

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 2 July 2010. Data was extracted from EpiSurv at 10 am 6 July 2010.

In the last two weeks, one new measles case (confirmed) was notified. No hospitalisations and no deaths were notified. There have been a total of 41 measles notifications recorded in EpiSurv since 26 December 2009 (the beginning of surveillance week 1 for 2010), including 36 confirmed cases, three probable cases, and two cases still 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 was one measles case notified in the last two weeks. However, case counts for the last two weeks may change with further investigation. Following relatively low numbers of notifications from the beginning of the year to mid March 2010 a substantial spike in notifications in week 14 can be observed. However, case numbers have remained relatively low since week 15 (Figure 1). There have been a total of 41 notifications since 26 December 2009 (the beginning of surveillance week 1 for 2010), including 36 confirmed cases, three probable cases, and two cases still under investigation. One hospitalisation and no deaths have been reported during this period.

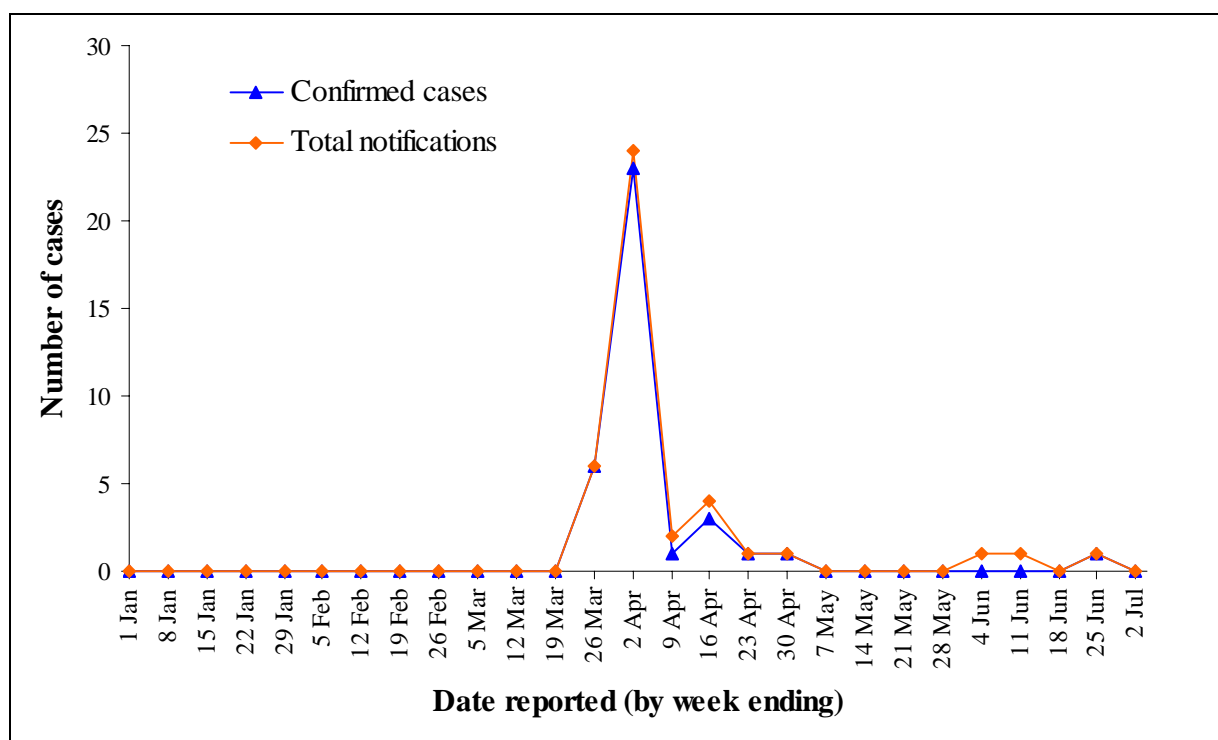


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

No onset date was recorded for the measles case notified in the last two weeks; the report date was 23 June 2010. Although reporting of onset dates is not always complete, 40 notifications since 26 December 2009 have onset dates available. Amongst these, the most recent onset date was 3 June 2010. The earliest report date since 26 December 2009 was 23 March 2010.

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. The only case notified in the past two weeks was aged 15 months to 3 years. Of the 36 confirmed cases reported since 26 December 2009 with a known age, 13 (36.1%) were aged under 10 years, 17 (47.2%) were aged 10 to 19 years, and six (16.7%) were aged 20 years or older.

Of the 36 confirmed cases with a known age reported since 26 December 2009, 15 (41.7%) were aged 12 months to 12 years and 13 (36.1%) were aged 13 to 20 years.

Table 1: Age distribution of measles cases and hospitalisations

Age Group	19 June -2 July 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	4	3	0	1	1
15mths-3yrs	1	1	0	0	0	5	4	1	0	0
4-9 yrs	0	0	0	0	0	8	6	1	1	0
10-19 yrs	0	0	0	0	0	17	17	0	0	0
20+ yrs	0	0	0	0	0	7	6	1	0	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	1	1	0	0	0	41	36	3	2	1
<i>12mths - 12yrs</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>19</i>	<i>15</i>	<i>2</i>	<i>2</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). Ethnicity was unknown for the only case notified in the last two weeks.

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

Ethnicity (prioritised)	19 June -2 July 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	2	2	0	0	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	0	0	0	0	0	38	33	3	2	0
Unknown	1	1	0	0	0	1	1	0	0	0
Total	1	1	0	0	0	41	36	3	2	1

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

Geographic distribution

Table 3 depicts the distribution of measles cases by DHB. Of the 36 confirmed cases reported since 26 December, 31 (86.1%) were reported from Northland DHB (with last case being reported during week 17), two (5.6%) from Capital and Coast DHB and one each (each 2.8%) from Waitemata, Auckland and Lakes DHBs. Auckland DHB reported the only measles case in the last two weeks.

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	19 June -2 July 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	32	31	1	0	1
Waitemata	0	0	0	0	0	1	1	0	0	0
Auckland	1	1	0	0	0	1	1	0	0	0
Counties Manukau	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0
Nelson Marlborough	0	0	0	0	0	1	0	0	1	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	1	0	0	0	41	36	3	2	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. Immunisation status for the only case notified in the past two weeks was unknown. Of the 36 confirmed cases reported since 26 December 2009, 32 (88.9%) had a known vaccination status. 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	4	0	0	0	3	1
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	36	3	0	2	27	4

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