

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 16 December 2011. Data were extracted from EpiSurv at 10 am, 20 December 2011.

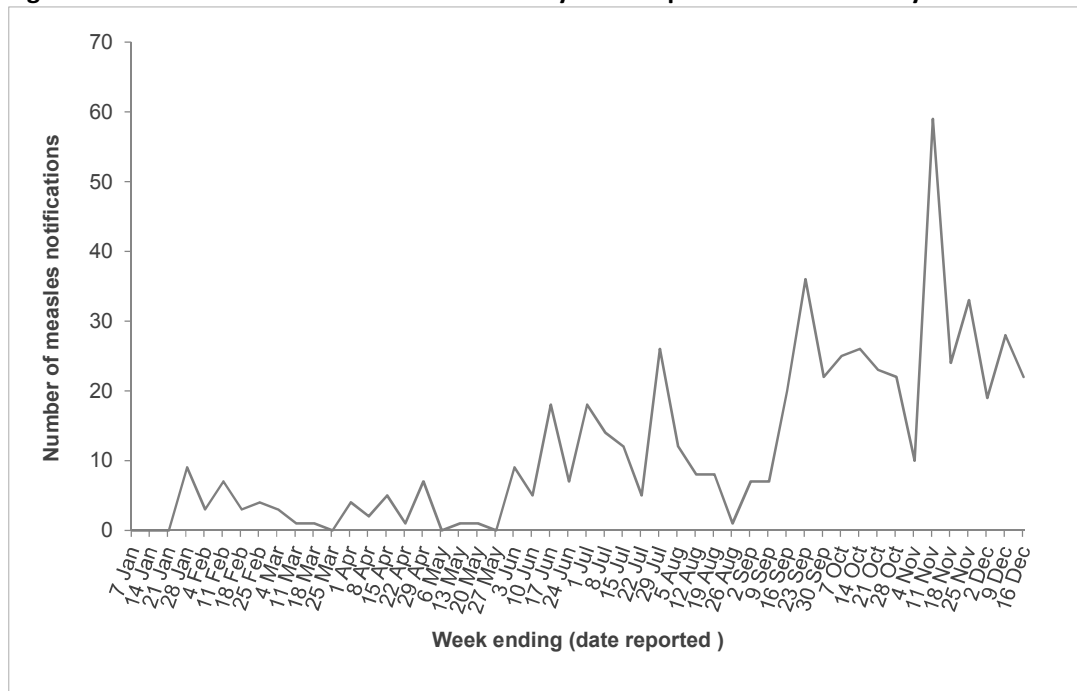
In the last week, 22 new measles cases (32 cases the previous week) were notified from the following DHBs: Counties Manukau (13 cases), Waitemata, Auckland (3 cases each), Waikato, Hawke’s Bay and Nelson Marlborough (1 case each). Of these notifications, 15 were confirmed, four are probable and three are still under investigation. There have been 578 measles cases notified in EpiSurv since January 2011 (compared to 47 cases in 2010 and 245 in 2009 for the same period). Of the total notifications, 537 were confirmed cases, 36 are probable cases and five cases are still under investigation. Cases were reported mainly from the Auckland region (77.9% of total cases), Waikato (4.8%) and Hawke’s Bay (4.7%).

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

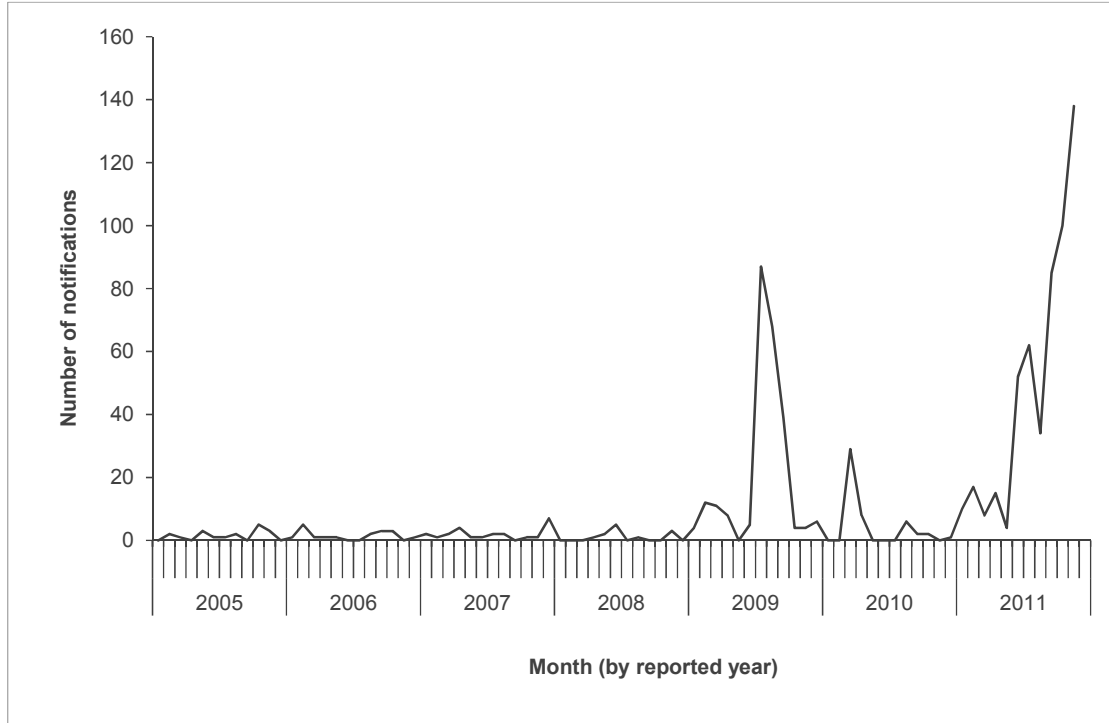
Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 22 cases notified in the last week (32 the previous week)¹. Notifications have decreased in the week ending 16 December 2011. Of the 578 notifications since the beginning of 2011, 97 have been 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 last weekly report not the current count.

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



The onset dates were recorded for 19 (86.4%) of the 22 measles cases notified in the last week, these ranged from 1 to 14 December 2011. Although reporting of onset dates is not always complete, 515 (89.1%) of 578 notifications since 1 January 2011 have onset dates available. The earliest and the most recent onset dates since January 2011 were 6 January and 14 December, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 537 confirmed cases with a known age (reported since 1 January 2011), 220 (41.0%) were aged under 10 years, 166 (30.9%) were aged 20 years or older and 151 (28.1%) were aged 10 to 19 years. Sixty-seven (12.5%) were aged under 15 months.

Of the 537 confirmed cases, 224 (41.7%) were aged 12 months to 12 years and 123 (22.9%) were aged 13 years to 20 years.

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

Age Group	10-16 December 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
<15 mths	4	2	1	1	0	81	67	13	1	18
15 mths-3yrs	4	2	2	0	0	72	61	11	0	5
4-9 yrs	4	3	0	1	0	95	92	1	2	5
10-19 yrs	7	6	1	0	1	156	151	5	0	17
20+ yrs	3	2	0	1	3	174	166	6	2	52
Unknown	0	0	0	0	0	0	0	0	0	0
Total	22	15	4	3	4	578	537	36	5	97
12 mths-12 yrs	13	8	4	1	0	244	224	18	2	18
13 yrs-20 yrs	4	4	0	0	0	126	123	3	0	18

Conf: confirmed, Prob: probable, Hosp: hospitalised

Of the 537 confirmed cases reported since 1 January 2011, 525 had a known ethnicity. Of these, 343 (65.3%) were European, 97 (18.5%) were Māori, 50 (9.5%) were Pacific Peoples, and 35 (6.7%) were in the “Other” ethnic groups (Table 2). Ethnicity was recorded for 14 of the 15 confirmed cases reported in the last week, these were distributed as follows: European (6 cases), Māori (5 cases) and Pacific Peoples (3 cases). Hospitalisations by ethnicity are also depicted in Table 2.

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

Ethnicity (prioritised)	10-16 December 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
Māori	6	5	1	0	1	103	97	6	0	15
Pacific Peoples	3	3	0	0	0	55	50	5	0	12
Other	0	0	0	0	0	39	35	4	0	8
European	11	6	3	2	3	366	343	19	4	60
Unknown	2	1	0	1	0	15	12	2	1	2
Total	22	15	4	3	4	578	537	36	5	97

Geographic distribution

Of the 578 cases reported since 1 January, 537 were confirmed including 197 (36.7%) from Auckland, 165 (30.7%) from Waitemata, 57 (10.6%) from Counties Manukau, 27 (5.0%) from Waikato, 25 (4.7%) from Hawke’s Bay, 18 (3.4%) from Southern, 12 (2.2%) each from Capital and Coast and Canterbury, seven (1.3%) from Bay of Plenty, five (0.9%) from Lakes, three (0.6%) each from Northland and Tairāwhiti, two (0.4) from Taranaki, and one (0.2%) each from MidCentral, Hutt Valley, Nelson Marlborough and South Canterbury DHBs. (Table 3).

The 15 confirmed cases in the last week were reported from Counties Manukau (9 cases), Auckland (3 cases), Waitemata (2 cases), Canterbury (2 cases), and Nelson Marlborough (1 case) DHBs.

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

DHB	10-16 December 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp	Total	Conf	Prob	Other	Hosp
Northland	0	0	0	0	0	4	3	1	0	1
Waitemata	3	2	0	1	0	177	165	11	1	16
Auckland	3	3	0	0	1	208	197	11	0	52
Counties Manukau	13	9	4	0	2	65	57	8	0	12
Waikato	1	0	0	1	0	28	27	0	1	2
Lakes	0	0	0	0	0	6	5	1	0	3
Bay of Plenty	0	0	0	0	0	8	7	0	1	4
Tairāwhiti	0	0	0	0	0	3	3	0	0	1
Taranaki	0	0	0	0	0	2	2	0	0	0
Hawke’s Bay	1	0	0	1	1	27	25	0	2	4
Whanganui	0	0	0	0	0	0	0	0	0	0
MidCentral	0	0	0	0	0	1	1	0	0	1
Hutt Valley	0	0	0	0	0	1	1	0	0	0
Capital and Coast	0	0	0	0	0	12	12	0	0	0
Wairarapa	0	0	0	0	0	0	0	0	0	0
Nelson Marlborough	1	1	0	0	0	1	1	0	0	0
West Coast	0	0	0	0	0	0	0	0	0	0
Canterbury	0	0	0	0	0	16	12	4	0	0
South Canterbury	0	0	0	0	0	1	1	0	0	1
Southern	0	0	0	0	0	18	18	0	0	0
New Zealand Total	22	15	4	3	4	578	537	36	5	97

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 (80.0%) of the 15 confirmed measles cases reported. Of these, 10 were not vaccinated including two cases aged less than 15 months and therefore not eligible for vaccination. Two cases had received one dose 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	2	0	0	0	2	0
15mths-3yrs	2	0	0	0	1	1
4-9 yrs	3	1	0	0	2	0
10-19 yrs	6	1	0	0	5	0
20+ yrs	2	0	0	0	0	2
Unknown	0	0	0	0	0	0
Total	15	2	0	0	10	3

Of the 537 confirmed cases reported since January 2011, 422 (78.6%) had a known vaccination status. Of these 422 cases, 328 were not vaccinated including 58 cases aged less than 15 months and therefore not eligible for vaccination. Seventy cases had received one dose of vaccine and a further 21 cases had completed their second dose. Three cases were vaccinated but had no dose information recorded (Table 5).

Note: Of the 67 confirmed cases aged less than 15 months, seven had completed their first dose of vaccine. Fifteen of the 537 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 15 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	67	7	0	0	58	2
15mths-3yrs	61	19	0	0	39	3
4-9 yrs	92	12	3	0	73	4
10-19 yrs	151	12	9	1	111	18
20+ yrs	166	20	9	2	47	88
Unknown	0	0	0	0	0	0
Total	537	70	21	3	328	115

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