

# MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 2 October 2009. Data was extracted from EpiSurv at 10 am 6 October September 2009.

In the past week, 17 new cases of measles were notified including two hospitalisations (one case was under investigation). The notified cases consisted of one confirmed case, two probable cases, and 14 cases under investigation. There were no reported deaths.

This report incorporates the temporal distribution of cases, 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 were 17 total notifications in the past week, only one of which was a confirmed case (Figure 1). However, both total and confirmed case counts for the week are likely to change as the cases are investigated. The total number of confirmed (n = 155) and probable cases (n = 55) reported since 30 May 2009 is 210, including 20 (8.7%) hospitalisations. There have been a total of 231 notifications of which 21 (9.1%) were hospitalised. There have been no deaths reported.

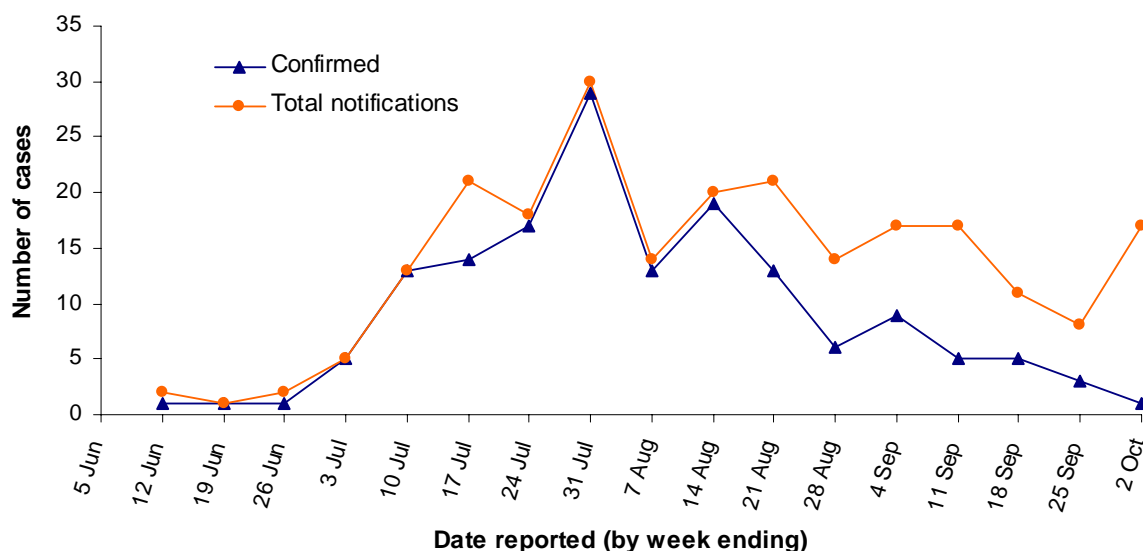


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

## Case Demographics

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

Of the 155 confirmed cases reported with a known age since 30 May 2009, 71 (45.8%) were aged under 10 years old, 63 (40.6%) were aged 10-19 years of age, and 21 (13.5%) were aged 20 years or older (Table 1).

Of the 121 confirmed cases (aged 12 months to 20 years) reported with a known age since 30 May 2009, 81 (66.9%) were aged 12 months to 12 years (including the only confirmed case reported last week) and 40 (33.1%) were aged 13 years to 20 years.

**Table 1 : Age distribution of measles cases and hospitalisations**

Age Group	26 Sep-2 Oct 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
<15mths	7	0	0	7	0	48	19	19	10	1
15mths-3yrs	9	1	2	6	1	64	30	25	9	6
4-9 yrs	0	0	0	0	0	25	22	3	0	0
10-19 yrs	0	0	0	0	0	69	63	6	0	6
20+ yrs	1	0	0	1	0	25	21	2	2	7
Unknown	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>17</b>	<b>1</b>	<b>2</b>	<b>14</b>	<b>1</b>	<b>231</b>	<b>155</b>	<b>55</b>	<b>21</b>	<b>20</b>
<i>12mths - 12yrs</i>	<i>10</i>	<i>1</i>	<i>2</i>	<i>7</i>	<i>1</i>	<i>127</i>	<i>81</i>	<i>36</i>	<i>10</i>	<i>6</i>
<i>13yrs - 20yrs</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>46</i>	<i>40</i>	<i>6</i>	<i>0</i>	<i>6</i>

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

### Ethnicity

Of the 151 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 128 (84.8%) were European, 12 (7.9%) cases were of Maori ethnicity, six (4.0%) were of Other ethnicity and five (3.3%) were Pacific Peoples (Table 2). The only confirmed case reported last week was of Maori ethnicity.

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

Ethnicity (prioritised)	26 Sep-2 Oct 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Maori	4	1	0	3	0	24	12	9	3	2
Pacific Peoples	1	0	0	1	0	7	5	1	1	2
Other	0	0	0	0	1	7	6	1	0	1
European	11	0	2	9	0	186	128	43	15	14
Unknown	1	0	0	1	0	7	4	1	2	1
<b>Total</b>	<b>17</b>	<b>1</b>	<b>2</b>	<b>14</b>	<b>1</b>	<b>231</b>	<b>155</b>	<b>55</b>	<b>21</b>	<b>20</b>

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

### **Geographical distribution**

Of the 155 confirmed cases reported since 30 May 2009, 125 (80.6%) were reported from Canterbury DHB, 20 (12.9%) from the Auckland region (covered by Waitemata, Auckland and Counties Manukau DHBs), three (1.9%) each from Otago and Northland DHBs, two (1.3%) from Southland DHB, and one each (0.6%) from Bay of Plenty and Nelson Marlborough DHBs (Table 3). The only confirmed case reported last week was from Waitemata DHB.

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

DHB	26 Sep-2 Oct 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Northland	1	0	1	0	0	4	3	1	0	1
Waitemata	2	1	0	1	1	15	12	0	3	4
Auckland	1	0	0	1	0	7	6	0	1	0
Counties Manukau	2	0	0	2	0	6	2	2	2	0
Waikato	1	0	0	1	0	2	0	1	1	0
Lakes	0	0	0	0	0	0	0	0	0	0
Bay of Plenty	0	0	0	0	0	2	1	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	1	0	1	0	0
MidCentral	0	0	0	0	0	0	0	0	0	0
Hutt Valley	2	0	0	2	0	4	0	1	3	0
Capital and Coast	3	0	0	3	0	5	0	1	4	0
Wairarapa	0	0	0	0	0	3	0	2	1	0
Nelson Marlborough	0	0	0	0	0	1	1	0	0	0
West Coast	1	0	1	0	0	2	0	2	0	0
Canterbury	4	0	0	4	0	171	125	41	5	15
South Canterbury	0	0	0	0	0	1	0	1	0	0
Otago	0	0	0	0	0	4	3	0	1	0
Southland	0	0	0	0	0	3	2	1	0	0
<b>New Zealand Total</b>	<b>17</b>	<b>1</b>	<b>2</b>	<b>14</b>	<b>1</b>	<b>231</b>	<b>155</b>	<b>55</b>	<b>21</b>	<b>20</b>

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

### Immunisation status

The immunisation status, as reported to Public Health Service staff, for confirmed measles cases is shown in Table 4.

Immunisation status was unknown for the only confirmed case reported last week; but the case was eligible for vaccination.

Of the 155 confirmed cases reported since 30 May 2009, 146 (94.2%) reported a known vaccination status. Of these 146 cases, 84 were not vaccinated including 14 cases aged less than 15 months and therefore not eligible for vaccination. Thirty five cases had received one dose of vaccine which includes four cases aged less than 15 months who had received their first dose (due at 15 months) early and 19 cases aged 15 months to 3 years who were only eligible for one dose of vaccine. Eighteen cases reported having completed measles vaccination.

**Table 4 : Immunisation status of measles cases (confirmed) notified since 30 May 2009**

Age Group	Total cases	One dose	Two doses	Vaccination Status		Unknown
				Vaccinated (no dose info)	Not vaccinated	
<15mths	19	4	0	0	14	1
15mths-3yrs	30	19	1	0	9	1
4-9 yrs	22	2	3	0	17	0
10-19 yrs	63	7	12	4	38	2
20+ yrs	21	3	2	5	6	5
Unknown	0	0	0	0	0	0
<b>Total</b>	<b>155</b>	<b>35</b>	<b>18</b>	<b>9</b>	<b>84</b>	<b>9</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)