

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 6 January 2012. Data were extracted from EpiSurv at 10 am, 10 January 2012.

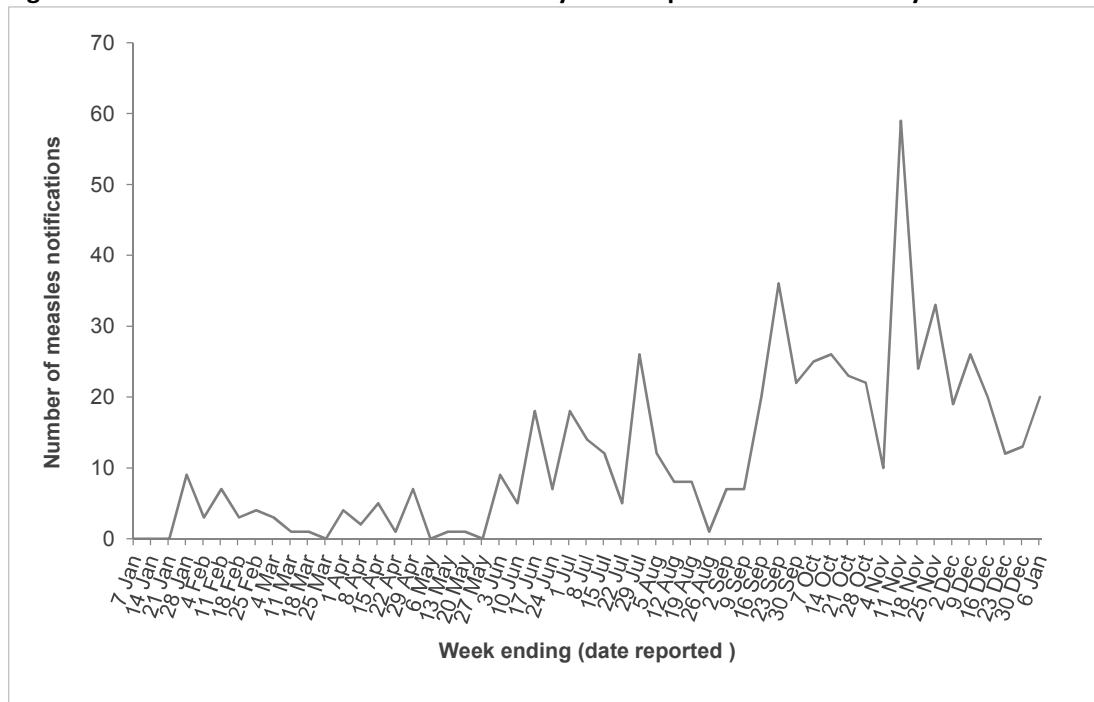
In the last week, 18 new measles cases (13 cases the previous week) were notified from the following DHBs: Counties Manukau (6 cases), Waitemata (4 cases), Auckland and Lakes (2 cases each), Bay of Plenty, Capital and Coast, West Coast and Canterbury (1 case each). Of these notifications, 10 were confirmed, three are probable and five are still under investigation. There have been 601 measles cases notified in EpiSurv during 2011 (compared to 48 cases in 2010 and 248 in 2009). Of the total notifications, 556 were confirmed cases, 40 are probable cases and five cases are still under investigation. Cases were reported mainly from the Auckland region (77.9% of total cases), Waikato (5.2%) and Hawke’s Bay (4.5%).

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

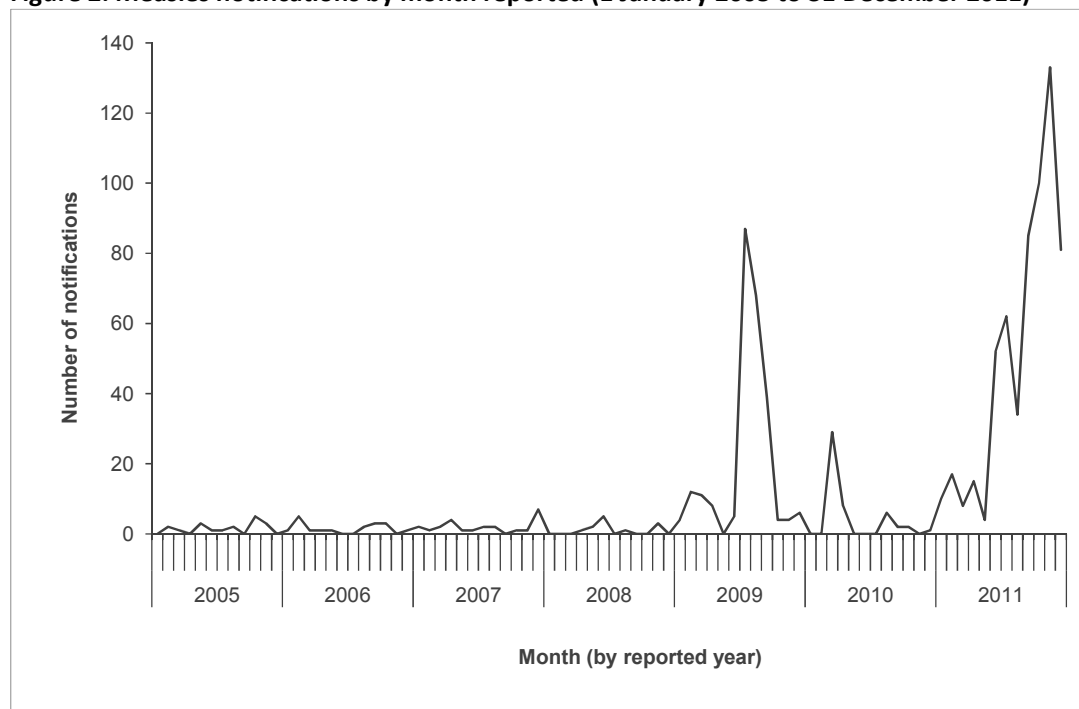
Weekly and historical measles notifications for 2011-2012 are shown in Figure 1 and 2, respectively. There have been 18 cases notified in the last week (13 the previous week)¹. Notifications have increased in the week ending 6 January 2012. Of the 18 notifications reported since 31 December 2011, three 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’.

Figure 2: Measles notifications by month reported (1 January 2005 to 31 December 2011)



The onset dates were recorded for 13 (72.2%) of the 18 measles cases notified in the last week, these ranged from 24 December 2011 to 4 January 2012. Although reporting of onset dates is not always complete, 538 (89.5%) of 601 notifications reported in 2011 have onset dates available.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 556 confirmed cases with a known age (reported in 2011), 232 (41.7%) were aged under 10 years, 170 (30.6%) were aged 20 years or older and 154 (27.7%) were aged 10 to 19 years. Seventy-three (13.1%) were aged under 15 months.

Of the 556 confirmed cases, 235 (42.3%) were aged 12 months to 12 years and 124 (22.3%) were aged 13 years to 20 years.

Table 1: Age distribution of measles cases and hospitalisations, 2011-2012

Age Group	31 Dec 2011-6 Jan 2012					Cumulative total 1 Jan-31 Dec 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
<15 mths	6	2	0	4	0	91	73	16	2	19
15 mths-3yrs	3	3	0	0	0	77	65	11	1	5
4-9 yrs	1	1	0	0	0	96	94	1	1	5
10-19 yrs	6	3	3	0	2	161	154	6	1	18
20+ yrs	2	1	0	1	1	176	170	6	0	53
Unknown	0	0	0	0	0	0	0	0	0	0
Total	18	10	3	5	3	601	556	40	5	100
<i>12 mths-12 yrs</i>	<i>6</i>	<i>5</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>256</i>	<i>235</i>	<i>18</i>	<i>3</i>	<i>19</i>
<i>13 yrs-20 yrs</i>	<i>5</i>	<i>3</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>127</i>	<i>124</i>	<i>3</i>	<i>0</i>	<i>18</i>

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

Of the 556 confirmed cases reported in 2011, 543 had a known ethnicity. Of these, 351 (64.6%) were European, 105 (19.3%) were Māori, 51 (9.4%) were Pacific Peoples, and 36 (6.6%) were in the

“Other” ethnic groups (Table 2). Ethnicity was recorded for eight of the 10 confirmed cases reported in the last week, these were distributed as follows: Pacific Peoples (4 cases), Māori (2 cases), European (1 case), and “Other” ethnic groups (1 case). Hospitalisations by ethnicity are also depicted in Table 2.

Table 2 : Ethnic (prioritised) distribution of measles cases and hospitalisations, 2011-2012

Ethnicity (prioritised)	31 Dec 2011-6 Jan 2012					Cumulative total 1 Jan-31 Dec 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
Māori	4	2	1	1	1	114	105	8	1	17
Pacific Peoples	5	4	0	1	1	59	51	6	2	12
Other	1	1	0	0	0	40	36	4	0	9
European	6	1	2	3	1	373	351	20	2	59
Unknown	2	2	0	0	0	15	13	2	0	3
Total	18	10	3	5	3	601	556	40	5	100

Geographic distribution

Of the 601 cases reported in 2011, 556 were confirmed including 199 (35.8%) from Auckland, 167 (30.0%) from Waitemata, 66 (11.9%) from Counties Manukau, 30 (5.4%) from Waikato, 27 (4.9%) from Hawke’s Bay, 18 (3.2%) from Southern, 12 (2.2%) each from Capital and Coast and Canterbury, seven (1.3%) from Bay of Plenty, five (0.9%) from Lakes, three (0.5%) each from Northland and Tairāwhiti, two (0.4%) from Taranaki and Hutt Valley, and one (0.2%) each from MidCentral, Nelson Marlborough and South Canterbury DHBs. (Table 3).

The 10 confirmed cases in the last week were reported from Counties Manukau (5 cases), Waitemata (3 cases), Auckland and Capital and Coast (1 case each) DHBs.

Table 3: Geographical distribution of measles cases and hospitalisations, 2011-2012

DHB	31 Dec 2011-6 Jan 2012					Cumulative total 1 Jan-31 Dec 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
Northland	0	0	0	0	0	4	3	1	0	1
Waitemata	4	3	0	1	0	179	167	12	0	16
Auckland	2	1	1	0	1	211	199	12	0	53
Counties Manukau	6	5	1	0	0	78	66	10	2	14
Waikato	0	0	0	0	0	31	30	0	1	2
Lakes	2	0	0	2	0	6	5	0	1	4
Bay of Plenty	1	0	0	1	1	7	7	0	0	4
Tairāwhiti	0	0	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	27	27	0	0	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	2	0	0	0
Capital and Coast	1	1	0	0	1	12	12	0	0	0
Wairarapa	0	0	0	0	0	0	0	0	0	0
Nelson Marlborough	0	0	0	0	0	1	1	0	0	0
West Coast	1	0	0	1	0	0	0	0	0	0
Canterbury	1	0	1	0	0	18	12	5	1	0
South Canterbury	0	0	0	0	0	1	1	0	0	1
Southern	0	0	0	0	0	18	18	0	0	0
New Zealand Total	18	10	3	5	3	601	556	40	5	100

Immunisation status

Table 4 shows the immunisation status of the confirmed cases reported in the last week, as recorded in EpiSurv. This was known for eight (80.0%) of the 10 confirmed measles cases reported. Of these, four were not vaccinated including two cases aged less than 15 months and therefore not eligible for vaccination. Two cases had received one dose of vaccine and a further two cases had received their second dose.

Table 4: Immunisation status of measles cases (confirmed) notified last week

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

Of the 556 confirmed cases reported in 2011, 438 (78.8%) had a known vaccination status. Of these 438 cases, 340 were not vaccinated including 64 cases aged less than 15 months and therefore not eligible for vaccination. Seventy-three cases had received one dose of vaccine and a further 21 cases had completed their second dose. Four cases were vaccinated but had no dose information recorded (Table 5).

Note: Of the 73 confirmed cases aged less than 15 months, seven had completed their first dose of vaccine. Sixteen of the 556 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 16 cases had received one dose of vaccine).

Table 5: Immunisation status of measles cases (confirmed) notified 1 Jan to 31 Dec 2011

Age Group	Total cases	One dose	Two doses	Vaccinated (no dose info)	Not vaccinated	Unknown
<15mths	73	7	0	0	64	2
15mths-3yrs	65	21	0	0	42	2
4-9 yrs	94	12	3	0	74	5
10-19 yrs	154	12	9	1	113	19
20+ yrs	170	21	9	3	47	90
Unknown	0	0	0	0	0	0
Total	556	73	21	4	340	118

Appendix

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

This report will be available online from www.surv.esr.cri.nz