

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 23 September 2011. Data were extracted from EpiSurv at 10 am, 27 September 2011.

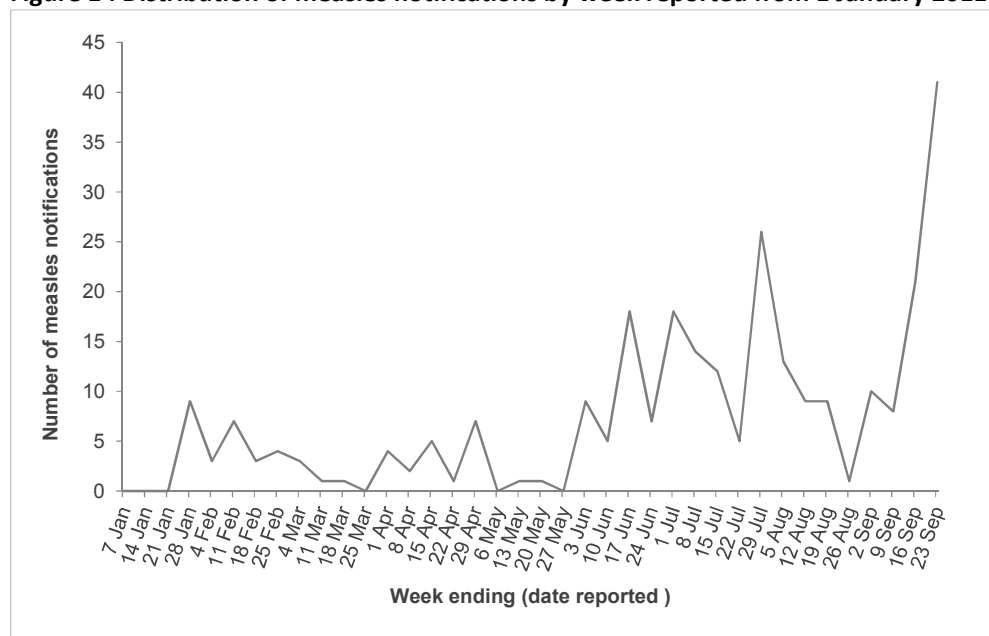
In the last week, 41 new measles cases (26 cases the previous week) were notified from the following DHBs: Auckland (29 cases), Waitamata (5 cases), Capital and Coast (3 cases), Counties Manukau (2 cases), Midcentral and Canterbury (1 case each). Of these notifications, 36 were confirmed, one was probable and four are still under investigation. There have been 278 cases of measles reported in EpiSurv since January 2011 (compared to 45 cases reported the same time last year), including 262 confirmed cases, seven probable cases and nine cases still under investigation. These were reported mainly from the Auckland region (73.7% of total cases), Waikato (9.5%) and Hawke's Bay (9.2%). DHBs reporting cases include Waitemata (121 cases), Auckland (65 cases), Waikato (28 cases), Hawke's Bay (24 cases), Counties Manukau (19 cases), Canterbury (8 cases), Capital and Coast (5 cases), Northland (4 cases), and Bay of Plenty, Midcentral, 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.

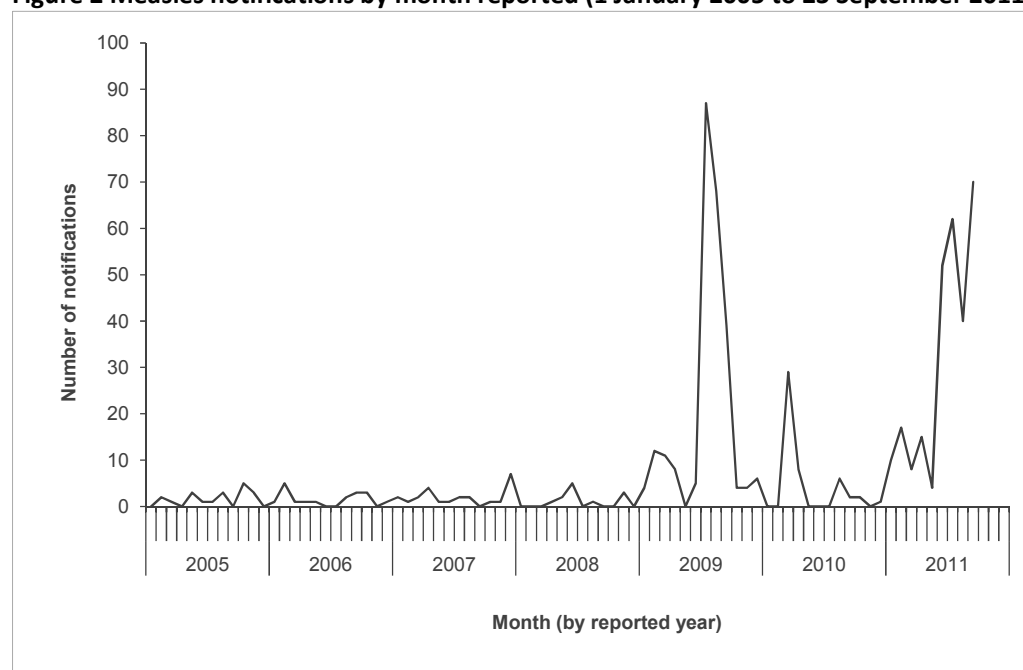
Temporal distribution

Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 41 cases notified in the last week (26 the previous week)¹. Compared to the previous week, notifications have increased considerably in the last week ending 23 September. Of the 278 notifications since the beginning of 2011, 39 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 23 September 2011¹)

¹ Notifications for September 2011 are complete to 23 September only and do not represent the full calendar month

The onset dates were recorded for 30 of the 41 measles cases notified in the last week, and earliest date was 5 September 2011. Although reporting of onset dates is not always complete, 225 notifications (of 278) since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 21 September, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 262 confirmed cases with a known age reported since 1 January 2011, 117 (44.7%) were aged under 10 years, 80 (30.5%) were aged 10 to 19 years, and 65 (24.8%) were aged 20 years or older while 26 (9.9%) were aged under 15 months. Of the 36 confirmed cases reported in the past week 26 (72.2%) were aged 20 years and older.

Of the 262 cases, 122 (46.6%) were aged 12 months to 12 years and 65 (24.8%) were aged 13 years to 20 years.

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

Age Group	17-23 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	7	5	1	1	0	34	26	5	3	5
15mths-3yrs	1	1	0	0	0	39	35	1	3	2
4-9 yrs	0	0	0	0	0	57	56	1	0	2
10-19 yrs	5	4	0	1	1	81	80	0	1	7
20+ yrs	27	26	0	1	11	66	65	0	1	23
Unknown	1	0	0	1	0	1	0	0	1	0
Total	41	36	1	4	12	278	262	7	9	39
12mths - 12yrs	7	7	0	0	0	130	122	3	5	5
13yrs - 20yrs	4	3	0	1	2	66	65	0	1	9

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

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

Of the 256 confirmed cases with a known ethnicity reported since 1 January 2011, 164 (64.1%) were European, 60 (23.4%) were Maori, 18 (7.0%) were Pacific Peoples, and 14 (5.5%) were in the "Other" ethnic groups (Table 2). Ethnicity was not recorded for two of the 36 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)	17-23 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	7	4	1	2	2	66	60	4	2	8
Pacific Peoples	2	2	0	0	1	18	18	0	0	6
Other	8	8	0	0	1	14	14	0	0	3
European	22	20	0	2	7	172	164	2	6	21
Unknown	2	2	0	0	1	8	6	1	1	1
Total	41	36	1	4	12	278	262	7	9	39

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

Geographic distribution

Of the 262 confirmed cases reported since 1 January, 120 (45.8%) were reported from Waitemata, 64 (24.4%) from Auckland, 25 (9.5%) from Waikato, 24 (9.2%) from Hawke's Bay, 19 (7.3%) from Counties Manukau, five (1.9%) from Canterbury, two (0.8%) from Northland, and one each (0.4%) from Bay of Plenty, Capital and Coast, and Hutt Valley DHBs.

The 36 confirmed cases in the last week were reported from Auckland (28 cases), Waitemata (5 cases), Waikato (2 cases) and Canterbury (1 case) DHBs.

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

DHB	17-23 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	4	2	2	0	1
Waitemata	5	5	0	0	0	121	120	1	0	11
Auckland	29	28	0	1	12	65	64	0	1	19
Counties Manukau	2	2	0	0	0	19	19	0	0	4
Waikato	0	0	0	0	0	28	25	0	3	1
Lakes	0	0	0	0	0	0	0	0	0	0
Bay of Plenty	0	0	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	1	0	0	1	0	1	0	0	1	0
Hutt Valley	0	0	0	0	0	1	1	0	0	0
Capital and Coast	3	0	1	2	0	5	1	1	3	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	1	1	0	0	0	8	5	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	41	36	1	4	12	278	262	7	9	39

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

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 13 (36.1%) of the confirmed measles cases reported. Of the 36 cases, nine were not vaccinated. One case had received one dose of vaccine and three cases 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	5	0	0	0	3	2
15mths-3yrs	1	0	0	0	0	1
4-9 yrs	0	0	0	0	0	0
10-19 yrs	4	0	0	0	2	2
20+ yrs	26	1	0	3	4	18
Unknown	0	0	0	0	0	0
Total	36	1	0	3	9	23

Of the 262 confirmed cases reported since January 2011, 214 (81.7%) had a known vaccination status. Of these 214 cases, 180 were not vaccinated including 20 cases aged less than 15 months and therefore not eligible for vaccination. Twenty seven 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	26	3	0	0	20	3
15mths-3yrs	35	9	0	0	25	1
4-9 yrs	56	6	2	0	46	2
10-19 yrs	80	6	1	0	66	7
20+ yrs	65	3	0	4	23	35
Unknown	0	0	0	0	0	0
Total	262	27	3	4	180	48

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