
MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 6 August 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

- *Brucellosis*: two confirmed cases of brucellosis were notified in July 2007. The cases were reported from Counties Manukau and Auckland. The case from Counties Manukau was a Tongan visitor to New Zealand who kept pigs back home. The Auckland case had been in Tonga during the incubation period and also butchers pigs locally, and dug a manhole on a main sewage line.
- *Legionellosis*: 10 cases of legionellosis were notified in July 2007 compared to three notified cases at the same month in the previous year (Figure 1). The cases were from Counties Manukau (2), Nelson Marlborough (2), Waitemata (1), Auckland (1), Taranaki (1), Hutt (1), Capital and Coast (1), and Southland (1), DHBs. Four cases were hospitalised. The species was identified for four of the cases as *Legionella longbeachae* SG 2 (2), and *L. pneumophila* SG 1 or 12 (2). No samples were received for one of the cases. The remaining five cases are still undergoing laboratory testing to confirm their diagnosis.
- *Meningococcal disease*: based on the earliest date available¹, 23 cases of meningococcal disease were notified during July 2007, of which 18 (78.3%) were laboratory-confirmed. In comparison, eight cases were notified the previous month, June 2007, and 27 cases were notified during the same month last year, July 2006. For the 12 month period ending 31 July 2007, Tairāwhiti DHB recorded the highest incidence rate of 9.0 per 100 000 population (4 cases), followed by Northland (6.7 per 100 000, 10 cases), and Hutt (5.8 per

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.

100 000, 8 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 (15.5 per 100 000 population, 35 cases), and those in the 15-19 years age group (5.4 per 100 000 population, 17 cases).

- *Mumps*: five cases of mumps were notified in July 2007 compared to one notified case in the same month of the previous year. The cases were reported from Counties Manukau (2), Canterbury (2), and Hutt (1) DHBs. The cases were in the following age groups: 15-19 years (3), 5-9 years (1), and 30-39 years (1). Two cases were reported as being immunised (the first case aged 5-9 years received two doses of MMR while the second case aged 15-19 years received one dose).
- *Shigellosis*: 18 cases were notified in July 2007 compared to seven notified cases in the same month in the previous year (Figure 2). The cases were from Auckland (7), Canterbury (2), Counties Manukau (1), Waikato (1), Lakes (1), Bay of Plenty (1), Taranaki (1), MidCentral (1), Hutt (1), Capital and Coast (1), and Nelson Marlborough (1) DHBs. The species involved was identified for all cases: *Shigella sonnei* biotype g (8), *S. sonnei* biotype a (5), *S. boydii* 13 (1), *S. flexneri* biotype 1 (1), *S. flexneri* biotype 2a (1), *S. flexneri* (1), and *S. species* (1). Seven cases had been overseas: India (3), Vanuatu (2), Samoa (1), and Thailand (1) during the incubation period.
- *Rubella*: three cases were notified in July 2007 compared to one notified case in the same month in the previous year. The cases were from Capital and Coast (2), and Hawke's Bay (1) DHBs. The cases were aged <1 year, 1-4 years, and 20-29 years. Immunisation history was recorded for two of the three cases. The case aged 1-4 years was immunised and received one dose, while the case aged <1 year was not immunised. The younger case was not yet eligible to be immunised with MMR.
- *VTEC/STEC*: three cases were notified in July 2007 compared to one notified case in the same month in the previous year. The cases were from Northland (1), Lakes (1), and Southland (1) DHBs. Two cases were aged <1 year, and one case was aged 5-9 years. One case was hospitalised. One case had no risk factor information recorded. Of the remaining two cases, both had contact with farm animals; both had bore and roof water, and one had home killed meats. The species involved was identified as *Escherichia coli* O157:H7 for all three cases.

2. Outbreaks

Completed outbreak reports

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

Summary of completed outbreaks reported to ESR during July 2007

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Nelson Marlborough	1	2
Norovirus	Auckland	4	29
Total		5	31

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 July 2007

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Auckland	1	2
Chlorine poisoning	Auckland	1	2
<i>Cryptosporidium</i> spp.	Rotorua	1	3
Gastroenteritis	Auckland, Tauranga, West Coast, Otago	12	80
<i>Giardia</i>	Auckland	2	8
Influenza	Wellington	1	-
<i>Mycobacterium tuberculosis</i>	Auckland	1	3
Norovirus	Auckland, Otago	4	43
Total		23	141

3. Deaths from notifiable diseases

One death was reported for the month of July.

Disease	District Health Board	Age group	Sex
Meningococcal disease	Waitemata	50-59 years	F

4. Trends in selected diseases to July 2007

Figure 1: Legionellosis notifications by month by year, January 2002 – July 2007

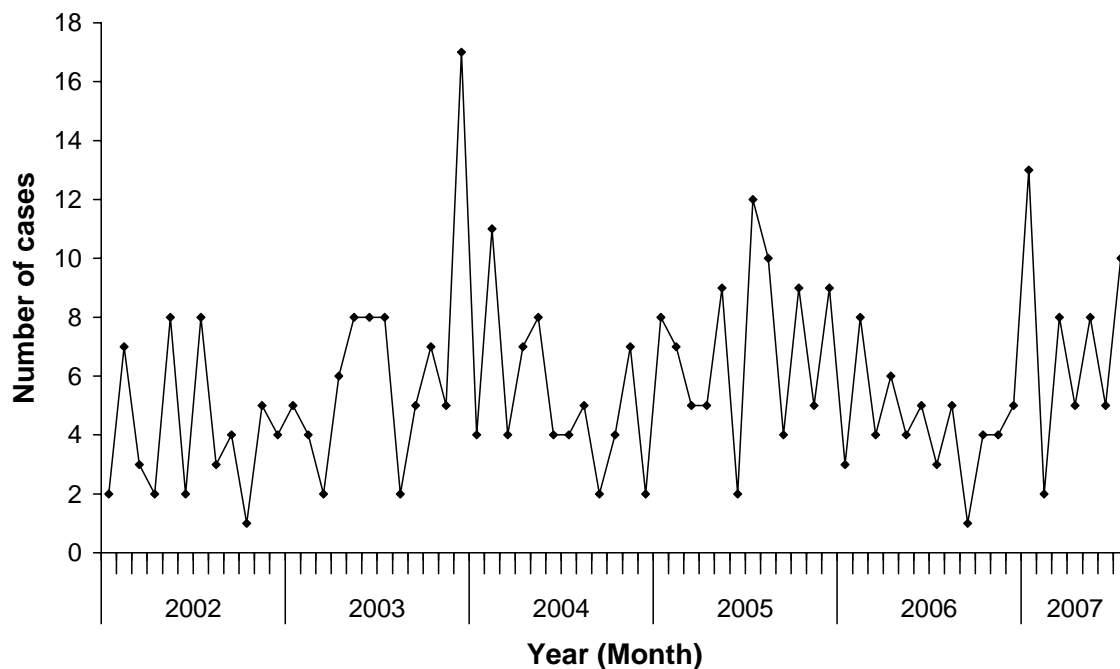
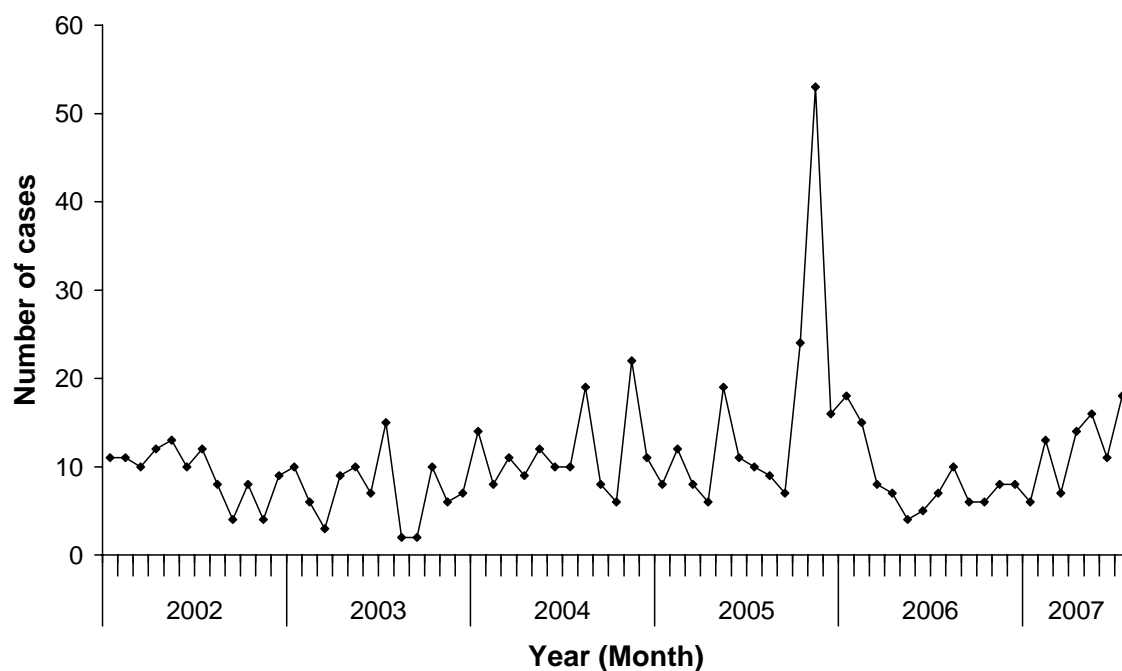


Figure 2: Shigellosis notifications by month by year, January 2002 – July 2007



5. Data Tables

Disease incidence and rates - July 2007

Disease	Current Year - 2007 ¹			Previous Year - 2006		
	Jul-2007 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	Jul-2006 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	875	7950	357.3	1074	9031	394.4
Cryptosporidiosis	32	460	23.9	26	206	19.7
Dengue fever	3	98	2.6	1	10	0.3
Gastroenteritis ³	44	348	15.5	77	644	20.1
Giardiasis	91	864	32.2	110	745	30.1
<i>Haemophilus influenzae</i> type b	2	13	0.3	0	9	0.3
Hepatitis A	0	25	1.3	4	93	2.9
Hepatitis B ⁴	3	47	1.7	5	39	1.6
Hepatitis C ⁴	0	20	0.9	1	17	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	4	41	1.6	2	51	1.8
Legionellosis	10	51	1.7	3	33	1.7
Leprosy	0	4	0.1	1	2	0.1
Leptospirosis	1	50	2.1	8	52	2.2
Listeriosis	1	13	0.6	0	9	0.5
Malaria	2	12	0.7	3	15	0.5
Measles	4	15	0.6	0	10	0.5
Meningococcal disease ⁵	22	59	3.1	30	90	4.0
Mumps	5	33	1.4	1	21	1.4
Paratyphoid fever	1	13	0.6	3	13	0.5
Pertussis	29	209	14.3	103	738	43.6
Rheumatic fever	13	44	1.7	21	81	2.9
Rickettsial disease	0	0	0.0	4	5	0.1
Rubella	3	6	0.3	1	3	0.2
Salmonellosis	58	751	30.3	60	832	34.9
Shigellosis	18	85	3.0	7	64	4.2
Tetanus	0	1	0.0	0	1	0.0
Tuberculosis disease	28	166	8.4	30	173	7.5
Typhoid fever	3	36	1.5	1	14	0.5
VTEC/STEC infection	3	56	2.0	1	60	2.3
Yersiniosis	35	292	12.9	22	243	10.3

1 These data are provisional

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

6 Other notifiable infectious diseases reported in July: Brucellosis

Surveillance Data by District Health Board - July 2007

		Cases ¹ and current rate ² for July 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	21	111	94	84	71	23	34	0	22	50	11	28	32	81	6	28	8	98	12	38	23
	Rate	231.2	410.2	371.4	307.8	347.6	321.9	315.0	128.1	456.4	332.1	355.9	248.7	378.6	418.9	206.5	318.9	291.6	423.1	466.4	396.9	299.1
Cryptosporidiosis	Cases	0	1	3	1	4	3	0	0	0	0	0	3	1	8	0	1	1	4	1	1	0
	Rate	16.0	15.8	12.1	13.1	47.6	21.7	17.6	4.5	17.1	21.3	38.6	47.8	46.2	33.0	68.8	18.3	36.0	16.9	61.6	21.9	28.4
Dengue fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
	Rate	0.7	3.8	6.3	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
Gastroenteritis	Cases	0	6	8	3	1	0	2	0	1	0	0	0	2	4	0	0	1	14	0	1	1
	Rate	2.0	16.4	18.6	11.8	10.5	7.9	4.0	0.0	6.7	11.3	4.8	36.8	18.1	20.8	12.7	5.1	22.9	30.6	9.3	11.5	10.1
Giardiasis	Cases	3	12	17	8	4	7	4	0	3	4	0	4	1	7	3	4	0	5	0	3	2
	Rate	47.4	28.3	43.2	21.5	38.3	37.4	32.2	27.0	9.5	29.9	27.4	22.7	27.5	39.4	30.6	62.2	19.7	25.3	26.1	32.3	36.6
<i>Haemophilus influenzae</i> type b	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.2	0.5	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
Hepatitis A	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	2.6	1.4	3.4	0.6	1.0	2.0	0.0	1.9	2.7	0.0	0.6	0.7	0.4	2.5	0.0	0.0	0.4	0.0	0.5	0.0
Hepatitis B	Cases	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	3.0	1.4	2.0	1.2	0.0	1.0	2.2	3.8	4.0	0.0	0.0	2.2	1.4	0.0	2.2	0.0	2.5	1.9	0.5	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	0.7	0.4	0.5	0.2	0.3	2.0	0.5	2.2	2.9	0.0	0.0	0.0	2.2	1.4	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Rate	0.0	1.2	0.5	0.5	1.8	4.9	2.5	4.5	1.0	2.0	3.2	3.7	2.2	1.8	2.5	0.7	0.0	1.9	0.0	4.9	0.0
Legionellosis	Cases	0	1	1	2	0	0	0	0	1	0	0	0	1	1	0	2	0	0	0	0	1
	Rate	1.3	1.6	1.4	1.1	0.0	1.0	0.5	24.7	1.9	1.3	0.0	1.2	2.2	1.8	5.1	1.5	3.3	2.3	0.0	2.2	1.8
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	0.0	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	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	6.7	0.2	0.0	0.5	2.6	0.0	1.5	4.5	5.7	4.6	8.1	5.5	1.4	0.0	7.6	2.9	13.1	2.3	3.7	1.6	2.7
Listeriosis	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.3	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	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Rate	0.0	0.0	1.4	1.4	1.2	1.0	0.0	0.0	0.0	0.0	1.6	0.0	1.4	0.0	2.5	1.5	0.0	0.6	1.9	0.0	0.0
Measles	Cases	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	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	1.2	0.7	1.8	0.0	1.5	13.1	1.0	0.0	0.0	0.9
Meningococcal disease ⁴	Cases	0	1	0	3	4	0	1	0	0	3	0	1	3	4	0	0	0	1	0	1	0
	Rate	6.0	1.2	2.1	5.2	5.5	2.0	1.0	9.0	1.9	5.3	0.0	3.1	5.8	3.2	2.5	0.0	0.0	1.9	1.9	3.8	4.6
Mumps	Cases	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0
	Rate	0.0	1.0	1.4	2.0	0.9	3.0	1.5	0.0	1.0	2.0	3.2	3.1	2.9	1.4	2.5	0.7	0.0	1.5	0.0	1.6	0.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.2	0.5	2.0	0.9	0.0	0.5	0.0	1.0	0.7	0.0	0.6	0.7	0.0	0.0	0.7	0.0	0.2	0.0	0.5	0.0
Pertussis	Cases	0	0	1	1	6	0	2	0	0	0	0	0	1	1	0	7	0	5	3	1	1
	Rate	0.7	2.4	3.5	4.1	40.6	8.9	19.1	18.0	0.0	6.0	4.8	11.6	18.8	14.7	5.1	35.1	0.0	31.2	42.9	8.2	14.6
Rheumatic fever	Cases	0	3	2	0	1	2	2	0	0	0	1	0	0	2	0	0	0	0	0	0	0
	Rate	4.7	0.6	1.4	0.2	1.8	2.0	3.0	6.7	1.0	5.3	6.4	0.6	5.1	4.3	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	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
Rubella	Cases	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.6	0.6	0.0	0.7	0.0	0.0	3.3	0.2	0.0	0.5	0.0
Salmonellosis	Cases	1	7	5	4	7	1	5	0	3	2	0	0	0	3	0	2	0	7	1	5	5
	Rate	40.8	23.7	25.8	19.0	43.2	20.7	30.2	27.0	28.5	32.5	24.2	25.7	31.8	36.2	38.2	26.3	29.5	29.9	35.4	39.4	57.6
Shigellosis	Cases	0	0	7	1	1	1	1	0	1	0	0	1	1	1	0	1	0	2	0	0	0
	Rate	1.3	1.8	5.8	4.1	3.8	6.9	2.5	0.0	1.0	1.3	1.6	0.6	2.9	2.1	0.0	5.9	0.0	2.7	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	6	4	5	2	0	0	0	0	3	0	1	3	0	1	1	0	2	0	0	0
	Rate	20.0	6.8	12.5	13.8	8.8	3.0	4.0	0.0	6.7	7.3	1.6	17.2	8.7	7.9	7.6	2.2	9.8	6.3	5.6	1.6	1.8
Typhoid fever	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	3.0	1.9	5.7	2.0	0.0	0.5	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	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	1.3	2.2	0.9	0.7	4.4	3.0	2.5	2.2	1.0	0.7	0.0	0.6	0.0	0.7	0.0	1.5	3.3	4.6	3.7	2.2	2.7
Yersiniosis	Cases	1	5	3	3	4	2	1	0	0	0	1	0	2	1	2	0	1	6	3	0	0
	Rate	6.0	8.4	10.0	6.6	10.8	22.6	13.6	9.0	13.3	12.6	12.9	5.5	13.0	22.2	17.8	11.0	55.7	22.6	31.7	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 July 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