

MEASLES REPORT

This report includes cases of measles reported in EpiSurv up to midnight 7 May 2010. Data was extracted from EpiSurv at 10am 11 May 2010.

In the last two weeks, three new cases of measles were notified. The notified cases consisted of one confirmed case, and two 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 have been a total of three measles notifications in the last two weeks, one of which was confirmed. However, both total and confirmed case counts for the last two weeks are likely to change as the cases are investigated. Following relatively low numbers of notifications from mid February to mid March 2010 a significant spike in notifications in week 14 can be observed followed by a smaller peak in week 16 (Figure 1). There have been a total of 44 notifications since 26 December 2009 (the beginning of surveillance week 1 for 2010) including 29 confirmed, 11 probable and four cases under investigation. One hospitalisation and no deaths have been reported.

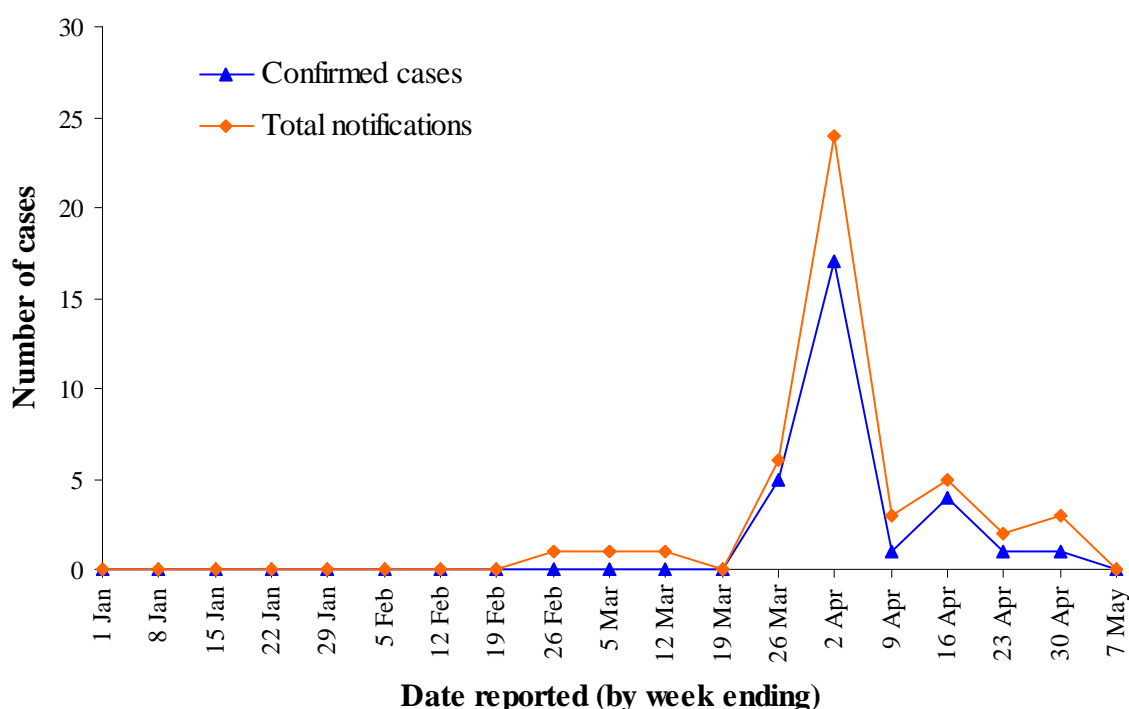


Figure 1 : Epidemic curve of confirmed and total measles cases by week reported

The onset date has not been reported for the one confirmed measles case reported in the last two weeks. Reporting of onset dates is not always complete (three of the 44 notifications since 26 December 2009 do not have onset dates available). The earliest report date since 26 December 2009 is 15 February 2010 and is a probable case.

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 29 confirmed cases reported since 26 December 2010 with a known age, eight (27.6%) were aged under 10 years, 16 (55.2%) were aged 10 to 19 years, and five (17.2%) were aged 20 years or older. The one confirmed cases reported in the last two weeks was aged 20 years or older (Table 1).

Of the 29 confirmed cases with a known age reported since 26 December 2009, 11 (37.9%) were aged 12 months to 12 years and 12 (41.4%) were aged 13 years to 20 years.

Table 1: Age distribution of measles cases and hospitalisations

Age Group	24 April – 7 May 2010					Cumulative total since 26 December 2010				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	1	0	0	1	0	5	2	1	2	1
15mths-3yrs	1	0	0	1	0	7	4	1	2	0
4-9 yrs	0	0	0	0	0	8	2	6	0	0
10-19 yrs	0	0	0	0	0	17	16	1	0	0
20+ yrs	1	1	0	0	0	7	5	2	0	0
Unknown	0	0	0	0	0	0	0	0	0	0
Total	3	1	0	2	0	44	29	11	4	1
<i>12mths - 12yrs</i>	0	0	0	2	0	22	11	7	4	0
<i>13yrs - 20yrs</i>	0	0	0	0	0	13	12	1	0	0

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

Ethnicity

Of the 28 confirmed cases with a known ethnicity reported since 26 December 2009, 26 (92.9%) were European and two (7.1%) were Maori (Table 2). The ethnicity of the one confirmed case reported in the last two weeks is unknown.

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

Ethnicity (prioritised)	24 April – 7 May 2010					Cumulative total since 26 December 2010				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	1	0	0	1	0	6	2	2	2	1
Pacific Peoples	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
European	1	0	0	1	0	36	26	9	1	0
Unknown	1	1	0	0	0	2	1	0	1	0
Total	3	1	0	2	0	44	29	11	4	1

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

Geographical distribution

Of the 29 confirmed cases reported since 26 December, 24 (82.8%) were reported from Northland DHB, two from Capital and Coast DHB (6.9%) and one each from Waitemata, Lakes and Taranaki DHBs (each 3.4%) (Table 3). The one confirmed case reported in the last two weeks was from Waitemata DHB (100.0%). Family connections have been established between the cases in Capital and Coast DHB and the Northland cases. The most recent confirmed case from Northland DHB was reported on 21 April 2010.

Table 3 : Geographical distribution of measles cases and hospitalisations

DHB	24 April – 7 May 2010					Cumulative total since 26 December 2010				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Northland	1	0	0	0	0	33	24	9	0	1
Waitemata	0	1	0	0	0	1	1	0	0	0
Auckland	0	0	0	0	0	1	0	0	1	0
Counties Manukau	0	0	0	0	0	0	0	0	0	0
Waikato	0	0	0	0	0	0	0	0	0	0
Lakes	0	0	0	0	0	1	1	0	0	0
Bay of Plenty	0	0	0	0	0	1	0	1	0	0
Tairāwhiti	0	0	0	0	0	0	0	0	0	0
Taranaki	0	0	0	0	0	1	1	0	0	0
Hawke's Bay	0	0	0	0	0	0	0	0	0	0
Whanganui	0	0	0	0	0	0	0	0	0	0
MidCentral	0	0	0	0	0	1	0	1	0	0
Hutt Valley	0	0	0	0	0	0	0	0	0	0
Capital and Coast	2	0	0	2	0	4	2	0	2	0
Wairarapa	0	0	0	0	0	0	0	0	0	0
Nelson	0	0	0	0	0	1	0	0	1	0
Marlborough	0	0	0	0	0	0	0	0	0	0
West Coast	0	0	0	0	0	0	0	0	0	0
Canterbury	0	0	0	0	0	0	0	0	0	0
South Canterbury	0	0	0	0	0	0	0	0	0	0
Otago	0	0	0	0	0	0	0	0	0	0
Southland	0	0	0	0	0	0	0	0	0	0
New Zealand Total	3	1	0	2	0	44	29	11	4	1

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

Immunisation status

The immunisation status of the one confirmed case reported in the last two weeks was unknown.

Of the 29 confirmed cases reported since 26 December 2009, 25 (86.2%) had a known vaccination status (Table 4). Of these 25 cases, 20 were not vaccinated including two cases aged less than 15 months and therefore not eligible for vaccination. Four cases had received one dose of vaccine and one case reported being vaccinated but dose information was not available.

Table 4: Immunisation status of measles cases (confirmed) notified since 26 December 2009

Age Group	Total cases	One dose	Two doses	Vaccinated (no dose info)	Not vaccinated	Unknown
<15mths	2	0	0	0	2	0
15mths-3yrs	4	1	0	0	3	0
4-9 yrs	2	0	0	0	2	0
10-19 yrs	16	2	0	1	12	1
20+ yrs	5	1	0	0	1	3
Unknown	0	0	0	0	0	0
Total	29	4	0	1	20	4

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