

MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 14 August 2009. Data was extracted from EpiSurv at 10am 18 August 2009.

In the past week, 33 new cases of measles were notified. The notified cases consisted of 14 confirmed cases, six probable cases, and 13 cases under investigation. Of the 20 confirmed and probable cases there were two reported hospitalisations 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 127, including 14 hospitalised cases. There have been no deaths reported.

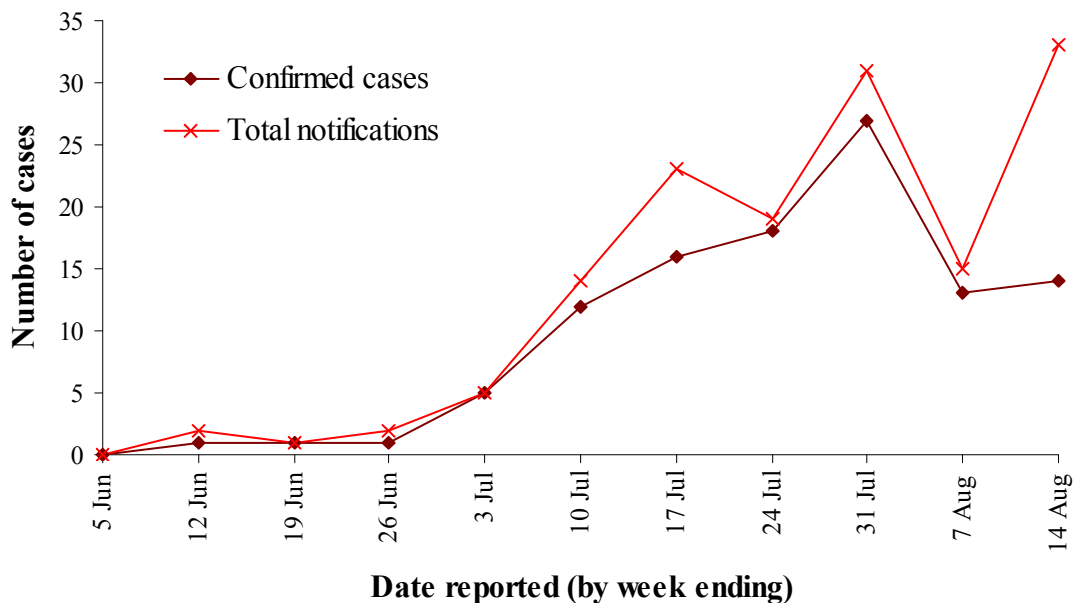


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

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

Of the 106 confirmed cases reported with a known age since 30 May 2009, 51 (48.1%) were aged 10-19 years of age, 39 (36.8%) were aged under 10 years old and 16 (15.1%) were aged 20 years or older. Two confirmed cases were of unknown age. Of the 13 confirmed cases reported in the past week with a known age, 11 (84.6%) were aged 0-9 years, one (7.7%) was aged 10-19 years, and one (7.7%) was aged 20 years or older. One confirmed case was of unknown age (Table 1).

Of the 106 confirmed cases reported with a known age since 30 May 2009, 50 (47.2%) were aged 12 months to 12 years. Nine (69.2%) of the 13 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	8 - 14 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	11	4	3	4	0	20	10	5	5	1
15mths-3yrs	10	6	1	3	2	27	16	7	4	2
4-9 yrs	4	1	1	2	0	18	13	3	2	0
10-19 yrs	3	1	1	1	0	59	51	4	4	6
20+ yrs	4	1	0	3	0	19	16	0	3	5
Unknown	1	1	0	0	0	2	2	0	0	0
Total	33	14	6	13	2	145	108	19	18	14
<i>12mths-12yrs</i>	<i>18</i>	<i>9</i>	<i>4</i>	<i>5</i>	<i>2</i>	<i>69</i>	<i>50</i>	<i>13</i>	<i>6</i>	<i>2</i>

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

Of the 102 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 85 (83.3%) were European, nine cases were of Maori ethnicity, four were of Pacific Peoples ethnicity and four were of Asian ethnicity. Of the 13 confirmed cases reported last week with a known ethnicity, nine (69.2%) were of European ethnicity, two were of Maori ethnicity, one was of Pacific Peoples ethnicity and one was of Asian ethnicity (Table 2).

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

Ethnicity (prioritised)	8 - 14 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	5	2	0	3	0	13	9	0	4	0
Pacific Peoples	3	1	1	1	0	7	4	2	1	2
Asian	3	1	1	1	1	7	4	2	1	1
European	20	9	4	7	1	110	85	14	11	9
Unknown	2	1	0	1	0	8	6	1	1	2
Total	33	14	6	13	2	145	108	19	18	14

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

Of the 108 confirmed cases reported since 30 May 2009, 91 (84.3%) were from Canterbury DHB, 15 (13.9%) from the Auckland region (Waitemata, Auckland and Counties Manukau DHBs) and one each (0.9%) from Northland and Otago DHBs (Table 3). Of the 14 confirmed cases reported last week, nine (64.3%) were from Canterbury DHB with the remaining five (35.7%) from the Auckland region.

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	8 - 14 August 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	2	1	0	1	0
Waitemata	7	3	2	2	1	14	10	2	2	3
Auckland	2	0	0	2	0	5	3	0	2	0
Counties Manukau	4	2	1	1	0	6	2	2	2	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	1	0	0	1	0
Whanganui	0	0	0	0	0	1	0	1	0	0
Hutt Valley	0	0	0	0	0	1	0	1	0	0
Nelson	2	0	0	2	0	2	0	0	2	0
West Coast	1	0	1	0	0	1	0	1	0	0
Canterbury	14	9	2	3	1	105	91	10	4	11
South Canterbury	0	0	0	0	0	1	0	0	1	0
Otago	0	0	0	0	0	3	1	1	1	0
Southland	1	0	0	1	0	1	0	0	1	0
New Zealand Total	33	14	6	13	2	145	108	19	18	14

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 20 confirmed and probable measles cases reported in the past week, 19 (95.0%) had a known vaccination status. Of these 19 cases, 12 cases were not vaccinated although this includes seven measles cases aged less than 15 months old who were not eligible for vaccination. Three cases had received only one dose of vaccine, however, all of these cases were under 4 years old and therefore only eligible for one dose of vaccine. Two cases were reported as 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	Vaccination Status		Unknown
				Vaccinated (no dose info)	Not vaccinated	
<15mths	7	-	-	0	7	0
15mths-3yrs	7	3	-	1	2	1
4-9 yrs	2	0	0	1	1	0
10-19 yrs	2	0	1	0	1	0
20+ yrs	1	0	1	0	0	0
Unknown	1	0	0	0	1	0
Total	20	3	2	2	12	1

Of the 127 confirmed and probable cases reported since 30 May 2009, 117 (92.1%) had a known vaccination status. Of these 117 cases, 77 were not vaccinated including 15 cases aged under 15 months old and therefore not eligible for vaccination. Fifteen cases had received one dose of vaccine and 11 of these cases were under 4 years old and therefore only eligible for one dose of vaccine. Ten 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		Unknown
				(no dose info)	Not vaccinated	
<15mths	15	-	-	0	15	0
15mths-3yrs	23	11	-	2	8	2
4-9 yrs	16	1	1	1	12	1
10-19 yrs	55	2	8	8	35	2
20+ yrs	16	1	1	4	5	5
Unknown	2	0	0	0	2	0
Total	127	15	10	15	77	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