

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 26 August 2011. Data were extracted from EpiSurv at 10 am, 30 August 2011.

In the last week, three new measles cases (16 cases the previous week) were notified from three District Health Boards (DHBs), Northland, Waikato and Bay of Plenty, respectively. Of these notifications, one was confirmed, and two are still under investigation. There have been 204 cases of measles reported in EpiSurv since January 2011 (compared to 43 cases reported the same time last year), including 190 confirmed cases, five probable cases and nine cases are still under investigation. These were reported mainly from the Auckland region (68.1% of total cases), Waikato (12.7%) and Hawke's Bay (11.8%). DHBs reporting cases include Waitemata (106 cases), Waikato (26 cases), Hawke's Bay (24 cases), Auckland (19 cases), Counties Manukau (14 cases), Canterbury (8 cases), Northland (3 cases), Bay of Plenty, Hutt Valley, Capital and Coast, and Southern DHBs (one case each).

This report incorporates the temporal distribution of cases, since January 2011, 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

Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been three cases notified in the last week (16 the previous week). Weekly notifications have been decreasing in the last four weeks ending 26 August with a substantial fall in the last week. Of the 204 notifications since the beginning of 2011, 20 have been hospitalised. There have been no reported deaths.

Figure 1 : Weekly distribution of measles notifications by week reported

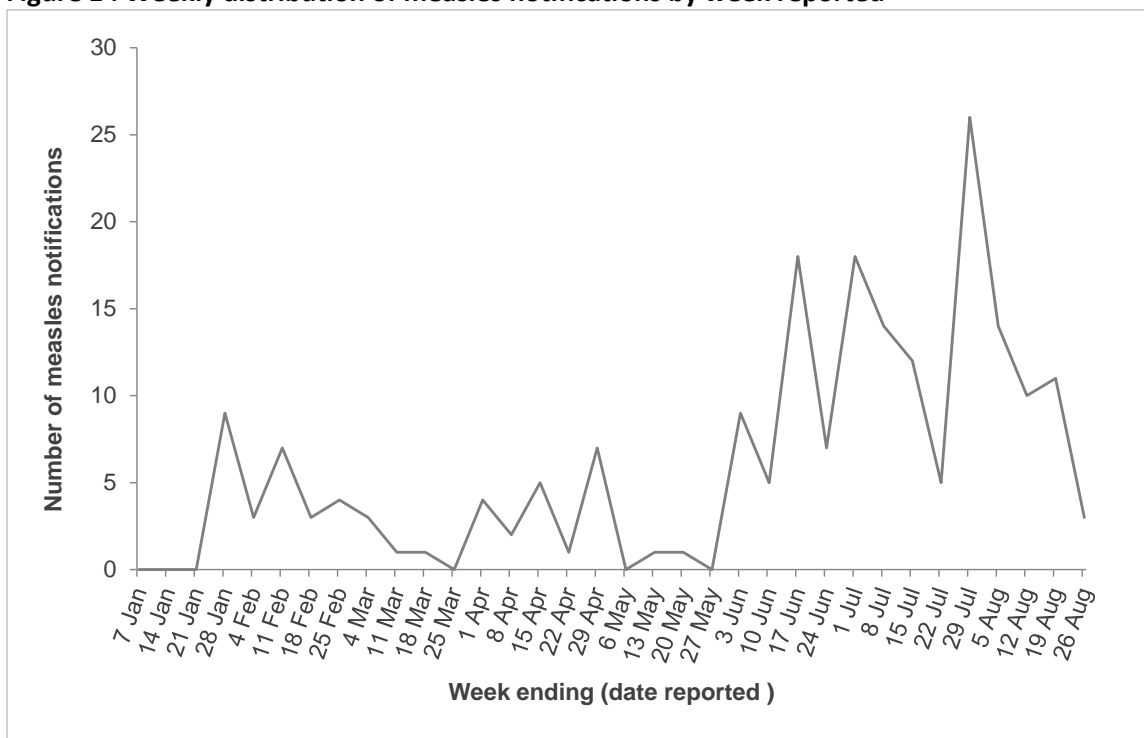
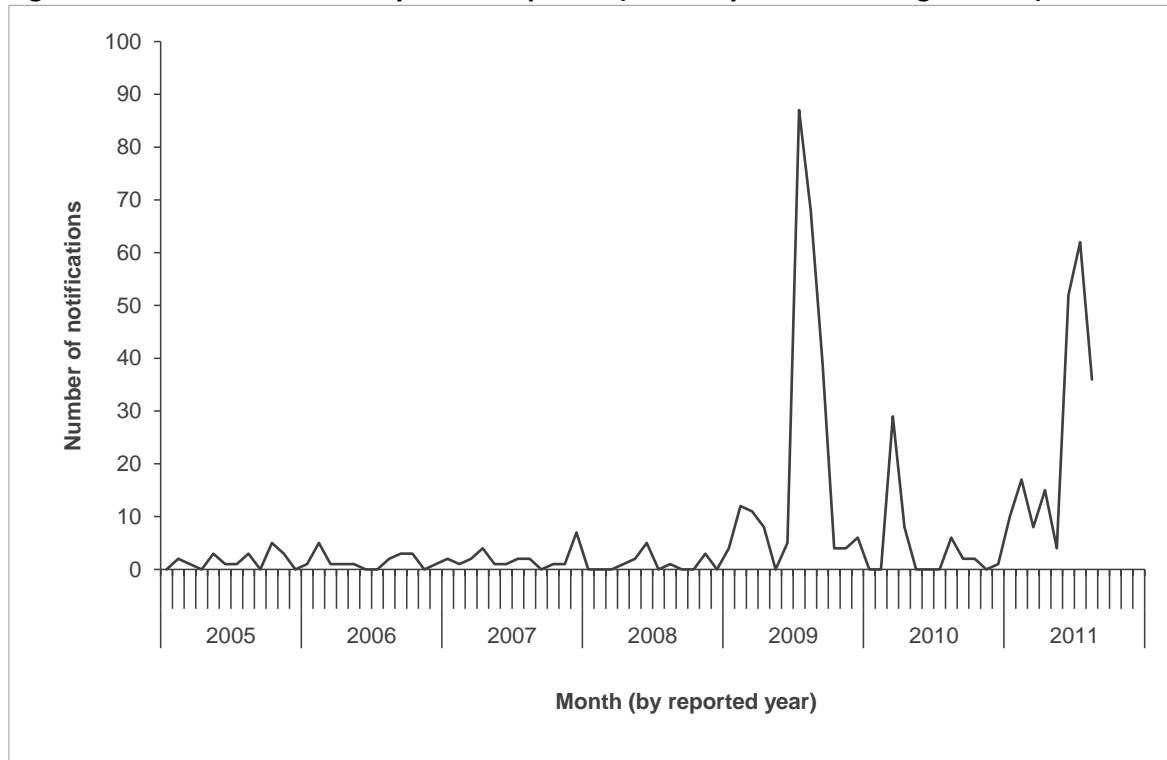


Figure 2 Measles notifications by month reported (1 January 2005 to 26 August 2011)

The onset dates were recorded for the three measles cases notified in the last week, and earliest date was 15 August 2011. Although reporting of onset dates is not always complete, 172 notifications (of 204) since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 23 August, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 190 confirmed cases with a known age reported since 1 January 2011, 88 (46.3%) were aged under 10 years, 71 (37.4%) were aged 10 to 19 years, and 31 (16.3%) were aged 20 years or older while 15 (7.9%) were aged under 15 months.

Of the 190 cases, 95 (50.0%) were aged 12 months to 12 years and 58 (30.5%) were aged 13 years to 20 years.

Table 1: Age distribution of measles cases and hospitalisations, 2011

| Age Group | 20-26 August 2011 | | | | | Cumulative total since 1 Jan 2011 | | | | |
|----------------|-------------------|----------|----------|----------|-------------------|-----------------------------------|------------|----------|----------|-------------------|
| | Total | Conf | Prob | Other | Hosp ¹ | Total | Conf | Prob | Other | Hosp ¹ |
| <15mths | 1 | 1 | 0 | 0 | 0 | 19 | 15 | 3 | 1 | 5 |
| 15mths-3yrs | 0 | 0 | 0 | 0 | 0 | 26 | 22 | 1 | 3 | 1 |
| 4-9 yrs | 2 | 0 | 0 | 2 | 0 | 56 | 51 | 1 | 4 | 2 |
| 10-19 yrs | 0 | 0 | 0 | 0 | 0 | 72 | 71 | 0 | 1 | 4 |
| 20+ yrs | 0 | 0 | 0 | 0 | 0 | 31 | 31 | 0 | 0 | 8 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 3 | 1 | 0 | 2 | 0 | 204 | 190 | 5 | 9 | 20 |
| 12mths - 12yrs | 3 | 1 | 0 | 2 | 0 | 106 | 95 | 2 | 9 | 4 |
| 13yrs - 20yrs | 0 | 0 | 0 | 0 | 0 | 58 | 58 | 0 | 0 | 4 |

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

Conf: confirmed, **Prob:** probable, **Hosp:** hospitalised

Of the 180 confirmed cases with a known ethnicity reported since 1 January 2011, 121 (67.2%) were European, 47 (26.1%) were Maori, 10 (5.6%) were Pacific Peoples, and two (1.1%) were in the "Other" ethnic groups (Table 2). The confirmed case reported in the last week was of European ethnicity. Hospitalisations by ethnicity are also depicted in Table 2.

Table 2 : Ethnic (prioritised) distribution of measles cases and hospitalisations, 2011

| Ethnicity (prioritised) | 20-26 August 2011 | | | | | Cumulative total since 1 Jan 2011 | | | | |
|----------------------------|-------------------|----------|----------|----------|-------------------|-----------------------------------|------------|----------|----------|-------------------|
| | Total | Conf | Prob | Other | Hosp ¹ | Total | Conf | Prob | Other | Hosp ¹ |
| Maori | 0 | 0 | 0 | 0 | 0 | 50 | 47 | 1 | 2 | 6 |
| Pacific Peoples | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 0 | 0 | 2 |
| Other | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 |
| European | 3 | 1 | 0 | 2 | 0 | 130 | 121 | 3 | 6 | 10 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 12 | 10 | 1 | 1 | 1 |
| Total | 3 | 1 | 0 | 2 | 0 | 204 | 190 | 5 | 9 | 20 |

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

Geographic distribution

Of the 190 confirmed cases reported since 1 January, 105 (55.3%) were reported from Waitemata, 24 (12.6%) from Hawke's Bay, 21 (11.1%) from Waikato, 19 (10.0%) from Auckland, 14 (7.4%) from Counties Manukau, four (2.1%) from Canterbury, and one each (0.5%) from Northland, Capital and Coast, and Hutt Valley DHBs.

The confirmed case in the last week was reported from Waikato DHB.

Table 3 : Geographical distribution of measles cases and hospitalisations, 2011

| DHB | 20-26 August 2011 | | | | | Cumulative total since 1 Jan 2011 | | | | |
|--------------------------|-------------------|----------|----------|----------|-------------------|-----------------------------------|------------|----------|----------|-------------------|
| | Total | Conf | Prob | Other | Hosp ¹ | Total | Conf | Prob | Other | Hosp ¹ |
| Northland | 1 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 2 | 0 |
| Waitemata | 0 | 0 | 0 | 0 | 0 | 106 | 105 | 1 | 0 | 10 |
| Auckland | 0 | 0 | 0 | 0 | 0 | 19 | 19 | 0 | 0 | 3 |
| Counties Manukau | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 3 |
| Waikato | 1 | 1 | 0 | 0 | 0 | 26 | 21 | 1 | 4 | 1 |
| Lakes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bay of Plenty | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 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 | 24 | 24 | 0 | 0 | 3 |
| Whanganui | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MidCentral | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hutt Valley | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Capital and Coast | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Wairarapa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nelson 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 | 8 | 4 | 3 | 1 | 0 |
| South Canterbury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| New Zealand Total | 3 | 1 | 0 | 2 | 0 | 204 | 190 | 5 | 9 | 20 |

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

Immunisation status

Immunisation status of the confirmed cases, as recorded in EpiSurv, is shown in Table 4. Of the 190 confirmed cases reported since January 2011, 174 (91.6%) had a known vaccination status. Of these 174 cases, 154 were not vaccinated including the 13 cases aged less than 15 months and therefore not eligible for vaccination. Eighteen cases had received one dose of vaccine, one case had completed their second dose, and one case was vaccinated but no dose information was recorded.

Table 4: Immunisation status of measles cases (confirmed) notified since 1 January 2011

| Age Group | Total cases | One dose | Two doses | Vaccinated (no dose info) | Not vaccinated | Unknown |
|--------------|-------------|-----------|-----------|---------------------------|----------------|-----------|
| <15mths | 15 | 2 | 0 | 0 | 13 | 0 |
| 15mths-3yrs | 22 | 4 | 0 | 0 | 18 | 0 |
| 4-9 yrs | 51 | 5 | 0 | 1 | 44 | 1 |
| 10-19 yrs | 71 | 5 | 1 | 0 | 60 | 5 |
| 20+ yrs | 31 | 2 | 0 | 0 | 19 | 10 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 190 | 18 | 1 | 1 | 154 | 16 |

Appendix

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 will be available online from www.surv.esr.cri.nz