: eight measles cases were notified in December 2007, compared to two notified cases in the same month of the previous year (Figure 1). The cases were reported from Waitemata (5), Taranaki (1), West Coast (1), and Canterbury (1) DHBs. The cases were in the following age groups: < 1 year (2), 20-29 years (2), 1-4 years (1), 5-9 years (1), 15-19 years (1), and 30-39 years (1). Two cases were laboratory confirmed. Laboratory results are awaited for two other cases. One probable case aged 1-4 years was reported as being immunised receiving one dose of MMR. Three cases were not immunised, the immunisation status for the remaining four cases was not recorded.
- *Mumps*: fourteen cases of mumps were notified in December 2007 compared to seven notified cases in the same month of the previous year (Figure 2). The cases were reported from Waitemata (4), Auckland (4), Counties Manukau (4), Bay of Plenty (1), and MidCentral (1) DHBs. The cases were in the following age groups: 1-4 years (3), 5-9 years (3), 40-49 years (3), 10-14 years (2), <1 year (1), 20-29 years (1), and 50-59 years (1). Seven cases were laboratory confirmed. Laboratory results are awaited for one case. Three cases were reported as immunised of which two received two doses of MMR while the remaining probable case (age four years) received one dose. Five cases were not immunised, the immunisation status of the remaining six cases was not recorded.
- *Salmonellosis*: 120 cases of salmonellosis were notified in December 2007 compared to 100 notified cases in the same month of the previous year. The highest numbers of cases were reported from Bay of Plenty (25), Waitemata, Auckland and Canterbury DHBs (10 cases each). Eight cases were hospitalised. The serotype involved was identified for 116 of the cases. The dominant serotypes were: *Salmonella* Chester (35), *S. Typhimurium* phage type 160 (14 cases), and *S. Infantis* (8).

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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.

## 2. Outbreaks

### *Completed outbreak reports*

Six outbreak reports were entered into EpiSurv and completed during December 2007. These are summarised in the table below.

### *Summary of completed outbreaks reported to ESR during December 2007*

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	West Coast	1	2
<i>Giardia</i>	Tauranga	1	3
Norovirus	Manawatu, Canterbury	2	46
Rotavirus	Wellington	1	8
<i>Salmonella</i>	Hawke's Bay	1	11
<b>Total</b>		<b>6</b>	<b>70</b>

### *Interim outbreak reports*

The following interim outbreaks have been reported. 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 December 2007*

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Clostridium perfringens</i>	Hutt	1	32
Gastroenteritis	Auckland, Waikato, Tauranga, Hawke's Bay, Wellington, Otago	20	172
Measles	Auckland	1	3
Norovirus	Tauranga, Manawatu, Hutt,	4	19
<i>Yersinia</i>	West Coast	1	2
<b>Total</b>		<b>27</b>	<b>228</b>

## 3. Deaths from notifiable diseases

One death was reported for the month of December.

Disease	District Health Board	Age group	Sex
Campylobacteriosis	Waikato	70+ years	M

#### 4. Trends in selected diseases to December 2007

Figure 1: Measles notifications by month by year, January 2003 – December 2007

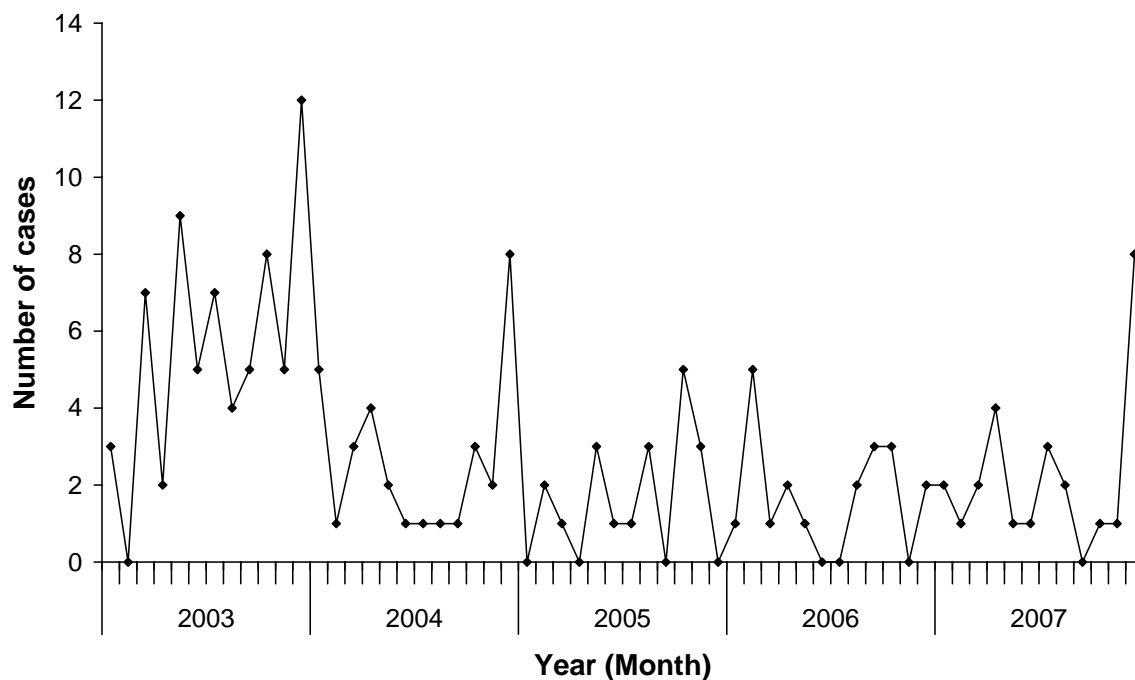
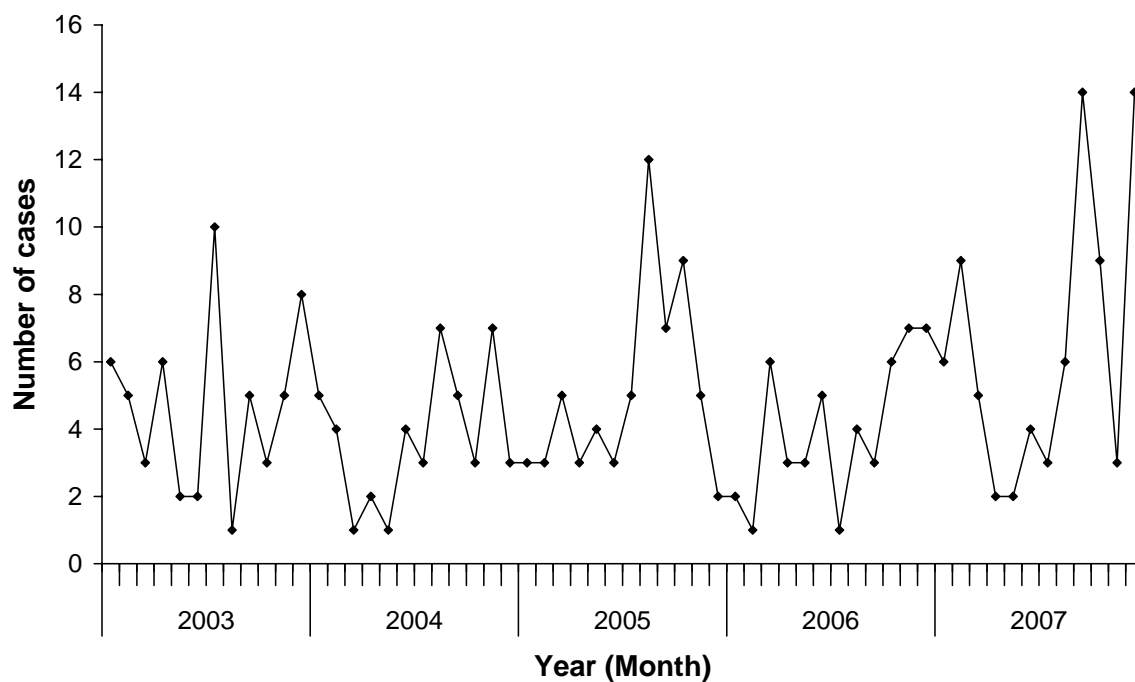


Figure 2: Mumps notifications by month by year, January 2003 – December 2007



## 5. Data Tables

National Surveillance Data December 2007

Disease	Current Year - 2007 <sup>1</sup>			Previous Year - 2006		
	December 2007 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	December 2006 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	895	12779	308.7	1510	15873	383.5
Cryptosporidiosis	29	925	22.3	35	737	17.8
Dengue fever	6	116	2.8	4	19	0.5
Gastroenteritis	32	612	14.8	65	937	22.6
Giardiasis	95	1399	33.8	81	1214	29.3
Haemophilus influenzae type b	0	15	0.4	0	9	0.2
Hazardous substances injury	0	3	0.1	0	0	0.0
Hepatitis A	2	42	1.0	4	123	3.0
Hepatitis B <sup>4</sup>	7	75	1.8	4	63	1.5
Hepatitis C <sup>4</sup>	2	33	0.8	2	35	0.8
Hydatid disease	3	6	0.1	0	0	0.0
Lead absorption	12	79	1.9	2	78	1.9
Legionellosis	8	69	1.7	5	52	1.3
Leprosy	0	8	0.2	1	4	0.1
Leptospirosis	9	72	1.7	2	88	2.1
Listeriosis	2	25	0.6	3	19	0.5
Malaria	1	26	0.6	2	30	0.7
Measles	8	26	0.6	2	20	0.5
Meningococcal disease <sup>5</sup>	12	109	2.6	16	160	3.9
Mumps	14	77	1.9	7	47	1.1
Paratyphoid fever	2	23	0.6	2	23	0.6
Pertussis	14	333	8.0	28	1120	27.1
Rheumatic fever	5	140	3.4	6	107	2.6
Rickettsial disease	0	2	0.0	0	6	0.1
Rubella	1	10	0.2	1	8	0.2
Salmonellosis	120	1278	30.9	100	1335	32.3
Shigellosis	5	126	3.0	8	102	2.5
Tetanus	0	1	0.0	0	1	0.0
Tuberculosis disease	23	295	7.1	20	354	8.6
Typhoid fever	2	48	1.2	10	42	1.0
VTEC/STEC infection	6	100	2.4	2	87	2.1
Yersiniosis	44	527	12.7	43	487	11.8

<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 December 2007) or the previous year (12 months up to and including December 2006), 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> 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

Surveillance Data by District Health Board December 2007

		Cases <sup>1</sup> and current rate <sup>2</sup> for December 2007 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	30	161	98	84	83	18	36	5	30	31	26	28	23	58	8	26	5	87	12	28	18
	Rate	247.2	338.8	321.3	253.0	315.4	283.5	250.6	110.1	389.9	306.2	306.0	203.4	314.3	354.0	173.4	299.9	265.4	367.0	410.4	339.9	296.4
Cryptosporidiosis	Cases	0	3	0	2	4	0	1	0	0	1	0	1	1	4	0	4	0	3	1	0	4
	Rate	16.0	11.6	10.5	12.9	53.2	14.8	15.1	6.7	20.0	24.6	16.1	30.6	44.1	26.5	25.5	22.7	39.3	14.6	76.5	19.7	53.1
Dengue fever	Cases	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.7	4.8	7.4	8.4	1.8	0.0	1.5	0.0	1.9	0.7	1.6	0.0	0.0	0.0	2.5	2.2	3.3	0.6	1.9	0.0	0.0
Gastroenteritis	Cases	0	3	1	0	0	2	3	0	1	1	2	3	3	7	0	0	0	6	0	0	0
	Rate	2.7	16.4	21.4	12.4	9.9	11.8	6.5	0.0	5.7	13.9	8.1	17.8	18.1	21.9	15.3	3.7	26.2	29.5	7.5	2.7	3.7
Giardiasis	Cases	7	8	12	15	6	5	5	0	2	0	0	3	1	11	0	4	0	9	0	5	2
	Rate	48.1	28.5	43.4	29.2	34.5	37.4	35.7	24.7	14.3	23.9	14.5	25.7	26.0	49.4	30.6	68.0	19.7	25.9	22.4	36.1	37.5
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.7	0.8	0.0	0.7	0.3	0.0	0.5	0.0	0.0	2.0	0.0	0.6	0.0	0.0	2.5	0.0	0.0	0.0	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	0.0	0.2	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
Hepatitis A	Cases	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	Rate	0.7	1.4	1.2	2.0	0.3	0.0	1.5	0.0	1.9	2.7	1.6	0.0	1.4	0.4	0.0	0.7	0.0	0.6	0.0	0.5	0.9
Hepatitis B	Cases	0	0	5	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.7	2.2	2.8	2.0	1.5	1.0	1.5	0.0	2.9	3.3	0.0	0.0	2.9	1.8	2.5	2.2	0.0	2.3	0.0	0.5	0.0
Hepatitis C	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.7	0.6	0.7	0.2	0.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.5	0.0	9.8	2.1	0.0	0.5	0.9
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
Hydatid disease	Cases	0	1	0	2	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	0.0	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	2	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	3	0	3	0
	Rate	0.0	1.6	1.4	0.5	1.5	1.0	2.5	2.2	1.9	1.3	3.2	3.7	2.9	2.5	2.5	2.9	0.0	2.5	1.9	4.9	0.9
Legionellosis	Cases	0	2	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0
	Rate	2.7	2.0	2.1	1.4	0.0	1.0	0.5	22.5	1.0	0.0	0.0	1.2	0.7	2.1	2.5	1.5	3.3	2.5	0.0	0.5	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	0.0	0.2	1.4	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
Leptospirosis	Cases	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	0	2	0	0	1
	Rate	1.3	0.2	0.0	0.5	2.9	0.0	1.5	2.2	2.9	7.3	3.2	6.7	0.0	0.4	0.0	2.2	16.4	1.9	3.7	1.6	2.7
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	2.7	0.2	0.7	1.1	0.3	0.0	1.0	0.0	1.0	0.0	0.0	0.6	1.4	0.7	0.0	0.0	0.0	0.2	0.0	1.1	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	0.7	0.2	1.9	0.7	1.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0	1.4	0.4	0.0	0.7	0.0	0.8	0.0	0.0	0.0
Measles	Cases	0	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0
	Rate	0.0	1.2	0.0	0.2	0.0	0.0	0.5	0.0	2.9	0.7	0.0	0.0	1.4	1.4	0.0	0.7	13.1	0.6	0.0	0.0	0.0
A Yb]b[ cV&WU' X]gYUgY	Cases	0	1	4	2	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	1	0
	Rate	3.3	1.4	2.1	3.8	3.5	1.0	2.5	9.0	3.8	6.6	0.0	0.6	4.3	2.1	2.5	0.7	3.3	2.3	0.0	3.3	1.8
Mumps	Cases	0	4	4	4	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.7	1.8	2.1	3.6	2.0	1.0	1.5	0.0	1.0	2.7	1.6	1.8	1.4	1.8	2.5	0.7	0.0	1.9	0.0	1.1	1.8
Paratyphoid fever	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.7	0.2	0.2	2.0	0.6	1.0	1.0	0.0	1.0	0.7	0.0	0.6	0.7	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Pertussis	Cases	1	1	4	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Rate	3.3	3.6	2.8	3.8	20.7	7.9	12.1	9.0	0.0	6.6	3.2	4.9	5.1	5.7	2.5	20.5	0.0	14.4	28.0	4.4	9.1
Rheumatic fever	Cases	0	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0
	Rate	3.3	1.6	4.4	12.7	2.9	3.0	2.5	6.7	0.0	6.0	4.8	1.2	5.1	2.1	2.5	0.0	0.0	0.6	0.0	0.0	0.0
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	0.2	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
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	1	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	0.7	1.6	0.6	0.0	1.1	0.0	0.7	3.3	0.0	0.0	0.5	0.0
Salmonellosis	Cases	3	10	10	5	7	2	25	2	3	8	1	4	8	7	3	3	1	10	0	7	1
	Rate	40.1	22.5	25.6	19.0	40.0	26.6	47.3	24.7	26.6	32.5	22.5	27.0	34.7	40.5	28.0	25.6	42.6	30.8	18.7	41.6	49.4
Shigellosis	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0
	Rate	1.3	1.6	5.6	4.1	3.8	6.9	4.0	0.0	1.9	1.3	0.0	1.2	3.6	1.8	0.0	2.9	0.0	3.6	1.9	2.7	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	3	7	3	1	0	0	0	0	2	1	1	0	1	0	0	0	4	0	0	0
	Rate	9.4	8.4	12.5	9.1	6.1	1.0	4.5	0.0	2.9	11.3	4.8	5.5	7.9	6.8	7.6	2.9	3.3	7.7	7.5	1.1	0.9
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	0.0	1.6	2.8	3.8	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.8	0.0	1.1	0.0	0.7	0.0	0.4	0.0	0.5	0.0
VTEC/STEC infection	Cases	1	0	0	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	2.0	2.2	0.9	0.7	6.4	3.9	4.0	0.0	1.9	1.3	0.0	1.2	0.0	1.1	0.0	3.7	9.8	4.0	5.6	1.6	2.7
Yersiniosis	Cases	0	2	4	1	0	1	1	3	1	3	1	1	2	2	0	0	4	13	1	2	2
	Rate	7.4	7.4	9.5	4.5	10.8	21.7	10.1	20.2	17.1	18.6	12.9	4.3	15.9	16.8	15.3	5.1	78.6	27.4	26.1	7.1	4.6

<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 December 2007 expressed as cases per 100 000

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

'H\YgY'hc'HU'g'UbX'fUH'g'UFY'XYf]j'YX'Zfca' h\Y'9d]Gi'fj'fYdcfhXUH'Y'Ug'cddcgYX'hc' h\Y'YUf'jYgh'Uj'Uj'UV'Y'XUH'i'gYX'j'b'h\Y'a'Yb]b[ cV&WU' X]gYUgY'gYV]cb'cZH'jg'fYdcfh