

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 7 October 2011. Data were extracted from EpiSurv at 10 am, 11 October 2011.

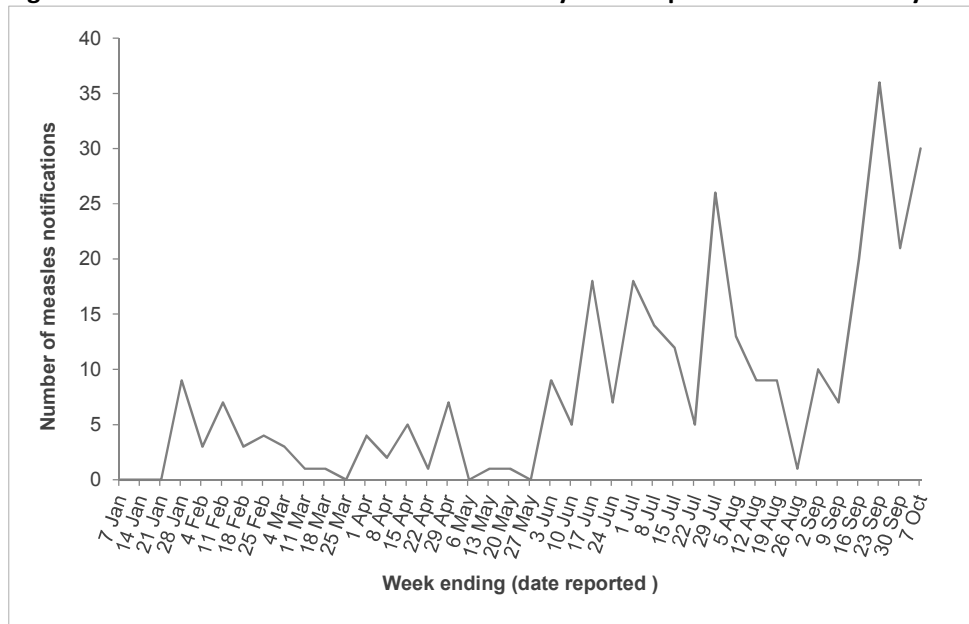
In the last week, 30 new measles cases (27 cases the previous week) were notified from the following DHBs: Auckland (20 cases), Waitemata (3 cases), Counties Manukau (3 cases), Bay of Plenty, Nelson Marlborough, Canterbury and Southern (1 case each). Of these notifications, 25 were confirmed, and five are still under investigation. There have been 322 cases of measles reported in EpiSurv since January 2011 (compared to 46 cases reported the same time last year), including 306 confirmed cases, six probable cases and 10 cases still under investigation. These were reported mainly from the Auckland region (77.6% of total cases), Waikato (8.7%) and Hawke’s Bay (7.5%). DHBs reporting cases include Waitemata (127 cases), Auckland (99 cases), Waikato (28 cases), Hawke’s Bay (24 cases), Counties Manukau (24 cases), Canterbury (9 cases), Capital and Coast and Northland (3 cases each), Bay of Plenty, Hutt Valley, Nelson Marlborough, West Coast and Southern (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

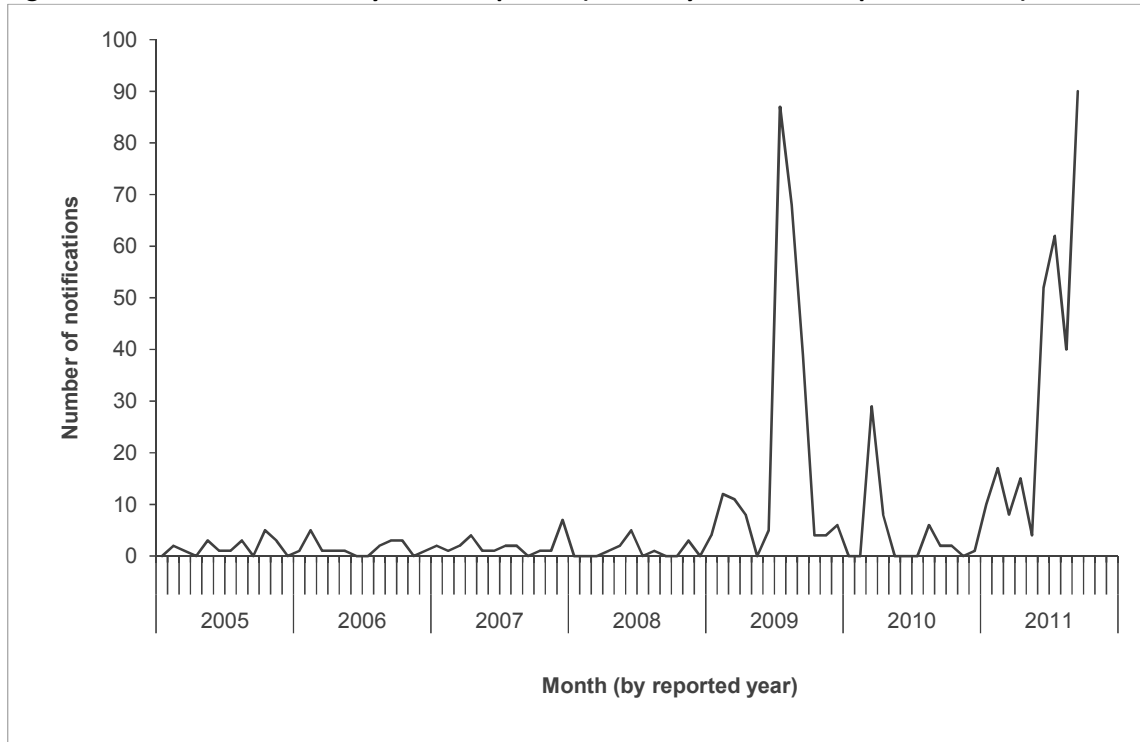
Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 30 cases notified in the last week (27 the previous week)¹. Compared to the previous week, notifications have increased slightly in the last week ending 7 October. Of the 322 notifications since the beginning of 2011, 53 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 reclassified ‘not a case’. The previous week’s count is as reported in the previous weekly report not the current count.

Figure 2 Measles notifications by month reported (1 January 2005 to 30 September 2011)



The onset dates were recorded for 26 (86.6%) of the 30 measles cases notified in the last week, these ranged from 25 September to 7 October 2011. Although reporting of onset dates is not always complete, 272 (84.5%) of notifications since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 7 October, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 306 confirmed cases with a known age reported since 1 January 2011, 137 (44.8%) were aged under 10 years, 85 (27.8%) were aged 10 to 19 years, and 84 (27.5%) were aged 20 years or older. Thirty-two (10.5%) were aged under 15 months.

Of the 306 confirmed cases, 141 (46.1%) were aged 12 months to 12 years and 69 (22.5%) were aged 13 years to 20 years.

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

Age Group	1-7 October 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15 mths	2	2	0	0	1	38	32	4	2	7
15 mths-3yrs	6	3	0	3	1	48	41	1	6	3
4-9 yrs	6	5	0	1	1	65	64	0	1	4
10-19 yrs	3	3	0	0	0	86	85	1	0	8
20+ yrs	13	12	0	1	5	85	84	0	1	31
Unknown	0	0	0	0	0	0	0	0	0	0
Total	30	25	0	5	8	322	306	6	10	53
<i>12 mths-12 yrs</i>	<i>13</i>	<i>9</i>	<i>0</i>	<i>13</i>	<i>2</i>	<i>152</i>	<i>141</i>	<i>2</i>	<i>9</i>	<i>9</i>
<i>13 yrs-20 yrs</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>0</i>	<i>70</i>	<i>69</i>	<i>1</i>	<i>0</i>	<i>10</i>

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

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

Of the 302 confirmed cases with a known ethnicity reported since 1 January 2011, 194 (64.2%) were European, 68 (22.5%) were Māori, 21 (7.0%) were Pacific Peoples, and 19 (6.3%) were in the "Other" ethnic groups (Table 2). Ethnicity was recorded for all of the 25 confirmed cases reported in the last week, these were distributed as follows: 16 (64.0%) European, four (16.0%) Māori, four (16.0%) of "Other" ethnicity and one (4.0%) Pacific Peoples. Hospitalisations by ethnicity are also depicted in Table 2.

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

Ethnicity (prioritised)	1-7 October 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Māori	5	4	0	1	0	71	68	2	1	9
Pacific Peoples	1	1	0	0	0	21	21	0	0	7
Other	4	4	0	0	0	19	19	0	0	4
European	20	16	0	4	8	206	194	3	9	32
Unknown	0	0	0	0	0	5	4	1	0	1
Total	30	25	0	5	8	322	306	6	10	53

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

Geographic distribution

Of the 306 confirmed cases reported since 1 January, 125 (40.8%) were reported from Waitemata, 97 (31.7%) from Auckland, 25 (8.2%) from Waikato, 24 (7.8%) from Hawke's Bay, 24 (7.8%) from Counties Manukau, six (2.0%) from Canterbury, two (0.7%) from Northland and one (0.3%) from Bay of Plenty, Capital and Coast and Hutt Valley DHBs.

The 25 confirmed cases in the last week were reported from Auckland (18 cases), Counties Manukau (3 cases), Waitemata (2 cases), Bay of Plenty and Canterbury (1 case) DHBs.

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

DHB	1-7 October 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	3	2	1	0	1
Waitemata	3	2	0	1	0	127	125	1	1	12
Auckland	20	18	0	2	6	99	97	0	2	29
Counties Manukau	3	3	0	0	0	24	24	0	0	5
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	1	1	0	0	1	1	1	0	0	1
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	3	1	1	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	1	1	0	0	1	9	6	3	0	1
South Canterbury	0	0	0	0	0	0	0	0	0	0
Southern	1	0	0	1	0	1	0	0	1	0
New Zealand Total	30	25	0	5	8	322	306	6	10	53

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 16 (64.0%) of the confirmed measles cases reported. Of the 16 cases, 14 were not vaccinated. Two cases 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		Unknown
				(no dose info)	Not vaccinated	
<15mths	2	0	0	0	2	0
15mths-3yrs	3	0	0	0	2	1
4-9 yrs	5	0	0	0	5	0
10-19 yrs	3	1	0	0	1	1
20+ yrs	12	1	0	0	4	7
Unknown	0	0	0	0	0	0
Total	25	2	0	0	14	9

Of the 306 confirmed cases reported since January 2011, 258 (84.3%) had a known vaccination status. Of these 258 cases, 207 were not vaccinated including 27 cases aged less than 15 months and therefore not eligible for vaccination. Forty cases had received one dose of vaccine; seven cases had completed their second dose. Four cases were vaccinated but had no dose information recorded.

Table 5: Immunisation status of measles cases (confirmed) notified since 1 January 2011

Age Group	Total cases	One dose	Two doses	Vaccinated		Unknown
				(no dose info)	Not vaccinated	
<15mths	32	4	0	0	27	1
15mths-3yrs	41	11	0	0	29	1
4-9 yrs	64	6	2	0	54	2
10-19 yrs	85	8	1	1	67	8
20+ yrs	84	11	4	3	30	36
Unknown	0	0	0	0	0	0
Total	306	40	7	4	207	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