

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 18 June 2010. Data was extracted from EpiSurv at 10am 22 June 2010.

In the last two weeks, one new measles case was notified and is still under investigation. No hospitalisations and no deaths were notified. There have been a total of 44 measles notifications recorded in EpiSurv since 26 December 2009 (the beginning of surveillance week 1 for 2010), including 35 confirmed cases, four probable cases, and five cases under investigation.

This report incorporates the temporal distribution of cases, since January 2010, 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 of cases

There has been one measles case notified in the last two weeks which is still under investigation. However, case counts for the last two weeks may change with further investigation. Following relatively low numbers of notifications from mid February to mid March 2010 a substantial spike in notifications in week 14 can be observed. However, the numbers remained relatively low since week 15 (Figure 1). There have been a total of 44 notifications since 26 December 2009 (the beginning of surveillance week 1 for 2010), including 35 confirmed cases, four probable cases, and five cases under investigation. One hospitalisation and no deaths have been reported during this period.

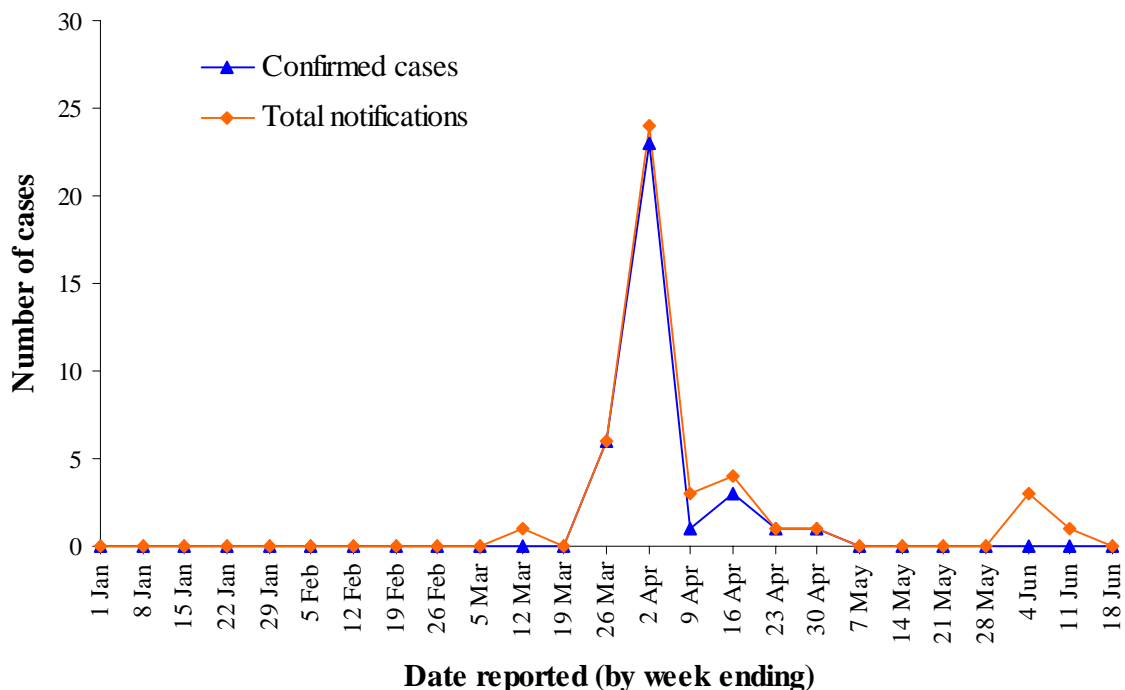


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

The onset date of the measles case notified in the last two weeks was 3 June 2010. Although reporting of onset dates is not always complete, 41 notifications since 26 December 2009 have onset dates available. The earliest report date since 26 December 2009 was 9 March 2010 and was a probable case.

Case demographics

The distribution of cases by age, ethnicity (prioritised) and district health board (DHB) is shown in Tables 1 to 3 below.

Age

The age distribution of measles cases is shown in Table 1. In the past two weeks, one case aged 4-9 years was notified. Of the 35 confirmed cases reported since 26 December 2009 with a known age, 12 (34.3%) were aged under 10 years, 17 (48.6%) were aged 10 to 19 years, and six (17.1%) were aged 20 years or older.

Of the 35 confirmed cases with a known age reported since 26 December 2009, 14 (40.0%) were aged 12 months to 12 years and 13 (37.1%) were aged 13 years to 20 years.

Table 1: Age distribution of measles cases and hospitalisations

Age Group	5 - 18 June 2010					Cumulative total since 26 December 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	0	0	0	0	0	3	3	0	3	1
15mths-3yrs	0	0	0	0	0	1	3	1	1	0
4-9 yrs	1	0	0	1	0	1	6	2	1	0
10-19 yrs	0	0	0	0	0	0	17	0	0	0
20+ yrs	0	0	0	0	0	0	6	1	0	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	0	5	35	4	5	1
<i>12mths - 12yrs</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>20</i>	<i>14</i>	<i>3</i>	<i>3</i>	<i>0</i>
<i>13yrs - 20yrs</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>13</i>	<i>13</i>	<i>0</i>	<i>0</i>	<i>0</i>

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

Ethnicity

Of the 35 confirmed cases with a known ethnicity reported since 26 December 2009, 33 (94.3%) were European and two (5.7%) were Maori (Table 2). The only case notified in the last two weeks was European.

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

Ethnicity (prioritised)	5 - 18 June 2010					Cumulative total since 26 December 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	0	0	0	0	0	6	2	1	3	1
Pacific Peoples	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
European	1	0	0	1	0	38	33	3	2	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	0	44	35	4	5	1

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

Geographic distribution

Of the 35 confirmed cases reported since 26 December, 31 (88.6%) were reported from Northland DHB (with last case being reported during week 17), two (5.7%) from Capital and Coast DHB and one each (each 2.9%) from Waitemata and Lakes DHBs (

Table 3). Nelson Marlborough DHB reported the only measles case in the last two weeks.

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	5 - 18 June 2010					Cumulative total since 26 December 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Northland	0	0	0	0	0	33	31	2	0	1
Waitemata	0	0	0	0	0	1	1	0	0	0
Auckland	0	0	0	0	0	0	0	0	0	0
Counties Manukau	0	0	0	0	0	1	0	0	1	0
Waikato	0	0	0	0	0	0	0	0	0	0
Lakes	0	0	0	0	0	1	1	0	0	0
Bay of Plenty	0	0	0	0	0	1	0	1	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	0	0	0	0	0
Whanganui	0	0	0	0	0	0	0	0	0	0
MidCentral	0	0	0	0	0	1	0	1	0	0
Hutt Valley	0	0	0	0	0	0	0	0	0	0
Capital and Coast	0	0	0	0	0	2	2	0	0	0
Wairarapa	0	0	0	0	0	1	0	0	1	0
Nelson Marlborough	1	0	0	1	0	2	0	0	2	0
West Coast	0	0	0	0	0	1	0	0	1	0
Canterbury	0	0	0	0	0	0	0	0	0	0
South Canterbury	0	0	0	0	0	0	0	0	0	0
Otago	0	0	0	0	0	0	0	0	0	0
Southland	0	0	0	0	0	0	0	0	0	0
New Zealand Total	1	0	0	1	0	44	35	4	5	1

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

Immunisation status

Immunisation status of measles cases is shown in Table 4. Of the 35 confirmed cases reported since 26 December 2009, 32 (91.4%) had a known vaccination status (Table 4). Of these 32 cases, 27 (84.4%) were not vaccinated including three cases aged less than 15 months and therefore not eligible for vaccination. Three cases had received one dose of vaccine and two cases reported being vaccinated but dose information was not available.

Table 4: Immunisation status of measles cases (confirmed) notified since 26 December 2009

Age Group	Total cases	One dose	Two doses	Vaccinated		Unknown
				(no dose info)	Not vaccinated	
<15mths	3	0	0	0	3	0
15mths-3yrs	3	0	0	0	3	0
4-9 yrs	6	0	0	0	6	0
10-19 yrs	17	2	0	1	13	1
20+ yrs	6	1	0	1	2	2
Unknown	0	0	0	0	0	0
Total	35	3	0	2	27	3

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 is available on the internet from www.surv.esr.cri.nz