

MEASLES REPORT

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

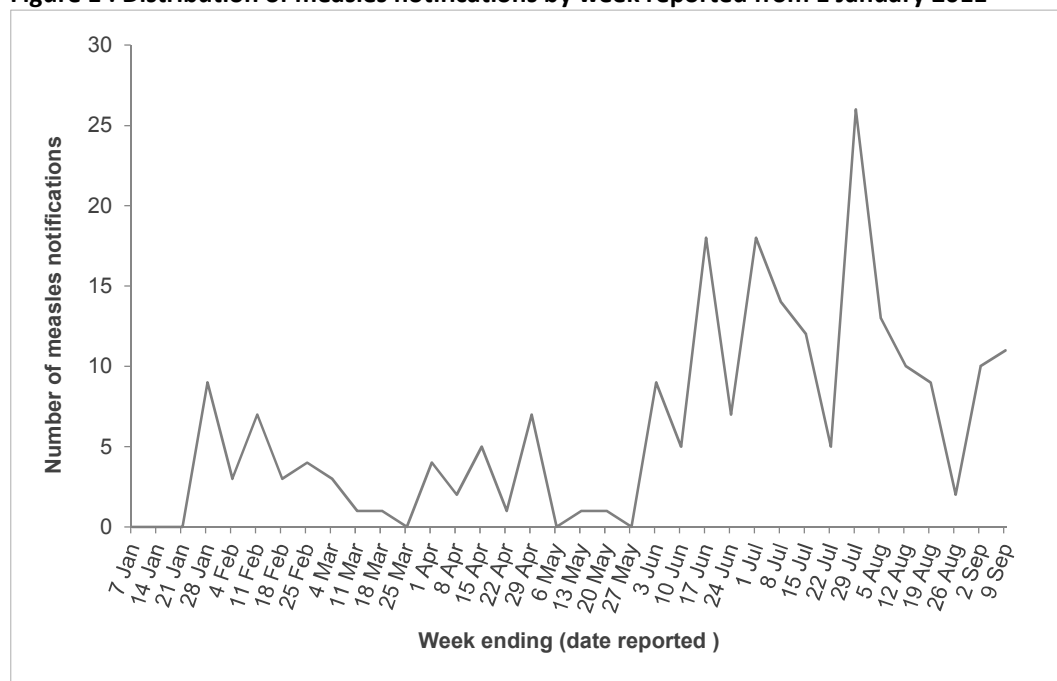
In the last week, 11 new measles cases (11 cases the previous week) were notified from the following DHBs: Northland (4 cases), Waitamata (3 cases), Auckland (2 cases), Counties Manukau and Waikato (1 case each). Of these notifications, six were confirmed, and three are probable and two are still under investigation. There have been 221 cases of measles reported in EpiSurv since January 2011 (compared to 43 cases reported the same time last year), including 204 confirmed cases, eight probable cases and nine cases are still under investigation. These were reported mainly from the Auckland region (68.3% of total cases), Waikato (13.1%) and Hawke's Bay (10.9%). DHBs reporting cases include Waitemata (110 cases), Waikato (29 cases), Hawke's Bay (24 cases), Auckland (23 cases), Counties Manukau (18 cases), Canterbury (7 cases), Northland (6 cases), Capital and Coast (2 cases), and Hutt Valley, and West Coast 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.

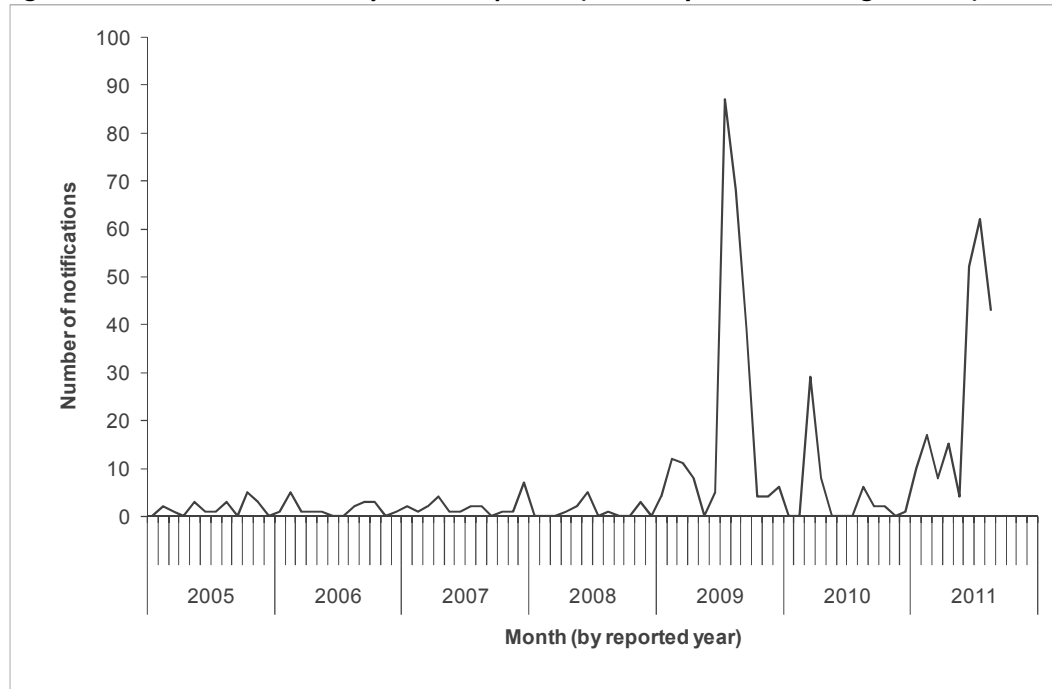
Temporal distribution

Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 11 cases notified in the last week (11 the previous week)¹. Compared to the previous week, notifications have remained constant in the last week ending 9 September. Of the 221 notifications since the beginning of 2011, 21 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 four of the 11 measles cases notified in the last week, and earliest date was 3 September 2011. Although reporting of onset dates is not always complete, 180 notifications (of 221) since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 7 September, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 204 confirmed cases with a known age reported since 1 January 2011, 99 (48.5%) were aged under 10 years, 74 (36.3%) were aged 10 to 19 years, and 31 (15.2%) were aged 20 years or older while 17 (8.3%) were aged under 15 months.

Of the 204 cases, 106 (52.0%) were aged 12 months to 12 years and 60 (29.4%) were aged 13 years to 20 years.

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

Age Group	3 - 9 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	4	1	2	1	0	25	17	5	3	5
15mths-3yrs	5	4	0	1	0	34	29	1	4	2
4-9 yrs	1	0	1	0	0	57	53	2	2	2
10-19 yrs	1	1	0	0	0	74	74	0	0	4
20+ yrs	0	0	0	0	0	31	31	0	0	8
Unknown	0	0	0	0	0	0	0	0	0	0
Total	11	6	3	2	0	221	204	8	9	21
12mths - 12yrs	9	5	3	1	1	119	106	5	8	5
13yrs - 20yrs	1	1	0	0	0	60	60	0	0	4

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

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

Of the 191 confirmed cases with a known ethnicity reported since 1 January 2011, 125 (65.4%) were European, 51 (26.7%) were Maori, 12 (6.3%) were Pacific Peoples, and three (1.6%) were in the "Other" ethnic groups (Table 2). Ethnicity was not recorded for four (66.7%) of the six 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)	3 - 9 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	1	0	1	0	0	53	51	2	0	6
Pacific Peoples	1	1	0	0	0	12	12	0	0	2
Other	1	1	0	0	0	3	3	0	0	1
European	2	0	1	1	0	136	125	4	7	10
Unknown	6	4	1	1	0	17	13	2	2	2
Total	11	6	3	2	0	221	204	8	9	21

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

Geographic distribution

Of the 204 confirmed cases reported since 1 January, 109 (53.4%) were reported from Waitemata, 24 (11.8%) from Hawke's Bay, 23 (11.6%) from Waikato, 23 (11.3%) from Auckland, 17 (8.3%) from Counties Manukau, four (2.0%) from Canterbury, two (1.0%) from Northland, and one each (0.5%) from Capital and Coast, and Hutt Valley DHBs.

The six confirmed cases in the last week were reported from Waitemata (3 cases), Auckland (2 cases each), and Northland (1 case) DHBs.

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

DHB	3 - 9 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Northland	4	1	2	1	0	6	2	2	2	0
Waitemata	3	3	0	0	0	110	109	1	0	10
Auckland	2	2	0	0	0	23	23	0	0	3
Counties Manukau	1	0	0	1	0	18	17	0	1	4
Waikato	1	0	1	0	0	29	23	2	4	1
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	2	1	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	1	0	0	1	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	11	6	3	2	0	221	204	8	9	21

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

Immunisation status

Immunisation status of the confirmed cases, as recorded in EpiSurv, is shown in Table 4. Of the 204 confirmed cases reported since January 2011, 185 (90.7%) had a known vaccination status. Of these 185 cases, 160 were not vaccinated including 13 cases aged less than 15 months and therefore not eligible for vaccination. Twenty two cases had received one dose of vaccine; three cases had completed their second dose.

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	17	2	0	0	13	2
15mths-3yrs	29	8	0	0	21	0
4-9 yrs	53	5	2	0	45	1
10-19 yrs	74	5	1	0	62	6
20+ yrs	31	2	0	0	19	10
Unknown	0	0	0	0	0	0
Total	204	22	3	0	160	19

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