

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 16 September 2011. Data were extracted from EpiSurv at 10 am, 20 September 2011.

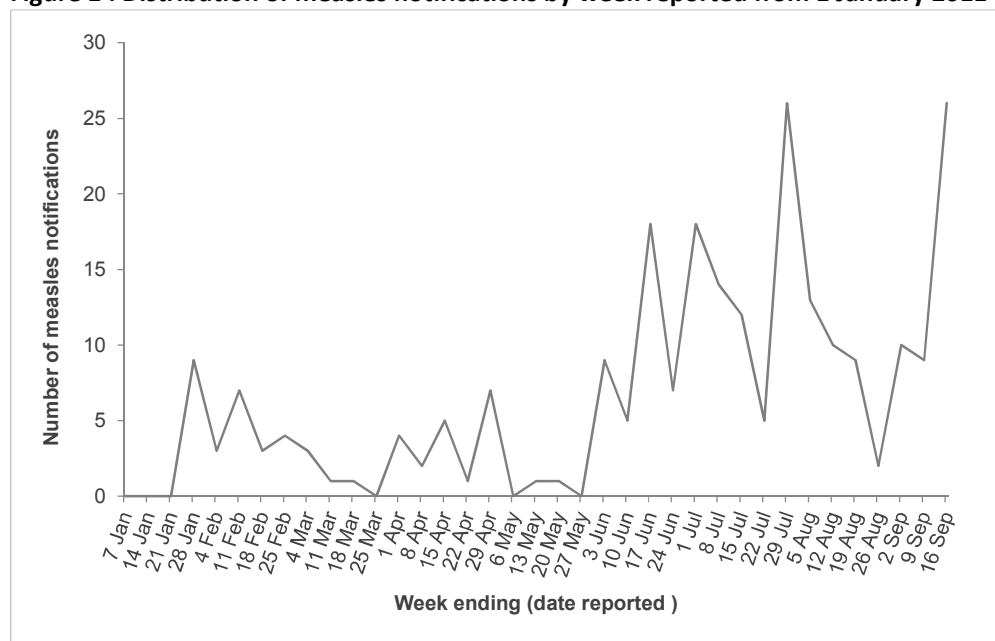
In the last week, 26 new measles cases (11 cases the previous week) were notified from the following DHBs: Auckland (13 cases), Waitamata (6 cases), Waikato (4 cases), and Bay of Plenty, Nelson Marlborough and South Canterbury (1 case each). Of these notifications, 21 were confirmed, and one was probable and four are still under investigation. There have been 245 cases of measles reported in EpiSurv since January 2011 (compared to 44 cases reported the same time last year), including 225 confirmed cases, nine probable cases and 11 cases are still under investigation. These were reported mainly from the Auckland region (69.0% of total cases), Waikato (13.5%) and Hawke's Bay (9.8%). DHBs reporting cases include Waitemata (116 cases), Auckland (36 cases), Waikato (33 cases), Hawke's Bay (24 cases), Counties Manukau (17 cases), Canterbury (7 cases), Northland (5 cases), Capital and Coast (2 cases), and Bay of Plenty, Hutt Valley, Nelson Marlborough, West Coast and South Canterbury 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.

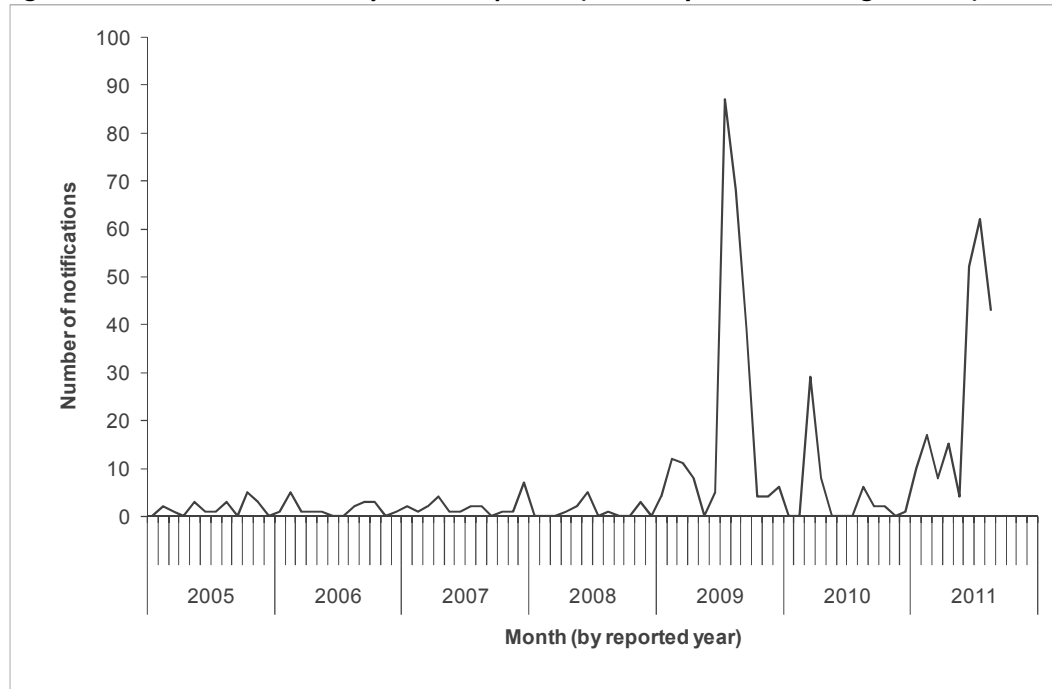
Temporal distribution

Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 26 cases notified in the last week (11 the previous week)¹. Compared to the previous week, notifications have considerably increased in the last week ending 16 September. Of the 245 notifications since the beginning of 2011, 24 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 de-notified.

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

The onset dates were recorded for 17 of the 26 measles cases notified in the last week, and earliest date was 10 August 2011. Although reporting of onset dates is not always complete, 199 notifications (of 245) since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 14 September, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 225 confirmed cases with a known age reported since 1 January 2011, 109 (48.7%) were aged under 10 years, 76 (33.9%) were aged 10 to 19 years, and 39 (17.4%) were aged 20 years or older while 21 (9.4%) were aged under 15 months.

Of the 225 cases, 113 (50.4%) were aged 12 months to 12 years and 62 (27.7%) were aged 13 years to 20 years.

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

Age Group	10-16 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	4	4	0	0	0	28	21	5	2	5
15mths-3yrs	5	4	1	0	0	38	33	2	3	2
4-9 yrs	4	2	0	2	0	61	55	2	4	2
10-19 yrs	3	2	0	1	1	77	76	0	1	5
20+ yrs	9	8	0	1	2	40	39	0	1	10
Unknown	1	1	0	0	0	1	1	0	0	0
Total	26	21	1	4	3	245	225	9	11	24
12mths - 12yrs	11	7	1	3	0	129	113	6	10	5
13yrs - 20yrs	2	2	0	0	2	62	62	0	0	6

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

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

Of the 210 confirmed cases with a known ethnicity reported since 1 January 2011, 139 (66.2%) were European, 54 (25.7%) were Maori, 13 (6.2%) were Pacific Peoples, and four (1.9%) were in the "Other" ethnic groups (Table 2). Ethnicity was not recorded for six (28.6%) of the 21 confirmed cases reported in the last week. Hospitalisations by ethnicity are also depicted in Table 2.

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

Ethnicity (prioritised)	10-16 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	4	3	0	1	0	57	54	2	1	6
Pacific Peoples	0	0	0	0	0	13	13	0	0	2
Other	1	1	0	0	0	4	4	0	0	1
European	14	11	1	2	2	152	139	5	8	12
Unknown	7	6	0	1	1	19	15	2	2	3
Total	26	21	1	4	3	245	225	9	11	24

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

Geographic distribution

Of the 225 confirmed cases reported since 1 January, 115 (51.1%) were reported from Waitemata, 36 (16.0%) from Auckland, 24 (10.7%) each from Waikato and Hawke's Bay, 17 (7.6%) from Counties Manukau, four (1.8%) from Canterbury, two (0.9%) from Northland, and one each (0.4%) from Bay of Plenty, Capital and Coast, and Hutt Valley DHBs.

The 21 confirmed cases in the last week were reported from Auckland (13 cases), Waitemata (6 cases), Waikato and Bay of Plenty (1 case each) DHBs.

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

DHB	10-16 September 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	5	2	2	1	0
Waitemata	6	6	0	0	1	116	115	1	0	11
Auckland	13	13	0	0	2	36	36	0	0	5
Counties Manukau	0	0	0	0	0	17	17	0	0	4
Waikato	4	1	1	2	0	33	24	3	6	1
Lakes	0	0	0	0	0	0	0	0	0	0
Bay of Plenty	1	1	0	0	0	1	1	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	2	1	0	1	0
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	0	0	0	0	0	1	0	0	1	0
Canterbury	0	0	0	0	0	7	4	3	0	0
South Canterbury	1	0	0	1	0	1	0	0	1	0
Southern	0	0	0	0	0	0	0	0	0	0
New Zealand Total	26	21	1	4	3	245	225	9	11	24

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

Immunisation status

Immunisation status of the confirmed cases reported in the last week, as recorded in EpiSurv, is shown in Table 4. Vaccination status was known for 12 (57.1%) of the confirmed measles cases reported in the last week. Of the 12 cases, nine were not vaccinated. Two cases had received one dose of vaccine and one case had no dose information recorded.

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	4	0	0	0	3	1
15mths-3yrs	4	1	0	0	3	0
4-9 yrs	2	0	0	0	1	1
10-19 yrs	2	1	0	0	1	0
20+ yrs	8	0	0	1	0	7
Unknown	1	0	0	0	1	0
Total	21	2	0	1	9	9

Of the 225 confirmed cases reported since January 2011, 199 (88.4%) had a known vaccination status. Of these 199 cases, 170 were not vaccinated including 21 cases aged less than 15 months and therefore not eligible for vaccination. Twenty five cases had received one dose of vaccine; three cases had completed their second dose.

Table 5: 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	21	3	0	0	17	1
15mths-3yrs	33	9	0	0	24	0
4-9 yrs	55	5	2	0	46	2
10-19 yrs	76	6	1	0	63	6
20+ yrs	39	2	0	1	19	17
Unknown	1	0	0	0	1	0
Total	225	25	3	1	170	26

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