

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 9 December 2011. Data were extracted from EpiSurv at 10 am, 13 December 2011.

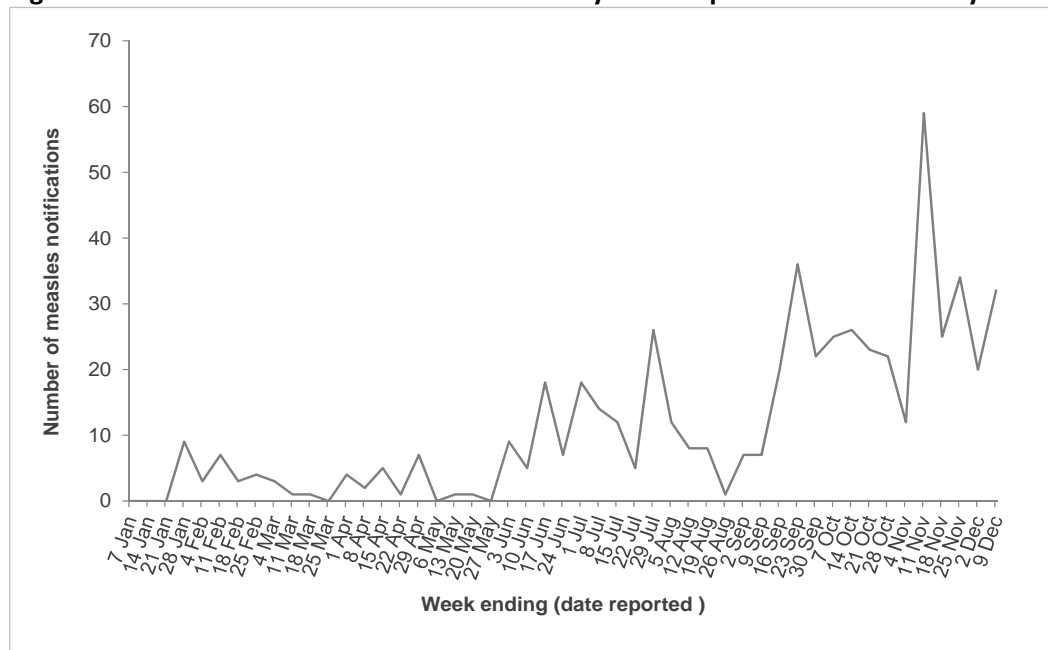
In the last week, 32 new measles cases (25 cases the previous week) were notified from the following DHBs: Counties Manukau (9 cases), Waitemata, Auckland (7 cases each), Lakes (3 cases), Bay of Plenty, Canterbury (2 cases each), Tairāwhiti, Capital and Coast (1 case each). Of these notifications, 22 were confirmed, four are probable and six are still under investigation. There have been 565 measles cases notified in EpiSurv since January 2011 (compared to 47 cases in 2010 and 245 in 2009 for the same period). Of the total notifications, 520 were confirmed cases, 33 are probable cases and 12 cases are still under investigation. Cases were reported mainly from the Auckland region (76.5% of total cases), Waikato (4.8%) and Hawke’s Bay (4.6%).

This report incorporates the temporal distribution of cases, since January 2011, and the distribution of cases by age, ethnicity (prioritised), and district health board (DHB), as well as a summary of confirmed cases by immunisation status. The case classification used in this report is specified in the appendix.

Temporal distribution

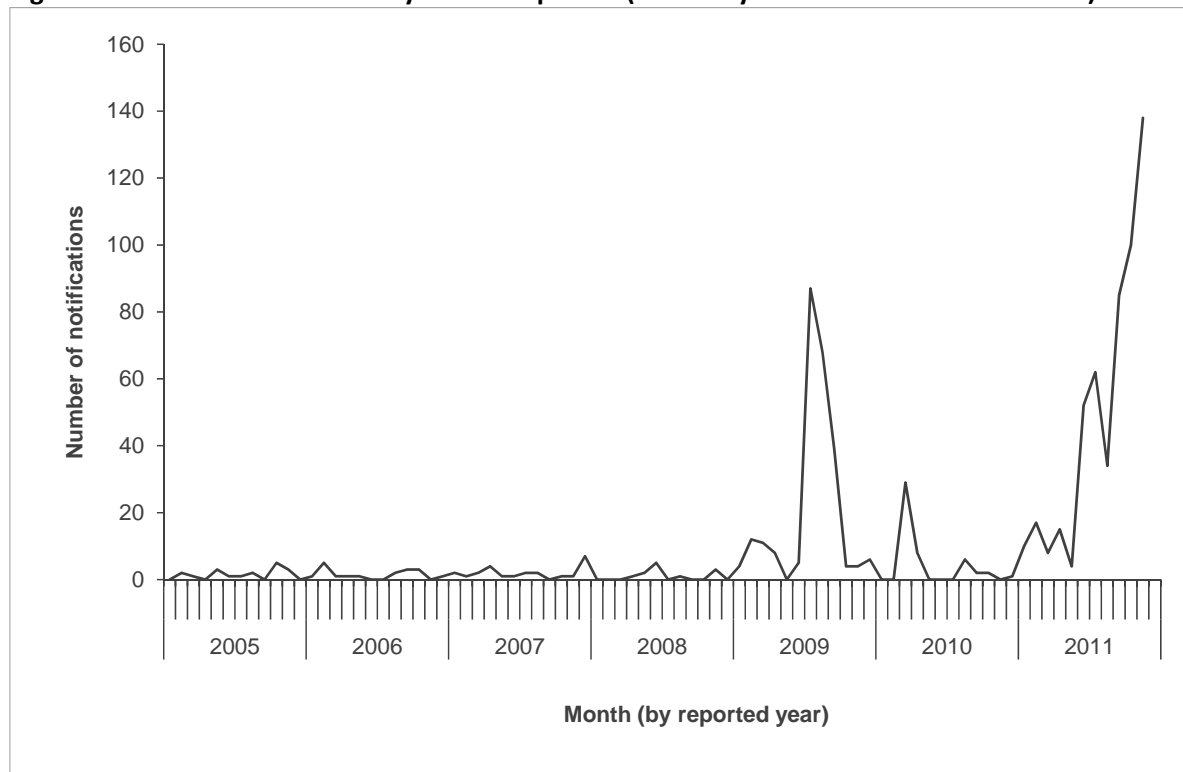
Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 32 cases notified in the last week (25 the previous week)¹. Notifications have increased in the week ending 9 December 2011. Of the 565 notifications since the beginning of 2011, 93 have been hospitalised. No deaths have been reported.

Figure 1 : Distribution of measles notifications by week reported from 1 January 2011



¹ The total number of notifications may change as cases are investigated further and some are reclassified ‘not a case’. The previous week’s count is as reported in the last weekly report not the current count.

Figure 2: Measles notifications by month reported (1 January 2005 to 30 November 2011)



The onset dates were recorded for 11 (34.3%) of the 32 measles cases notified in the last week, these ranged from 25 November to 8 December 2011. Although reporting of onset dates is not always complete, 500 (88.5%) of 565 notifications since 1 January 2011 have onset dates available. The earliest and the most recent onset dates since January 2011 were 6 January and 8 December, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 520 confirmed cases with a known age (reported since 1 January 2011), 212 (40.1%) were aged under 10 years, 164 (31.5%) were aged 20 years or older and 144 (27.7%) were aged 10 to 19 years. Sixty-four (12.3%) were aged under 15 months.

Of the 520 confirmed cases, 215 (41.3%) were aged 12 months to 12 years and 122 (23.5%) were aged 13 years to 20 years.

Table 1: Age distribution of measles cases and hospitalisations, 2011

Age Group	3 December-9 December 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15 mths	8	5	1	2	2	82	64	12	6	18
15 mths-3yrs	5	3	1	1	1	70	59	10	1	5
4-9 yrs	6	4	0	2	0	93	89	1	3	5
10-19 yrs	9	8	1	0	2	149	144	5	0	16
20+ yrs	4	2	1	1	0	171	164	5	2	49
Unknown	0	0	0	0	0	0	0	0	0	0
Total	32	22	4	6	5	565	520	33	12	93
<i>12 mths-12 yrs</i>	<i>19</i>	<i>14</i>	<i>2</i>	<i>3</i>	<i>0</i>	<i>236</i>	<i>215</i>	<i>15</i>	<i>6</i>	<i>18</i>
<i>13 yrs-20 yrs</i>	<i>3</i>	<i>2</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>122</i>	<i>118</i>	<i>4</i>	<i>0</i>	<i>17</i>

¹ Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

Conf: confirmed, **Prob:** probable, **Hosp:** hospitalised

Of the 520 confirmed cases reported since 1 January 2011, 509 had a known ethnicity. Of these, 337 (66.2%) were European, 91 (17.9%) were Māori, 46 (9.0%) were Pacific Peoples, and 35 (6.9%) were in the "Other" ethnic groups (Table 2). Ethnicity was recorded for 21 of the 22 confirmed cases reported in the last week, these were distributed as follows: European (9 cases), Pacific Peoples (7 cases), Māori (4 cases) and Other (1 case). Hospitalisations by ethnicity are also depicted in Table 2.

Table 2 : Ethnic (prioritised) distribution of measles cases and hospitalisations, 2011

Ethnicity (prioritised)	3 December-9 December 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Māori	7	4	2	1	1	98	91	6	1	14
Pacific Peoples	7	7	0	0	2	52	46	5	1	12
Other	2	1	1	0	0	39	35	4	0	8
European	14	9	1	4	1	362	337	17	8	57
Unknown	2	1	0	1	1	14	11	1	2	2
Total	32	22	4	6	5	565	520	33	12	93

¹ Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

Geographic distribution

Of the 565 cases reported since 1 January, 520 were confirmed including 194 (37.3%) from Auckland, 163 (31.3%) from Waitemata, 48 (9.2%) from Counties Manukau, 27 (5.2%) from Waikato, 24 (4.6%) from Hawke's Bay, 18 (3.5%) from Southern, 12 (2.3%) each from Capital and Coast and Canterbury, seven (1.3%) from Bay of Plenty, four (0.8%) from Lakes, three (0.6%) each from Northland and Tairāwhiti, two (0.4) from Taranaki, and one (0.2%) each from MidCentral, Hutt Valley and South Canterbury DHBs. (See Appendix for Table 5. This shows the geographical distribution of measles cases and hospitalisations for 2011).

The 22 confirmed cases in the last week were reported from Counties Manukau (9 cases), Auckland (7 cases), Waitemata (3 cases), Canterbury (2 cases), and Tairāwhiti (1 case) DHBs.

Immunisation status

Table 3 shows the immunisation status of the confirmed cases reported in the last week, as recorded in EpiSurv. This was known for 20 (90.9%) of the 22 confirmed measles cases reported. Of these, 18 were not vaccinated including five cases aged less than 15 months and therefore not eligible for vaccination. Two cases had received one dose of vaccine.

Table 3: Immunisation status of measles cases (confirmed) notified last week

Age Group	Total cases	One dose	Two doses	Vaccinated		Unknown
				(no dose info)	Not vaccinated	
<15mths	5	0	0	0	5	0
15mths-3yrs	3	1	0	0	2	0
4-9 yrs	4	0	0	0	3	1
10-19 yrs	8	1	0	0	6	1
20+ yrs	2	0	0	0	2	0
Unknown	0	0	0	0	0	0
Total	22	2	0	0	18	2

Of the 520 confirmed cases reported since January 2011, 409 (78.7%) had a known vaccination status. Of these 409 cases, 317 were not vaccinated including 55 cases aged less than 15 months and therefore not eligible for vaccination. Sixty-eight cases had received one dose of vaccine and a further 21 cases had completed their second dose. Three cases were vaccinated but had no dose information recorded (Table 4).

Note: Of the 64 confirmed cases aged less than 15 months, seven had completed their first dose of vaccine. Fourteen of the 520 confirmed cases were aged 42 years or older (adults born prior to 1969 are assumed to have been exposed to measles and are considered immune [1], however, one of the 14 cases had received one dose of vaccine).

Table 4: Immunisation status of measles cases (confirmed) notified since 1 January 2011

Age Group	Total cases	One dose	Two doses	Vaccinated (no dose info)	Not vaccinated	Unknown
<15mths	64	7	0	0	55	2
15mths-3yrs	59	19	0	0	38	2
4-9 yrs	89	11	3	0	71	4
10-19 yrs	144	11	9	1	106	17
20+ yrs	164	20	9	2	47	86
Unknown	0	0	0	0	0	0
Total	520	68	21	3	317	111

Appendix

Table 5: Geographical distribution of measles cases and hospitalisations, 2011

DHB	3 December-9 December 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Northland	0	0	0	0	0	4	3	1	0	1
Waitemata	7	3	2	2	0	175	163	10	2	16
Auckland	7	7	0	0	2	205	194	11	0	51
Counties Manukau	9	9	0	0	3	52	48	4	0	10
Waikato	0	0	0	0	0	27	27	0	0	2
Lakes	3	0	2	1	0	7	4	2	1	3
Bay of Plenty	2	0	0	2	0	9	7	0	2	4
Tairāwhiti	1	1	0	0	0	3	3	0	0	1
Taranaki	0	0	0	0	0	2	2	0	0	0
Hawke's Bay	0	0	0	0	0	26	24	0	2	3
Whanganui	0	0	0	0	0	0	0	0	0	0
MidCentral	0	0	0	0	0	1	1	0	0	1
Hutt Valley	0	0	0	0	0	2	1	1	0	0
Capital and Coast	1	0	0	1	0	13	12	0	1	0
Wairarapa	0	0	0	0	0	0	0	0	0	0
Nelson Marlborough	0	0	0	0	0	0	0	0	0	0
West Coast	0	0	0	0	0	0	0	0	0	0
Canterbury	2	2	0	0	0	17	12	4	1	0
South Canterbury	0	0	0	0	0	4	1	0	3	1
Southern	0	0	0	0	0	18	18	0	0	0
New Zealand Total	32	22	4	6	5	565	520	33	12	93

¹ Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

Case classification:

Confirmed	A clinically compatible illness that is epidemiologically linked to a confirmed case or is laboratory confirmed
Probable	A clinically compatible illness with all of the following symptoms: <ul style="list-style-type: none"> • a fever $\geq 38^{\circ}\text{C}$ • a generalised maculopapular rash lasting three or more days • cough, or coryza, or conjunctivitis, or Koplik spots
Other	Status recorded as <i>under investigation</i> or cases where there was insufficient information to define the status

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