

# MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 4 June 2010. Data was extracted from EpiSurv at 10am 8 June 2010.

In the last two weeks, five new measles cases were notified and are still under investigation. These were reported from Waitemata, Counties Manukau, Wairarapa, Nelson Marlborough, and West Coast DHBs (one case each). One hospitalisation and no deaths were reported.

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 have been five measles cases notified in the last two weeks and are 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 significant spike in notifications in week 14 can be observed followed by a smaller peak in week 16 (Figure 1). There have been a total of 45 notifications since 26 December 2009 (the beginning of surveillance week 1 for 2010) including 35 confirmed cases, four probable cases, and six cases under investigation. Two hospitalisations and no deaths have been reported during this period.

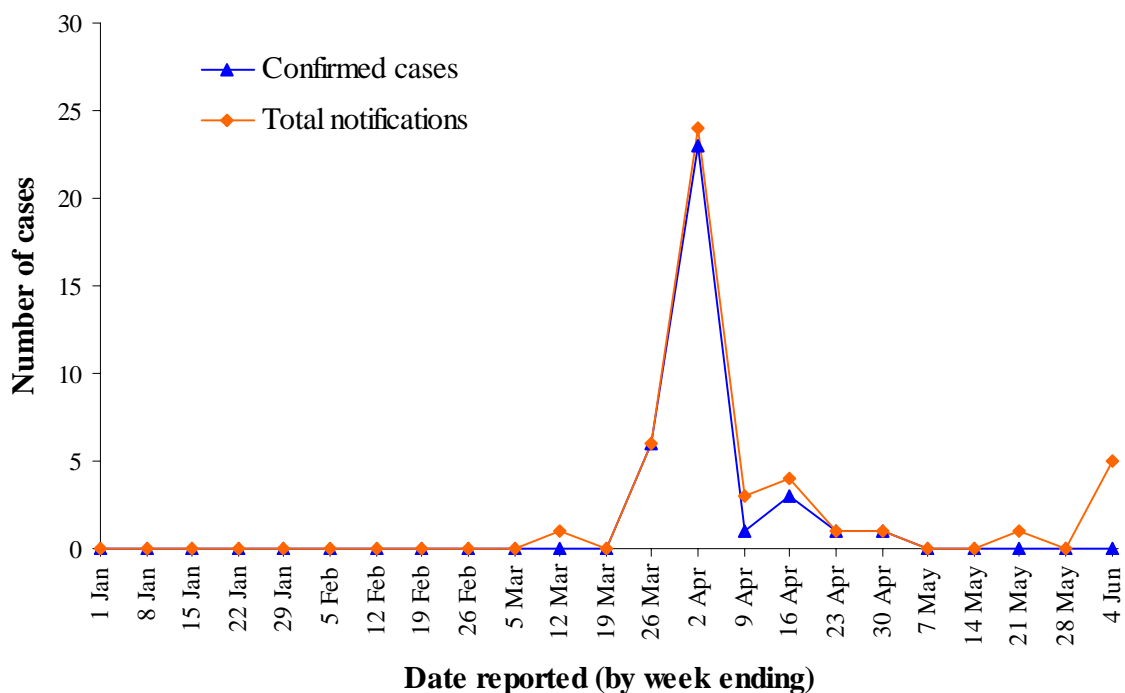


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

The onset dates were recorded for two measles cases notified in the last two weeks, 29 and 30 May 2010, respectively. 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 group

The age distribution of measles cases is shown in Table 1. 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. In the past two weeks, one case under 15 months of age was hospitalised.

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	23 May - 4 June 2010					Cumulative total since 26 December 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
<15mths	4	0	0	4	1	7	3	0	4	2
15mths-3yrs	0	0	0	0	0	5	3	1	1	0
4-9 yrs	1	0	0	1	0	9	6	2	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
<b>Total</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>45</b>	<b>35</b>	<b>4</b>	<b>6</b>	<b>2</b>
<i>12mths - 12yrs</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>2</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>

<sup>1</sup> 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). Of the five cases reported in the last two weeks, three were European and two Maori. One hospitalised case was European.

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

Ethnicity (prioritised)	23 May - 4 June 2010					Cumulative total since 26 December 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Maori	2	0	0	2	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	3	0	0	3	1	39	33	3	3	1
Unknown	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>45</b>	<b>35</b>	<b>4</b>	<b>6</b>	<b>2</b>

<sup>1</sup> Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

## Geographical distribution

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

Table 3). The five cases in the last two weeks were reported from Waitemata, Counties Manukau, Wairarapa, Nelson Marlborough, and West Coast DHBs (one case each).

**Table 3 : Geographical distribution of measles cases and hospitalisations**

DHB	23 May - 4 June 2010					Cumulative total since 26 December 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Northland	0	0	0	0	0	33	31	2	0	1
Waitemata	1	0	0	1	1	2	1	0	1	1
Auckland	0	0	0	0	0	0	0	0	0	0
Counties Manukau	1	0	0	1	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	1	0	0	1	0	1	0	0	1	0
Nelson Marlborough	1	0	0	1	0	2	0	0	2	0
West Coast	1	0	0	1	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
<b>New Zealand Total</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>45</b>	<b>35</b>	<b>4</b>	<b>6</b>	<b>2</b>

<sup>1</sup> 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 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
<b>Total</b>	<b>35</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>27</b>	<b>3</b>

## Appendix

### Case classification:

<b>Confirmed</b>	A clinically compatible illness that is epidemiologically linked to a confirmed case or is laboratory confirmed
<b>Probable</b>	A clinically compatible illness with all of the following symptoms: <ul style="list-style-type: none"> <li>• a fever <math>\geq 38^{\circ}\text{C}</math></li> <li>• a generalised maculopapular rash lasting three or more days</li> <li>• cough, or coryza, or conjunctivitis, or Koplik spots</li> </ul>
<b>Other</b>	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](http://www.surv.esr.cri.nz)