

# MEASLES REPORT

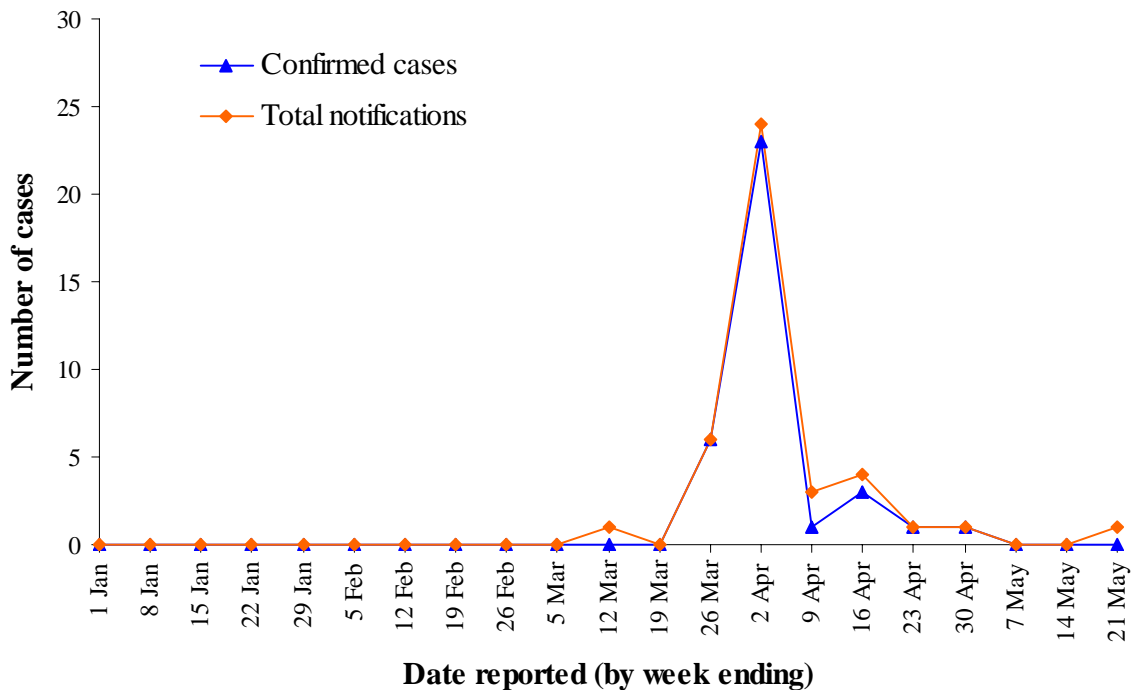
This report includes cases of measles reported in EpiSurv up to midnight 21 May 2010. Data was extracted from EpiSurv at 10am 25 May 2010.

In the last two weeks, one new case of measles was notified. This was a probable case reported by Whanganui DHB. No hospitalisations or 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 has been one probable case of measles 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 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 41 notifications since 26 December 2009 (the beginning of surveillance week 1 for 2010) including 35 confirmed cases, five probable cases and one case under investigation. One hospitalisation and no deaths have been reported.



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

The onset date was 16 May 2010 for the measles case reported in the last two weeks. Although reporting of onset dates is not always complete, all 41 notifications since 26

December 2009 have onset dates available. The earliest report date since 26 December 2009 is 9 March 2010 and is 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

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. The one probable case reported in the last two weeks was aged 15mths-3yrs (Table 1).

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	1 – 21 May 2010					Cumulative total since 26 December 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
<15mths	0	0	0	0	0	3	3	0	0	1
15mths-3yrs	1	0	1	0	0	6	3	2	1	0
4-9 yrs	0	0	0	0	0	8	6	2	0	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>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>35</b>	<b>5</b>	<b>1</b>	<b>1</b>
<i>12mths - 12yrs</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>19</i>	<i>14</i>	<i>4</i>	<i>1</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). The one probable case reported in the last two weeks was European.

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

Ethnicity (prioritised)	1 – 21 May 2010					Cumulative total since 26 December 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Maori	0	0	0	0	0	4	2	1	1	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	1	0	0	37	33	4	0	0
Unknown	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>35</b>	<b>5</b>	<b>1</b>	<b>1</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 one probable case in the last two weeks was reported from Whanganui DHB on 21 May 2010.

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

DHB	1 – 21 May 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	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	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	1	0	1	0	0	1	0	1	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	0	0	0	0	0	1	0	0	1	0
Marlborough	0	0	0	0	0	0	0	0	0	0
West Coast	0	0	0	0	0	0	0	0	0	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>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>35</b>	<b>5</b>	<b>1</b>	<b>1</b>

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

## Immunisation status

The case reported in the last two weeks was in the age group 15mths-3yrs and was immunised with one dose of vaccine.

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		
				(no dose info)	Not vaccinated	Unknown
<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)