

MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 4 October 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

- *Dengue fever*: three dengue cases were notified in September 2007, bringing the year to date total to 102. The cases were from Waitemata (2) and Auckland (1) DHBs. Overseas travel was recorded for all cases. The countries visited during the incubation period were Cambodia (1), Samoa (1), and South America (1).
- *Hydatid disease*: one case of hydatid disease was notified in September 2007, bringing the year to date total to three. The case was from Auckland DHB aged in the 60-69 years age group. The case acquired the disease more than 20 years ago, with the disease picked up as an incidental finding when the case was hospitalised for another condition.
- *Leprosy*: one case of leprosy, still under investigation was notified in September 2007, bringing the year to date total to five. The case was from Counties Manukau DHB and had been to Samoa during the incubation period.
- *Listeriosis*: two cases of listeriosis of which one was perinatal were notified in September 2007, bringing the year to date total to 17. The cases were aged 40-49 years and 60-69 years from Capital and Coast and Hutt DHBs respectively. The perinatal case occurred at 37 weeks of gestation, the infant survived. The suspect source was identified as a cold beef satay salad from a food premise although there was no specific evidence to implicate this. The non-perinatal case had an underlying illness.

- *Meningococcal disease*: based on the earliest date available¹, 11 cases of meningococcal disease were notified during September 2007, of which eight (72.7%) were laboratory-confirmed. In comparison, 11 cases were notified the previous month, August 2007, and 12 cases were notified during the same month last year, September 2006. For the 12 month period ending 30 September 2007, Tairāwhiti DHB recorded the highest incidence rate of 6.7 per 100 000 population (3 cases), followed by Hawke's Bay (6.6 per 100 000, 10 cases), and Counties Manukau (5.2 per 100 000, 23 cases). The highest age-specific incidence rate was in infants aged less than one year (47.3 per 100 000 population, 27 cases), followed by those in the 1-4 years age group (16.0 per 100 000 population, 36 cases), and those in the 15-19 years age group (5.4 per 100 000 population, 17 cases).
- *Mumps*: 15 cases of mumps were notified in September 2007 compared to three notified cases in the same month of the previous year (Figure 1). The cases were reported from Counties Manukau (3), Waikato (3), Bay of Plenty (2), Canterbury (2), Southland (2), Northland (1), Auckland (1), and Wairarapa (1) DHBs. The cases were in the following age groups: 5-9 years (6), 1-4 years (4), 10-14 years (2), 20-29 years (2), and 50-59 years (1). Six cases were reported as immunised of which four received two doses of MMR while the remaining two cases received one dose.
- *Shigellosis*: 13 cases were notified in September 2007 compared to six notified cases in the same month in the previous year. The cases were from Counties Manukau (2), Waikato (2), Nelson Marlborough (2), Canterbury (2), Waitemata (1), Auckland (1), Lakes (1), Capital and Coast (1), and Otago (1) DHBs. The sample was received for 11/13 cases. The species involved were: *Shigella sonnei* biotype g (5), *S. flexneri* 2a (2), *S. flexneri* 6 (2), and *S. sonnei* biotype a (2). Two cases had been overseas, one to Australia and one to India during the incubation period.
- *VTEC/STEC*: 13 cases of VTEC/STEC were notified in September 2007 compared to five notified cases in the same month of the previous year (Figure 2). The cases were reported from Waitemata (5), Waikato (5), Canterbury (2), and Lakes (1) DHBs. Nine cases were aged between 1-4 years, of which two had haemolytic-uraemic syndrome (HUS). Three family clusters were reported (two from Waikato, and one from Waitemata) involving six cases.

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

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

Summary of completed outbreaks reported to ESR during September 2007

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
Carbon monoxide	Wellington	1	4
Gastroenteritis	Wellington, Canterbury	2	33
Norovirus	Canterbury	2	45
Total		5	82

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 September 2007

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Cryptosporidium</i> spp.	Auckland	1	4
<i>Escherichia coli</i> O157:H7	Auckland	1	3
Gastroenteritis	Auckland, Waikato, Tauranga, Hawke's Bay, Wellington, West Coast, Otago	23	148
Scromboid poisoning	Auckland	1	3
<i>Mycobacterium bovis</i>	Hutt	1	2
Norovirus	Auckland, Waikato	2	13
<i>Shigella</i>	Auckland	1	2
Total		30	175

3. Deaths from notifiable diseases

Two deaths were reported for the month of September.

Disease	District Health Board	Age group	Sex
Meningococcal disease	Counties Manukau	<1 yr	M
Tuberculosis disease – new case	Waitemata	60-69 yrs	F

4. Trends in selected diseases to September 2007

Figure 1: Mumps notifications by month by year, January 2003 – September 2007

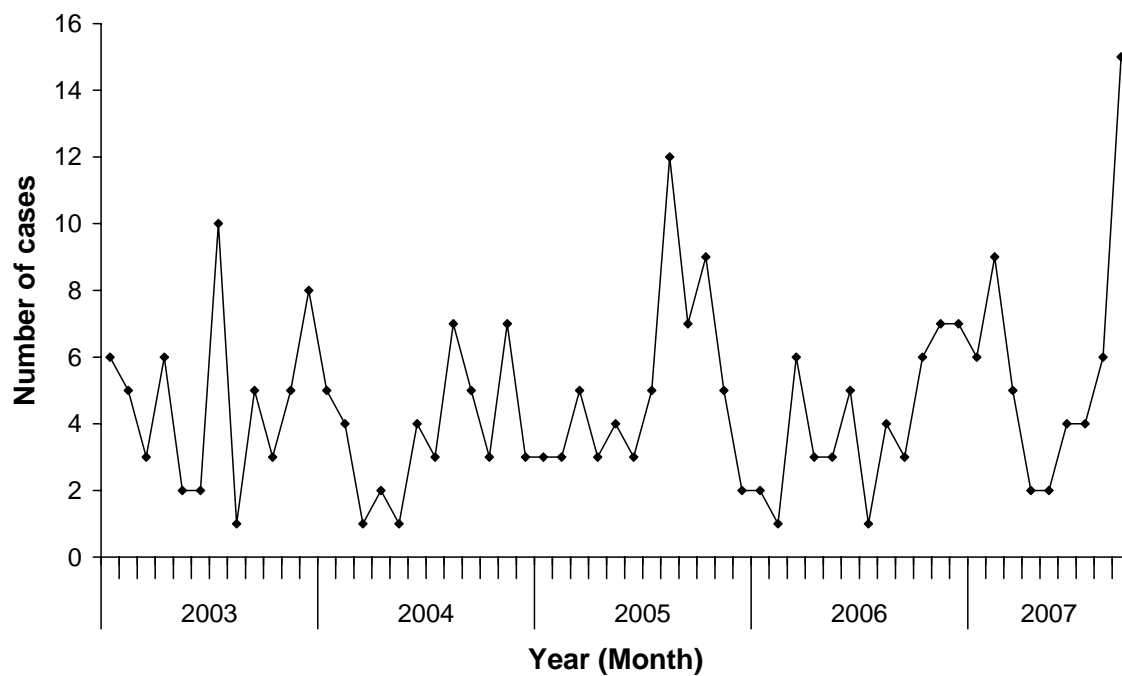
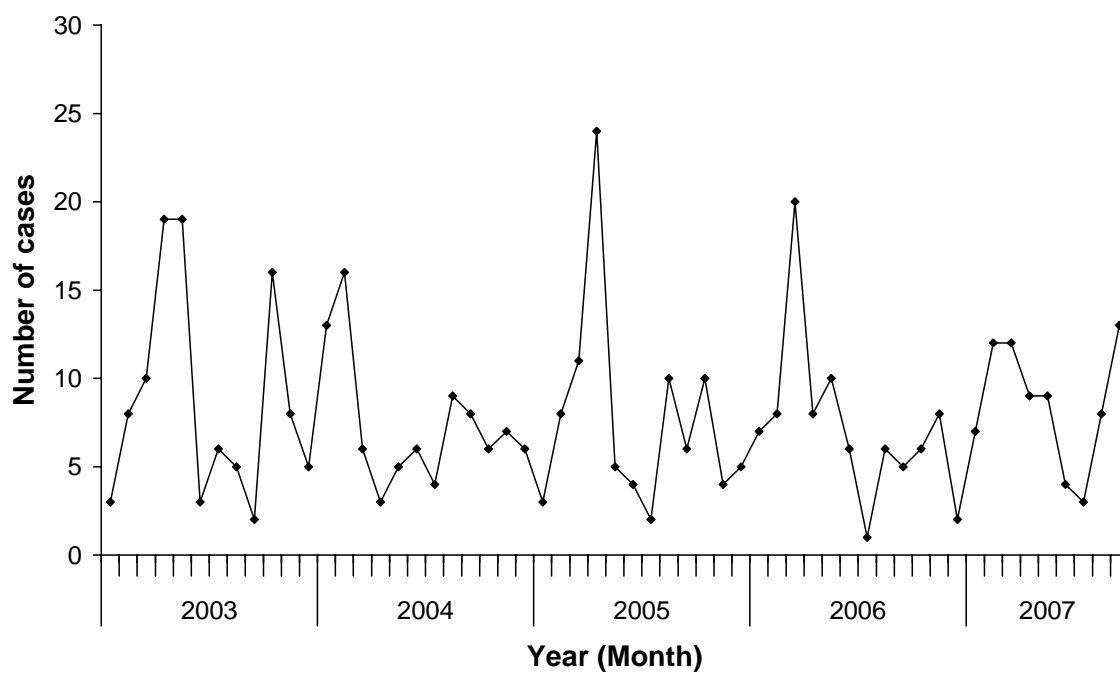


Figure 2: VTEC/STEC notifications by month by year, January 2003 – September 2007



5. Data Tables

National Surveillance data September-2007

Disease	Current Year - 2007 ¹			Previous Year - 2006		
	September-2007 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	September-2006 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	919	9721	341.1	1228	11475	389.5
Cryptosporidiosis	121	650	23.6	148	412	18.7
Dengue fever	3	102	2.7	0	10	0.3
Gastroenteritis	41	444	14.9	56	765	21.0
Giardiasis	88	1088	33.0	86	937	29.5
Haemophilus influenzae type b	2	16	0.4	0	9	0.2
Hepatitis A	1	31	1.0	9	111	3.1
Hepatitis B ⁴	5	56	1.7	7	49	1.6
Hepatitis C ⁴	2	25	0.8	2	24	0.7
Hydatid disease	1	3	0.1	0	0	0.0
Lead absorption	3	48	1.5	5	64	1.9
Legionellosis	1	47	1.4	1	39	1.5
Leprosy	1	5	0.1	0	2	0.1
Leptospirosis	5	59	1.8	10	73	2.2
Listeriosis	2	17	0.6	0	12	0.4
Malaria	2	16	0.5	3	25	0.7
Measles	0	16	0.5	3	15	0.6
Meningococcal disease ⁵	10	81	2.9	12	120	4.0
Mumps	15	53	1.8	3	28	1.1
Paratyphoid fever	1	14	0.6	1	14	0.4
Pertussis	28	263	10.2	103	961	38.7
Rheumatic fever	5	127	3.5	2	89	2.8
Rickettsial disease	0	2	0.1	0	6	0.1
Rubella	0	7	0.2	2	6	0.2
Salmonellosis	91	928	29.8	114	1030	33.9
Shigellosis	13	106	3.1	6	80	4.2
Tetanus	0	1	0.0	0	1	0.0
Tuberculosis disease	16	209	7.2	59	263	8.2
Typhoid fever	3	42	1.5	4	20	0.6
VTEC/STEC infection	13	77	2.2	5	71	2.2
Yersiniosis	39	389	13.1	42	334	10.9

¹ These data are provisional

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

		Cases ¹ and current rate ² for September 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	Unknown
Campylobacteriosis	Cases	41	138	112	92	94	20	35	0	36	40	11	17	34	53	4	20	6	105	18	21	22	0
	Rate	248.6	384.4	353.1	283.5	340.3	308.1	286.3	121.3	418.4	320.1	341.4	218.7	351.2	411.7	201.4	325.5	304.7	414.3	447.8	352.5	309.2	0.0
Cryptosporidiosis	Cases	6	3	3	3	34	2	4	0	3	3	1	7	1	4	1	3	3	12	14	4	10	0
	Rate	18.7	15.8	12.5	13.6	48.5	20.7	15.6	4.5	13.3	21.9	30.6	46.6	45.5	31.2	61.2	21.2	42.6	15.3	67.2	18.1	31.1	0.0
Dengue fever	Cases	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.7	4.2	6.7	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	0.5	0.0	0.0
Gastroenteritis	Cases	0	7	11	6	1	1	0	0	0	0	0	0	1	3	0	2	0	7	0	2	0	0
	Rate	2.7	16.0	18.8	12.0	9.9	8.9	4.5	0.0	6.7	10.0	4.8	33.7	15.2	20.1	15.3	3.7	22.9	31.0	11.2	4.4	8.2	0.0
Giardiasis	Cases	2	12	12	10	7	1	9	0	1	0	0	1	1	10	2	3	0	11	1	2	3	0
	Rate	46.1	28.5	44.1	24.4	37.1	33.5	36.7	27.0	8.6	26.6	20.9	24.5	23.8	45.1	25.5	62.9	19.7	26.2	26.1	36.1	37.5	0.0
Haemophilus influenzae type b	Cases	1	0	0	0	0	1	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	1.0	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	0.0
Hepatitis A	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.7	2.4	0.9	2.0	0.3	0.0	1.0	0.0	2.9	2.7	1.6	0.0	0.7	0.4	0.0	0.0	0.0	0.4	0.0	0.5	0.9	0.0
Hepatitis B	Cases	0	1	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.0	2.4	1.6	2.3	1.2	0.0	1.5	2.2	2.9	4.0	0.0	0.0	2.9	1.1	0.0	2.2	0.0	2.5	1.9	0.5	0.0	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
	Rate	0.7	0.4	0.5	0.2	0.3	2.0	0.5	0.0	1.9	0.0	0.0	0.0	0.7	1.8	0.0	0.0	6.6	2.5	0.0	1.1	0.9	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	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	0.0
Hydatid disease	Cases	0	0	1	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	0.0	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	0.0
Lead absorption	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Rate	0.0	1.0	0.7	0.5	1.5	3.0	2.0	4.5	1.9	2.0	3.2	3.1	2.2	2.1	2.5	0.7	0.0	1.0	0.0	4.9	0.9	0.0
Legionellosis	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	1.2	1.4	0.9	0.0	0.0	0.5	24.7	1.9	1.3	0.0	1.2	0.0	1.8	5.1	1.5	3.3	1.9	0.0	1.6	1.8	0.0
Leprosy	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.2	0.7	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	0.0
Leptospirosis	Cases	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0
	Rate	4.7	0.2	0.0	0.2	2.6	0.0	1.5	2.2	4.8	4.0	8.1	5.5	0.0	0.0	2.5	2.2	16.4	1.9	3.7	1.6	3.7	0.0
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	Rate	2.7	0.2	0.7	0.9	0.3	0.0	0.5	0.0	1.0	0.0	0.0	0.6	1.4	0.7	0.0	0.0	0.0	0.0	1.9	1.1	0.9	0.0
Malaria	Cases	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.7	0.2	1.4	1.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.7	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	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.2	0.0	0.0	0.5	0.0	1.9	0.7	0.0	0.6	1.4	1.1	0.0	1.5	13.1	0.8	0.0	0.0	0.0	0.0
A Yb]b[cV&VWU' X]gYUgY'	Cases	0	1	0	2	1	0	1	0	0	1	0	0	0	0	0	0	0	2	0	1	1	0
	Rate	4.7	1.6	2.1	5.2	5.0	1.0	2.0	6.7	1.9	6.6	0.0	1.2	5.1	2.9	2.5	0.0	0.0	2.1	0.0	3.3	2.7	0.0
Mumps	Cases	1	0	1	3	3	0	2	0	0	0	0	0	0	0	1	0	0	2	0	0	2	0
	Rate	0.7	1.0	1.6	3.2	1.8	2.0	2.0	0.0	1.0	2.0	1.6	1.8	2.2	2.1	5.1	0.7	0.0	1.9	0.0	1.6	1.8	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	0
	Rate	0.0	0.2	0.5	2.0	0.9	0.0	1.0	0.0	1.0	0.7	0.0	0.6	0.0	0.0	0.0	0.7	0.0	0.2	0.0	0.5	0.0	0.0
Pertussis	Cases	1	0	1	1	6	0	0	0	0	0	0	0	0	2	0	4	0	10	2	0	1	0
	Rate	1.3	2.2	3.7	4.1	24.5	5.9	15.6	13.5	0.0	6.0	3.2	9.2	12.3	10.4	0.0	27.1	0.0	21.8	31.7	5.5	7.3	0.0
Rheumatic fever	Cases	0	0	0	0	2	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0
	Rate	4.0	1.6	4.4	12.4	2.3	3.0	3.0	4.5	1.0	6.0	6.4	0.6	6.5	3.6	2.5	0.0	0.0	0.4	0.0	0.0	0.9	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	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	0.7	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	0
	Rate	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.6	0.0	0.0	0.7	0.0	0.7	3.3	0.2	0.0	0.0	0.0	0.0
Salmonellosis	Cases	4	13	9	7	6	5	6	0	1	2	1	3	4	5	1	3	2	10	0	5	4	0
	Rate	40.1	23.3	26.0	19.0	42.6	24.6	32.7	22.5	27.6	27.2	25.8	23.9	28.2	36.5	38.2	26.3	36.0	30.8	24.3	36.7	54.0	0.0
Shigellosis	Cases	0	1	1	2	2	1	0	0	0	0	0	0	0	1	0	2	0	2	0	1	0	0
	Rate	1.3	2.0	6.3	3.8	4.1	7.9	3.5	0.0	1.0	1.3	1.6	0.6	2.2	2.5	0.0	4.4	0.0	2.9	1.9	2.2	2.7	0.0
Tetanus	Cases	0	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	0.0
Tuberculosis disease	Cases	1	2	2	3	1	0	0	0	0	1	0	0	1	4	0	1	0	0	0	0	0	0
	Rate	13.4	6.4	12.8	12.0	7.3	2.0	3.0	0.0	3.8	10.0	1.6	8.0	7.9	8.2	5.1	2.2	6.6	5.4	7.5	1.1	0.9	0.0
Typhoid fever	Cases	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	0.0	2.6	2.1	6.1	1.5	0.0	0.0	0.0	1.0	0.0	0.0	1.2	0.0	1.1	0.0	0.7	0.0	0.4	0.0	0.5	0.0	0.0
VTEC/STEC infection	Cases	0	5	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
	Rate	1.3	2.8	0.9	0.7	6.1	3.9	2.5	2.2	1.0	0.7	0.0	0.6	0.0	0.7	0.0	1.5	3.3	4.6	7.5	1.1	2.7	0.0
Yersiniosis	Cases	1	2	4	1	3	2	1	0	0	1	2	0	1	4	0	1	2	14	0	0	0	0
	Rate	4.7	8.6	10.0	5.4	11.1	23.6	13.6	9.0	14.3	13.3	14.5	4.9	15.9	20.4	17.8	8.0	68.8	26.2	28.0	10.4	2.7	0.0

¹ These data are provisional

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

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

‘H\YgY’hcHU’g UbX’fUH\gUFY’XYf]j YX Zfca ‘h\Y’9d]Gi’fj ‘fYdcfhXUH\’Ug’cddcgYX’hc’h\Y’Yuf’]Yf’Uj Uj’UV’Y’XUH\’Ug’i gYX’]b’h\Y’a Yb]b[cV&VW