

MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 25 September 2009. Data was extracted from EpiSurv at 10 am 29 September 2009.

In the past week, 13 new cases of measles were notified. The notified cases consisted of one confirmed case, three probable cases, and nine cases under investigation. There was neither reported hospitalisation nor death. The distribution of cases by week since the 30 May 2009 is shown in Figure 1 below. Also this report includes the distribution of cases by age, ethnicity (prioritised), district health board, and immunisation status.

Temporal distribution of cases

While total notifications have increased in the past week, only one confirmed case was reported (Figure 1). The total number of confirmed (n = 152) and probable cases (n = 53) reported since 30 May 2009 is 221, including 18 hospitalisations. There have been no deaths reported.

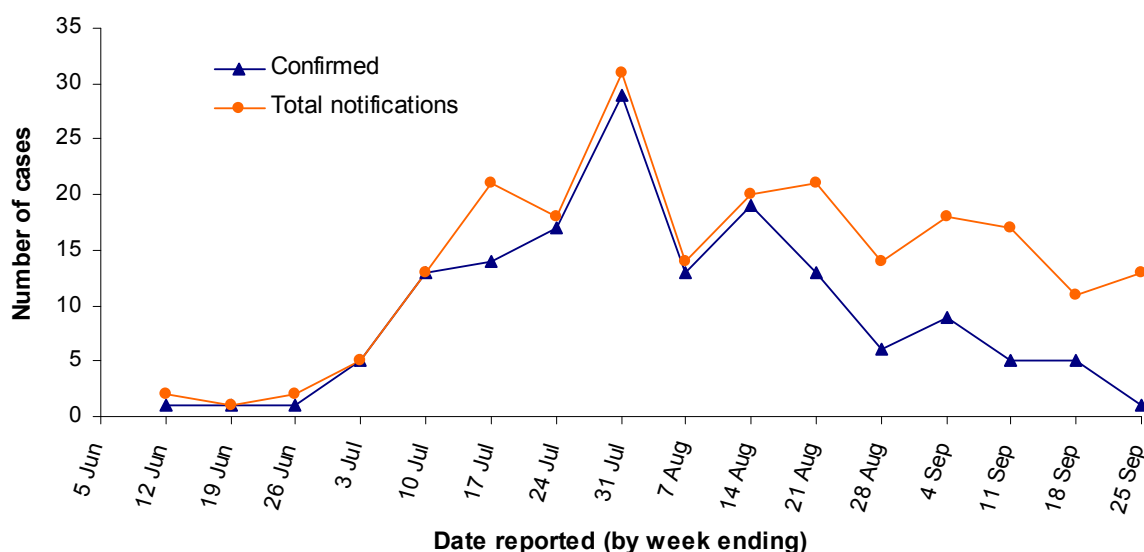


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

Case Demographics

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

Age group

Of the 152 confirmed cases reported with a known age since 30 May 2009, 68 (44.7%) were aged under 10 years old, 63 (41.4%) were aged 10-19 years of age, and 21 (13.8%) were aged 20 years or older (Table 1). The only confirmed case reported last week was 15 months old.

Of the 152 confirmed cases reported with a known age since 30 May 2009, 78 (51.3%) were aged 12 months to 12 years and 40 (26.3%) were aged 13 years to 20 years.

Table 1 : Age distribution of measles cases and hospitalisations

Age Group	19-25 Sep 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	5	0	1	4	0	42	18	19	5	1
15mths-3yrs	5	1	2	2	0	56	28	23	5	4
4-9 yrs	0	0	0	0	0	26	22	3	1	0
10-19 yrs	2	0	0	2	0	72	63	6	3	6
20+ yrs	1	0	0	1	0	25	21	2	2	7
Unknown	0	0	0	0	0	0	0	0	0	0
Total	13	1	3	9	0	221	152	53	16	18
<i>12mths - 12yrs</i>	<i>7</i>	<i>1</i>	<i>2</i>	<i>4</i>	<i>0</i>	<i>120</i>	<i>78</i>	<i>34</i>	<i>8</i>	<i>5</i>
<i>13yrs - 20yrs</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>0</i>	<i>48</i>	<i>40</i>	<i>6</i>	<i>2</i>	<i>6</i>

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

Ethnicity

Of the 148 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 126 (85.1%) were European, 11 (7.4%) cases were of Maori ethnicity, six (4.1%) were of Other ethnicity and five (3.4%) were of Pacific Peoples ethnicity (Table 2). The ethnicity was unknown for the only confirmed case reported last week.

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

Ethnicity (prioritised)	19-25 Sep 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	1	0	0	1	0	21	11	9	1	1
Pacific Peoples	0	0	0	0	0	6	5	1	0	13
Other	0	0	0	0	0	7	6	1	0	1
European	10	0	3	7	0	180	126	41	13	2
Unknown	2	1	0	1	0	7	4	1	2	1
Total	13	1	3	9	0	221	152	53	16	18

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

Geographical distribution

Of the 152 confirmed cases reported since 30 May 2009, 124 (81.6%) were reported from Canterbury DHB, 19 (12.5%) from the Auckland region (covered by Waitemata, Auckland and Counties Manukau DHBs), three (2.0%) from Otago DHB, two each (1.3%) from Northland and Southland DHBs, and one each (0.7%) from Bay of Plenty and Nelson Marlborough DHBs (Table 3). The only confirmed case reported last week was from Canterbury DHB.

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	19-25 Sep 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	5	2	0	3	0
Waitemata	0	0	0	0	0	13	11	0	2	3
Auckland	2	0	0	2	0	8	6	0	2	0
Counties Manukau	2	0	0	2	0	6	2	2	2	0
Waikato	0	0	0	0	0	1	0	1	0	0
Lakes	0	0	0	0	0	0	0	0	0	0
Bay of Plenty	0	0	0	0	0	2	1	1	0	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	0	0	0	0	0
Whanganui	0	0	0	0	0	1	0	1	0	0
MidCentral	0	0	0	0	0	0	0	0	0	0
Hutt Valley	0	0	0	0	0	2	0	1	1	0
Capital and Coast	0	0	0	0	0	2	0	1	1	0
Wairarapa	2	0	1	1	0	3	0	2	1	0
Nelson Marlborough	1	0	0	1	0	2	1	0	1	0
West Coast	1	0	1	0	0	1	0	1	0	0
Canterbury	4	1	1	2	0	167	124	41	2	15
South Canterbury	0	0	0	0	0	1	0	1	0	0
Otago	0	0	0	0	0	4	3	0	1	0
Southland	0	0	0	0	0	3	2	1	0	0
New Zealand Total	13	1	3	9	0	221	152	53	16	18

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

Immunisation status

The immunisation status, as reported to Public Health Service staff, for confirmed measles cases is shown in Table 4.

Immunisation status was unknown for the only confirmed case reported last week. The case had just turned 15 months old.

Of the 152 confirmed cases reported since 30 May 2009, 143 (94.1%) reported a known vaccination status. Of these 143 cases, 83 were not vaccinated including 14 cases aged less than 15 months and therefore not eligible for vaccination. Thirty three cases had received one dose of vaccine which includes three cases aged less than 15 months who had received their first dose (due at 15 months) early and 18 cases aged 15 months to 3 years who were only eligible for one dose of vaccine. Eighteen cases reported having completed measles vaccination.

Table 4 : Immunisation status of measles cases (confirmed) notified since 30 May 2009

Age Group	Total cases	One dose	Two doses	Vaccinated	Not	Unknown
				(no dose info)	vaccinated	
<15mths	18	3	0	0	14	1
15mths-3yrs	28	18	1	0	8	1
4-9 yrs	22	2	3	0	17	0
10-19 yrs	63	7	12	4	38	2
20+ yrs	21	3	2	5	6	5
Unknown	0	0	0	0	0	0
Total	152	33	18	9	83	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: <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