

MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 7 August 2009. Data was extracted from EpiSurv at 10am 12 August 2009.

In the past week, 27 new cases of measles were notified. The notified cases consisted of 11 confirmed cases, four probable cases, and 12 cases under investigation. Of the 15 confirmed and probable cases there were no reported hospitalisations or 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 95, including nine hospitalised cases. There have been no deaths reported.

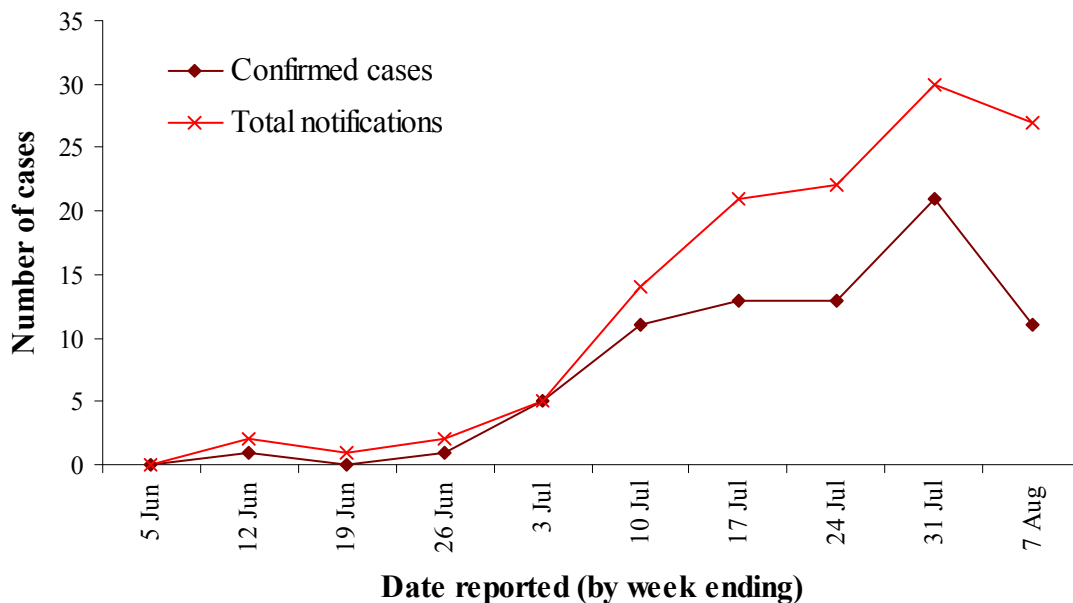


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

The distribution of cases by age, ethnicity (prioritised) and district health board is shown in the following tables.

Of the 75 confirmed cases reported with a known age since 30 May 2009, 42 (56.0%) were aged 10-19 years of age, 21 (28.0%) were aged under 10 years old and 12 (16.0%) were aged 20 years or older. One confirmed case was of unknown age. Of the 11 confirmed cases reported in the past week, seven (63.6%) were aged 0-9 years and four (36.4%) were aged 10-19 years (Table 1).

Of the 75 confirmed cases reported with a known age since 30 May 2009, 34 (45.3%) were aged 12 months to 12 years. Seven (63.6%) of the 11 confirmed cases reported in the past week were aged 12 months to 12 years.

Table 1 : Age distribution of measles cases and hospitalisations

Age Group	1 - 7 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	3	2	0	1	0	9	4	2	3	0
15mths-3yrs	5	3	1	1	0	16	7	6	3	0
4-9 yrs	6	2	3	1	0	16	10	4	2	0
10-19 yrs	10	4	0	6	0	61	42	5	14	5
20+ yrs	2	0	0	2	0	20	12	2	6	4
Unknown	1	0	0	1	0	2	1	0	1	0
Total	27	11	4	12	0	124	76	19	29	9
<i>12mths-12yrs</i>	<i>15</i>	<i>7</i>	<i>4</i>	<i>4</i>	<i>0</i>	<i>53</i>	<i>34</i>	<i>11</i>	<i>8</i>	<i>0</i>

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

Of the 73 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 61 (83.6%) were European, six cases were of Maori ethnicity, three were Asian and three were Pacific Peoples. Of the 10 confirmed cases reported last week with a known ethnicity seven (70.0%) were of European ethnicity, two were of Maori ethnicity and one was of Pacific Peoples ethnicity (Table 2).

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

Ethnicity (prioritised)	1 - 7 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	2	2	0	0	0	8	6	0	2	0
Pacific Peoples	1	1	0	0	0	4	3	1	0	2
Asian	1	0	0	1	0	5	3	1	1	0
European	21	7	4	10	0	101	61	16	24	6
Unknown	2	1	0	1	0	6	3	1	2	1
Total	27	11	4	12	0	124	76	19	29	9

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

Of the 76 confirmed cases reported since 30 May 2009 64 (84.2%) were reported from the Canterbury DHB region, 10 (13.2%) from the Auckland region (covered by the Waitemata, Auckland and Counties Manukau DHBs) and one each (1.3%) from the Northland and Otago DHBs (Table 3).

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	1 - 7 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Northland	1	1	0	0	0	2	1	0	1	0
Waitemata	5	4	1	0	0	8	7	1	0	2
Auckland	1	1	0	0	0	3	3	0	0	0
Counties Manukau	0	0	0	0	0	2	0	1	1	0
Waikato	0	0	0	0	0	1	0	1	0	0
Hawke's Bay	1	0	0	1	0	1	0	0	1	0
Whanganui	0	0	0	0	0	1	0	1	0	0
Hutt Valley	1	0	1	0	0	1	0	1	0	0
Canterbury	18	5	2	11	0	101	64	13	24	7
South Canterbury	0	0	0	0	0	1	0	0	1	0
Otago	0	0	0	0	0	3	1	1	1	0
New Zealand Total	27	11	4	12	0	124	76	19	29	9

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

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

Of the 15 confirmed and probable measles cases reported in the past week, 14 (93.3%) had a known vaccination status. Of these 14 cases, 12 cases were not vaccinated although this included two measles cases aged less than 15 months old who were not eligible for vaccination. No cases had received only one dose of vaccine. One case was 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	2	-	-	0	2	0
15mths-3yrs	4	0	-	0	4	0
4-9 yrs	5	0	1	0	3	1
10-19 yrs	4	0	0	1	3	0
20+ yrs	0	0	0	0	0	0
Unknown	0	0	0	0	0	0
Total	15	0	1	1	12	1

Of the 95 confirmed and probable cases reported since 30 May 2009, 88 (92.6%) had a known vaccination status. Of these 88 cases, 61 were not vaccinated including six cases aged under 15 months old and therefore not eligible for vaccination. Six cases had received one dose of vaccine and four of these cases were under 4 years old and therefore only eligible for one dose of vaccine. Eight 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	Vaccination Status		Unknown
				Vaccinated (no dose info)	Not vaccinated	
<15mths	6	-	-	0	6	0
15mths-3yrs	13	4	-	1	7	1
4-9 yrs	14	0	2	0	11	1
10-19 yrs	47	2	5	8	31	1
20+ yrs	14	0	1	4	5	4
Unknown	1	0	0	0	1	0
Total	95	6	8	13	61	7

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:
 - 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 *under investigation* or cases where there was insufficient information to define the status

This report is available on the internet from www.surv.esr.cri.nz