

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 22 July 2011. Data were extracted from EpiSurv at 10 am, 26 July 2011.

In the last week, seven new measles cases (12 cases previous week) were notified from the Auckland region (5 cases) and Waikato DHB (2 cases). Of these, five cases were confirmed and two are still under investigation. There have been 142 cases of measles reported in EpiSurv since January 2011 (compared to 37 cases reported the same time last year), including 136 confirmed cases, four probable cases and two cases are still under investigation. These were reported mainly from the Auckland region (74.6% of total cases) and Hawke’s Bay (16.9%). DHBs reporting cases include Waitemata (77 cases), Hawke’s Bay (24 cases), Auckland (16 cases), Counties Manukau (13 cases), Canterbury (7 cases), Northland, Capital and Coast, and Hutt Valley DHBs (one case each).

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 are shown in Figure 1 and 2, respectively. There have been seven measles cases notified in the last week and two are still under investigation. There have been weekly spikes in measles cases since the end of January 2011. However, the number of cases has increased substantially since the end of May. Based on historical trend (e.g. years 2008 and 2009) and the recent outbreaks in the Auckland Region and Hawke’s Bay DHB, we could expect more notifications during this time of the year. Of the 142 notifications since the beginning of 2011, 17 have been hospitalised. There have been no deaths.

Figure 1 : Weekly distribution of measles notifications by week reported

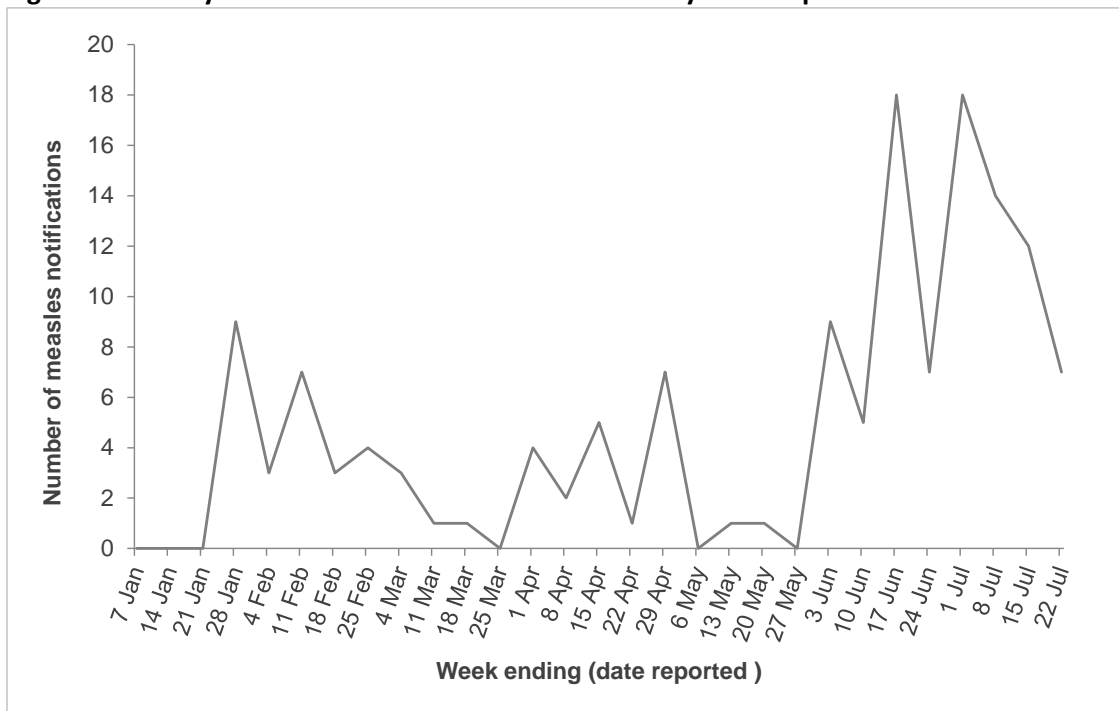
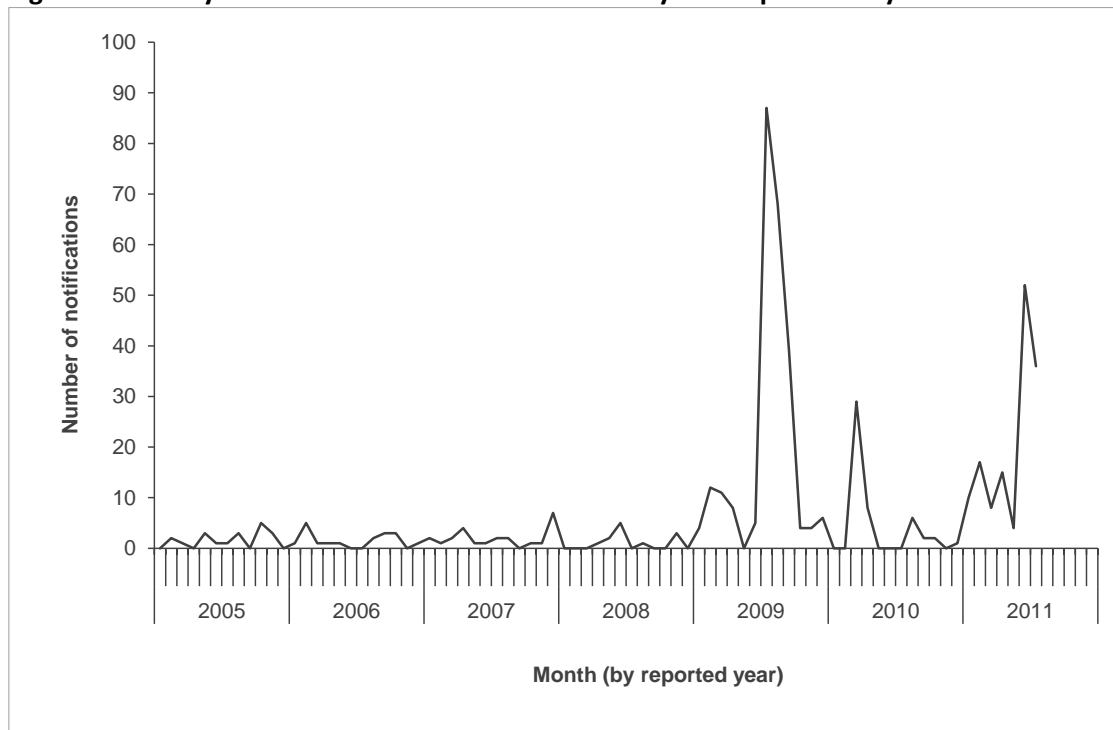


Figure 2 Monthly measles notifications since 1 January 2005 up to 15 July 2011



The onset dates were recorded for six measles cases notified in the last week, and earliest date was 11 July 2011. Although reporting of onset dates is not always complete, 126 notifications (of 142) since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 20 July, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 136 confirmed cases with a known age reported since 1 January 2011, 73 (53.7%) were aged under 10 years, 38 (27.9%) were aged 10 to 19 years, and 25 (18.4%) were aged 20 years or older. Of the 136 cases, 76 (55.9%) were aged 12 months to 12 years and 26 (21.3%) were aged 13 years to 20 years.

Table 1: Age distribution of measles cases and hospitalisations

Age Group	16 - 22 July 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	0	0	0	0	0	16	13	3	0	5
15mths-3yrs	3	1	0	2	0	22	19	1	2	1
4-9 yrs	0	0	0	0	0	41	41	0	0	2
10-19 yrs	4	4	0	0	0	38	38	0	0	3
20+ yrs	0	0	0	0	0	25	25	0	0	6
Unknown	0	0	0	0	0	0	0	0	0	0
Total	7	5	0	2	0	142	136	4	2	17
12mths - 12yrs	4	2	0	2	0	79	76	1	2	4
13yrs - 20yrs	3	3	0	0	0	29	29	0	0	3

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

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

Of the 133 confirmed cases with a known ethnicity reported since 1 January 2011, 89 (66.9%) were European, 35 (26.3%) were Maori, seven (5.3%) were Pacific Peoples, and two (1.5%) were in the "Other" ethnic groups (Table 2). Of the six cases reported in the last week, four were of European ethnicity, two Maori. Hospitalisations by ethnicity are also depicted in Table 2.

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

Ethnicity (prioritised)	16 - 22 July 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	2	0	0	2	0	38	35	1	2	6
Pacific Peoples	0	0	0	0	0	7	7	0	0	2
Other	0	0	0	0	0	2	2	0	0	1
European	4	4	0	0	0	91	89	2	0	8
Unknown	1	1	0	0	0	4	3	1	0	0
Total	7	5	0	2	0	142	136	4	2	17

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

Geographical distribution

Of the 136 confirmed cases reported since 1 January, 76 (55.9%) were reported from Waitemata, 24 (17.6%) from Hawke's Bay, 16 (11.8%) from Auckland, 13 (9.6%) from Counties Manukau, four (2.9%) from Canterbury, and one each (0.7%) from Northland, Capital and Coast, and Hutt Valley DHBs. The seven cases in the last week were reported from Waitemata, Auckland and Waikato DHBs.

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	16 - 22 July 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	1	1	0	0	0
Waitemata	4	4	0	0	0	77	76	1	0	9
Auckland	1	1	0	0	0	16	16	0	0	2
Counties Manukau	0	0	0	0	0	13	13	0	0	3
Waikato	2	0	0	2	0	2	0	0	2	0
Lakes	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	24	24	0	0	3
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	1	1	0	0	0
Capital and Coast	0	0	0	0	0	1	1	0	0	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	0	0	0	0	0	7	4	3	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	7	5	0	2	0	142	136	4	2	17

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

Immunisation status

Immunisation status of the confirmed cases is shown in Table 4. Of the 136 confirmed cases reported since January 2011, 124 (91.2%) had a known vaccination status. Of these 124 cases, 110 were not vaccinated including 12 cases aged less than 15 months and therefore not eligible for vaccination. Thirteen cases had received one dose of vaccine but none of these had completed their second dose, and one case was vaccinated but no dose information was recorded.

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	13	1	0	0	12	0
15mths-3yrs	19	3	0	0	16	0
4-9 yrs	41	5	0	0	35	1
10-19 yrs	38	2	0	1	32	3
20+ yrs	25	2	0	0	15	8
Unknown	0	0	0	0	0	0
Total	136	13	0	1	110	12

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