

MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 7 January 2009. As this information may be updated over time, the results should be regarded as provisional only.

Table of contents

1. Key notifiable disease trends	1
2. Outbreaks	3
3. Deaths from notifiable diseases	3
4. Trends in selected diseases to December 2008	4
5. Data Tables	5

1. Key notifiable disease trends

- *Hepatitis A*: Seven cases of Hepatitis A were notified in December 2008 compared to two notified cases during the same month of the previous year. The cases were reported from Counties Manukau (3), Northland, Waitemata, Bay of Plenty and Taranaki DHBs (1 case each). Three of the seven cases had been overseas during the incubation period; the countries visited were Samoa (2) and Fiji (1). One case, infected in New Zealand, had not been identified as a household contact of an earlier case so had not received immunoglobulin prophylaxis.
- *Invasive pneumococcal disease*: 48 cases of invasive pneumococcal disease were notified in December 2008. The cases were reported from Counties Manukau (10), Waikato (10), Auckland (6), Otago (4), Taranaki (3), Canterbury (3), Waitemata (2), Hawke's Bay (2), Hutt Valley (2), Lakes, Bay of Plenty, MidCentral, Capital and Coast, Wairarapa and South Canterbury DHBs (1 case each). The cases were distributed by age as follows 4 (1-4 years), 3 (5-9 years), 2 (10-14 years), 2 (15-19 years), 6 (30-39 years), 3 (40-49 years), 5 (50-59 years), 6 (60-69 years) and 17 (70+ years). 35 of the cases were hospitalised and one case died from invasive pneumococcal disease (aged 70+ years).
- *Leptospirosis*: 17 cases of leptospirosis were notified in December 2008 compared to seven during the same month of the previous year (Figure 1). The cases were from Waikato (6), Taranaki (3), Hawke's Bay (3), Bay of Plenty, MidCentral, Nelson Marlborough, Canterbury and Otago DHBs (1 case each). The serovar was recorded for seven of the cases: *Leptospira* Hardjo (2), *L. Pomona* (2), *L. Tarassovi* (2) and *L. Ballum* (1). Ten of the cases had risk factor information associated with exposure to farm animals. Risk factor information was not recorded for the remaining seven cases.

- *Meningococcal disease:* Based on the earliest date available¹, 8 cases of meningococcal disease were notified during December 2008, 6 (75.0%) of which were laboratory-confirmed. In comparison, 15 were notified during the previous month, November 2008, and 10 cases were notified during the same month last year, December 2007. For the 12 month period ending 31 December 2008, Wanganui DHB recorded the highest incidence rate of 7.9 per 100 000 population (5 cases), followed by Hawke's Bay DHB (7.8 per 100 000 population, 12 cases). The highest age-specific incidence rate was in infants aged less than one year (32.4 per 100 000 population, 20 cases), followed by those in the 1-4 years age group (14.3 per 100 000 population, 33 cases), and those in the 5-9 years age group (4.5 per 100 000 population, 13 cases).
- *Pertussis:* 66 cases of pertussis were notified in December 2008 bringing the year to date total to 437. There were 20 (30.3%) laboratory-confirmed cases. The highest numbers of cases were reported from Canterbury (19) and Waikato (13) DHBs. For the previous 12 months, Nelson Marlborough DHB had the highest incidence rate of 26.8 per 100 000 population (5 cases) followed by Waikato DHB with 24.1 per 100 000 population (13 cases). This compares to a national rate of 10.3 per 100 000 population. The current 12 month rate by age group was highest amongst infants aged less than one year (71.2 per 100 000 population, 44 cases), followed by children in the 10-14 years age group (13.4 per 100 000 population, 41 cases) and adults in the 50-59 years age group (12.7 per 100 000 population, 65 cases).
- *Salmonellosis:* 132 cases of salmonellosis were notified in December 2008 compared to 117 notified cases in the same month of the previous year (Figure 2). The highest numbers of cases were reported from Canterbury (20), Otago (16), Auckland (11), Counties Manukau (10) and Capital and Coast (10) DHBs. 19 cases were hospitalised. The serotype involved was identified for 58 of the cases. The dominant serotypes were: *Salmonella* Typhimurium phage type 42 (24), *S. Typhimurium* phage type 160 (10), *S. Typhimurium* phage type RDNC-May 06 (3), and *S. Infantis*, *S. Saintpaul*, *S. Typhimurium* phage type 135 and *S. Typhimurium* phage type 156 (each with two cases). 22 of the reported cases are part of the *Salmonella* Typhimurium phage type 42 outbreak reported in November and one further case is part of the *Salmonella* outbreak reported by Auckland in December (one confirmed case, three probable cases).
- *Shigellosis:* 11 cases of shigellosis were notified in December 2008 compared to 5 notified cases in the same month of the previous year. The cases were reported from Auckland (2), Nelson Marlborough (2), Northland, Waikato, Bay of Plenty, Capital and Coast, West Coast, Canterbury and Southland DHBs (1 case each). The serotype involved was identified for nine of the cases; *Shigella sonnei* biotype g (5), *S. sonnei* biotype a (2), *S. sonnei* biotype unknown (1) and *S. flexneri* 3a (1). Two of the cases had been overseas during the incubation period, the countries visited were India (1), Nepal (1) and Tonga (1).

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: 13 outbreak reports were entered into EpiSurv and completed during December 2008 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during December 2008

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
Gastroenteritis	Auckland, Waikato	3	6
<i>Giardia lamblia</i>	Auckland	3	10
Norovirus	Auckland, Tauranga, Manawatu	4	40
Rotavirus	Auckland	2	14
<i>Salmonella</i>	Auckland	1	4
Total		13	74

Interim outbreak reports: 20 interim outbreaks have been reported in December 2008 (Table 2). The status of the outbreak and cases involved are subject to change, as more data becomes available.

Table 2: Summary of interim outbreaks reported to ESR during December 2008

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
Campylobacteriosis	Auckland	1	2
Gastroenteritis	Auckland, Rotorua, Taranaki, Wellington, Canterbury	16	94
<i>Giardia</i>	Otago	1	3
<i>Mycobacterium tuberculosis</i>	Auckland	1	4
Rotavirus	Auckland	1	2
Total		20	105

3. Deaths from notifiable diseases

One death was reported for the month of December from invasive pneumococcal disease (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during December 2008

Disease	District Health Board	Age group
Invasive pneumococcal disease	Taranaki	70+

4. Trends in selected diseases to December 2008

Figure 1: Leptospirosis notifications by month by year, January 2004 – December 2008

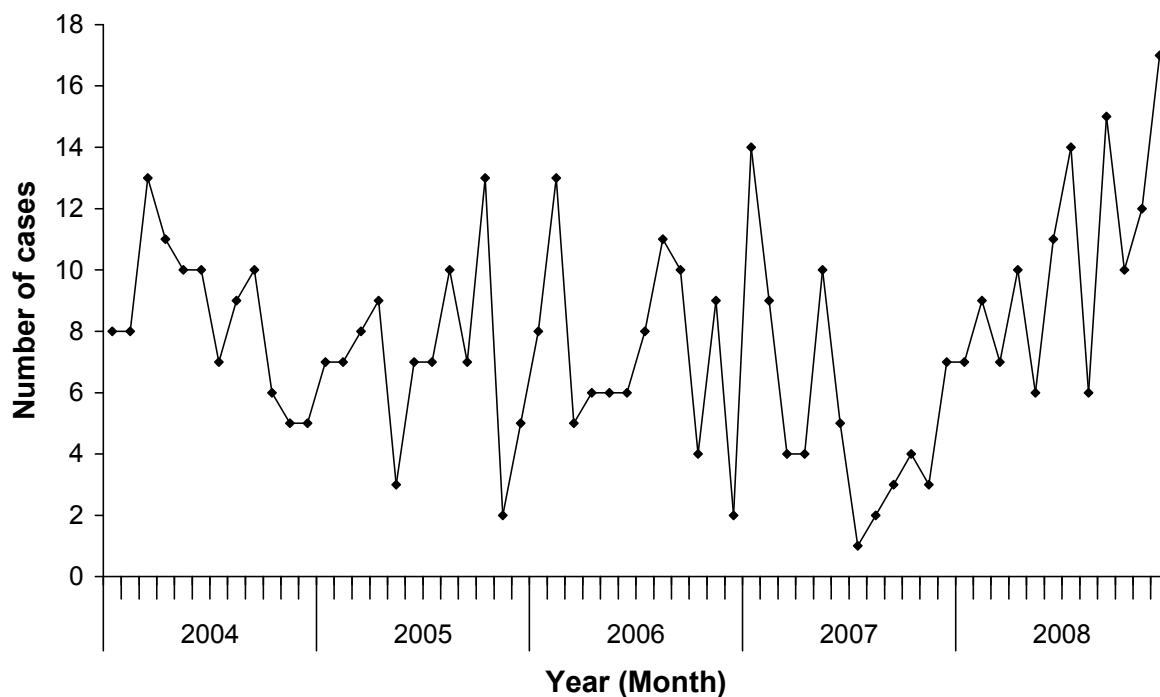
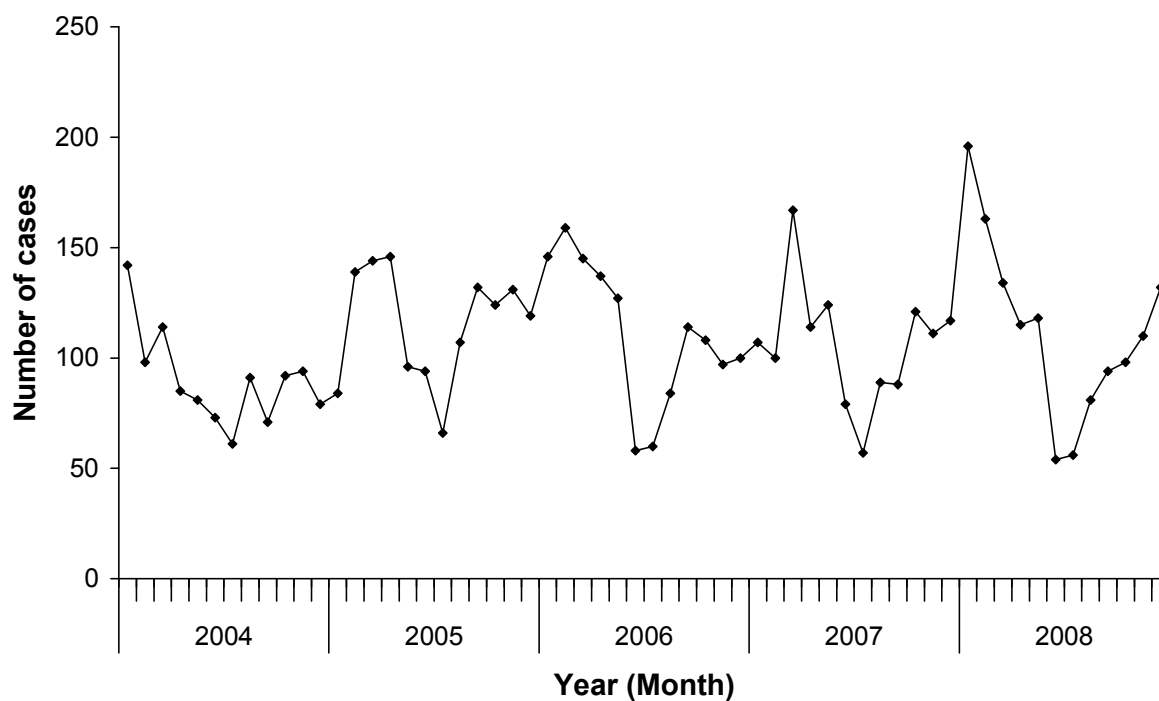


Figure 2: Salmonellosis notifications by month by year, January 2004 – December 2008



5. Data Tables

National Notifiable Disease Surveillance Data December 2008

Disease	Current Year - 2008 ¹			Previous Year - 2007		
	December 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	December 2007 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	926	6689	158.2	896	12778	302.2
Cryptosporidiosis	36	766	18.1	28	924	21.9
Dengue fever	9	115	2.7	5	114	2.7
Gastroenteritis	81	690	16.3	39	622	14.7
Giardiasis	149	1663	39.3	96	1402	33.2
Haemophilus influenzae type b	0	9	0.2	0	15	0.4
Hazardous substances injury	0	6	0.1	0	3	0.1
Hepatitis A	7	91	2.2	2	42	1.0
Hepatitis B ⁴	4	42	1.0	7	73	1.7
Hepatitis C ⁴	2	25	0.6	2	32	0.8
Invasive pneumococcal disease ⁵	48	125	3.0	0	0	0.0
Lead absorption	42	315	7.4	12	78	1.8
Legionellosis	16	85	2.0	5	64	1.5
Leptospirosis	17	124	2.9	7	66	1.6
Listeriosis	3	27	0.6	2	26	0.6
Malaria	3	40	0.9	1	25	0.6
Measles	1	15	0.4	7	24	0.6
Meningococcal disease ⁶	8	123	2.9	10	104	2.5
Mumps	5	78	1.8	11	73	1.7
Paratyphoid fever	2	25	0.6	2	23	0.5
Pertussis	66	437	10.3	17	332	7.9
Rheumatic fever	7	244	5.8	5	140	3.3
Rickettsial disease	1	11	0.3	0	2	0.0
Rubella	1	9	0.2	2	11	0.3
Salmonellosis	132	1351	32.0	117	1274	30.1
Shigellosis	11	113	2.7	5	129	3.1
Tuberculosis disease	19	304	7.2	19	285	6.7
Typhoid fever	3	30	0.7	2	48	1.1
VTEC/STEC infection	9	126	3.0	6	100	2.4
Yersiniosis	47	548	13.0	44	527	12.5

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including December 2008) or the previous year (12 months up to and including December 2007), 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 Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁶ 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

Notifiable Disease Surveillance Data for the 12 months ending December-2008 by District Health Board

Disease	Cases for the 12 months ending December 2008 ^{1 2} by District Health Board ³																					
	Total	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	6689	248	881	699	625	574	154	257	41	199	305	89	196	298	578	50	198	54	661	146	274	162
Cryptosporidiosis	766	40	18	16	17	113	17	31	5	29	28	12	33	18	26	18	31	19	136	59	43	57
Dengue fever	115	1	20	31	30	2	3	4	0	0	3	0	2	1	4	0	1	0	13	0	0	0
Gastroenteritis	690	4	129	107	59	31	5	24	3	3	7	21	41	31	64	3	7	10	123	6	12	0
Giardiasis	1663	42	189	262	174	112	44	59	11	12	64	15	27	42	219	13	53	21	190	17	61	36
Haemophilus influenzae type b	9	0	1	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	2	0	0	0
Hazardous substances injury	6	0	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	91	5	7	12	15	4	1	1	0	2	1	9	20	1	4	2	1	0	4	0	1	1
Hepatitis B	42	0	8	10	1	2	2	1	1	2	0	1	1	1	2	1	1	0	7	0	0	1
Hepatitis C	25	0	1	2	4	1	4	2	0	3	0	0	0	1	2	1	0	0	4	0	0	0
Ischaemic heart disease	125	0	13	15	21	15	4	8	1	7	4	0	2	3	3	2	0	0	16	1	6	4
Lead absorption	315	4	56	104	35	19	6	3	1	3	6	9	11	4	10	4	1	0	26	2	6	5
Legionellosis	85	0	7	13	12	6	1	9	0	2	6	1	1	4	2	0	2	1	12	3	2	1
Leptospirosis	124	8	3	0	3	19	5	7	17	6	9	9	3	0	0	1	4	5	16	0	7	2
Listeriosis	27	1	2	3	6	4	0	2	0	0	0	1	1	0	1	1	0	0	3	0	2	0
Malaria	40	2	5	13	8	0	0	3	0	1	0	0	0	1	1	0	0	0	3	0	2	1
Measles	15	0	1	2	0	0	0	2	0	0	2	0	0	0	0	0	0	1	7	0	0	0
Non-infectious diseases	123	9	7	10	15	11	0	3	1	4	12	5	3	4	8	2	6	1	9	2	6	5
Mumps	78	4	7	8	12	9	3	4	0	0	5	1	1	3	6	0	1	0	13	0	1	0
Paratyphoid fever	25	0	5	3	5	3	0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	3
Pertussis	437	9	22	9	29	85	5	14	2	2	8	2	14	7	50	5	36	5	89	9	13	22
Rheumatic fever	244	12	12	10	24	32	45	67	4	1	11	1	6	3	14	1	0	0	1	0	0	0
Rickettsial disease	11	0	2	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	9	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	2	0	1	0
Salmonellosis	1351	44	110	98	94	126	26	76	7	39	38	14	42	51	90	23	67	10	186	38	129	43
Shigellosis	113	2	18	24	21	5	0	6	0	1	2	0	0	4	10	0	7	1	6	1	3	2
Tuberculosis disease	304	8	50	54	57	20	4	9	2	3	6	3	7	17	24	0	5	0	28	4	1	2
Typhoid fever	30	0	2	7	14	1	0	0	0	0	1	1	0	2	1	0	0	0	1	0	0	0
VTEC/STEC infection	126	10	14	14	12	18	4	3	0	6	1	1	1	1	6	1	3	1	22	3	4	1
Yersiniosis	548	14	44	48	36	35	14	18	3	14	32	5	8	25	67	1	16	17	116	14	10	11
Total	14239	467	1637	1581	1334	1255	347	618	101	339	555	200	420	522	1196	129	440	146	1703	305	585	359

Notifiable Disease Surveillance Data for the 12 months ending December-2008 by District Health Board

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² Further data are available from the local Medical Officer of Health

³ These totals are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section

-bJ Uglj`Y`dbYi`a`cVcWwU`X]gYUgY`VYVUa`Y`U`bch]ZUV`Y`X]gYUgY`cb`h`Y`%+h`C`VcVYF`&\$\$,
 `h`YgY`hchU`g`UbX`fUHyg`UFY`XYfj]YX`Zfca`h`Y`9d]G]f`fYdcfhXUHy`Ug`cddcgYX`hc`h`Y`Yuf`Y]ghUj`Uj`UV`Y`XUHy`i`gYX`]b`h`Y`a`Yb]b[`cVcWwU`X]gYUgY`gYVUcb`c`Z`h`g`fYdcfh

National Notifiable Disease Surveillance Data December 2008

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<YdUh]g'6	4	42	1.0	7	73	1.7
<YdUh]g'7	2	25	0.6	2	32	0.8
⋆bj Ug]j Y'dbYi a cVŁVWU' X]gYUgY	48	125	3.0	0	0	0.0
Lead absorption	42	315	7.4	12	78	1.8
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A Yb]b[cVŁVWU' X]gYUgY	8	123	2.9	10	104	2.5
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‘C b`mUW` hY`WUgYg`cZ`h`Jg`X]gYUgY`UFY`W` ffYbhmbch]Z]UV`Y`
`⋆bj Ug]j Y`dbYi a cVŁVWU' X]gYUgY`VYVWla`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`VŁc`VYf`&\$\$,
`h`Y`Yg`h`c`HJ`g`UbX`f`UH`g`UFY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Ug`cddcgYX`h`c`h`Y`YUf`Y]ghUj`Uj`UV`Y`XUH`i`gYX`j`b`h`Y`
a`Yb]b[`cVŁVWU' X]gYUgY`gYVW]cb`cZ`h`Jg`fYdcfh`