

MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 21 August 2009. Data was extracted from EpiSurv at 10am 25 August 2009.

In the past week, 33 new cases of measles were notified. The notified cases consisted of 11 confirmed cases, seven probable cases, and 15 cases under investigation. Of the 18 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 145, including 16 hospitalised cases. There have been no deaths reported.

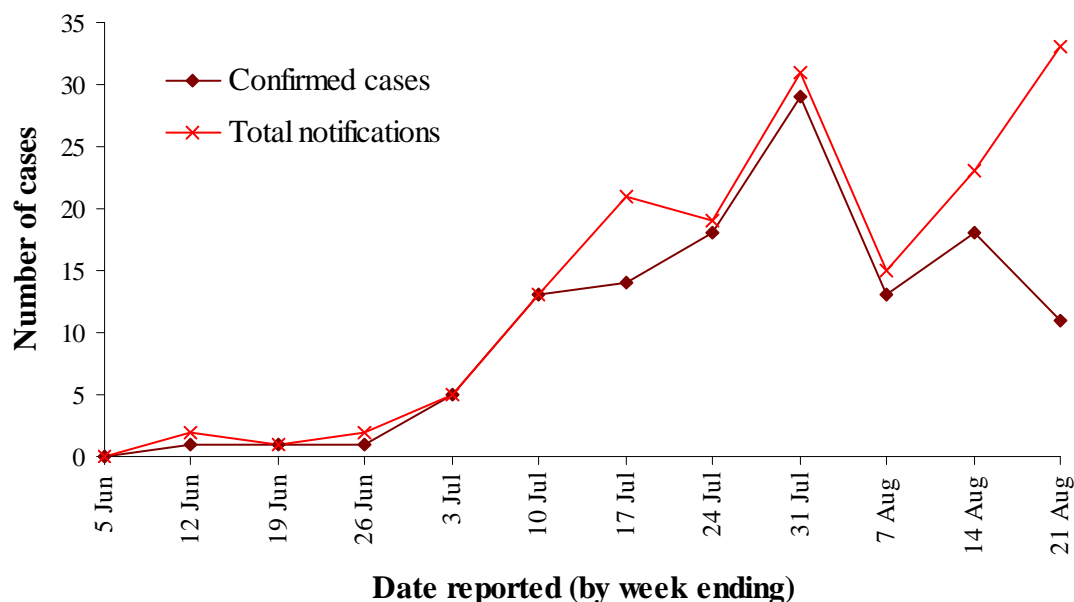


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

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

Of the 122 confirmed cases reported with a known age since 30 May 2009, 57 (46.7%) were aged 10-19 years of age, 47 (38.5%) were aged under 10 years old and 18 (14.8%) were aged 20 years or older. Two confirmed cases were of unknown age. Of the 11 confirmed cases reported in the past week with a known age, 6 (54.5%) were aged 0-9 years, four (36.4%) were aged 10-19 years, and one (9.1%) was aged 20 years or older (Table 1).

Of the 122 confirmed cases reported with a known age since 30 May 2009, 67 (54.9%) were aged 12 months to 12 years. Seven (63.6%) of the 11 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	15 - 21 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	10	2	3	5	0	25	14	4	7	1
15mths-3yrs	14	2	4	8	0	40	18	13	9	2
4-9 yrs	3	2	0	1	0	19	15	2	2	0
10-19 yrs	4	4	0	0	0	60	57	2	1	6
20+ yrs	2	1	0	1	1	19	18	0	1	7
Unknown	0	0	0	0	0	2	2	0	0	0
Total	33	11	7	15	1	165	124	21	20	16

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

Of the 117 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 99 (84.6%) were European, 10 cases were of Maori ethnicity, four were of Pacific Peoples ethnicity and four were of Asian ethnicity. Of the 10 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)	15 - 21 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	3	0	1	2	0	13	10	1	2	1
Pacific Peoples	1	0	1	0	0	7	4	2	1	2
Asian	2	0	0	2	0	6	4	0	2	1
European	23	10	3	10	1	128	99	15	14	10
Other	1	0	1	0	0	1	0	1	0	0
Unknown	3	1	1	1	0	10	7	2	1	2
Total	33	11	7	15	1	165	124	21	20	16

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

Of the 124 confirmed cases reported since 30 May 2009, 99 (79.8%) were reported from Canterbury DHB, 20 (16.1%) from the Auckland region (covered by the Waitemata, Auckland and Counties Manukau DHBs), three from Otago DHB (2.4%) and one each (0.8%) from Northland and Southland DHBs (Table 3). Of the 11 confirmed cases reported last week, six (54.5%) were reported from Canterbury DHB and five (45.5%) from the Auckland region.

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	15 - 21 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Northland	1	0	0	1	0	3	1	0	2	0
Waitemata	4	2	0	2	0	14	12	0	2	3
Auckland	4	3	0	1	0	7	6	0	1	0
Counties Manukau	1	0	1	0	0	5	2	2	1	0
Waikato	0	0	0	0	0	1	0	1	0	0
Lakes	1	0	0	1	0	2	0	0	2	0
Bay of Plenty	0	0	0	0	0	1	0	0	1	0
Taranaki	2	0	0	2	0	2	0	0	2	0
Whanganui	0	0	0	0	0	1	0	1	0	0
Hutt Valley	1	0	0	1	0	2	0	1	1	0
Capital and Coast	1	0	1	0	0	1	0	1	0	0
Nelson Marlborough	1	0	0	1	0	1	0	0	1	0
West Coast	1	0	1	0	0	2	0	2	0	0
Canterbury	15	6	4	5	1	117	99	12	6	13
South Canterbury	0	0	0	0	0	1	0	1	0	0
Otago	1	0	0	1	0	4	3	0	1	0
Southland	0	0	0	0	0	1	1	0	0	0
New Zealand Total	33	11	7	15	1	165	124	21	20	16

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 18 confirmed and probable measles cases reported in the past week, 17 (94.4%) had a known vaccination status. Of these 17 cases, seven cases were not vaccinated although this includes three measles cases aged less than 15 months old who were not eligible for vaccination. Nine cases had received only one dose of vaccine, however, two of these cases were aged less than 15 months and had received their first dose (due at 15 months) early and four additional cases were aged 15 months to 3 years and therefore only eligible for one dose of vaccine. No 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	5	2	0	0	3	0
15mths-3yrs	6	4	0	1	0	1
4-9 yrs	2	0	0	0	2	0
10-19 yrs	4	3	0	0	1	0
20+ yrs	1	0	0	0	1	0
Unknown	0	0	0	0	0	0
Total	18	9	0	1	7	1

Of the 145 confirmed and probable cases reported since 30 May 2009, 135 (93.1%) had a known vaccination status. Of these 135 cases, 84 were not vaccinated including 16 cases aged less than 15 months and therefore not eligible for vaccination. Twenty seven cases had received one dose of vaccine which includes two cases aged less than 15 months who had received their first dose (due at 15 months) early and 17 cases aged 15 months to 3 years who were only eligible for one dose of vaccine. Eleven 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 (no dose info)	Not vaccinated	Unknown
<15mths	18	2	0	0	16	0
15mths-3yrs	31	17	0	2	9	3
4-9 yrs	17	1	1	0	14	1
10-19 yrs	59	5	9	6	37	2
20+ yrs	18	2	1	5	6	4
Unknown	2	0	0	0	2	0
Total	145	27	11	13	84	10

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