

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 13 January 2012. Data were extracted from EpiSurv at 10 am, 17 January 2012.

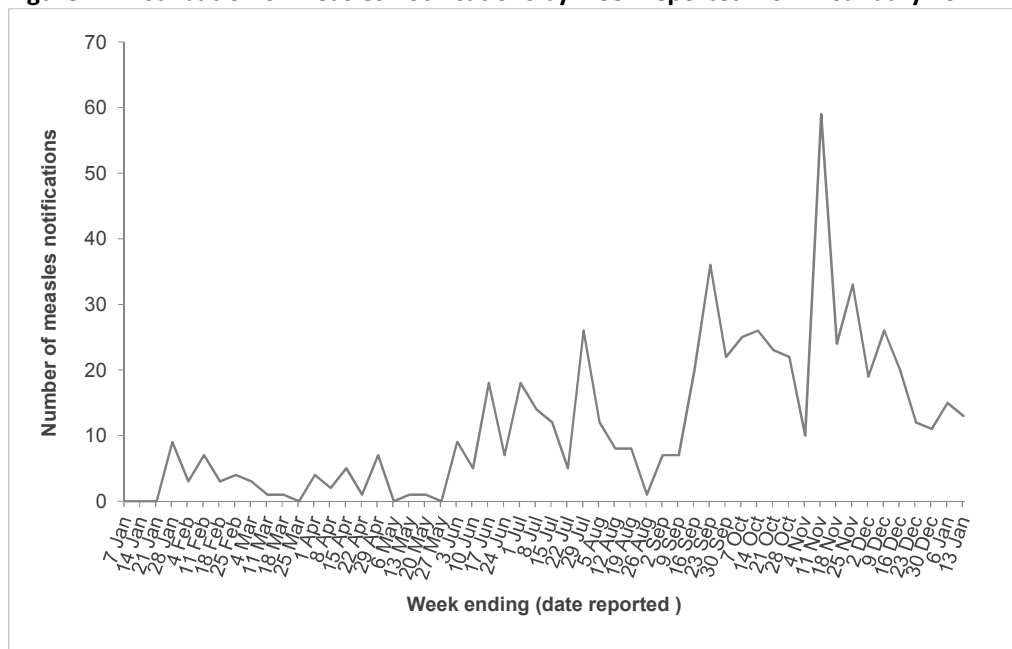
In the last week ending 13 January 2012, 13 new measles cases (18 cases the previous week) were notified from the following DHBs: Counties Manukau (6 cases), Waitemata (2 cases), Auckland, Lakes, Hawke’s Bay, Nelson Marlborough and West Coast (1 case each). Of these notifications, eight were confirmed, two are probable and three are still under investigation. There have been 28 measles cases notified in EpiSurv since 31 December 2011¹ (compared to no cases for the same period in 2011 and 2010). Of the total notifications reported in 2012, 18 were confirmed cases, six are probable cases and four cases are still under investigation. Cases were reported mainly from the Auckland region (71.4% of total cases), West Coast (7.1%) and Canterbury (4.5%).

This report incorporates the temporal distribution of cases, since 31 December 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 13 cases notified in the last week (18 the previous week)². Notifications had decreased in the week ending 13 January 2012. Of the 28 notifications reported since 31 December 2011, two have been hospitalised. No deaths have been reported.

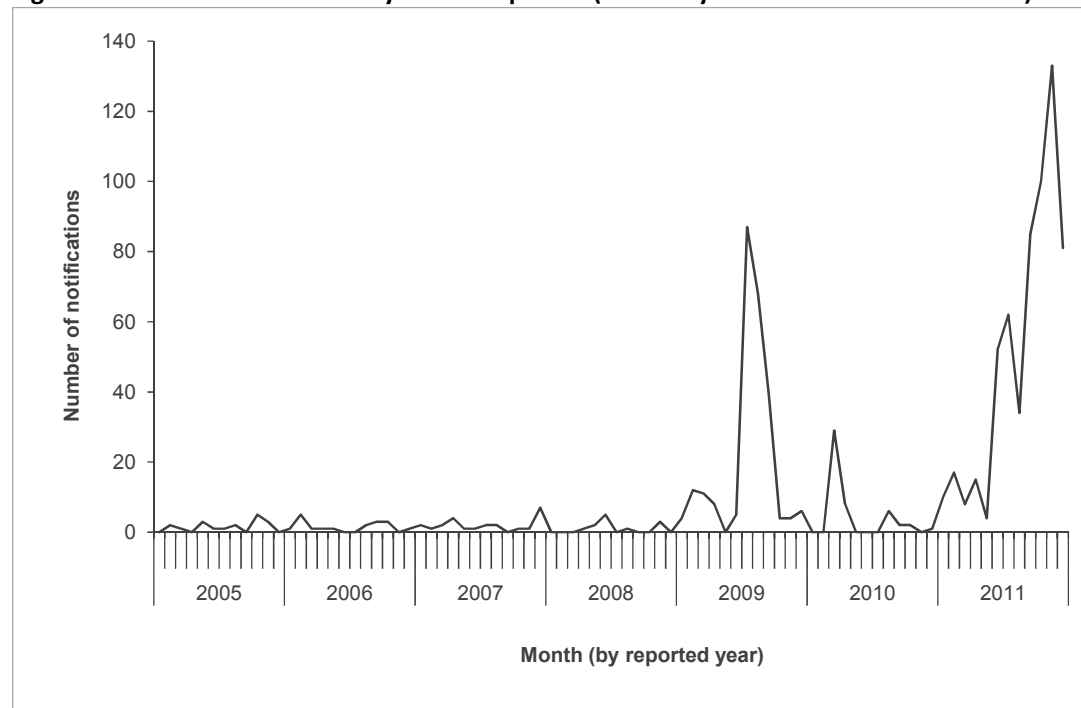
Figure 1 : Distribution of measles notifications by week reported from 1 January 2011



¹ Note: EpiSurv surveillance week 1/2012 started on 31 December 2011. Cases notified on this date have been included in the 2012 analysis.

² 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 nine (69.2%) of the 13 measles cases notified in the last week, these ranged from 1 to 11 January 2012. Although reporting of onset dates is not always complete, 19 (67.9%) of 28 notifications reported in 2012 have onset dates available.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 18 confirmed cases with a known age, 11 (61.6%) were aged under 10 years (including four cases who were aged under 15 months), four (22.2%) were aged 10 to 19 years and three (16.7%) were aged 20 years or older.

Of the 18 confirmed cases, nine (50.0%) were aged 12 months to 12 years and three (16.7%) were aged 13 years to 20 years.

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

Age Group	7-13 Jan 2012					Cumulative total since 31 Dec 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
<15 mths	4	2	1	1	0	8	4	2	2	0
15 mths-3yrs	2	1	0	1	0	5	4	0	1	0
4-9 yrs	3	2	1	0	0	4	3	1	0	0
10-19 yrs	1	1	0	0	0	7	4	3	0	2
20+ yrs	3	2	0	1	0	4	3	0	1	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	13	8	2	3	0	28	18	6	4	2
<i>12 mths-12 yrs</i>	<i>7</i>	<i>4</i>	<i>1</i>	<i>2</i>	<i>0</i>	<i>13</i>	<i>9</i>	<i>2</i>	<i>2</i>	<i>0</i>
<i>13 yrs-20 yrs</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>5</i>	<i>3</i>	<i>2</i>	<i>0</i>	<i>2</i>

Conf: confirmed, Prob: probable, Hosp: hospitalised

Of the 18 confirmed cases reported in 2012, 16 had a known ethnicity. Of these, seven (43.8%) were Pacific Peoples, five (31.3%) were Māori, three (18.8%) were European, and one (6.3%) was 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 (3 cases), European (2 cases), and Māori (1 case). Hospitalisations by ethnicity are also depicted in Table 2.

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

Ethnicity (prioritised)	7-13 Jan 2012					Cumulative total since 31 Dec 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
Māori	2	1	1	0	0	8	5	3	0	1
Pacific Peoples	3	3	0	0	0	7	7	0	0	1
Other	0	0	0	0	0	1	1	0	0	0
European	6	2	1	3	0	10	3	3	4	0
Unknown	2	2	0	0	0	2	2	0	0	0
Total	13	8	2	3	0	28	18	6	4	2

Geographic distribution

Of the 28 cases reported since 31 December 2011, 18 were confirmed including 11 (61.1%) from Counties Manukau, four (22.2%) from Waitemata, two (11.1%) from Auckland, and one (5.6%) from Capital and Coast DHBs. (Table 3). Counties Manukau DHB has reported the highest number of cases since 31 December 2011 representing a shift from last year (mid to late 2011) where Auckland followed by Waitemata DHBs reported the majority of cases.

The eight confirmed cases in the last week were reported from Counties Manukau (6 cases), Waitemata, and Auckland (1 case each) DHBs.

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

DHB	7-13 Jan 2012					Cumulative total since 31 Dec 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
Northland	0	0	0	0	0	0	0	0	0	0
Waitemata	2	1	1	0	0	5	4	1	0	0
Auckland	1	1	0	0	0	3	2	1	0	1
Counties Manukau	6	6	0	0	0	12	11	1	0	0
Waikato	0	0	0	0	0	0	0	0	0	0
Lakes	1	0	0	1	0	1	0	0	1	0
Bay of Plenty	0	0	0	0	0	0	0	0	0	0
Tairāwhiti	0	0	0	0	0	0	0	0	0	0
Taranaki	0	0	0	0	0	0	0	0	0	0
Hawke's Bay	1	0	1	0	0	1	0	1	0	0
Whanganui	0	0	0	0	0	0	0	0	0	0
MidCentral	0	0	0	0	0	0	0	0	0	0
Hutt Valley	0	0	0	0	0	0	0	0	0	0
Capital and Coast	0	0	0	0	0	1	1	0	0	1
Wairarapa	0	0	0	0	0	0	0	0	0	0
Nelson Marlborough	1	0	0	1	0	1	0	0	1	0
West Coast	1	0	0	1	0	2	0	0	2	0
Canterbury	0	0	0	0	0	2	0	2	0	0
South Canterbury	0	0	0	0	0	0	0	0	0	0
Southern	0	0	0	0	0	0	0	0	0	0
New Zealand Total	13	8	2	3	0	28	18	6	4	2

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 seven (87.5%) of the eight confirmed measles cases reported. Of these, six were not vaccinated including two cases aged less than 15 months and therefore not eligible for vaccination. One case had received one dose of vaccine.

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	1	0	0	0	1	0
4-9 yrs	2	0	0	0	2	0
10-19 yrs	1	1	0	0	0	0
20+ yrs	2	0	0	0	1	1
Unknown	0	0	0	0	0	0
Total	8	1	0	0	6	1

Of the 18 confirmed cases reported since 31 December 2011, 15 (83.3%) had a known vaccination status. Of these 15 cases, 10 were not vaccinated including four cases aged less than 15 months and therefore not eligible for vaccination. Three cases had received one dose of vaccine and a further two cases had completed their second dose. (Table 5).

Table 5: Immunisation status of measles cases (confirmed) notified since 31 December 2011

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

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