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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 6 November 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*: one confirmed case of brucellosis was notified in October 2007 from Waitemata DHB. The case is thought to have acquired the disease more than 20 years ago in Iraq.
- *Hazardous substances injury*: one case of accidental hazardous substances injury was reported in October 2007 from Counties Manukau DHB. The case received superficial burns from methamphetamine. The case was hospitalised but discharged on the same day.
- *Legionellosis*: 12 cases of legionellosis were notified in October 2007 compared to four notified cases in the same month of the previous year (Figure 1). The cases were from Waitemata (4), Counties Manukau (3), Northland (2), Canterbury (2), and Lakes (1) DHBs. Four cases were hospitalised. The cases were in the following age groups: 40-49 years (4), 60-69 years (4), 70+ (2), and 30-39 years (1), and 50-59 years (1). The species involved was identified for eight of the cases: *Legionella pneumophila* 12 (2), *L. pneumophila* 1 (1), *L. pneumophila* 8 (1), *L. pneumophila* 15 (1), *L. longbeachae* 1 (1), *L. longbeachae* 2 (1), and *L. micdadei* (1).
- *Leprosy*: three cases of leprosy, two under investigation and one probable were notified in October 2007, bringing the year to date total to eight. The cases were all from Counties Manukau DHB. Two cases are from countries known to have endemic leprosy, while the third case is still being investigated.

- *Meningococcal disease*: based on the earliest date available<sup>1</sup>, nine cases of meningococcal disease were notified during October 2007, of which eight (88.9%) were laboratory-confirmed. In comparison, 11 cases were notified the previous month, September 2007, and 14 cases were notified during the same month last year, October 2006. For the 12 month period ending 31 October 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 Northland (5.3 per 100 000, 8 cases). The highest age-specific incidence rate was in infants aged less than one year (40.3 per 100 000 population, 23 cases), followed by those in the 1-4 years age group (15.1 per 100 000 population, 34 cases), and those in the 15-19 years age group (5.4 per 100 000 population, 17 cases).
- *Mumps*: nine cases of mumps were notified in October 2007 compared to six notified cases in the same month of the previous year. The cases were reported from Waitemata (2), Waikato (2), Canterbury (2), Whanganui (1), Wairarapa (1), and Otago (1) DHBs. The cases were in the following age groups: 20-29 years (4), 30-39 years (2), 1-4 years (1), 40-49 years (1), and 70+ years (1). One case aged 20-29 years was reported as immunised but the number of MMR doses received was not recorded. A further two cases were not immunised and the immunisation status of the remaining cases were unknown.
- *Salmonellosis*: 122 cases of salmonellosis were notified in October 2007 compared to 108 notified cases in the same month of the previous year (Figure 2). The highest numbers of cases were reported from Waikato (15), Capital and Coast (13), Counties Manukau (12), Southland (12), and Canterbury (11) DHBs. Nine cases were hospitalised. The serotype involved was identified for 117 of the cases. The dominant serotypes were: *Salmonella* Typhimurium phage type 160 (17 cases), *S. Brandenburg* (12), *S. Virchow* (8), *S. Montevideo* (7), and *S. Typhimurium* phage type 8 (7). Nine cases in total were linked to a *S. Montevideo* outbreak.
- *VTEC/STEC*: 14 cases of VTEC/STEC were notified in October 2007 compared to six notified cases in the same month of the previous year. The cases were reported from Nelson Marlborough (3), Bay of Plenty (2), West Coast (2), Northland (1), Waikato (1), Taranaki (1), Hawke's Bay (1), Capital and Coast (1), Canterbury (1), and Southland (1) DHBs. Five cases were hospitalised but none are known to have had haemolytic uraemic syndrome. Eight cases were aged <5 years, one case aged between 5-9 years, and the remaining five cases were aged between 30-69 years. Two family clusters were reported from Nelson Marlborough and West Coast involving two and three cases respectively.

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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*

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

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

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Escherichia coli</i> O157:H7	West Coast	1	2
Gastroenteritis	Waikato, Hawke's Bay, Hutt, Canterbury	5	61
<i>Giardia</i>	Waikato	1	8
Norovirus	Waikato, Manawatu, Canterbury, Otago	4	94
<i>Salmonella</i> Montevideo	Wellington	1	10
<b>Total</b>		<b>12</b>	<b>175</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 October 2007*

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Cryptosporidium</i> spp.	Southland	1	-
<i>E. coli</i> O157:H7	Nelson Marlborough	1	3
Gastroenteritis	Auckland, Taranaki, Hawke's Bay, Wellington, West Coast, Otago	38	185
<i>Giardia</i>	Auckland, Taranaki	2	3
Mumps	Waikato	1	4
Norovirus	Hawke's Bay	2	4
<i>Salmonella</i> Montevideo	Wellington	1	-
<b>Total</b>		<b>46</b>	<b>199</b>

## 3. Deaths from notifiable diseases

One death was reported for the month of October.

Disease	District Health Board	Age group	Sex
Meningococcal disease	Capital and Coast	1-4 years	M

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

Figure 1: Legionellosis notifications by month by year, January 2003 – October 2007

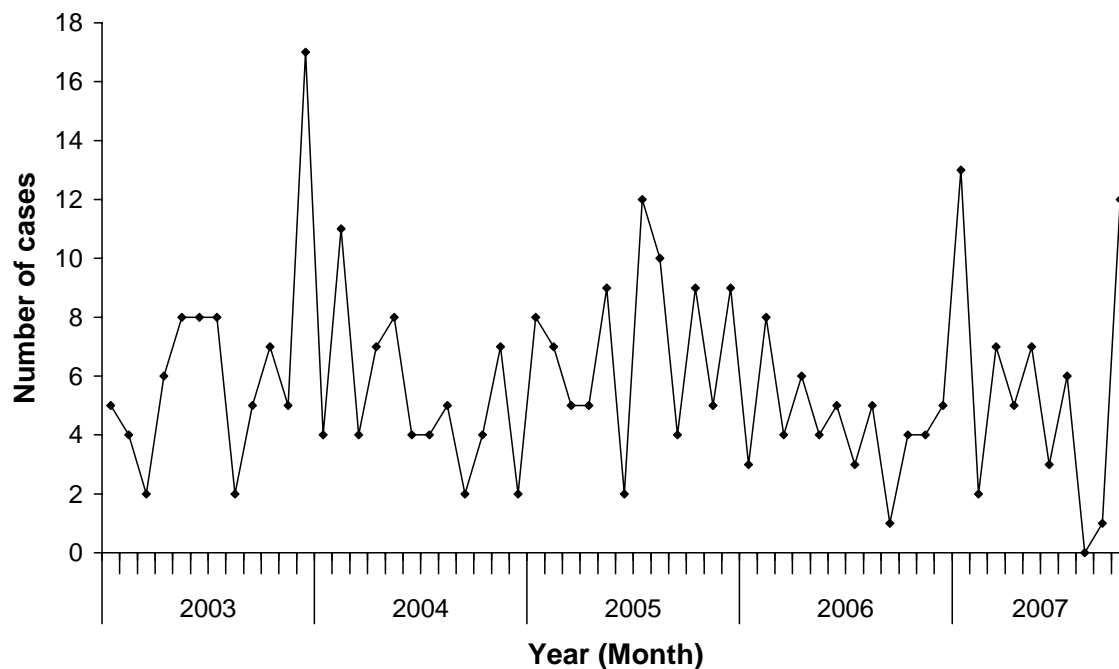
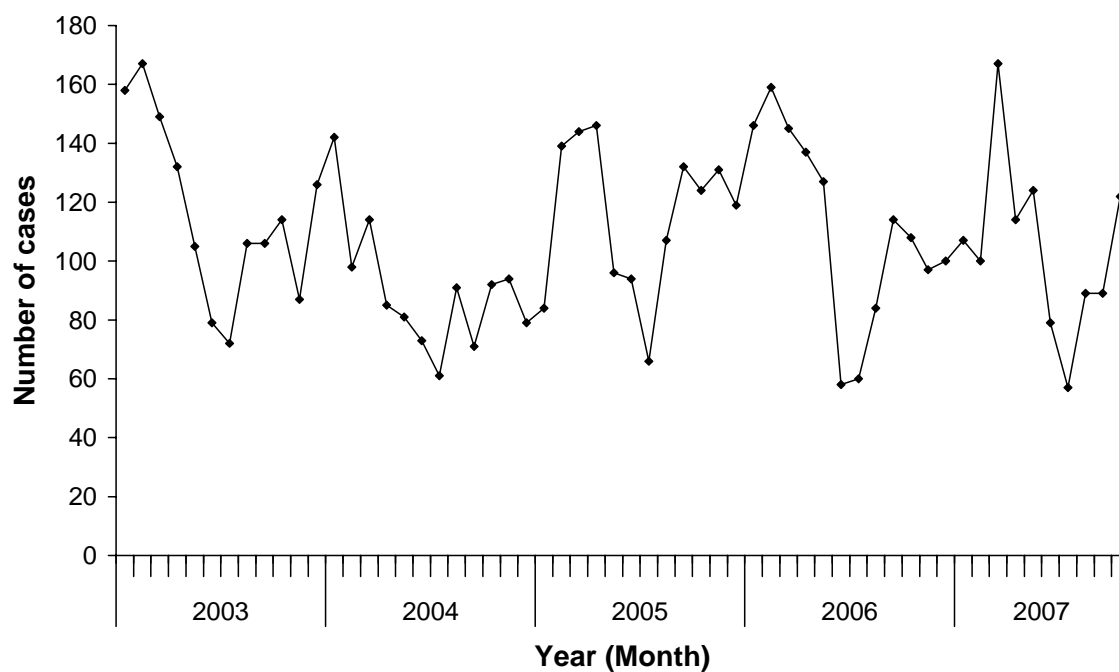


Figure 2: Salmonellosis notifications by month by year, January 2003 – October 2007



## 5. Data Tables

National Surveillance Data October 2007

Disease	Current Year - 2007 <sup>1</sup>			Previous Year - 2006		
	October 2007 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	October 2006 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	1020	10741	335.9	1234	12709	386.2
Cryptosporidiosis	171	822	22.8	202	614	18.0
Dengue fever	4	105	2.7	3	13	0.3
Gastroenteritis	54	496	14.5	67	832	21.6
Giardiasis	102	1190	33.0	101	1038	30.0
Haemophilus influenzae type b	0	16	0.4	0	9	0.2
Hazardous substances injury	1	3	0.1	0	0	0.0
Hepatitis A	4	35	1.1	3	114	3.1
Hepatitis B <sup>4</sup>	6	63	1.8	3	52	1.5
Hepatitis C <sup>4</sup>	2	26	0.7	6	30	0.8
Hydatid disease	0	3	0.1	0	0	0.0
Lead absorption	8	56	1.5	6	70	1.9
Legionellosis	12	56	1.6	4	43	1.4
Leprosy	3	8	0.2	0	2	0.1
Leptospirosis	5	62	1.8	4	77	2.0
Listeriosis	2	19	0.6	2	14	0.5
Malaria	3	19	0.5	2	27	0.7
Measles	1	17	0.5	3	18	0.5
Meningococcal disease <sup>5</sup>	10	92	2.9	10	130	3.8
Mumps	9	60	1.8	6	34	1.0
Paratyphoid fever	2	16	0.5	4	18	0.5
Pertussis	30	292	9.3	64	1025	34.2
Rheumatic fever	5	134	3.6	5	94	2.5
Rickettsial disease	0	2	0.0	1	7	0.2
Rubella	1	8	0.2	1	7	0.2
Salmonellosis	122	1048	30.1	108	1138	33.5
Shigellosis	8	114	3.1	6	86	3.7
Tetanus	0	1	0.0	0	1	0.0
Tuberculosis disease	25	235	6.9	41	304	8.5
Typhoid fever	2	44	1.5	2	22	0.6
VTEC/STEC infection	14	90	2.4	6	77	2.1
Yersiniosis	39	428	12.7	57	391	11.2

<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 October 2007) or the previous year (12 months up to and including October 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 - October 2007

		Cases <sup>1</sup> and current rate <sup>2</sup> for October 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	Unknown
Campylobacteriosis	Cases	49	152	138	73	82	27	48	2	42	37	9	28	35	62	3	23	7	121	14	42	26	0
	Rate	255.9	378.3	350.3	274.9	333.8	315.0	276.8	119.1	424.1	326.1	326.9	225.4	346.1	387.7	191.2	321.9	288.3	411.2	429.1	352.0	298.2	0.0
Cryptosporidiosis	Cases	4	4	2	6	27	4	2	1	10	5	0	11	2	5	1	11	3	18	16	14	25	0
	Rate	18.0	14.6	11.6	13.6	51.1	17.7	14.1	6.7	20.0	22.6	19.3	30.0	46.2	29.0	30.6	24.1	42.6	16.3	69.0	17.0	42.1	0.0
Dengue fever	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	0.7	4.2	7.0	7.5	1.5	0.0	2.5	0.0	1.9	0.7	1.6	0.0	0.0	0.7	2.5	2.9	3.3	0.8	0.0	0.0	0.0	0.0
Gastroenteritis	Cases	2	6	4	5	4	1	2	0	1	3	1	2	2	4	1	0	3	11	1	1	0	0
	Rate	2.7	15.4	17.9	12.2	10.2	8.9	5.0	0.0	7.6	8.6	6.4	27.6	14.5	19.3	17.8	3.7	32.8	31.8	7.5	3.8	5.5	0.0
Giardiasis	Cases	7	13	9	10	11	0	6	1	5	2	0	2	1	14	1	6	0	7	1	5	1	0
	Rate	46.8	27.7	42.3	25.3	37.7	31.5	34.7	29.2	11.4	24.6	16.1	23.9	23.8	49.1	28.0	65.8	16.4	25.9	26.1	37.2	36.6	0.0
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	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
Hazardous substances injury	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	0.0	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	0.0
Hepatitis A	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.7	2.4	1.2	2.0	0.3	0.0	1.0	0.0	1.9	2.7	1.6	0.0	0.7	0.4	0.0	0.7	0.0	0.4	0.0	0.5	0.9	0.0
Hepatitis B	Cases	1	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0
	Rate	0.7	2.4	1.9	2.0	1.2	1.0	1.5	0.0	2.9	4.0	0.0	0.0	3.6	1.4	0.0	2.9	0.0	2.7	0.0	0.5	0.0	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
	Rate	0.7	0.4	0.5	0.2	0.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	2.5	0.0	6.6	2.3	0.0	0.5	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	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	0.0	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	2	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	2	0	0	0	0
	Rate	0.0	1.2	0.7	0.5	1.5	1.0	2.0	4.5	1.9	2.0	4.8	3.7	2.9	2.1	2.5	0.7	0.0	1.3	0.0	4.4	0.9	0.0
Legionellosis	Cases	2	4	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
	Rate	2.7	1.8	1.2	1.4	0.0	1.0	0.5	22.5	1.9	1.3	0.0	1.2	0.0	1.4	2.5	1.5	3.3	2.3	0.0	1.6	0.9	0.0
Leprosy	Cases	0	0	0	3	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	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	0.0
Leptospirosis	Cases	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0
	Rate	4.0	0.2	0.0	0.2	2.9	0.0	1.5	2.2	3.8	4.0	3.2	7.4	0.0	0.0	2.5	2.9	16.4	1.7	3.7	1.6	3.7	0.0
Listeriosis	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	2.7	0.2	0.7	1.1	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	0.0	0.0
Malaria	Cases	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.7	0.2	1.6	1.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.4	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	1	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	1.4	0.0	1.5	9.8	0.4	0.0	0.0	0.0	0.0
A Yb]b[ cV&WV X]gYgY	Cases	1	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0	3	0	1	0	0
	Rate	5.3	1.4	1.9	4.8	4.7	2.0	2.5	9.0	1.9	6.6	0.0	1.2	5.1	2.5	2.5	0.0	0.0	2.7	0.0	3.3	2.7	0.0
Mumps	Cases	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	2	0	1	0	0
	Rate	0.7	1.2	1.4	2.9	2.3	2.0	1.5	0.0	1.0	2.0	3.2	1.8	2.2	2.1	2.5	0.7	0.0	2.1	0.0	1.1	1.8	0.0
Paratyphoid fever	Cases	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.5	1.6	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	0	3	0	1	10	1	4	1	0	2	0	1	0	0	0	1	0	2	0	1	3	0
	Rate	1.3	2.8	2.8	4.1	23.1	4.9	15.6	13.5	0.0	7.3	3.2	7.4	10.1	7.5	0.0	24.1	0.0	19.5	28.0	4.9	9.1	0.0
Rheumatic fever	Cases	0	0	0	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0