

MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 31 July 2009. Data was extracted from EpiSurv at 5pm 4 August 2009.

In the past week, 32 new cases of measles were notified. The notified cases consisted of 22 confirmed cases, three probable cases, and seven cases under investigation. Of the 25 confirmed and probable cases there were five hospitalised cases, and no deaths reported. 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 83, including 10 hospitalised cases. There have been no deaths reported.

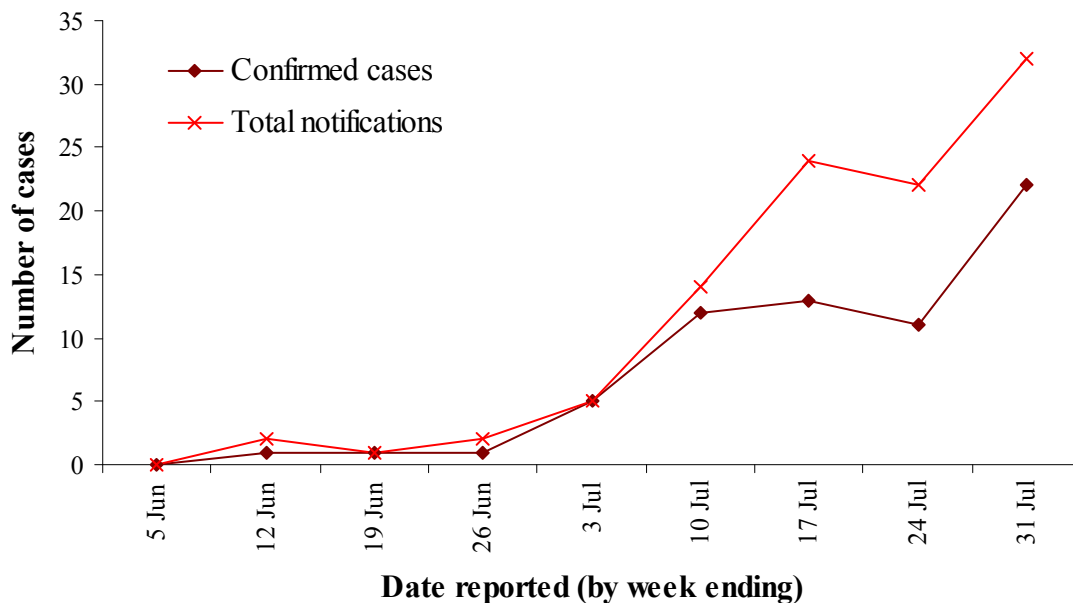


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

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

Of the 65 confirmed cases reported with a known age since 30 May 2009, 39 (60.0%) were aged 10-19 years of age, 15 (23.1%) were aged under 10 years old and 11 (16.9%) were aged 20 years or older. One confirmed case was of unknown age. Of the 22 confirmed cases reported in the past week 9 (40.9%) were aged 0-9 years, 9 (40.9%) were aged 10-19 years and 4 (18.2%) were aged 20 years or older (Table 1).

Of the 65 confirmed cases reported with a known age since 30 May 2009, 27 (41.5%) were aged 12 months to 12 years. Thirteen (59.1%) of the 22 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	25 - 31 July 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	4	2	1	1	1	8	2	3	3	1
15mths-3yrs	5	3	1	1	0	14	4	6	4	0
4-9 yrs	4	4	0	0	0	11	9	0	2	0
10-19 yrs	11	9	0	2	1	50	39	5	6	5
20+ yrs	8	4	1	3	3	18	11	3	4	4
Unknown	0	0	0	0	0	1	1	0	0	0
Total	32	22	3	7	5	102	66	17	19	10
<i>12mths-12yrs</i>	<i>16</i>	<i>13</i>	<i>1</i>	<i>2</i>	<i>0</i>	<i>42</i>	<i>27</i>	<i>8</i>	<i>7</i>	<i>0</i>

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

Of the 64 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 54 (84.4%) were European, 5 cases were of Maori ethnicity, 3 were Asian and 2 were Pacific Peoples. Of the 21 confirmed cases reported last week with a known ethnicity 19 (90.5%) were of European ethnicity and one each of Maori and Pacific Peoples ethnicity (Table 2).

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

Ethnicity (prioritised)	25 - 31 July 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	2	1	0	1	0	7	5	0	2	0
Pacific peoples	2	1	1	0	1	3	2	1	0	2
Asian	1	0	1	0	1	5	3	2	0	1
European	24	19	1	4	2	82	54	13	15	6
Unknown	3	1	0	2	1	5	2	1	2	1
Total	32	22	3	7	5	102	66	17	19	10

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

Of the 66 confirmed cases reported since 30 May 2009 60 (90.9%) were reported from the Canterbury DHB region, 4 (6.1%) from the Auckland region (covered by the Auckland, Waitemata and Counties Manukau DHBs) and 2 (3.0%) from the Otago DHB (Table 3).

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	25 - 31 July 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	1	0	0	1	0
Waitemata	5	3	1	1	3	5	3	1	1	3
Auckland	1	0	1	0	0	2	1	1	0	0
Counties Manukau	2	0	1	1	0	3	0	1	2	0
Waikato	0	0	0	0	0	1	0	1	0	0
Whanganui	0	0	0	0	0	1	0	1	0	0
Canterbury	21	17	0	4	2	86	60	12	14	7
South Canterbury	0	0	0	0	0	1	0	0	1	0
Otago	2	2	0	0	0	2	2	0	0	0
New Zealand Total	32	22	3	7	5	102	66	17	19	10

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 25 confirmed and probable measles cases reported in the past week 20 (80.0%) had a known vaccination status. Of these 20 cases, 17 cases were not vaccinated although this included three measles cases aged less than 15 months old who were not eligible for vaccination. Three cases had received one dose of vaccine and two of these cases were under 4 years old 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	Vaccination Status		Unknown
				Vaccinated (no dose info)	Not vaccinated	
<15mths	3	-	-	0	3	0
15mths-3yrs	4	2	-	0	2	0
4-9 yrs	4	0	0	0	3	1
10-19 yrs	9	1	0	0	7	1
20+ yrs	5	0	0	0	2	3
Unknown	0	0	0	0	0	0
Total	25	3	0	0	17	5

Of the 83 confirmed and probable cases reported since 30 May 2009 74 (89.2%) had a known vaccination status. Of these 74 cases, 47 were not vaccinated including five cases aged under 15 months old and therefore not eligible for vaccination. Seven cases had received one dose of vaccine and five of these cases were under 4 years old and therefore only eligible for one dose of vaccine. Six 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	5	-	-	0	5	0
15mths-3yrs	10	5	-	1	3	1
4-9 yrs	9	0	1	0	7	1
10-19 yrs	44	2	4	9	27	2
20+ yrs	14	0	1	4	4	5
Unknown	1	0	0	0	1	0
Total	83	7	6	14	47	9

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