

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 30 September 2011. Data were extracted from EpiSurv at 10 am, 4 October 2011.

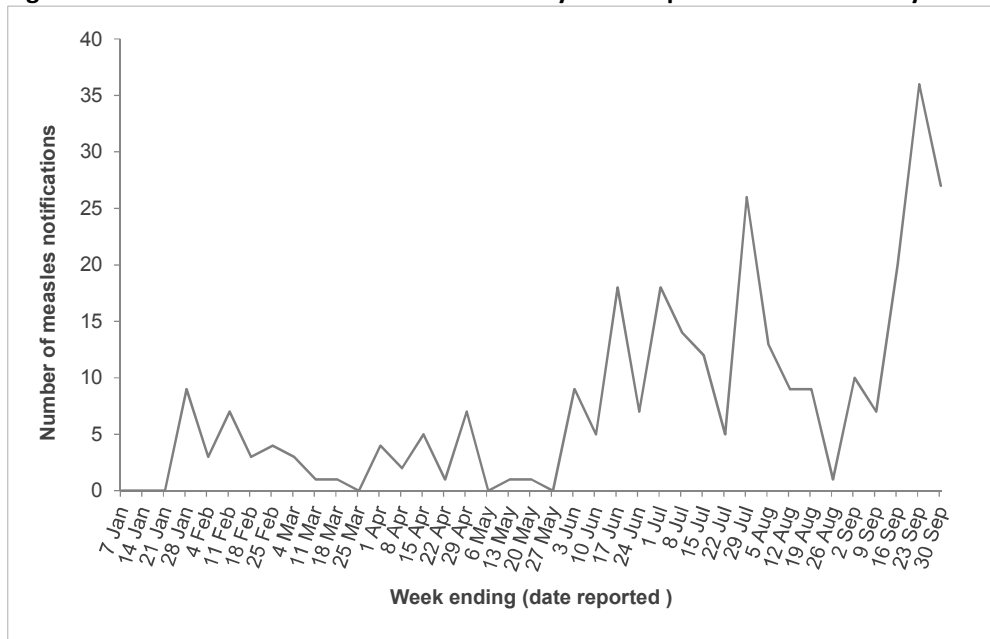
In the last week, 27 new measles cases (41 cases the previous week) were notified from the following DHBs: Auckland (14 cases), Waitemata (3 cases), Counties Manukau (3 cases) and Capital and Coast (1 case). Of these notifications, 21 were confirmed, and six are still under investigation. There have been 298 cases of measles reported in EpiSurv since January 2011 (compared to 45 cases reported the same time last year), including 282 confirmed cases, five probable cases and 11 cases still under investigation. These were reported mainly from the Auckland region (75.8% of total cases), Waikato (9.4%) and Hawke’s Bay (8.1%). DHBs reporting cases include Waitemata (124 cases), Auckland (81 cases), Waikato (28 cases), Hawke’s Bay (24 cases), Counties Manukau (21 cases), Canterbury (10 cases), Capital and Coast and Northland (3 cases each), Southern (2 cases), West Coast and Hutt Valley (one case each).

This report incorporates the temporal distribution of cases, since January 2011, 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

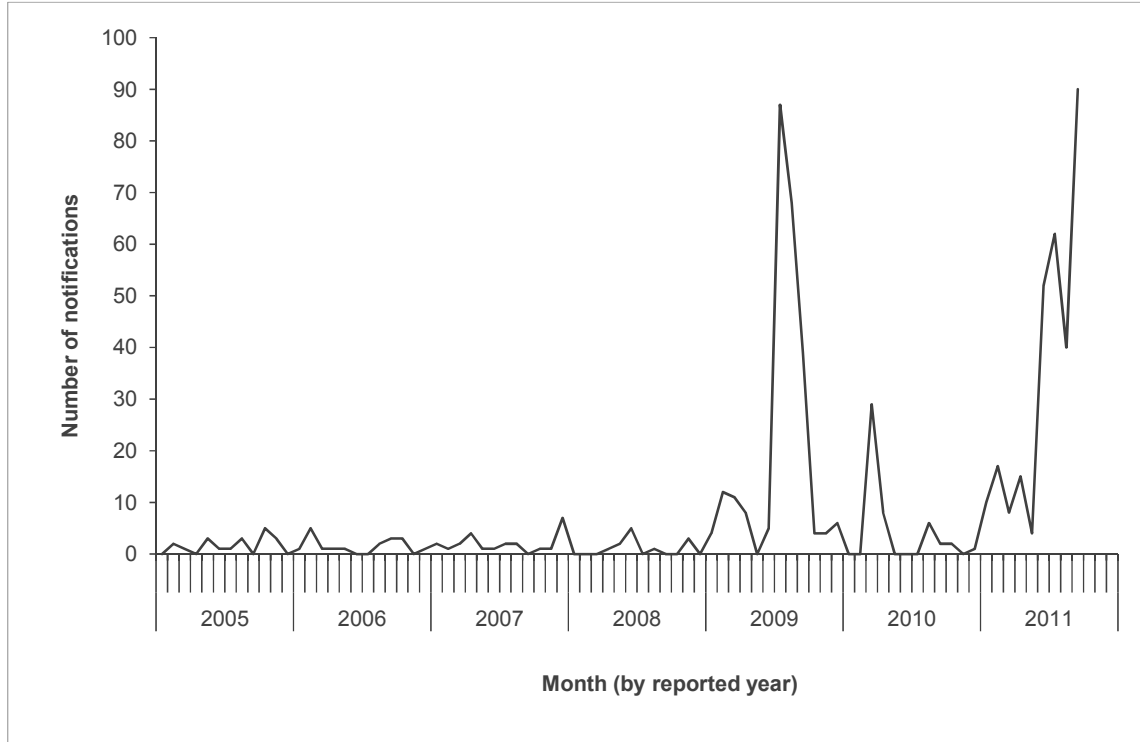
Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 27 cases notified in the last week (41 the previous week)¹. Compared to the previous week, notifications have decreased slightly in the last week ending 30 September. Of the 298 notifications since the beginning of 2011, 44 have been hospitalised. No deaths have been reported.

Figure 1 : Distribution of measles notifications by week reported from 1 January 2011



¹ The total number of notifications may change as cases are investigated further and some are reclassified ‘not a case’.

Figure 2 Measles notifications by month reported (1 January 2005 to 30 September 2011)



The onset dates were recorded for 24 (88.9%) of the 27 measles cases notified in the last week, earliest date was 14 September 2011. Although reporting of onset dates is not always complete, 248 (83.2%) of notifications since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 29 September, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 282 confirmed cases with a known age reported since 1 January 2011, 127 (45.0%) were aged under 10 years, 83 (29.4%) were aged 10 to 19 years, and 72 (25.5%) were aged 20 years or older. Thirty (10.6%) were aged under 15 months.

Of the 282 confirmed cases, 132 (46.8%) were aged 12 months to 12 years and 67 (23.8%) were aged 13 years to 20 years.

Table 1: Age distribution of measles cases and hospitalisations, 2011

Age Group	24-30 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	5	4	0	1	1	37	30	4	3	6
15 mths-3yrs	7	4	0	3	0	45	38	1	6	2
4-9 yrs	3	3	0	0	0	59	59	0	0	2
10-19 yrs	4	3	0	1	1	84	83	0	1	8
20+ yrs	8	7	0	1	1	73	72	0	1	26
Unknown	0	0	0	0	0	0	0	0	0	0
Total	27	21	0	6	3	298	282	5	11	44
<i>12 mths-12yrs</i>	<i>14</i>	<i>11</i>	<i>0</i>	<i>14</i>	<i>1</i>	<i>142</i>	<i>132</i>	<i>2</i>	<i>8</i>	<i>6</i>
<i>13 yrs-20yrs</i>	<i>3</i>	<i>2</i>	<i>0</i>	<i>3</i>	<i>1</i>	<i>68</i>	<i>67</i>	<i>0</i>	<i>1</i>	<i>10</i>

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

Conf: confirmed, **Prob:** probable, **Hosp:** hospitalised

Of the 278 confirmed cases with a known ethnicity reported since 1 January 2011, 179 (64.4%) were European, 64 (23.0%) were Māori, 20 (7.2%) were Pacific Peoples, and 15 (5.4%) were in the "Other" ethnic groups (Table 2). Ethnicity was recorded for all of the 21 confirmed cases reported in the last week, these were distributed as follows: 14 (66.7%) European, four (19.0%) Māori, two (1.0%) Pacific Peoples and one (0.05%) of "Other" ethnicity. Hospitalisations by ethnicity are also depicted in Table 2.

Table 2 : Ethnic (prioritised) distribution of measles cases and hospitalisations, 2011

Ethnicity (prioritised)	24-30 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Māori	6	4	0	2	1	68	64	2	2	9
Pacific Peoples	2	2	0	0	1	20	20	0	0	7
Other	3	1	0	2	1	17	15	0	2	4
European	16	14	0	2	0	187	179	2	6	23
Unknown	0	0	0	0	0	6	4	1	1	1
Total	27	21	0	6	3	298	282	5	11	44

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

Geographic distribution

Of the 282 confirmed cases reported since 1 January, 123 (43.6%) were reported from Waitemata, 79 (28.0%) from Auckland, 25 (8.9%) from Waikato, 24 (8.5%) from Hawke's Bay, 21 (7.4%) from Counties Manukau, five (1.8%) from Canterbury, two (0.7%) from Northland and Capital and Coast, and one (0.4%) from Hutt Valley DHBs.

The 21 confirmed cases in the last week were reported from Auckland (14 cases), Waitemata (3 cases), Counties Manukau (3 cases) and Capital and Coast (1 case) DHBs.

Table 3 : Geographical distribution of measles cases and hospitalisations, 2011

DHB	24-30 September 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Northland	0	0	0	0	0	3	2	1	0	1
Waitemata	3	3	0	0	0	124	123	1	0	12
Auckland	16	14	0	2	2	81	79	0	2	22
Counties Manukau	3	3	0	0	1	21	21	0	0	5
Waikato	0	0	0	0	0	28	25	0	3	1
Lakes	0	0	0	0	0	0	0	0	0	0
Bay of Plenty	0	0	0	0	0	0	0	0	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	24	24	0	0	3
Whanganui	0	0	0	0	0	0	0	0	0	0
MidCentral	0	0	0	0	0	0	0	0	0	0
Hutt Valley	0	0	0	0	0	1	1	0	0	0
Capital and Coast	1	1	0	0	0	3	2	0	1	0
Wairarapa	0	0	0	0	0	0	0	0	0	0
Nelson Marlborough	0	0	0	0	0	0	0	0	0	0
West Coast	0	0	0	0	0	1	0	0	1	0
Canterbury	2	0	0	2	0	10	5	3	2	0
South Canterbury	0	0	0	0	0	0	0	0	0	0
Southern	2	0	0	2	0	2	0	0	2	0
New Zealand Total	27	21	0	6	3	298	282	5	11	44

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

Immunisation status

Table 4 shows the immunisation status of the confirmed cases reported in the last week, as recorded in EpiSurv. This was known for 12 (57.1%) of the confirmed measles cases reported. Of the 12 cases, five were not vaccinated. Five cases had received one dose of vaccine and two cases had no dose information recorded.

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

Age Group	Total cases	One dose	Two doses	Vaccinated (no dose info)	Not vaccinated	Unknown
<15mths	4	1	0	0	2	1
15mths-3yrs	4	2	0	0	1	1
4-9 yrs	3	0	0	0	2	1
10-19 yrs	3	1	0	1	0	1
20+ yrs	7	1	0	1	0	5
Unknown	0	0	0	0	0	0
Total	21	5	0	2	5	9

Of the 282 confirmed cases reported since January 2011, 236 (83.7%) had a known vaccination status. Of these 236 cases, 189 were not vaccinated including 24 cases aged less than 15 months and therefore not eligible for vaccination. Thirty five cases had received one dose of vaccine; eight cases had completed their second dose. Four cases were vaccinated but had no dose information recorded.

Table 5: Immunisation status of measles cases (confirmed) notified since 1 January 2011

Age Group	Total cases	One dose	Two doses	Vaccinated (no dose info)	Not vaccinated	Unknown
<15mths	30	4	0	0	24	2
15mths-3yrs	38	10	0	0	27	1
4-9 yrs	59	6	2	0	48	3
10-19 yrs	83	7	1	1	66	8
20+ yrs	72	8	5	3	24	32
Unknown	0	0	0	0	0	0
Total	282	35	8	4	189	46

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 will be available online from www.surv.esr.cri.nz