

# MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 18 September 2009. Data was extracted from EpiSurv at 10am 22 September 2009.

In the past week, 12 new cases of measles were notified. The notified cases consisted of four confirmed cases, six probable cases, and 2 cases under investigation. There was neither reported hospitalisation nor death. The distribution of cases by week since the 30 May 2009 is shown in Figure 1 below. Also this report includes distribution of cases by age, ethnicity (prioritised), district health board, and immunisation status.

## Temporal distribution of cases

Both confirmed cases and total notifications have decreased in the past week (Figure 1). The total number of confirmed ( $n = 149$ ) and probable cases ( $n = 49$ ) reported since 30 May 2009 is 198, including 18 hospitalisations. There have been no deaths reported.

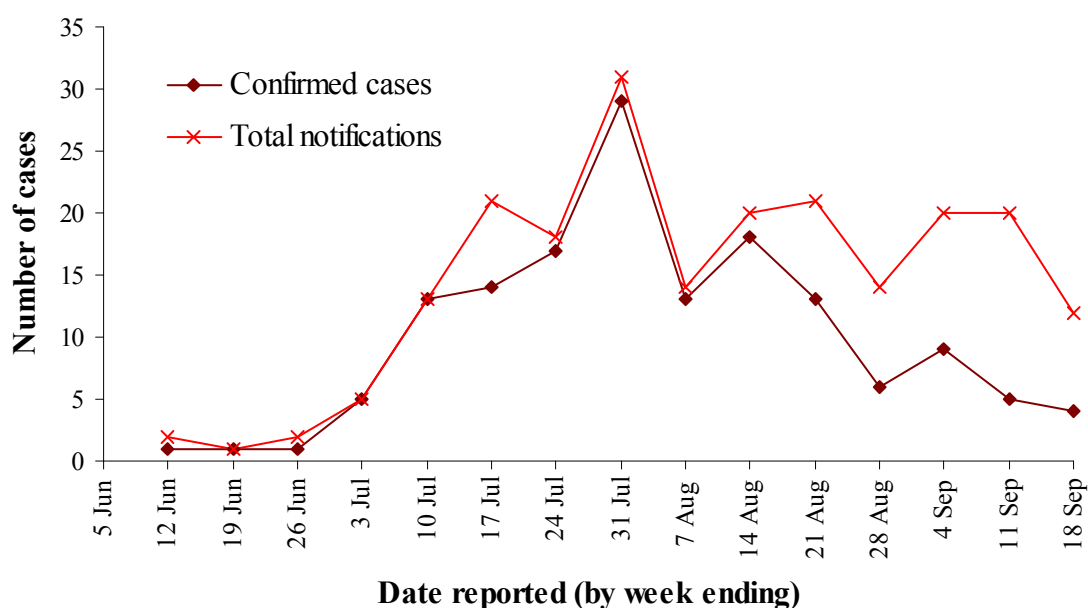


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

## Case Demographics

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

### Age group

Of the 149 confirmed cases reported with a known age since 30 May 2009, 65 (43.6%) were aged under 10 years old, 63 (42.3%) were aged 10-19 years of age, and 21 (14.1%) were aged 20 years or older. Of the four confirmed cases reported in the past week, two (50.0%) were aged under 10 years old, and two (50%) were aged 10-19 years of age. (Table 1).

Of the 149 confirmed cases reported with a known age since 30 May 2009, 76 (51.0%) were aged 12 months to 12 years and 40 (26.8%) were aged 13 years to 20 years.

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

Age Group	12 -18 September 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
<15mths	5	1	3	1	0	40	17	18	5	1
15mths-3yrs	4	1	2	1	0	52	27	21	4	4
4-9 yrs	1	0	1	0	0	27	21	3	3	0
10-19 yrs	2	2	0	0	0	71	63	6	2	6
20+ yrs	0	0	0	0	0	24	21	1	2	7
Unknown	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>12</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>214</b>	<b>149</b>	<b>49</b>	<b>16</b>	<b>18</b>
<i>12mths - 12yrs</i>	<i>9</i>	<i>3</i>	<i>5</i>	<i>1</i>	<i>0</i>	<i>115</i>	<i>76</i>	<i>32</i>	<i>7</i>	<i>4</i>
<i>13yrs - 20yrs</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>48</i>	<i>40</i>	<i>6</i>	<i>2</i>	<i>6</i>

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

### Ethnicity

Of the 146 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 125 (83.9%) were European, 10 (6.8%) cases were of Maori ethnicity, six (4.1%) were of Asian ethnicity and five (3.4%) were of Pacific Peoples ethnicity. All of the four confirmed cases reported last week were of European ethnicity (Table 2).

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

Ethnicity (prioritised)	12 -18 September 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Maori	3	0	2	1	0	21	10	9	2	1
Pacific Peoples	0	0	0	0	0	7	5	1	1	2
Asian	0	0	0	0	0	7	6	1	0	1
European	9	4	4	1	0	173	125	37	11	13
Unknown	0	0	0	0	0	6	3	1	2	1
<b>Total</b>	<b>12</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>214</b>	<b>149</b>	<b>49</b>	<b>16</b>	<b>18</b>

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

### Geographical distribution

Of the 149 confirmed cases reported since 30 May 2009, 123 (82.6%) were reported from Canterbury DHB, 19 (12.8%) from the Auckland region (covered by Waitemata, Auckland and Counties Manukau DHBs), three (2.0%) from Otago DHB, two (1.3%) from Southland DHB and one each (0.7%) from Northland and Nelson Marlborough DHBs (Table 3). All of the four confirmed cases reported last week were reported from Canterbury DHB.

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

DHB	12 -18 September 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	1	1	2	0
Waitemata	0	0	0	0	0	13	11	0	2	3
Auckland	0	0	0	0	0	8	6	0	2	0
Counties Manukau	1	0	1	0	0	4	2	2	0	0
Waikato	0	0	0	0	0	1	0	1	0	0
Lakes	0	0	0	0	0	0	0	0	0	0
Bay of Plenty	0	0	0	0	0	2	0	1	1	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	1	0	0	1	0	2	0	1	1	0
Capital and Coast	1	0	1	0	0	2	0	1	1	0
Wairarapa	1	0	1	0	0	1	0	1	0	0
Nelson Marlborough	0	0	0	0	0	1	1	0	0	0
West Coast	0	0	0	0	0	0	0	0	0	0
Canterbury	7	4	2	1	0	165	123	38	4	15
South Canterbury	0	0	0	0	0	2	0	1	1	0
Otago	0	0	0	0	0	4	3	0	1	0
Southland	0	0	0	0	0	4	2	1	1	0
<b>New Zealand Total</b>	<b>12</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>214</b>	<b>149</b>	<b>49</b>	<b>16</b>	<b>18</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 and Table 5.

Vaccination status was known for all the four confirmed measles cases reported in the past week. Of these four cases, one case was not vaccinated but was aged less than 15 months old and thus was not eligible for vaccination. One case, aged 15 months to 3 years, had received one dose of vaccine as appropriate for their age, and two cases reported having completed measles vaccination.

**Table 4 : Immunisation status of measles cases (confirmed) notified last week**

Age Group	Total cases	One dose	Two doses	Vaccinated	Not	Unknown
				(no dose info)	vaccinated	
<15mths	1	0	0	0	1	0
15mths-3yrs	1	1	0	0	0	0
4-9 yrs	0	0	0	0	0	0
10-19 yrs	2	0	2	0	0	0
20+ yrs	0	0	0	0	0	0
Unknown	0	0	0	0	0	0
<b>Total</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>

Of the 149 confirmed cases reported since 30 May 2009, 142 (95.3%) reported a known vaccination status. Of these 142 cases, 83 were not vaccinated including 14 cases aged less than 15 months and therefore not eligible for vaccination. Thirty three cases had received one dose of vaccine which includes three cases aged less than 15 months who had received their first dose (due at 15 months) early and 18 cases aged 15 months to 3 years who were only eligible for one dose of vaccine. Seventeen cases reported having completed measles vaccination.

**Table 5 : Immunisation status of measles cases (confirmed) notified since 30 May 2009**

Age Group	Total cases	One dose	Two doses	Vaccinated (no dose info)	Not vaccinated	Unknown
<15mths	17	3	0	0	14	0
15mths-3yrs	27	18	1	0	8	0
4-9 yrs	21	2	2	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>	149	33	17	9	83	7

**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)