

MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 11 September 2009. Data was extracted from EpiSurv at 10am 15 September 2009.

In the past week, 29 new cases of measles were notified. The notified cases consisted of four confirmed cases, seven probable cases, and 18 cases under investigation. Of the 11 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 182, including 18 hospitalised cases. There have been no deaths reported.

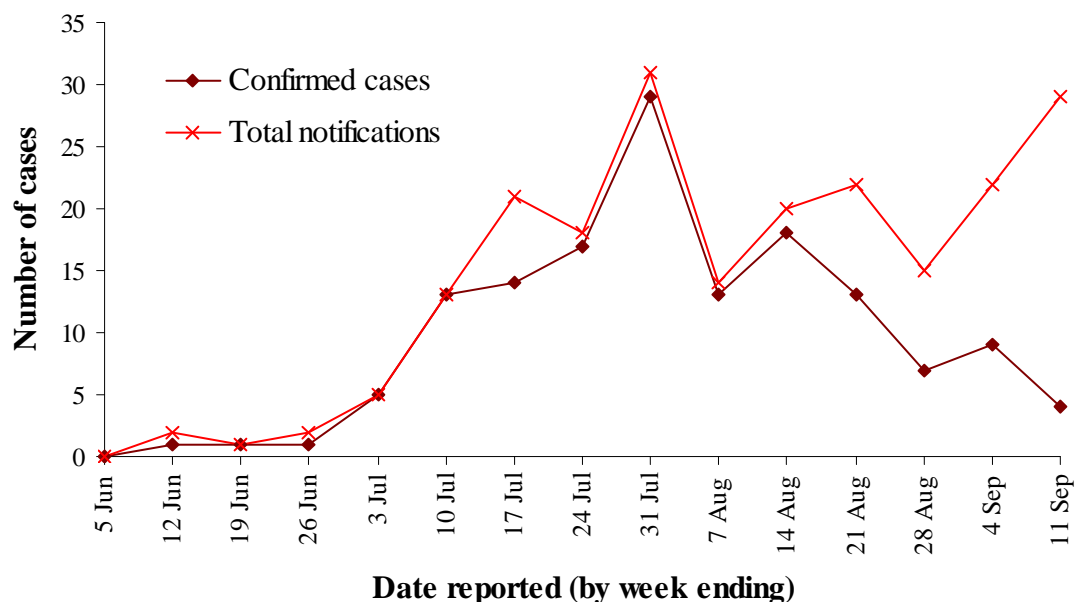


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

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

Of the 144 confirmed cases reported with a known age since 30 May 2009, 62 (43.1%) were aged under 10 years old, 61 (42.4%) were aged 10-19 years of age, and 21 (14.6%) were aged 20 years or older. One confirmed case was of unknown age. Of the four confirmed cases reported in the past week with a known age, all (100.0%) were aged under 10 years old (Table 1).

Of the 144 confirmed cases reported with a known age since 30 May 2009, 84 (58.3%) were aged 12 months to 12 years and 40 (27.8%) were aged 13 years to 20 years. All (100.0%) of the four confirmed cases reported in the past week where age was known were aged 12 months to 12 years.

Table 1 : Age distribution of measles cases and hospitalisations

| Age Group | 5 - 11 September 2009 | | | | | Cumulative total since 30 May 2009 | | | | |
|-----------------------|-----------------------|----------|----------|-----------|-------------------|------------------------------------|------------|-----------|-----------|-------------------|
| | Total | Conf | Prob | Other | Hosp ¹ | Total | Conf | Prob | Other | Hosp ¹ |
| <15mths | 11 | 1 | 3 | 7 | 0 | 39 | 17 | 12 | 10 | 1 |
| 15mths-3yrs | 9 | 2 | 2 | 5 | 1 | 51 | 26 | 17 | 8 | 4 |
| 4-9 yrs | 3 | 1 | 0 | 2 | 0 | 27 | 19 | 1 | 7 | 0 |
| 10-19 yrs | 3 | 0 | 2 | 1 | 0 | 70 | 61 | 7 | 2 | 6 |
| 20+ yrs | 3 | 0 | 0 | 3 | 0 | 27 | 21 | 0 | 6 | 7 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Total | 29 | 4 | 7 | 18 | 1 | 215 | 145 | 37 | 33 | 18 |
| <i>12mths - 12yrs</i> | <i>23</i> | <i>4</i> | <i>5</i> | <i>14</i> | <i>1</i> | <i>140</i> | <i>84</i> | <i>31</i> | <i>25</i> | <i>5</i> |
| <i>13yrs - 20yrs</i> | <i>3</i> | <i>0</i> | <i>2</i> | <i>1</i> | <i>0</i> | <i>50</i> | <i>40</i> | <i>6</i> | <i>4</i> | <i>6</i> |

¹ Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

Of the 142 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 120 (84.5%) were European, 10 cases were of Maori ethnicity, seven were of Asian ethnicity and five were of Pacific Peoples ethnicity. Of the four confirmed cases reported last week with a known ethnicity, all (100.0%) were of European ethnicity (Table 2).

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

| Ethnicity (prioritised) | 5 - 11 September 2009 | | | | | Cumulative total since 30 May 2009 | | | | |
|----------------------------|-----------------------|----------|----------|-----------|-------------------|------------------------------------|------------|-----------|-----------|-------------------|
| | Total | Conf | Prob | Other | Hosp ¹ | Total | Conf | Prob | Other | Hosp ¹ |
| Maori | 5 | 0 | 3 | 2 | 0 | 20 | 10 | 7 | 3 | 1 |
| Pacific Peoples | 1 | 0 | 0 | 1 | 0 | 7 | 5 | 1 | 1 | 2 |
| Asian | 2 | 0 | 0 | 2 | 0 | 9 | 7 | 0 | 2 | 1 |
| European | 18 | 4 | 4 | 10 | 1 | 171 | 120 | 28 | 23 | 13 |
| Unknown | 3 | 0 | 0 | 3 | 0 | 8 | 3 | 1 | 4 | 1 |
| Total | 29 | 4 | 7 | 18 | 1 | 215 | 145 | 37 | 33 | 18 |

¹ Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

Of the 145 confirmed cases reported since 30 May 2009, 119 (82.1%) were reported from Canterbury DHB, 19 (13.1%) from the Auckland region (covered by Waitemata, Auckland and Counties Manukau DHBs), three (2.1%) from Otago DHB, two (1.4%) from Southland DHB and one each (0.7%) from Northland and Nelson Marlborough DHBs (Table 3). Of the four confirmed cases reported last week, all (100.0%) were reported from Canterbury DHB.

Table 3 : Geographical distribution of measles cases and hospitalisations

| DHB | 5 - 11 September 2009 | | | | | Cumulative total since 30 May 2009 | | | | |
|--------------------------|-----------------------|----------|----------|-----------|-------------------|------------------------------------|------------|-----------|-----------|-------------------|
| | Total | Conf | Prob | Other | Hosp ¹ | Total | Conf | Prob | Other | Hosp ¹ |
| Northland | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 2 | 0 |
| Waitemata | 0 | 0 | 0 | 0 | 0 | 13 | 11 | 0 | 2 | 3 |
| Auckland | 4 | 0 | 0 | 4 | 0 | 10 | 6 | 0 | 4 | 0 |
| Counties Manukau | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 0 |
| Waikato | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Lakes | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| Bay of Plenty | 1 | 0 | 0 | 1 | 0 | 4 | 0 | 1 | 3 | 0 |
| Whanganui | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Hutt Valley | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 1 | 0 |
| Capital and Coast | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 0 |
| Nelson Marlborough | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Canterbury | 20 | 4 | 6 | 10 | 1 | 164 | 119 | 30 | 15 | 15 |
| South Canterbury | 1 | 0 | 0 | 1 | 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 |
| New Zealand Total | 29 | 4 | 7 | 18 | 1 | 215 | 145 | 37 | 33 | 18 |

¹ 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 11 confirmed and probable measles cases reported in the past week, all (100.0%) had a known vaccination status. Of these 11 cases, three cases were not vaccinated although these cases were aged less than 15 months old and were not eligible for vaccination. Seven cases had received only one dose of vaccine, however, one of these cases was aged less than 15 months and had received their first dose (due at 15 months) early and four cases were aged 15 months to 3 years and therefore only eligible for one dose of vaccine. One case 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 | 4 | 1 | 0 | 0 | 3 | 0 |
| 15mths-3yrs | 4 | 4 | 0 | 0 | 0 | 0 |
| 4-9 yrs | 1 | 1 | 0 | 0 | 0 | 0 |
| 10-19 yrs | 2 | 1 | 1 | 0 | 0 | 0 |
| 20+ yrs | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 11 | 7 | 1 | 0 | 3 | 0 |

Of the 182 confirmed and probable cases reported since 30 May 2009, 174 (95.6%) had a known vaccination status. Of these 174 cases, 99 were not vaccinated including 25 cases aged less than 15 months and therefore not eligible for vaccination. Forty seven 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 29 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 and probable) notified since 30 May 2009

| Age Group | Total cases | One dose | Two doses | Vaccinated | Not | Unknown |
|--------------|-------------|-----------|-----------|----------------|------------|----------|
| | | | | (no dose info) | vaccinated | |
| <15mths | 29 | 4 | 0 | 0 | 25 | 0 |
| 15mths-3yrs | 43 | 29 | 0 | 2 | 11 | 1 |
| 4-9 yrs | 20 | 3 | 1 | 0 | 16 | 0 |
| 10-19 yrs | 68 | 8 | 14 | 4 | 40 | 2 |
| 20+ yrs | 21 | 3 | 2 | 5 | 6 | 5 |
| Unknown | 1 | 0 | 0 | 0 | 1 | 0 |
| Total | 182 | 47 | 17 | 11 | 99 | 8 |

| | |
|-----------------------------|---|
| Case classification: | |
| Confirmed | A clinically compatible illness that is epidemiologically linked to a confirmed case or is laboratory confirmed |
| Probable | A clinically compatible illness with all of the following symptoms: <ul style="list-style-type: none"> • a fever $\geq 38^{\circ}\text{C}$ • a generalised maculopapular rash lasting three or more days • cough, or coryza, or conjunctivitis, or Koplik spots |
| Other | 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