

# MEASLES-RUBELLA



Figure 1. Confirmed measles cases, WHO Western Pacific Region, 1–31 March 2014

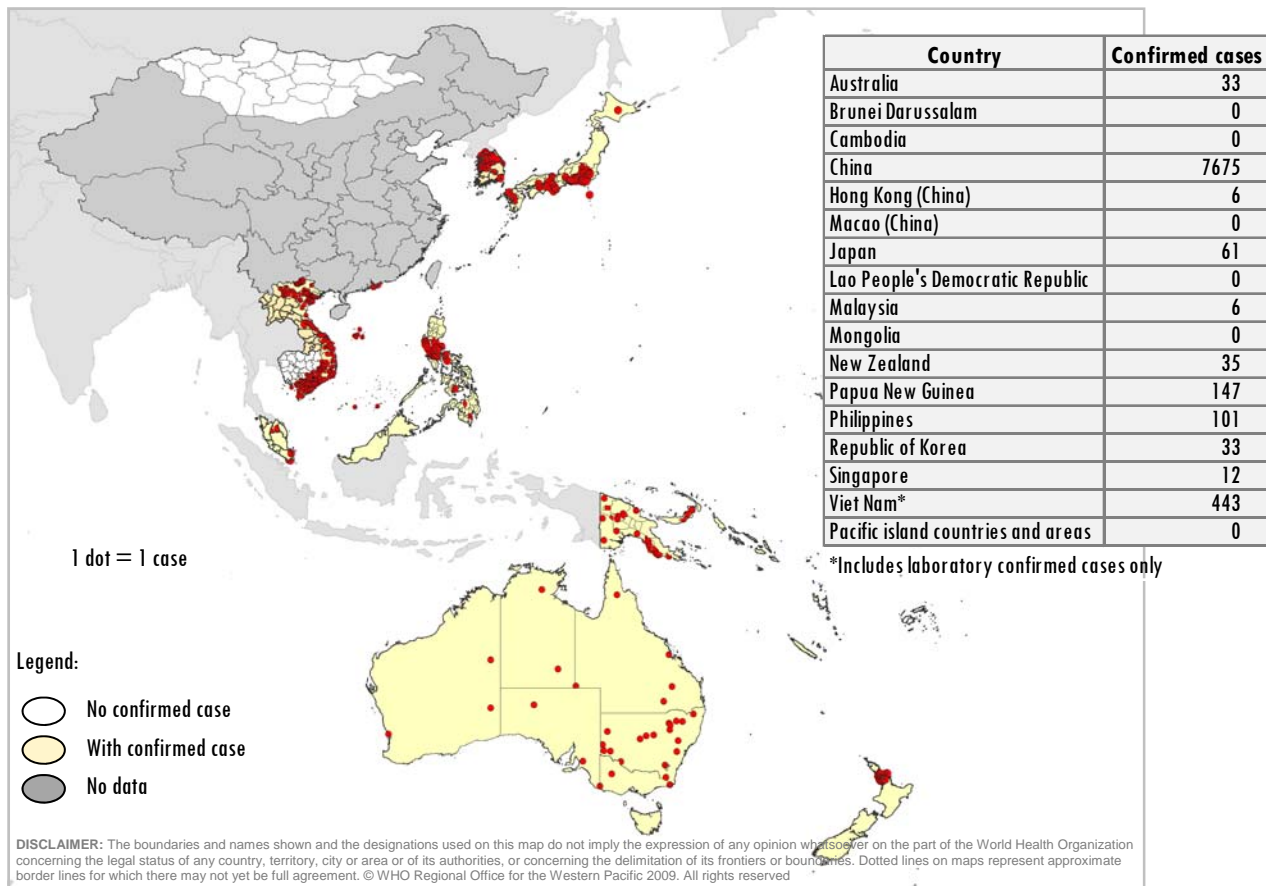
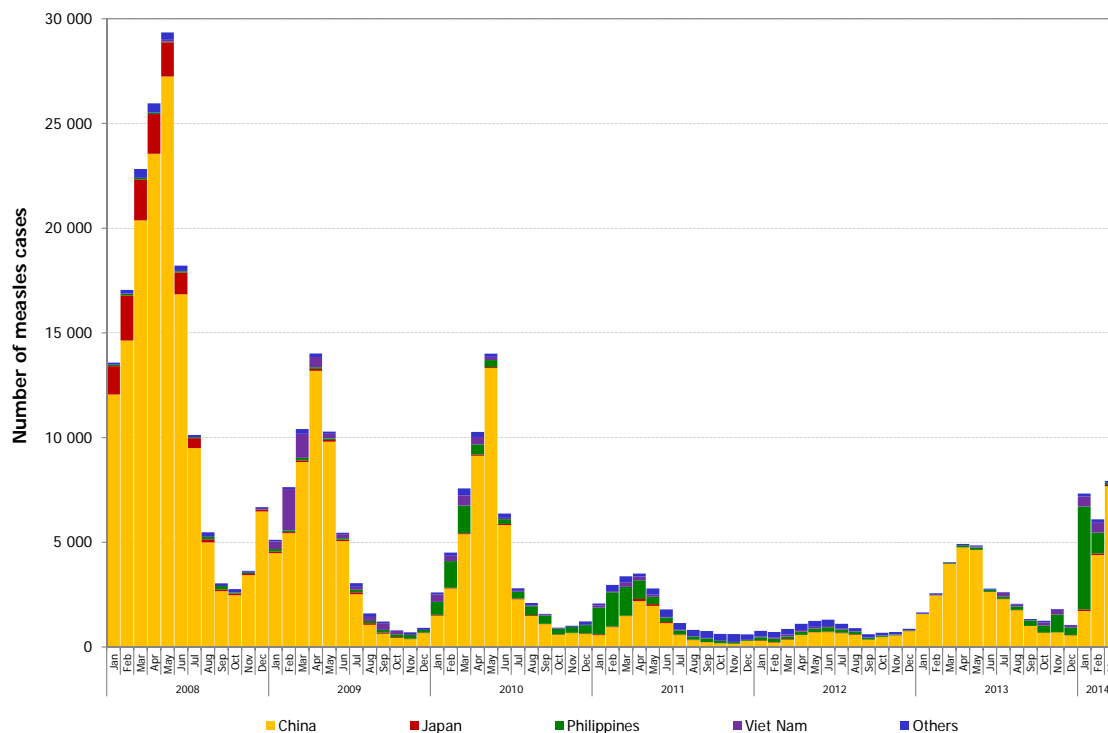


Figure 2. Measles cases by month of onset, WHO Western Pacific Region, 2008–2014<sup>1</sup>



Source: Measles and rubella monthly country reports to WHO by 20 April 2014

<sup>1</sup> Includes laboratory confirmed, epi-linked and clinically confirmed cases for 2008–2012

**Table 1. Measles case classification and incidence by country and area, WHO Western Pacific Region, 2010–2014 <sup>1</sup>**

Country	2010		2011		2012		2013		2014 <sup>1</sup>										Rash onset of last confirmed measles case
	Total confirmed <sup>2</sup>	Measles incidence per 1 million pop.	Total confirmed <sup>2</sup>	Measles incidence per 1 million pop.	Total confirmed <sup>2</sup>	Measles incidence per 1 million pop.	Total confirmed <sup>2</sup>	Measles incidence per 1 million pop.	Population (in millions) <sup>3</sup>	Suspected measles cases	Confirmed measles cases			Annualized measles incidence per 1 million	Compatible cases	Discarded cases <sup>5</sup>	Pending classification	Deaths due to measles	
											Lab	Epi-linked	Total						
Australia	70	3.3	192	8.5	199	8.7	154	6.6	23.50	N/A <sup>4</sup>	160	11	171	29.1	0	0	0	0	31-Mar-14
Brunei Darussalam	0	0.0	4	9.9	1	2.4	0	0.0	0.43	3	0	0	0	0.0	0	3	0	0	24-Jul-12
Cambodia	1 156	76.8	722	50.5	0	0.0	0	0.0	14.84	79	0	0	0	0.0	0	79	0	0	15-Nov-11
China	38 159	28.5	9 943	7.4	6 183	4.6	26912	19.8	1 364.77	30 778	13 694	85	13 779	40.4	1 265	13 427	2 307	4	31-Mar-14
Hong Kong (China)	11	1.6	12	1.7	8	1.1	34	4.7	7.35	56	19	0	19	10.3	0	36	0	0	27-Mar-14
Macao (China)	0	0.0	1	1.8	1	1.8	3	5.2	0.59	3	0	0	0	0.0	0	3	0	0	4-Aug-13
Japan	432	3.4	411	3.2	228	1.8	141	1.1	126.23	329	198	10	208	6.6	17	104	0	0	23-Mar-14
Lao People's Democratic Republic	153	23.8	113	18.0	36	5.6	68	10.5	6.54	72	1	0	1	0.6	0	71	0	0	22-Feb-14
Malaysia	74	2.7	1 603	54.4	1 868	63.7	174	5.8	30.25	1 490	14	0	14	1.9	1	1 055	413	0	25-Mar-14
Mongolia	7	2.6	0	0.0	0	0.0	0	0.0	2.93	32	0	0	0	0.0	0	32	0	0	19-Jun-10
New Zealand	48	11.2	599	135.7	55	12.3	3	0.7	4.55	103	72	24	96	84.3	7	0	0	0	27-Mar-14
Papua New Guinea	0	0.0	0	0.0	0	0.0	7	1.0	7.49	356	164	2	166	88.7	0	156	34	0	2-Mar-14
Philippines	6 388	68.2	6 555	69.1	1 536	15.9	2440	24.9	99.77	26 014	2 231	3 785	6 016	241.2	5 574	819	13 605	41	12-Mar-14
Republic of Korea	111	2.3	43	0.9	2	0.0	116	2.4	48.95	164	63	1	64	5.2	0	77	17	0	28-Mar-14
Singapore	54	11.2	143	27.6	40	7.6	56	10.6	5.34	104	71	0	71	53.2	8	25	0	0	27-Mar-14
Viet Nam	1 826	20.5	745	8.4	637	5.9	802	8.8	91.56	1 486	687	249	936	40.9	4	278	268	0	28-Feb-14
Pacific island countries and areas <sup>6</sup>	1	0.3	2	1.0	0	0.0	0	0.0	3.27	41	1	0	1	1.2	0	40	0	0	4-Jan-14
Western Pacific Region	48 490	27.0	21 088	11.7	10 794	5.9	30 910	16.9	1 838.36	61 110	17 375	4 167	21 542	46.9	6 876	16 205	16 644	45	

<sup>1</sup> Includes all cases reported to the Western Pacific Regional Office by 20 April 2014.

<sup>2</sup> Includes laboratory confirmed, epi-linked and clinically confirmed cases for 2009 to 2012.

<sup>3</sup> United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects.

<sup>4</sup> Australia reports confirmed cases only.

<sup>5</sup> Excludes vaccine-associated cases

<sup>6</sup> Classification is provisional based on laboratory data only.

Green <1 confirmed measles case / 1 000 000 population  
 Yellow 1-9.9 confirmed measles case / 1 000 000 population  
 Red >= 10 confirmed cases / 1 000 000 population

Table 2. Measles surveillance performance indicators by country and area, WHO Western Pacific Region, 2013–2014 <sup>1</sup>

Country	2013				2014 <sup>1</sup>			
	Discarded non-measles rate per 100 000 pop	Second level units with ≥ 2 discarded cases per 100 000 pop	Suspected cases with adequate investigation	Suspected cases with adequate blood specimens <sup>2</sup>	Annualized discarded non-measles rate per 100 000 pop	Second level units with ≥ 2 discarded cases per 100 000 pop (annualized)	Suspected cases with adequate investigation	Suspected cases with adequate blood specimens <sup>2</sup>
	≥ 2	≥ 80%	≥ 80%	≥ 80%	≥ 2	≥ 80%	≥ 80%	≥ 80%
Australia <sup>3</sup>	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data
Brunei Darussalam	3.8	100.0%	87.5%	100.0%	2.8	100.0%	100.0%	100.0%
Cambodia	3.7	45.8%	68.5%	98.0%	2.1	16.7%	59.5%	75.9%
China	3.7	64.5%	99.4%	94.6%	3.9	51.6%	98.8%	88.1%
Hong Kong (China)	2.5	100.0%	94.2%	91.1%	2.0	100.0%	100.0%	100.0%
Macao (China)	2.9	100.0%	95.0%	100.0%	2.0	100.0%	100.0%	100.0%
Japan	0.7	4.3%	Insufficient data	Insufficient data	0.3	0.0%	Insufficient data	Insufficient data
Lao People's Democratic Republic	7.5	58.8%	36.1%	66.5%	4.3	23.5%	88.9%	93.1%
Malaysia	21.0	100.0%	82.3%	81.0%	13.9	93.8%	77.5%	91.1%
Mongolia	7.4	36.4%	100.0%	100.0%	4.4	9.1%	100.0%	100.0%
New Zealand	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data
Papua New Guinea	1.4	25.0%	0.0%	76.3%	8.3	30.0%	0.0%	82.5%
Philippines	3.1	64.7%	61.7%	84.5%	3.3	17.6%	45.2%	80.8%
Republic of Korea	0.8	6.3%	63.7%	72.9%	0.6	12.5%	85.9%	66.3%
Singapore	1.3	0.0%	75.4%	18.1%	1.9	0.0%	88.5%	25.0%
Viet Nam	1.0	21.9%	57.5%	74.8%	1.2	9.4%	74.7%	92.1%
Pacific island countries and areas	2.0	Insufficient data	0.0%	Insufficient data	4.9	Insufficient data	0.0%	Insufficient data
Western Pacific Region	3.5	38.0%	94.0%	92.2%	3.5	23.0%	75.8%	85.2%

<sup>1</sup> Includes all cases reported to the Western Pacific Regional Office by 20 April 2014.

<sup>2</sup> Excludes epidemiologically-linked cases.

<sup>3</sup> Reports only confirmed cases.

Green
Yellow
Red

Reached or surpassed target

Nearly reached target: 1.00–1.99 for non-measles suspected case rate; 10.1–25% for percent clinically confirmed cases; 60–79% for other indicators

Substantially below target

Table 3. Rubella case classification and incidence by country and area, WHO Western Pacific Region, 2014 <sup>1</sup>

Country	2014 <sup>1</sup>									
	Population (in millions) <sup>2</sup>	Investigated rubella cases	Confirmed rubella cases			Annualized rubella incidence per 1 million pop.	Compatible cases	Discarded cases <sup>3</sup>	Pending classification	Congenital rubella syndrome
			Lab	Epi-linked	Total					
Australia	23.50	No data	-	-	-	No data	-	-	-	-
Brunei Darussalam	0.43	3	0	0	0	0.0	0	3	0	-
Cambodia	14.84	79	15	0	15	4.0	3	63	0	-
China	1 364.77	3 356	-	-	3 356	9.8	0	-	-	-
Hong Kong (China)	7.35	56	0	0	0	0.0	0	56	0	-
Macao (China)	0.59	3	0	0	0	0.0	0	3	0	-
Japan	126.23	No data	-	-	-	No data	-	-	-	-
Lao People's Democratic Republic	6.54	72	2	5	7	4.3	0	64	1	-
Malaysia	30.25	1 481	61	32	93	12.3	0	974	414	-
Mongolia	2.93	32	0	0	0	0.0	0	32	0	-
New Zealand	4.55	No data	-	-	-	No data	-	-	-	-
Papua New Guinea	7.49	No data	-	-	-	No data	-	-	-	-
Philippines	99.77	26 053	36	0	36	1.4	0	12 411	13 606	-
Republic of Korea	48.95	164	0	0	0	0.0	0	164	0	-
Singapore	5.34	3	0	0	0	0.0	0	3	0	-
Viet Nam	91.56	1 071	3	0	3	0.1	0	756	311	-
Pacific island countries and areas <sup>4</sup>	3.27	41	3	0	3	3.7	0	38	0	-
Western Pacific Region	1 838.36	32 414	120	37	3 513	7.6	3	14 567	14 332	0

<sup>1</sup> Includes all cases reported to the Western Pacific Regional Office by 20 April 2014.

<sup>2</sup> United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects.

<sup>3</sup> Excludes vaccine-associated cases

<sup>4</sup> Classification is provisional based on laboratory data only.

Green	<1 confirmed measles case / 1 000 000 population
Yellow	1-9.9 confirmed measles case / 1 000 000 population
Red	>= 10 confirmed cases / 1 000 000 population
Gray	No data

**Table 4A. Measles and rubella laboratory performance, WHO Western Pacific Region, 2013<sup>1</sup>**

Country	Laboratory	Measles and rubella		Measles												Rubella			
				Serology								Virus detection				Serum and blood (includes DBS)			
		Total number of cases tested	Total number of samples received	Serum			Blood		Timeliness of results		Measles Virus isolation/detection (swab, urine and others)		Measles Reverse Transcription-Polymerase Chain Reaction		Samples tested for rubella IgM	Rubella IgM (+)		Rubella IgM equiv	
				Samples tested for measles IgM	Measles IgM (+)	Measles IgM equiv	DBS samples	<4 days <sup>2</sup>	<7 days	No. of samples tested	No. of isolates	No. of samples tested	No. (+)	No.		No.	%		No.
No.	No.	%	No.	No. received	No. (+)	%	%	No. of samples tested	No. of isolates	No. of samples tested	No. (+)	No.	No.	%	No.				
Australia	VIDRL	94	127	34	23	67.6	0	0	-	100.0	100.0	0	0	96	79	13	2	15.4	0
Brunei Darussalam	DLS	42	42	38	0	0.0	2	0	-	69.0	88.1	0	0	0	0	40	3	7.5	0
Cambodia	NPHL	537	537	478	0	0.0	0	59	0	76.0	81.9	0	0	0	0	537	105	19.6	0
China	CCDC																		
Hong Kong (China)	PHLC	622	726	669	25	3.7	12	0	-	91.5	98.4	24	13	63	40	615	9	1.5	14
Macao (China)	PHLC	43	43	43	4	9.3	1	0	-	97.7	100.0	0	0	0	0	43	0	0.0	0
Japan	NIID	1 136	1 136	393	195	49.6	0	0	-	No data	No data	52	52	717	106	37	16	43.2	1
Lao People's Democratic Republic	NCLE	366	366	366	29	7.9	21	0	-	83.9	97.0	0	0	0	0	366	19	5.2	48
Malaysia	NPHL	7 586	8 645	6 863	241	3.5	73	0	-	53.5	81.0	1 615	14	0	0	6 783	807	11.9	227
Mongolia	NCCD	213	213	213	0	0.0	0	0	-	99.5	99.5	0	0	0	0	213	8	3.8	7
New Zealand	CHL	159	176	107	5	4.7	3	0	-	95.1	97.1	1	0	49	3	93	4	4.3	1
Papua New Guinea	CPHL	85	85	80	10	12.5	0	3	0	76.3	95.0	0	0	12	2	83	4	4.8	2
Philippines	RITM	6 057	6 069	5 807	2 416	41.6	277	120	23	68.2	80.2	304	90	32	6	3 241	106	3.3	165
Republic of Korea	KCDC	635	825	487	108	22.2	6	0	-	66.4	92.5	65	65	379	96	430	28	6.5	22
Singapore	SGH	434	691	199	16	8.0	7	0	-	85.2	98.7	186	5	0	0	291	16	5.5	10
Viet Nam (central)	Nha Trang	167	167	167	0	0.0	5	0	-	77.8	92.8	0	0	0	0	167	3	1.8	7
Viet Nam (northern)	NIHE	979	987	944	303	32.1	36	0	-	92.1	97.0	41	0	71	45	821	19	2.3	17
Viet Nam (southern)	PI	386	458	368	81	22.0	7	0	-	89.1	98.9	90	3	90	3	368	5	1.4	9
Fiji	Mataika House	60	61	59	0	0.0	0	1	0	89.7	94.8	0	0	0	0	50	4	8.0	0
Samoa	VIDRL	3	3	3	0	0.0	0	0	-	0.0	100.0	0	0	0	0	1	0	0.0	0
Solomon Islands	VIDRL	4	4	0	-	-	-	0	-	0.0	100.0	0	0	0	0	4	1	25.0	0
<b>Total</b>		<b>19 608</b>	<b>21 361</b>	<b>17 318</b>	<b>3 456</b>	<b>20.0</b>	<b>450</b>	<b>183</b>	<b>23</b>	<b>66.3</b>	<b>84.2</b>	<b>2 378</b>	<b>242</b>	<b>1 509</b>	<b>380</b>	<b>14 196</b>	<b>1 159</b>	<b>8.2</b>	<b>530</b>

<sup>1</sup> National measles laboratory monthly reports received in the Western Pacific Regional Office by 20th of February 2014

<sup>2</sup> Recommendation from the Fourth Meeting on Vaccine Preventable Diseases Laboratory Networks in the Western Pacific Region

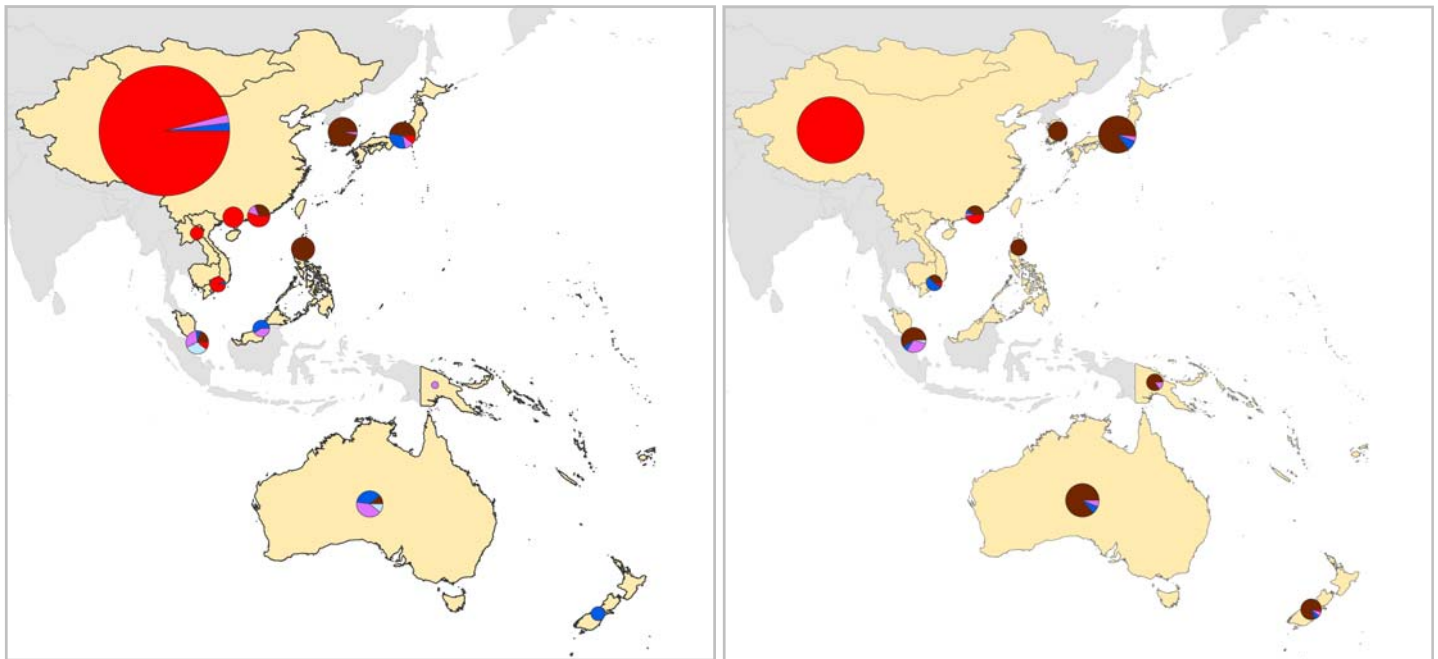
**Table 4B. Measles and rubella laboratory performance, WHO Western Pacific Region, 2014<sup>1</sup>**

Country	Laboratory	Measles and rubella		Measles												Rubella				
				Serology						Virus detection						Serum and blood (includes DBS)				
		Total number of cases tested	Total number of samples received	Serum			Blood		Timeliness of results		Measles Virus isolation/detection (swab, urine and others)		Measles Reverse Transcription-Polymerase Chain Reaction		Total number of lab confirmed cases	Samples tested for rubella IgM	Rubella IgM (+)		Rubella IgM equiv	
				No.	No.	%	No.	No. received	No. (+)	<4 days <sup>2</sup>	<7 days	No. of samples tested	No. of isolates	No. of samples tested			No. (+)	No.		No.
Australia	VIDRL	128	187	45	29	64.4	0	0	-	100.0	100.0	0	0	146	134	112	20	0	0.0	0
Brunei Darussalam	DLS	11	11	10	0	0.0	0	0	-	90.9	100.0	0	0	0	0	0	11	1	9.1	0
Cambodia	NPHL	78	78	75	0	0.0	0	3	0	100.0	100.0	0	0	0	0	0	78	15	19.2	0
China	CCDC																			
Hong Kong (China)	PHLC	158	191	161	10	6.2	7	0	-	94.6	99.3	14	7	35	23	20	137	2	1.5	1
Macao (China)	PHLC	16	16	16	0	0.0	0	0	-	100.0	100.0	0	0	0	0	0	16	0	0.0	0
Japan	NIID	183	No data	115	73	63.5	0	0	-	No data	No data	71	71	236	172	115	No data	No data	No data	No data
Lao People's Democratic Republic	NCLE	67	67	67	1	1.5	1	0	-	100.0	100.0	0	0	0	0	1	66	2	3.0	4
Malaysia	NPHL	995	1 107	946	16	1.7	8	0	-	43.9	92.1	154	0	0	0	16	410	9	2.2	5
Mongolia	NCCD	32	32	32	0	0.0	0	0	-	100.0	100.0	0	0	0	0	0	32	0	0.0	1
New Zealand	CHL	192	227	85	24	28.2	3	0	-	98.1	98.1	0	0	135	75	85	46	1	2.2	0
Papua New Guinea	CPHL	368	372	368	143	38.9	27	0	-	97.8	100.0	0	0	2	2	4	371	12	3.2	22
Philippines	RITM	17 423	17 517	7 196	4 768	66.3	295	130	77	1.4	1.5	62	16	0	0	4 852	1 674	49	2.9	5
Republic of Korea	KCDC	210	262	165	67	40.6	18	0	-	79.0	100.0	22	22	142	38	80	105	7	6.7	6
Singapore	SGH	160	187	59	21	35.6	4	0	-	71.8	74.2	56	5	0	0	26	56	1	1.8	0
Viet Nam (central)	Nha Trang	203	203	198	106	53.5	4	0	-	96.4	99.0	0	0	24	13	109	27	0	0.0	5
Viet Nam (highland)	IHE	125	125	124	73	58.9	0	0	-	39.0	67.5	0	0	0	0	73	124	0	0.0	0
Viet Nam (northern)	NIHE	1 292	1 292	1 273	706	55.5	80	0	-	95.8	96.5	19	1	19	0	707	744	11	1.5	14
Viet Nam (southern)	PI	1 699	2 269	1 699	804	47.3	11	0	-	60.5	80.7	570	0	570	0	804	1 101	3	0.3	5
Fiji	Mataika House	48	48	31	0	0.0	0	17	1	89.4	97.9	0	0	0	0	1	48	3	6.3	0
<b>Total</b>		<b>23 388</b>	<b>24 191</b>	<b>12 665</b>	<b>6 841</b>	<b>54.</b>	<b>458</b>	<b>150</b>	<b>78</b>	<b>29.9</b>	<b>36.2</b>	<b>968</b>	<b>122</b>	<b>1 309</b>	<b>457</b>	<b>7 005</b>	<b>5 066</b>	<b>116</b>	<b>2.3</b>	<b>68</b>

<sup>1</sup> National measles laboratory monthly reports received in the Western Pacific Regional Office by 20th of April 2014

<sup>2</sup> Recommendation from the Fourth Meeting on Vaccine Preventable Diseases Laboratory Networks in the Western Pacific Region

**Figure 3. Measles genotype distribution of cases with onset in 2013 and 2014, WHO Western Pacific Region**



\* Size of the pie chart is proportional to the number of genotypes reported by the country



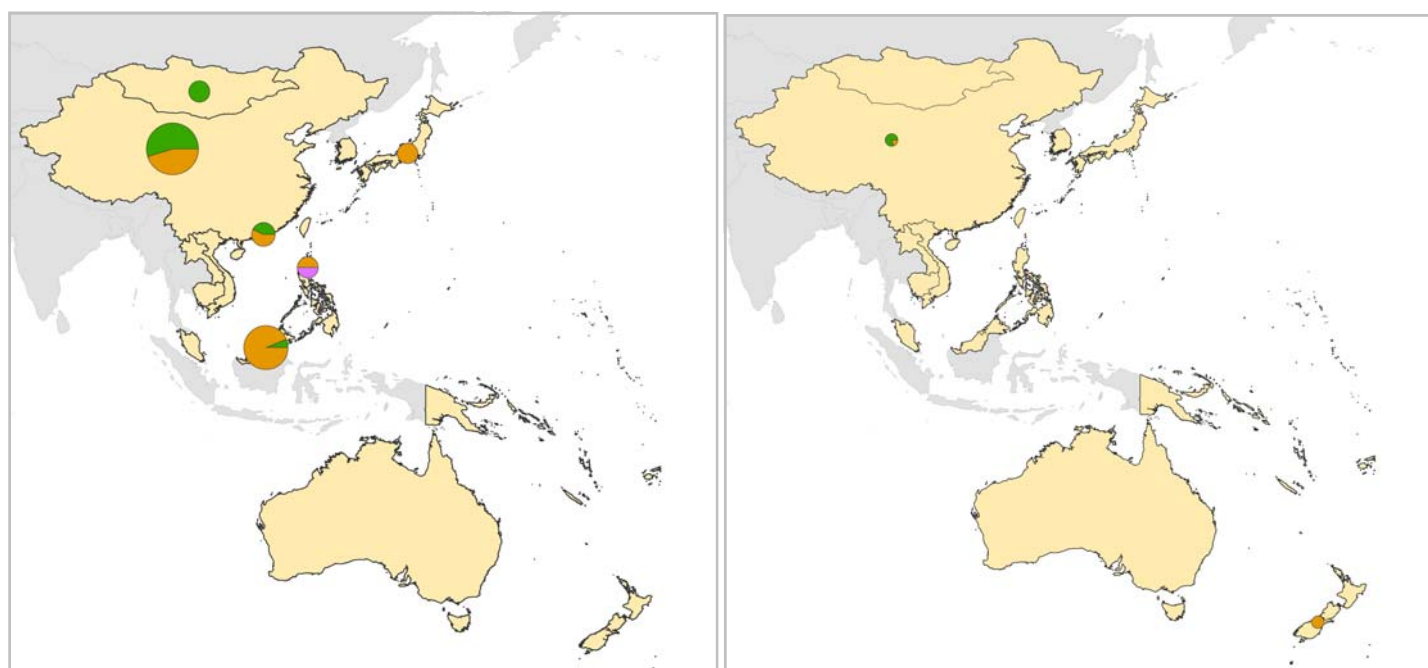
**Table 5. Measles genotype distribution of cases with onset in 2013 and 2014, WHO Western Pacific Region**

Country	2013				2014			
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Australia	B3(1), D9(3), H1(1)	B3(3), D9(2)	B3(5), D9(10), H1(2), G3(5)	B3(5), D9(6), H1(3), G3(18)	B3(82), D8(7), D9(6)			
Brunei Darussalam								
Cambodia								
China	H1(112)	D8(28), D9(10), H1(1253)	D8(15), D9(9), H1(585)	B3(3), D8(8), D9(22), H1(235)	H1(514), D9(2), G3(1)			
Hong Kong (China)	H1(4)	D9(1), H1(5)	B3(2), D9(1), H1(4)	B3(7), D9(2), H1(3)	B3(7), D8(1), D9(1), H1(8)			
Macao (China)		H1(1)	H1(2)					
Japan	B3(2), D8(6), D9(2), H1(3)	B3(1), D8(3), D9(1), H1(2)	B3(11), D8(5), D9(1)	B3(8), D9(1)	B3(106), D8(11), D9(5), H1(2)			
Lao People's Democratic Republic	H1(10)							
Malaysia	D8(1), D9(5)	D8(2)	D8(4)					
Mongolia								
New Zealand		D8(1)		B3(1)	B3(21), D8(2), D9(2), H1(1)			
Papua New Guinea				D9(1)	B3(11), D9(2)			
Philippines		B3(13)	B3(17)		B3(12)			
Republic of Korea	B3(3)	B3(41)	B3(17)	B3(10), D9(2)	B3(20)			
Singapore	D8(1)	B3(3), H1(3)	D9(7)	B3(3), D8(2), D9(2), G3(10)	B3(26), D8(3), D9(13), G3(2)			
Viet Nam		H1(7)	H1(4)	H1(3), D8(1)	B3(4), D8(6), H1(1)			
Pacific island countries and areas								

Sources: National and regional measles reference laboratory monthly reports from March 2014 and the Measles Nucleotide Sequence online database (MeaNS).

The boundaries and names shown and the designations used on the maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.  
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**Figure 4. Rubella genotype distribution of cases with onset in 2013 and 2014, WHO Western Pacific Region**



\* Size of the pie chart is proportional to the number of genotypes reported by the country



**Table 6. Rubella genotype distribution of cases with onset in 2013 and 2014, WHO Western Pacific Region**

Country	2013				2014			
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Australia								
Brunei Darussalam								
Cambodia								
China	1E(21), 2B(7)	1E(62), 2B(22)	1E(3)		1E(4), 2B(1)			
Hong Kong (China)	1E(1), 2B(2)	1E(2), 2B(2)						
Macao (China)								
Japan	2B(1)	2B(5)						
Lao People's Democratic Republic								
Malaysia	1E(3), 2B(25)	2B(15)	2B(6)					
Mongolia		1E(2)						
New Zealand					2B(1)			
Papua New Guinea								
Philippines	2B(1)	1j(2)	2B(1)					
Republic of Korea								
Singapore								
Viet Nam								
Pacific island countries and areas								

Sources: National and regional measles reference laboratory monthly reports from March 2014 and the Measles Nucleotide Sequence online database (MeaNS).

The boundaries and names shown and the designations used on the maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.  
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**Table 7A. Completeness and timeliness of epidemiologic reporting, WHO Western Pacific Region, 2012–2014**

Country	2012		2013		2014 <sup>1</sup>			Completeness <sup>2</sup>	Timeliness <sup>3</sup>
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Mar		
					10 Feb	10 Mar	10 Apr		
Australia	100%	100%	100%	100%	11 Feb	07 Mar	09 Apr	100%	67%
Brunei Darussalam	100%	100%	100%	100%	06 Feb	08 Mar	08 Apr	100%	100%
Cambodia	100%	92%	100%	100%	10 Feb	10 Mar	10 Apr	100%	100%
China	100%	83%	100%	83%	14 Feb	19 Mar	11 Apr	100%	67%
Hong Kong (China)	100%	100%	100%	100%	10 Feb	07 Mar	08 Apr	100%	100%
Macao (China)	100%	100%	100%	100%	06 Feb	05 Mar	04 Apr	100%	100%
Japan	100%	100%	100%	83%	11 Feb	12 Mar	13 Apr	100%	0%
Lao People's Democratic Republic	100%	75%	100%	100%	10 Feb	10 Mar	10 Apr	100%	100%
Malaysia	100%	92%	100%	100%	04 Feb	03 Mar	03 Apr	100%	100%
Mongolia	100%	100%	100%	100%	10 Feb	07 Mar	07 Apr	100%	100%
New Zealand	100%	83%	100%	92%	04 Feb	06 Mar	09 Apr	100%	100%
Papua New Guinea	83%	33%	100%	92%	10 Feb	10 Mar	09 Apr	100%	100%
Philippines	100%	100%	100%	100%	09 Feb	08 Mar	04 Apr	100%	100%
Republic of Korea	100%	100%	100%	100%	06 Feb	10 Mar	09 Apr	100%	100%
Singapore	100%	100%	100%	100%	10 Feb	10 Mar	07 Apr	100%	100%
Viet Nam	100%	92%	100%	100%	10 Feb	10 Mar	10 Apr	100%	100%
Pacific island countries and areas	100%	100%	100%	100%	03 Feb	04 Mar	09 Apr	100%	100%
Completeness	99%		100%		100%	100%	100%	100%	
Timeliness		92%		97%	88%	88%	94%		90%

<sup>1</sup> National measles surveillance monthly reports from March 2014.

Legend: black = timely report; red = untimely report

<sup>2</sup> Completeness is defined as the number of reports received by the end of the reporting month divided by the number of expected reports for the year.

<sup>3</sup> Countries and areas should submit reports by the 10th (or the next working day) of the following month; Pacific island countries and areas and China may report to the Regional Office by the 15th (or the next working day) of the following month.

**Table 7B. Completeness and timeliness of laboratory reporting, WHO Western Pacific Region, 2012–2014**

Country	2012		2013		2014 <sup>1</sup>			Completeness <sup>3</sup>	Timeliness <sup>4</sup>
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Mar		
					10 Feb	10 Mar	10 Apr		
Australia	100%	100%	100%	100%	04 Feb	05 Mar	01 Apr	100%	100%
Brunei Darussalam			100%	78%	04 Feb	04 Mar	02 Apr	100%	100%
Cambodia	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	100%	100%
China	17%	17%	100%	100%	07 Feb	07 Mar	09 Apr	100%	100%
Hong Kong (China)	100%	100%	100%	100%	07 Feb	08 Mar	08 Apr	100%	100%
Macao (China)	100%	100%	100%	100%	09 Feb	05 Mar	05 Apr	100%	100%
Japan	100%	100%	100%	100%	12 Feb	12 Mar	13 Apr	100%	0%
Lao People's Democratic Republic	100%	92%	92%	92%	08 Feb	10 Mar	10 Apr	100%	100%
Malaysia	100%	58%	100%	100%	10 Feb	10 Mar		67%	67%
Mongolia	100%	100%	100%	100%	05 Feb	05 Mar	03 Apr	100%	100%
New Zealand	100%	100%	100%	100%	04 Feb	06 Mar	09 Apr	100%	100%
Papua New Guinea	92%	50%	83%	83%	17 Feb	05 Mar	08 Apr	100%	67%
Philippines	100%	92%	100%	100%	07 Feb	11 Mar	10 Apr	100%	67%
Republic of Korea	100%	100%	100%	100%	07 Feb	10 Mar	10 Apr	100%	100%
Singapore	100%	100%	100%	100%	10 Feb	10 Mar	07 Apr	100%	100%
Viet Nam (central)						10 Mar	10 Apr	100%	100%
Viet Nam (highlands)						10 Mar	10 Apr	100%	100%
Viet Nam (northern)	92%	83%	100%	50%	11 Feb	10 Mar	10 Apr	100%	67%
Viet Nam (southern)	83%	83%	100%	67%	10 Feb	10 Mar	10 Apr	100%	100%
Fiji	100%	100%	100%	100%	03 Feb	04 Mar	09 Apr	100%	100%
Completeness	93%		99%		100%	100%	95%	98%	
Timeliness		87%		92%	83%	90%	95%		90%

<sup>1</sup> National measles laboratory monthly reports from March 2014.

<sup>2</sup> Completeness is defined as the number of reports received by the end of the reporting month divided by the number of expected reports for the year.

<sup>3</sup> National measles and rubella laboratories should submit monthly reports by the 10th (or the next working day) of the following month.

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Please send your comments and monthly data before the 10th of the month to:  
[WPR\\_EPIdata@wpro.who.int](mailto:WPR_EPIdata@wpro.who.int)