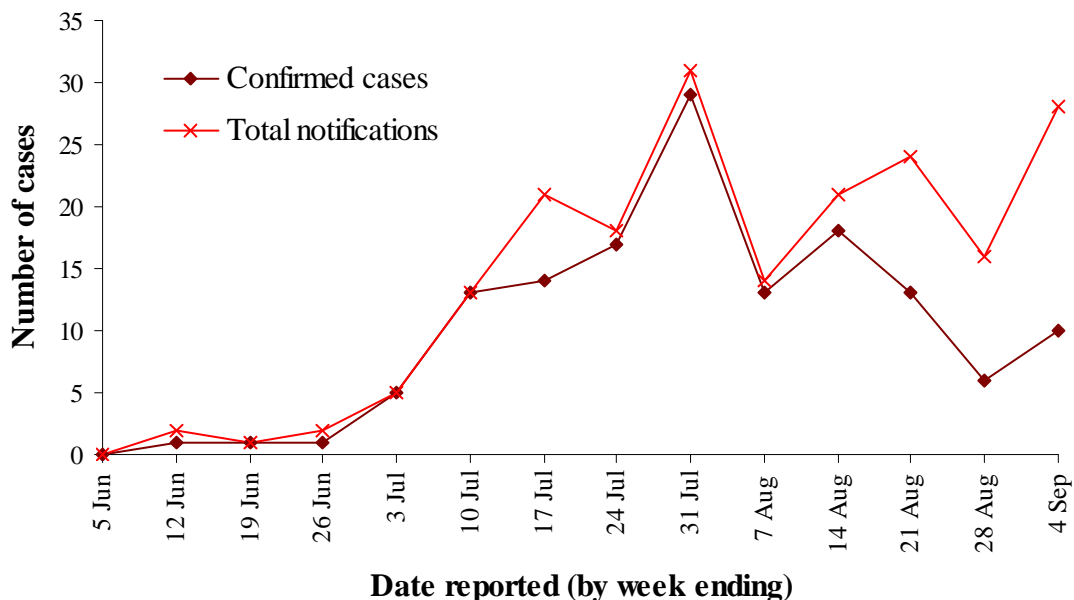


# MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 4 September 2009. Data was extracted from EpiSurv at 10am 8 September 2009.

In the past week, 28 new cases of measles were notified. The notified cases consisted of 10 confirmed cases, three probable cases, and 15 cases under investigation. Of the 13 confirmed and probable cases there was one reported hospitalisation and no reported deaths. The distribution of cases by week since the 30 May 2009 is shown in Figure 1 below. The distribution of cases by age, ethnicity (prioritised), district health board and immunisation status is shown in the tables following this chart.

The total number of confirmed and probable cases reported since 30 May 2009 is 169, including 17 hospitalised cases. There have been no deaths reported.



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

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

Of the 140 confirmed cases reported with a known age since 30 May 2009, 61 (43.6%) were aged 10-19 years of age, 57 (40.7%) were aged under 10 years old and 22 (15.7%) were aged 20 years or older. One confirmed case was of unknown age. Of the 10 confirmed cases reported in the past week with a known age, four (40.0%) were aged 10-19 years of age, three (30.0%) were aged under 10 years old and three (30.0%) were aged 20 years or older (Table 1).

Of the 140 confirmed cases reported with a known age since 30 May 2009, 68 (48.6%) were aged 12 months to 12 years and 40 (28.6%) were aged 13 years to 20 years. Five (50.0%) of

the 10 confirmed cases reported in the past week where age was known were aged 12 months to 12 years, and two (20.0%) were aged 13 to 20 years.

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

Age Group	29 August - 4 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	8	0	1	7	0	34	15	8	11	1
15mths-3yrs	4	1	1	2	1	44	24	15	5	3
4-9 yrs	5	2	0	3	0	24	18	1	5	0
10-19 yrs	7	4	1	2	0	68	61	4	3	6
20+ yrs	4	3	0	1	0	25	22	0	3	7
Unknown	0	0	0	0	0	1	1	0	0	0
<b>Total</b>	<b>28</b>	<b>10</b>	<b>3</b>	<b>15</b>	<b>1</b>	<b>196</b>	<b>141</b>	<b>28</b>	<b>27</b>	<b>17</b>
<i>12mths - 12yrs</i>	<i>14</i>	<i>5</i>	<i>1</i>	<i>8</i>	<i>1</i>	<i>98</i>	<i>68</i>	<i>17</i>	<i>13</i>	<i>3</i>
<i>13yrs - 20yrs</i>	<i>5</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>0</i>	<i>48</i>	<i>40</i>	<i>4</i>	<i>4</i>	<i>6</i>

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

Of the 137 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 115 (83.9%) were European, 10 cases were of Maori ethnicity, seven were of Asian ethnicity and five were of Pacific Peoples ethnicity. Of the nine confirmed cases reported last week with a known ethnicity, seven (77.8%) were of European ethnicity, one (11.1%) was of Pacific Peoples ethnicity and one (11.1%) was of Asian ethnicity (Table 2).

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

Ethnicity (prioritised)	29 August - 4 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	1	2	0	15	10	3	2	1
Pacific Peoples	1	1	0	0	0	6	5	1	0	2
Asian	1	1	0	0	0	7	7	0	0	1
European	21	7	2	12	1	159	115	23	21	12
Unknown	2	1	0	1	0	9	4	1	4	1
<b>Total</b>	<b>28</b>	<b>10</b>	<b>3</b>	<b>15</b>	<b>1</b>	<b>196</b>	<b>141</b>	<b>28</b>	<b>27</b>	<b>17</b>

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

Of the 141 confirmed cases reported since 30 May 2009, 115 (81.6%) were reported from Canterbury DHB, 20 (14.2%) from the Auckland region (covered by Waitemata, Auckland and Counties Manukau DHBs), three from Otago DHB (2.1%) and one each (0.7%) from Northland, Nelson Marlborough and Southland DHBs (Table 3). Of the 10 confirmed cases reported last week, nine (90.0%) were reported from Canterbury DHB and one (10.0%) from Waitemata DHB.

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

DHB	29 August - 4 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	0	1	0	3	1	0	2	0
Waitemata	2	1	0	1	0	15	12	0	3	3
Auckland	0	0	0	0	0	6	6	0	0	0
Counties Manukau	1	0	0	1	0	4	2	1	1	0
Waikato	0	0	0	0	0	1	0	1	0	0
Lakes	0	0	0	0	0	1	0	0	1	0
Bay of Plenty	2	0	1	1	0	3	0	1	2	0
Taranaki	0	0	0	0	0	2	0	2	0	0
Whanganui	0	0	0	0	0	1	0	1	0	0
Hutt Valley	2	0	0	2	0	2	0	0	2	0
Capital and Coast	1	0	0	1	0	1	0	0	1	0
Nelson Marlborough	2	0	0	2	0	3	1	0	2	0
Canterbury	16	9	2	5	1	144	115	21	8	14
South Canterbury	0	0	0	0	0	1	0	1	0	0
Otago	0	0	0	0	0	4	3	0	1	0
Southland	1	0	0	1	0	5	1	0	4	0
<b>New Zealand Total</b>	<b>28</b>	<b>10</b>	<b>3</b>	<b>15</b>	<b>1</b>	<b>196</b>	<b>141</b>	<b>28</b>	<b>27</b>	<b>17</b>

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

The immunisation status for confirmed and probable measles cases is shown in Table 4 and Table 5.

Of the 13 confirmed and probable measles cases reported in the past week, 10 (76.9%) had a known vaccination status. Of these 10 cases, four cases were not vaccinated although this includes one measles case aged less than 15 months old who was not eligible for vaccination. Four cases had received only one dose of vaccine, however, one of these cases was aged 15 months to 3 years and therefore only eligible for one dose of vaccine. Two cases reported having completed measles vaccination.

**Table 4 : Immunisation status of measles cases (confirmed and probable) 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	2	1	0	0	1	0
4-9 yrs	2	1	0	0	1	0
10-19 yrs	5	1	2	0	1	1
20+ yrs	3	1	0	0	0	2
Unknown	0	0	0	0	0	0
<b>Total</b>	<b>13</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>3</b>

Of the 169 confirmed and probable cases reported since 30 May 2009, 160 (94.7%) had a known vaccination status. Of these 160 cases, 93 were not vaccinated including 20 cases aged less than 15 months and therefore not eligible for vaccination. Forty one 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 26 cases aged 15 months to 3 years who were only eligible for one dose of vaccine. Fifteen cases reported having completed measles vaccination.

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

Age Group	Total cases	One dose	Two doses	Vaccinated	Not	Unknown
				(no dose info)	vaccinated	
<15mths	23	3	0	0	20	0
15mths-3yrs	39	26	0	2	10	1
4-9 yrs	19	2	1	0	16	0
10-19 yrs	65	7	12	4	40	2
20+ yrs	22	3	2	5	6	6
Unknown	1	0	0	0	1	0
<b>Total</b>	<b>169</b>	<b>41</b>	<b>15</b>	<b>11</b>	<b>93</b>	<b>9</b>

**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

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