

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 18 November 2011. Data were extracted from EpiSurv at 10 am, 22 November 2011.

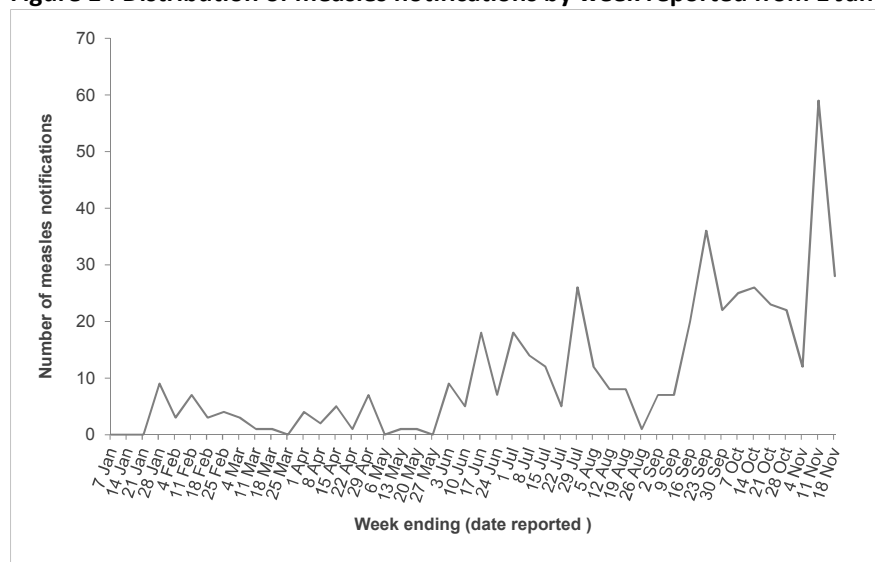
In the last week, 28 new measles cases (67 cases the previous week) were notified from the following DHBs: Waitemata (8 cases), Auckland (7 cases), Counties Manukau (4 cases), Southern (3 cases), Capital and Coast (2 cases), Lakes, MidCentral, Hutt Valley and South Canterbury (1 case each). Of these notifications, 21 were confirmed, three are probable and four are still under investigation. There have been 482 measles cases notified in EpiSurv since January 2011 (compared to 47 cases in 2010 and 239 in 2009 for the same period). Of the total notifications 450 are confirmed cases, 25 probable cases and seven cases still under investigation. These were reported mainly from the Auckland region (76.1% of total cases), Waikato (5.4%) and Hawke’s Bay (5.0% each). DHBs reporting cases include Auckland (179 cases), Waitemata (155 cases), Counties Manukau (33 cases), Waikato (26 cases) and Hawke’s Bay (24 cases), Southern (17 cases), Canterbury (12 cases), Capital and Coast (11 cases), Bay of Plenty (7 cases), Lakes (5 cases), Northland and South Canterbury (4 cases each), Taranaki and Hutt Valley (2 cases each), and MidCentral (1 case).

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

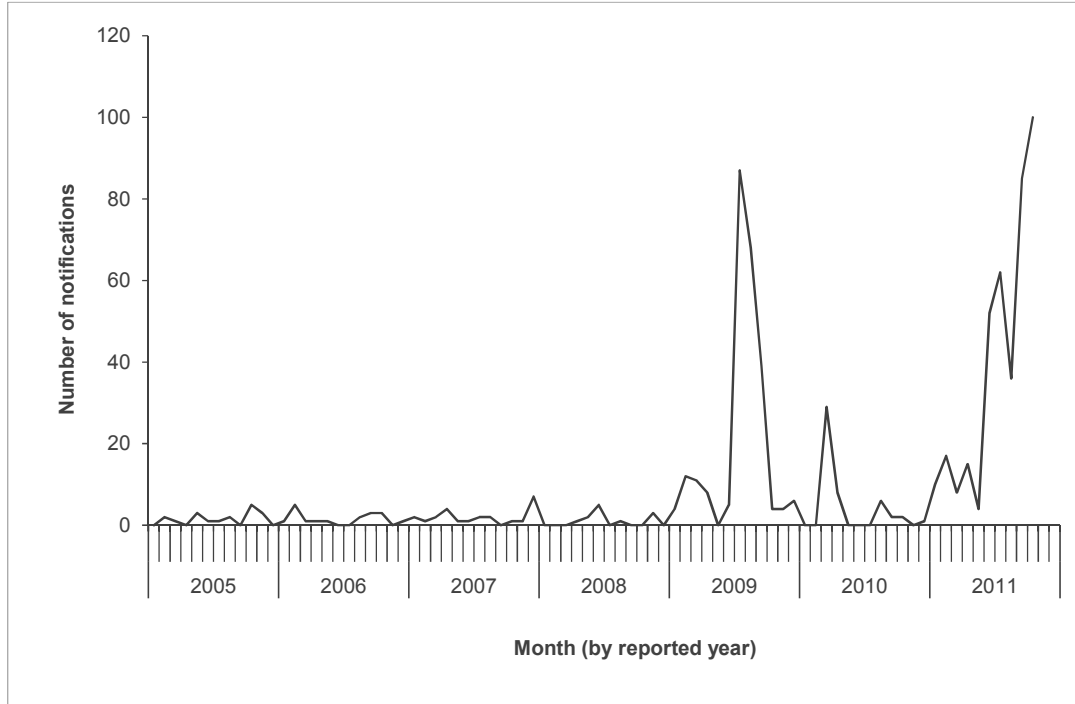
Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 28 cases notified in the last week (67 the previous week)¹. Notifications have decreased in the week ending 18 November 2011. Of the 482 notifications since the beginning of 2011, 85 have been 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’. The previous week’s count is as reported in the previous weekly report not the current count.

Figure 2 Measles notifications by month reported (1 January 2005 to 31 October 2011)



The onset dates were recorded for 24 (85.7%) of the 28 measles cases notified in the last week, these ranged from 25 October to 17 November 2011. Although reporting of onset dates is not always complete, 422 (87.6%) of 482 notifications since 1 January 2011 have onset dates available. The earliest and the most recent onset dates since January 2011 were 6 January and 17 November, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 450 confirmed cases with a known age (reported since 1 January 2011), 189 (42.0%) were aged under 10 years, 148 (32.9%) were aged 20 years or older and 113 (25.1%) were aged 10 to 19 years. Fifty-six (12.4%) were aged under 15 months.

Of the 450 confirmed cases, 183 (40.7%) were aged 12 months to 12 years and 99 (22.0%) were aged 13 years to 20 years.

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

Age Group	12-18 November 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15 mths	6	4	1	1	2	69	56	10	3	16
15 mths-3yrs	5	3	1	1	0	62	53	8	1	4
4-9 yrs	4	3	0	1	0	82	80	1	1	5
10-19 yrs	4	4	0	0	0	116	113	2	1	13
20+ yrs	9	7	1	1	0	153	148	4	1	47
Unknown	0	0	0	0	0	0	0	0	0	0
Total	28	21	3	4	2	482	450	25	7	85
<i>12 mths-12 yrs</i>	<i>11</i>	<i>8</i>	<i>1</i>	<i>2</i>	<i>0</i>	<i>197</i>	<i>183</i>	<i>11</i>	<i>3</i>	<i>15</i>
<i>13 yrs-20 yrs</i>	<i>4</i>	<i>4</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>102</i>	<i>99</i>	<i>2</i>	<i>1</i>	<i>15</i>

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

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

Of the 450 confirmed cases reported since 1 January 2011, 441 had a known ethnicity. Of these, 294 (66.7%) were European, 80 (18.1%) were Māori, 37 (8.4%) were Pacific Peoples, and 30 (6.8%) were in the "Other" ethnic groups (Table 2). Ethnicity was recorded for 19 of the 21 confirmed cases reported in the last week, these were distributed as follows: European (15 cases), and Pacific Peoples (4 cases). Hospitalisations by ethnicity are also depicted in Table 2.

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

Ethnicity (prioritised)	12-18 November 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Māori	1	0	0	1	0	84	80	3	1	13
Pacific Peoples	4	4	0	0	0	39	37	2	0	10
Other	0	0	0	0	0	33	30	3	0	8
European	21	15	3	3	2	316	294	16	6	53
Unknown	2	2	0	0	0	10	9	1	0	1
Total	28	21	3	4	2	482	450	25	7	85

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

Geographic distribution

Of the 450 confirmed cases reported since 1 January, 170 (37.8%) were reported from Auckland, 147 (32.7%) from Waitemata, 32 (7.1%) from Counties Manukau, 26 (5.8%) from Waikato, 24 (5.3%) and Hawke's Bay, 16 (3.6%) from Southern, 10 (2.2%) from Capital and Coast, seven (1.6%) from Bay of Plenty and Canterbury, four (0.9%) from Lakes, three (0.7%) from Northland, two (0.5%) from Taranaki, and one (0.2%) each from Hutt Valley and South Canterbury DHBs.

The 21 confirmed cases in the last week were reported from Auckland and Waitemata (7 cases each), Counties Manukau (4 cases), Southern (2 cases) and Capital and Coast (1 case) DHBs.

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

DHB	12-18 November 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	4	3	1	0	1
Waitemata	8	7	1	0	2	155	147	8	0	16
Auckland	7	7	0	0	0	179	170	9	0	49
Counties Manukau	4	4	0	0	0	33	32	1	0	6
Waikato	0	0	0	0	0	26	26	0	0	2
Lakes	1	0	0	1	0	5	4	0	1	3
Bay of Plenty	0	0	0	0	0	7	7	0	0	4
Tairāwhiti	0	0	0	0	0	0	0	0	0	0
Taranaki	0	0	0	0	0	2	2	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	1	0	1	0	0	1	0	1	0	0
Hutt Valley	1	0	0	1	0	2	1	0	1	0
Capital and Coast	2	1	1	0	0	11	10	1	0	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	0	0	0	0	0
Canterbury	0	0	0	0	0	12	7	4	1	0
South Canterbury	1	0	0	1	0	4	1	0	3	1
Southern	3	2	0	1	0	17	16	0	1	0
New Zealand Total	28	21	3	4	2	482	450	25	7	85

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 15 (71.4%) of the 21 confirmed measles cases reported. Of the 15 cases, 14 were not vaccinated including four cases aged less than 15 months and therefore not eligible for vaccination. One case had received two doses of vaccine.

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

Age Group	Total cases	One dose	Two doses	Vaccinated		Unknown
				(no dose info)	Not vaccinated	
<15mths	4	0	0	0	4	0
15mths-3yrs	3	0	0	0	3	0
4-9 yrs	3	0	0	0	2	1
10-19 yrs	4	0	0	0	4	0
20+ yrs	7	0	1	0	1	5
Unknown	0	0	0	0	0	0
Total	21	0	1	0	14	6

Of the 450 confirmed cases reported since January 2011, 348 (77.3%) had a known vaccination status. Of these 348 cases, 272 were not vaccinated including 47 cases aged less than 15 months and therefore not eligible for vaccination. Fifty-nine cases had received one dose of vaccine and a further 16 cases had completed their second dose. One case was vaccinated but had no dose information recorded.

Note: Of the 56 confirmed cases aged less than 15 months, seven had completed their first dose of vaccine.

Twelve of the 450 confirmed cases were aged 42 years or older (adults born prior to 1969 are assumed to have been exposed to measles and are considered immune^[1], however, one of the 12 cases had received one dose of vaccine).

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

Age Group	Total cases	One dose	Two doses	Vaccinated		Unknown
				(no dose info)	Not vaccinated	
<15mths	56	7	0	0	47	2
15mths-3yrs	53	16	0	0	35	2
4-9 yrs	80	10	2	0	66	2
10-19 yrs	113	10	5	0	83	15
20+ yrs	148	16	9	1	41	81
Unknown	0	0	0	0	0	0
Total	450	59	16	1	272	102

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

^[1]Ministry of Health. 2011. *Immunisation Handbook 2011*. Wellington: Ministry of Health