

MEASLES REPORT

This report includes cases of measles reported in EpiSurv up to midnight 16 October 2009. Data was extracted from EpiSurv at 10 am 20 October 2009.

In the last two weeks, nine new cases of measles were notified. The notified cases consisted of two confirmed cases, three probable cases, and four cases under investigation. There were no hospitalisations or deaths reported.

This report incorporates the temporal distribution of cases, and the distribution of cases by age, ethnicity (prioritised), and district health board (DHB), as well as a summary of confirmed cases by immunisation status. The case classification used in this report is specified in the appendix.

Temporal distribution of cases

There were nine total notifications in the past week, two of which were confirmed (Figure 1). However, both total and confirmed case counts for the last two weeks are likely to change as the cases are investigated. There has been a total of 221 notifications since 30 May 2009 including 157 confirmed and 55 probable cases. Nineteen (12.1%) of the confirmed and probable cases required hospitalisation. There have been no reported deaths.

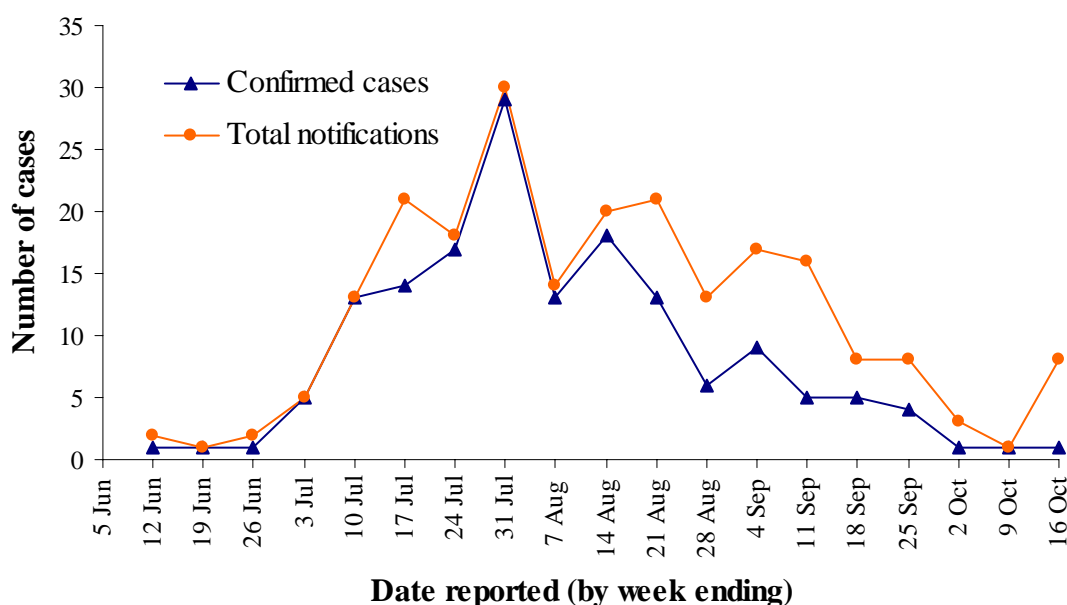


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

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 157 confirmed cases reported with a known age since 30 May 2009, 72 (45.9%) were aged under 10 years old, 63 (40.1%) were aged 10-19 years of age, and 22 (14.0%) were aged 20 years or older. Of the two confirmed cases reported in the last two weeks, one (50.0%) was aged 15 months to 3 years and one (50.0%) was aged 20 years or older (Table 1).

Of the 157 confirmed cases reported with a known age since 30 May 2009, 82 (52.2%) were aged 12 months to 12 years and 40 (25.5%) were aged 13 years to 20 years. One (50.0%) of the two confirmed cases reported in the last two weeks where age was known was aged 12 months to 12 years.

Table 1 : Age distribution of measles cases and hospitalisations

Age Group	3 - 16 October 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	4	0	1	3	0	47	19	22	6	1
15mths-3yrs	4	1	2	1	0	57	31	23	3	5
4-9 yrs	0	0	0	0	0	24	22	2	0	0
10-19 yrs	0	0	0	0	0	69	63	6	0	6
20+ yrs	1	1	0	0	0	24	22	2	0	7
Unknown	0	0	0	0	0	0	0	0	0	0
Total	9	2	3	4	0	221	157	55	9	19
<i>12mths - 12yrs</i>	<i>8</i>	<i>1</i>	<i>3</i>	<i>4</i>	<i>0</i>	<i>122</i>	<i>82</i>	<i>34</i>	<i>6</i>	<i>6</i>
<i>13yrs - 20yrs</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>46</i>	<i>40</i>	<i>6</i>	<i>0</i>	<i>6</i>

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

Ethnicity

Of the 153 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 131 (85.6%) were European, 11 (7.2%) were of Maori ethnicity, six (3.9%) were of Other ethnicity and five (3.3%) were Pacific Peoples (Table 2). The two (100.0%) confirmed cases reported in the last two weeks were of European ethnicity.

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

Ethnicity (prioritised)	3 - 16 October 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	1	0	1	0	0	20	11	9	0	1
Pacific Peoples	0	0	0	0	0	6	5	1	0	2
Other	1	0	0	1	0	8	6	1	1	1
European	5	2	2	1	0	179	131	43	5	14
Unknown	2	0	0	2	0	8	4	1	3	1
Total	9	2	3	4	0	221	157	55	9	19

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

Geographical distribution

Of the 157 confirmed cases reported since 30 May 2009, 125 (79.6%) were reported from Canterbury DHB, 20 (12.7%) from the Auckland region (covered by Waitemata, Auckland and Counties Manukau DHBs), four (2.5%) from Otago, three (1.9%) from Northland DHB, and one each (0.6%) from Bay of Plenty, Hawke's Bay, Nelson Marlborough, West Coast and Southland DHBs (Table 3). The two confirmed cases reported in the last two weeks were from Hawke's Bay (50.0%) and Otago DHBs (50.0%).

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	3 - 16 October 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	4	3	0	1	1
Waitemata	2	0	0	2	0	15	11	0	4	3
Auckland	0	0	0	0	0	7	7	0	0	0
Counties Manukau	0	0	0	0	0	3	2	1	0	0
Waikato	1	0	1	0	0	3	0	2	1	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	1	1	0	0	0	1	1	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	1	0	1	0	0
Capital and Coast	1	0	0	1	0	1	0	0	1	0
Wairarapa	1	0	1	0	0	4	0	3	1	0
Nelson Marlborough	0	0	0	0	0	1	1	0	0	0
West Coast	1	0	1	0	0	2	1	1	0	0
Canterbury	0	0	0	0	0	168	125	43	0	15
South Canterbury	0	0	0	0	0	1	0	1	0	0
Otago	1	1	0	0	0	5	4	0	1	0
Southland	0	0	0	0	0	2	1	1	0	0
Total	9	2	3	4	0	221	157	55	9	19

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 and Table 5.

Vaccination status was known for the two confirmed measles cases reported in the last two weeks. One case aged 15 months to 3 years had received one dose of vaccine as appropriate for their age and one case was reported as being vaccinated but no dose information was available.

Table 4 : Immunisation status of measles cases (confirmed) notified during last fortnight

Age Group	Total cases	One dose	Two doses	Vaccinated	Not	Unknown
				(no dose info)	vaccinated	
<15mths	0	0	0	0	0	0
15mths-3yrs	1	1	0	0	0	0
4-9 yrs	0	0	0	0	0	0
10-19 yrs	0	0	0	0	0	0
20+ yrs	1	0	0	1	0	0
Unknown	0	0	0	0	0	0
Total	2	1	0	1	0	0

Of the 157 confirmed cases reported since 30 May 2009, 148 (94.3%) had a known vaccination status. Of these 148 cases, 83 were not vaccinated including 14 cases aged less than 15 months and therefore not eligible for vaccination. Thirty seven cases had received one dose of vaccine which includes four cases aged less than 15 months who had received their first dose (due at 15 months) early and 21 cases aged 15 months to 3 years who were only eligible for one dose of vaccine. Eighteen cases reported having completed measles vaccination.

Table 5 : 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	19	4	0	0	14	1
15mths-3yrs	31	21	1	0	8	1
4-9 yrs	22	2	3	0	17	0
10-19 yrs	63	7	12	4	38	2
20+ yrs	22	3	2	6	6	5
Unknown	0	0	0	0	0	0
Total	157	37	18	10	83	9

Appendix

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