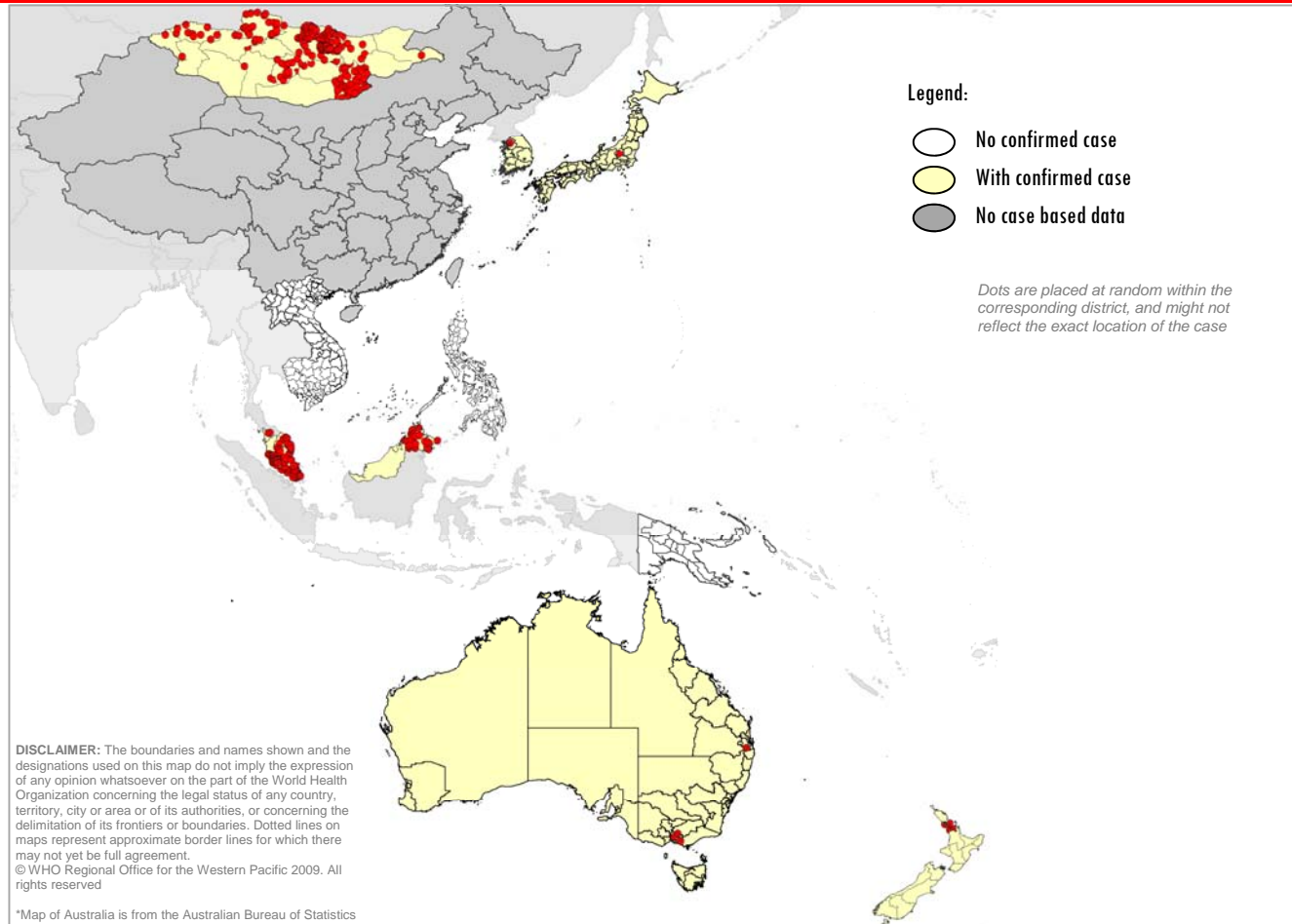


# MEASLES-RUBELLA

Figure 1. Distribution of confirmed measles cases with rash onset 1–29 February 2016, WHO Western Pacific Region



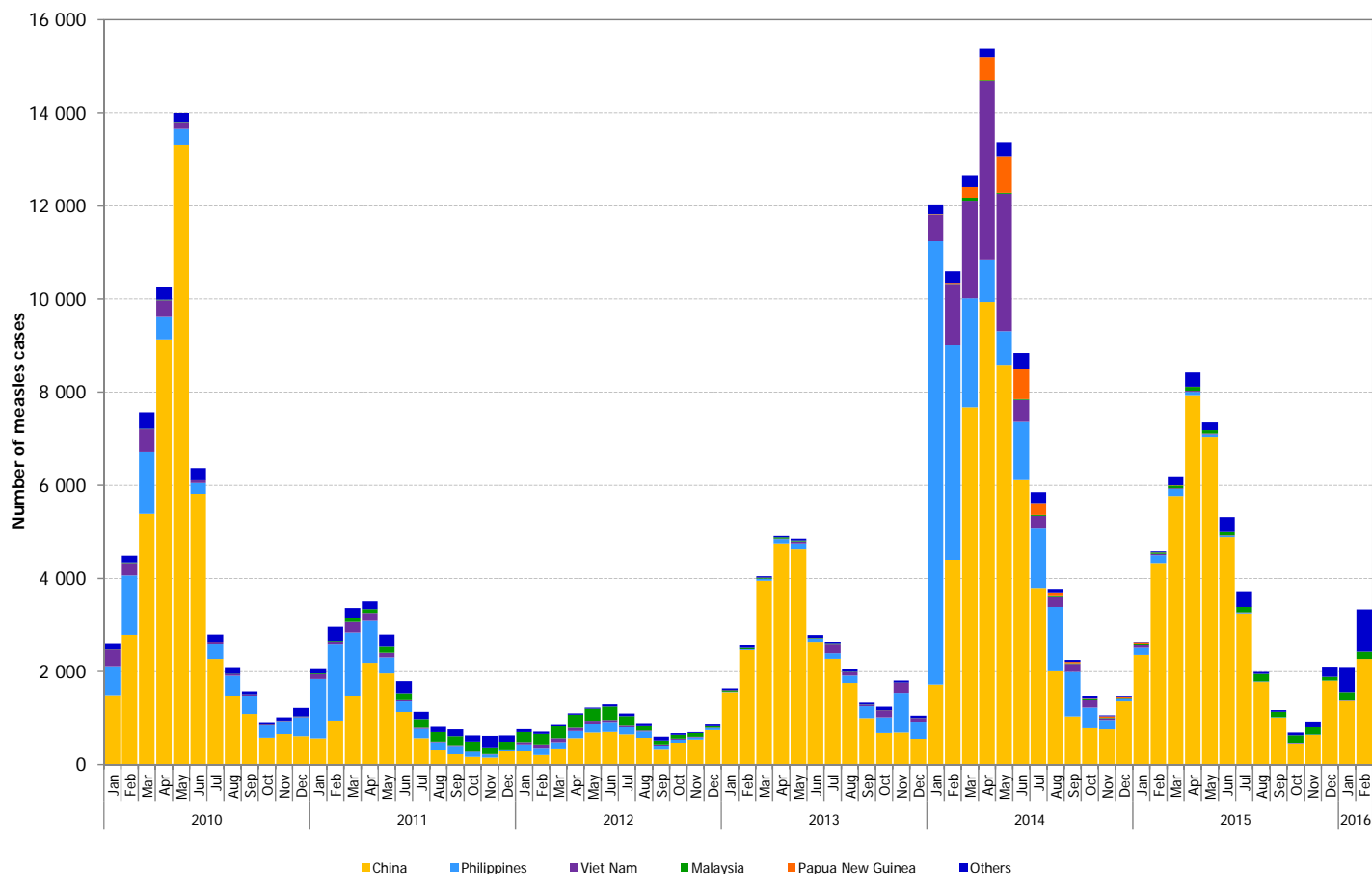
Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 March 2016

Table 1. Confirmed measles cases by month of rash onset, March 2015 – February 2016, WHO Western Pacific Region

Country/area	2015										2016	
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Australia	11	9	5	5	3	7	9	0	4	5	6	14
Brunei Darussalam	0	1	3	0	0	0	0	0	0	0	0	0
Cambodia	0	0	0	0	0	0	0	0	0	0	2	0
China	5767	7937	7035	4882	3249	1772	1011	453	635	1805	1366	2270
China, Hong Kong SAR	1	2	3	2	1	0	1	0	1	0	0	0
China, Macao SAR	0	0	0	0	0	0	0	0	0	0	0	0
Japan	3	11	2	3	1	1	1	3	3	1	1	1
Lao People's Democratic Republic	6	2	0	0	0	0	0	0	0	0	0	0
Malaysia	55	83	71	92	117	163	116	163	153	75	186	154
Mongolia	159	265	162	290	301	32	16	53	116	216	524	891
New Zealand	3	2	5	0	0	0	0	0	0	1	1	5
Papua New Guinea	7	2	0	0	1	1	1	0	0	0	0	0
Philippines	148	69	50	30	18	9	7	7	6	1	4	0
Republic of Korea	4	1	0	1	1	0	0	0	0	0	0	1
Singapore	2	7	2	2	8	2	4	3	3	1	1	3
Viet Nam	22	25	24	6	8	4	0	7	3	0	6	0
Pacific island countries and areas	7	2	3	0	0	0	3	0	0	0	0	0
<b>Western Pacific Region</b>	<b>6195</b>	<b>8418</b>	<b>7226</b>	<b>5313</b>	<b>3708</b>	<b>1991</b>	<b>1169</b>	<b>689</b>	<b>924</b>	<b>2105</b>	<b>2097</b>	<b>3339</b>

Source: Case based and aggregate data reports to the Western Pacific Regional Office by 20 March 2016

Figure 2. Confirmed measles cases by month of rash onset, WHO Western Pacific Region, 2010–2016 as of 20 March 2016



Source: Measles and rubella monthly country reports to WHO by 20 March 2016  
Includes laboratory confirmed, epi-linked and clinically confirmed cases for 2010–2012

Table 2. Status of measles verification, WHO Western Pacific Region

Country/area	Year verified	2015					% of cases with known source of infection	2016					% of cases with known source of infection
		No. of confirmed cases	Source of infection					No. of confirmed cases	Source of infection				
			Imported	Import-related	Unknown/not reported	Endemic			Imported	Import-related	Unknown/not reported	Endemic	
Australia	2014	74	33	30	11	0	85.1%	20	2	0	18	0	10.0%
Brunei Darussalam	2015	4	1	3	0	0	100.0%	0	-	-	-	-	-
Cambodia	2015	0	-	-	-	-	-	2	0	0	2	0	0.0%
China	-	41 217	0	0	41 217	0	0.0%	3 636	0	0	3 636	0	0.0%
China, Hong Kong SAR	-	12	3	0	9	0	25.0%	0	-	-	-	-	-
China, Macao SAR	2014	0	-	-	-	-	-	0	-	-	-	-	-
Japan	2015	32	16	10	6	0	81.3%	2	1	0	1	0	50.0%
Lao People's Democratic Republic	-	11	0	0	11	0	0.0%	0	-	-	-	-	-
Malaysia	-	1 135	2	0	516	617	0.2%	340	1	0	123	216	0.3%
Mongolia	2014	1 612	0	1 611	1	0	99.9%	1 416	0	1 416	0	0	100.0%
New Zealand	-	13	0	0	13	0	0.0%	6	0	0	6	0	0.0%
Papua New Guinea	-	51	0	0	51	0	0.0%	0	-	-	-	-	-
Philippines	-	688	0	0	688	0	0.0%	4	0	0	4	0	0.0%
Republic of Korea	2014	7	3	1	3	0	57.1%	1	1	0	0	0	100.0%
Singapore	-	39	9	1	29	0	25.6%	4	1	0	3	0	25.0%
Viet Nam	-	183	0	0	183	0	0.0%	6	0	0	6	0	0.0%
Pacific island countries and areas	-	20	0	0	20	0	0.0%	0	-	-	-	-	-
<b>Total</b>		<b>45 098</b>	<b>67</b>	<b>1 656</b>	<b>42 758</b>	<b>617</b>	<b>3.8%</b>	<b>5 437</b>	<b>6</b>	<b>1 416</b>	<b>3 799</b>	<b>216</b>	<b>26.2%</b>

Blue No measles cases  
Green ≥80%  
Yellow 60–79%  
Red <60%

Source: Measles and rubella monthly country reports to WHO by 20 March 2016

**Table 3. Measles case classification and incidence by country and area, WHO Western Pacific Region, 2010–2016 as of 20 March 2016**

Country/area	2012		2013		2014		2015		2016										Rash onset of last confirmed measles case
	Total confirmed <sup>1</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	Pending classification	Discarded cases <sup>4</sup>	Compatible cases	Confirmed measles cases				Deaths due to measles	
														Lab	Epi-linked	Total confirmed	Annualized measles incidence per 1 million pop.		
Australia	199	8.7	154	6.6	340	14.5	74	3.3	24.3	NA <sup>4</sup>	0	0	0	18	2	20	4.9	0	26-Feb-16
Brunei Darussalam	1	2.4	0	0.0	0	0.0	4	9.0	0.4	4	0	4	0	0	0	0	0.0	0	16-May-15
Cambodia	0	0.0	0	0.0	0	0.0	0	0.0	15.8	74	0	72	0	2	0	2	0.8	0	12-Jan-16
China	6 183	4.6	26 912	19.8	48 123	35.3	41 217	29.5	1 382.3	9 502	733	4 299	834	3 615	21	3 636	15.8	5	29-Feb-16
China, Hong Kong SAR	8	1.1	34	4.7	46	6.3	12	1.6	7.3	23	0	23	0	0	0	0	0.0	0	2-Nov-15
China, Macao SAR	1	1.8	3	5.2	1	1.7	0	0.0	0.6	3	0	3	0	0	0	0	0.0	0	3-Jun-14
Japan	228	1.8	141	1.1	434	3.4	32	0.3	126.3	22	1	18	0	2	0	2	0.1	0	12-Feb-16
Lao People's Democratic Republic	36	5.6	68	10.5	70	10.7	11	1.6	6.9	159	52	107	0	0	0	0	0.0	0	16-Apr-15
Malaysia	1 868	63.7	177	5.9	213	7.0	1 135	37.8	30.8	1 104	184	546	34	317	23	340	66.3	0	25-Feb-16
Mongolia	0	0.0	0	0.0	0	0.0	1 612	564.7	3.0	6 816	110	524	4 766	880	536	1 416	2825.9	1	29-Feb-16
New Zealand	55	12.3	9	2.0	263	57.7	13	2.9	4.6	10	4	0	0	4	2	6	7.9	0	27-Feb-16
Papua New Guinea	0	0.0	7	1.0	2 589	345.9	51	6.6	7.8	0	-	-	-	-	-	0	0.0	-	14-Nov-15
Philippines	1 536	15.9	3 777	38.5	23 708	237.6	688	6.8	102.3	237	55	93	85	4	0	4	0.2	0	19-Jan-16
Republic of Korea	2	0.0	107	2.2	442	9.0	7	0.1	50.5	37	5	31	0	1	0	1	0.1	0	10-Feb-16
Singapore	40	7.6	56	10.6	134	25.1	39	7.7	5.7	11	0	6	1	4	0	4	4.2	0	20-Feb-16
Viet Nam	637	5.9	895	9.9	12 223	133.5	183	2.0	94.4	53	10	34	3	6	0	6	0.4	0	31-Jan-16
Pacific island countries and areas <sup>5</sup>	0	0.0	0	0.0	273	83.4	20	6.1	3.3	22	0	22	0	0	0	0	0.0	0	19-Sep-15
Western Pacific Region	10 794	5.9	32 340	17.7	88 859	48.3	45 098	24.1	1 866.3	18 077	1 154	5 782	5 723	4 853	584	5 437	17.5	6	

<sup>1</sup> Includes laboratory confirmed, epi-linked and clinically confirmed cases for 2009 to 2012.

<sup>2</sup> Includes laboratory confirmed and epi-linked confirmed cases from 2013 to 2016.

<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> Classification is provisional based on laboratory data only.



Table 4. Measles surveillance performance indicators by country and area, WHO Western Pacific Region, 2015–2016 as of 20 March 2016

Country/area	2015				2016			
	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>1</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>1</sup>
	≥ 2	≥ 80%	≥ 80%	≥ 80%	≥ 2	≥ 80%	≥ 80%	≥ 80%
Australia <sup>2</sup>	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data
Brunei Darussalam	4.5	100.0%	100.0%	95.8%	5.6	100.0%	100.0%	100.0%
Cambodia	4.4	91.7%	80.5%	98.7%	2.7	41.7%	85.1%	98.6%
China	4.5	83.9%	95.0%	85.7%	1.9	6.5%	91.3%	76.0%
China, Hong Kong SAR	2.1	100.0%	98.8%	97.7%	1.9	0.0%	100.0%	100.0%
China, Macao SAR	1.8	0.0%	100.0%	100.0%	3.0	100.0%	66.7%	100.0%
Japan	0.2	0.0%	Insufficient data	Insufficient data	0.1	0.0%	Insufficient data	Insufficient data
Lao People's Democratic Republic	7.6	88.2%	79.6%	79.9%	9.3	29.4%	43.4%	39.0%
Malaysia	10.0	87.5%	73.5%	84.4%	10.7	81.3%	75.8%	86.7%
Mongolia	52.5	81.8%	7.7%	13.6%	104.6	68.2%	9.3%	24.1%
New Zealand	0.5	Insufficient data	Insufficient data	Insufficient data	0.0	Insufficient data	Insufficient data	Insufficient data
Papua New Guinea	1.5	20.0%	56.5%	84.7%	0.0	0.0%	Not applicable	Not applicable
Philippines	1.4	29.4%	56.8%	69.7%	0.5	5.9%	70.5%	77.6%
Republic of Korea	0.6	81.3%	68.8%	74.5%	0.4	56.3%	89.2%	64.9%
Singapore	1.1	0.0%	92.9%	19.2%	0.6	0.0%	100.0%	18.2%
Viet Nam	1.5	15.6%	42.2%	70.4%	0.2	0.0%	39.6%	79.2%
Pacific island countries and areas	6.6	17.4%	0.0%	68.6%	4.1	4.3%	0.0%	22.7%
Western Pacific Region	3.9	44.3%	78.6%	73.9%	1.9	19.3%	59.8%	57.7%

<sup>1</sup> Excludes epidemiologically-linked cases.

<sup>2</sup> Reports only confirmed cases.

Green	Reached or surpassed target
Yellow	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
Red	Substantially below target

Table 5. Rubella case classification and incidence by country and area, WHO Western Pacific Region, 2015–2016 as of 20 March 2016

Country/area	2014		2015		2016										
	Total confirmed	Rubella incidence per 1 million pop.	Total confirmed	Rubella incidence per 1 million pop.	Population (in millions) <sup>1</sup>	Investigated rubella cases	Pending classification	Discarded cases	Compatible cases	Confirmed rubella cases				Congenital rubella syndrome	
										Lab	Epi-linked	Total confirmed	Annualized rubella incidence per 1 million pop.		
Australia	-	-	-	-	24.31	-	-	-	-	-	-	-	-	-	-
Brunei Darussalam	0	0.0	0	0.0	0.43	4	0	4	0	0	0	0	0.0	-	
Cambodia	30	2.0	18	1.1	15.83	72	0	72	0	0	0	0	0.0	-	
China	11 887	8.7	8 245	5.9	1 382.32	0	0	0	0	-	-	479	2.1	-	
China, Hong Kong SAR	1	0.1	7	0.9	7.35	0	-	-	-	-	-	0	0.0	-	
China, Macao SAR	0	0.0	2	3.5	0.60	3	0	3	0	0	0	0	0.0	-	
Japan	-	-	-	-	126.32	5	-	5	-	-	-	-	-	-	
Lao People's Democratic Republic	18	2.8	16	2.3	6.92	107	0	86	0	3	18	21	18.2	-	
Malaysia	226	7.5	25	0.8	30.75	1 115	184	925	0	6	0	6	1.2	-	
Mongolia	0	0.0	28	9.8	3.01	1 357	10	1 346	0	1	0	1	2.0	-	
New Zealand	-	-	-	-	4.57	-	-	-	-	-	-	-	-	-	
Papua New Guinea	-	-	1	0.1	7.78	0	-	-	-	-	-	0	0.0	-	
Philippines	343	3.4	154	1.5	102.25	148	55	86	0	7	0	7	0.4	-	
Republic of Korea	2	0.0	2	0.0	50.50	75	38	5	32	0	0	0	0.0	-	
Singapore	0	0.0	1	0.2	5.70	0	-	-	-	-	-	0	0.0	-	
Viet Nam	50	0.5	255	2.7	94.44	51	10	33	1	7	0	7	0.4	-	
Pacific island countries and areas <sup>2</sup>	4	1.2	0	0.0	3.25	22	0	22	0	0	0	0	0.0	-	
Western Pacific Region	12 561	6.8	8 754	4.7	1 866.32	2 959	297	2 587	33	24	18	521	1.7	-	

<sup>1</sup> United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects.

<sup>2</sup> Classification is provisional based on laboratory data only.

"-" No data

<1 confirmed measles case / 1 000 000 population

1-9.9 confirmed measles case / 1 000 000 population

>= 10 confirmed cases / 1 000 000 population

No data

Green
Yellow
Red
Gray

**Table 6A. Measles and rubella laboratory testing, WHO Western Pacific Region, 2015 as of 20 February 2016**

Country/area	Laboratory	Measles and rubella			Measles												Rubella			
					Serology						Virus detection						Serum and blood (includes DBS)			
		Total number of samples received	Total number of samples tested	Total number of cases tested	Serum			Blood			% of samples with results ≤4 days	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 (+)	
					Samples tested for measles IgM	Measles IgM (+)	Measles IgM equiv	DBS samples	No. received	No. (+)		No. of samples tested	No. of isolates	No. of samples tested	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	101	101	67	26	16	61.5	1	0	-	92.3	0	-	76	69	63	2	1	-	0
Brunei Darussalam	DLS	40	40	33	33	4	12.1	1	0	-	90.9	0	-	4	1	4	29	0	0.0	0
Cambodia	NIPH	712	712	712	608	0	0.0	0	104	0	96.6	0	-	0	-	0	712	18	2.5	0
China <sup>3</sup>	CCDC	-	-	-	-	-	-	-	-	-	90.3	-	-	-	-	-	-	-	-	-
China, Hong Kong SAR	PHLC	613	613	506	540	13	2.4	13	0	-	89.1	7	6	70	15	18	522	12	2.3	0
China, Macao SAR	PHL	43	43	43	43	0	0.0	2	0	-	100.0	0	-	0	-	0	43	1	2.3	1
Japan	NIID	448	409	318	82	14	17.1	22	0	-	-	0	-	207	23	30	4	0	-	0
Lao People's Democratic Republic	NCLE	486	486	486	486	13	2.7	13	0	-	88.7	0	-	0	-	13	479	20	4.2	45
Malaysia	NPHL	6 949	6 949	5 962	5 599	1 697	30.3	130	0	-	71.3	881	50	0	-	1 722	3 791	58	1.5	42
Mongolia	NCCD	4 935	4 935	4 754	4 679	1 884	40.3	442	0	-	96.0	14	1	266	135	1 956	2 875	36	1.3	38
New Zealand	CHL	383	383	317	157	8	5.1	3	0	-	94.9	1	0	208	9	15	103	0	0.0	1
Papua New Guinea	CPHL	196	196	196	196	57	29.1	18	0	-	48.4	0	-	0	-	57	43	4	9.3	0
Philippines	RITM	2 498	2 461	2 514	2 396	641	26.8	88	59	9	80.1	51	10	51	20	646	1 793	90	5.0	85
Republic of Korea	KCDC	641	641	492	397	26	6.5	23	0	-	86.8	0	-	245	4	28	236	10	4.2	16
Singapore	SGH	600	607	572	136	12	8.8	0	0	-	97.1	143	0	0	0	12	303	6	2.0	0
Viet Nam (central)	PI	307	307	307	303	7	2.3	3	0	-	54.3	0	-	5	0	7	304	13	4.3	8
Viet Nam (highland)	NIHE	43	43	43	43	7	16.3	0	0	-	55.8	0	-	0	0	7	43	2	4.7	1
Viet Nam (northern)	NIHE	309	309	311	305	52	17.0	10	0	-	93.8	4	0	4	0	52	258	8	3.1	5
Viet Nam (southern)	PI	1 340	1 340	1 308	1 304	134	10.3	49	0	-	96.5	36	0	36	0	134	1 304	654	50.2	31
Fiji	FCCDC	146	146	146	138	1	0.7	2	8	0	-	0	-	0	-	1	124	0	0.0	1
Vanuatu	FCCDC	87	87	87	49	15	30.6	2	38	4	-	0	-	0	-	19	87	0	0.0	0
<b>Total</b>		<b>20 877</b>	<b>20 808</b>	<b>19 174</b>	<b>17 520</b>	<b>4 601</b>	<b>26.3</b>	<b>822</b>	<b>209</b>	<b>13</b>	<b>83.6</b>	<b>1 137</b>	<b>67</b>	<b>1 172</b>	<b>276</b>	<b>4 784</b>	<b>13 055</b>	<b>933</b>	<b>7.1</b>	<b>274</b>

"-" No data

**Table 6B. Measles and rubella laboratory testing, WHO Western Pacific Region, 2016 as of 20 March 2016**

Country/area	Laboratory	Measles and rubella			Measles												Rubella			
					Serology						Virus detection						Serum and blood (includes DBS)			
		Total number of samples received	Total number of samples tested	Total number of cases tested	Serum			Blood		% of samples with results ≤4 days	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	
					Samples tested for measles IgM	Measles IgM (+)	Measles IgM equiv	DBS samples	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	36	36	20	11	6	54.5	3	0	-	81.3	0	-	23	20	19	5	1	-	0
Brunei Darussalam	DLS	6	6	4	4	0	0.0	0	0	-	100.0	0	-	0	-	0	4	0	0.0	0
Cambodia	NIPH	74	74	74	58	2	3.4	0	16	0	100.0	0	-	0	-	2	74	0	0.0	0
China <sup>3</sup>	CCDC	-	-	-	-	-	-	-	-	-	88.7	-	-	-	-	-	-	-	-	-
China, Hong Kong SAR	PHLC	67	67	56	58	0	0.0	0	0	-	94.5	0	-	9	0	0	57	0	0.0	0
China, Macao SAR	PHL	7	7	7	7	2	28.6	0	0	-	100.0	0	-	0	-	2	7	2	28.6	0
Japan	NIID	35	35	18	9	2	22.2	2	0	-		0	-	15	2	2	1	0	-	0
Lao People's Democratic Republic	NCLE	36	36	36	36	0	0.0	0	0	-	100.0	0	-	0	-	0	36	4	11.1	2
Malaysia	NPHL	1 639	1 639	1 246	1 189	393	33.1	26	0	-	96.9	208	20	0	-	399	788	14	1.8	6
Mongolia	NCCD	1 232	1 232	1 230	1 196	561	46.9	174	0	-	100.0	1	0	36	17	576	845	1	-	6
New Zealand	CHL	58	58	49	18	0	0.0	3	0	-	100.0	0	-	32	5	5	18	0	0.0	0
Papua New Guinea	CPHL	0	0	0	0	-	-	-	0	-	NA	0	-	0	-	-	0	-	-	-
Philippines	RITM	226	226	230	219	7	3.2	4	7	0	100.0	0	-	0	-	4	224	30	13.4	8
Republic of Korea	KCDC	54	54	61	41	1	2.4	4	0	-	56.7	0	-	19	1	1	30	5	16.7	0
Singapore	SGH	120	120	99	33	0	0.0	0	0	-	100.0	31	0	0	-	0	51	0	0.0	0
Viet Nam (central)	PI	16	16	16	16	0	0.0	0	0	-	81.3	0	-	0	-	0	16	1	-	0
Viet Nam (northern)	NIHE	13	13	13	13	0	0.0	0	0	-	100.0	0	-	0	-	0	13	0	0.0	0
Viet Nam (southern)	PI	60	60	60	60	10	16.7	2	0	-	66.7	0	-	0	-	10	60	18	30.0	0
Fiji	FCCDC	25	25	25	21	0	0.0	0	5	0	-	0	-	0	-	0	25	0	0.0	0
<b>Total</b>		<b>3 704</b>	<b>3 704</b>	<b>3 244</b>	<b>2 989</b>	<b>984</b>	<b>32.9</b>	<b>218</b>	<b>28</b>	<b>0</b>	<b>97.4</b>	<b>240</b>	<b>20</b>	<b>134</b>	<b>45</b>	<b>1 020</b>	<b>2 254</b>	<b>76</b>	<b>3.4</b>	<b>22</b>

"-" No data







**Table 9A. Completeness and timeliness of epidemiologic reporting, WHO Western Pacific Region, 2014–2016**

Country	2014		2015		2016 <sup>1</sup>			
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Completeness <sup>2</sup>	Timeliness <sup>3</sup>
Australia	100%	92%	100%	100%	04 Feb	09 Mar	100%	100%
Brunei Darussalam	100%	100%	100%	100%	09 Feb	07 Mar	100%	100%
Cambodia	100%	100%	100%	100%	10 Feb	10 Mar	100%	100%
China	100%	67%	100%	92%	14 Feb	10 Mar	100%	100%
China, Hong Kong SAR	100%	100%	100%	100%	05 Feb	10 Mar	100%	100%
China, Macao SAR	100%	100%	100%	100%	05 Feb	08 Mar	100%	100%
Japan	100%	17%	100%	92%	06 Feb	02 Mar	100%	100%
Lao People's Democratic Republic	100%	100%	100%	100%	10 Feb	10 Mar	100%	100%
Malaysia	100%	92%	100%	100%	05 Feb	08 Mar	100%	100%
Mongolia	100%	100%	100%	100%	06 Feb	10 Mar	100%	100%
New Zealand	100%	100%	100%	100%	09 Feb	07 Mar	100%	100%
Papua New Guinea	92%	58%	100%	58%	11 Feb	01 Apr	50%	0%
Philippines	100%	100%	100%	92%	11 Feb	10 Mar	100%	50%
Republic of Korea	100%	100%	100%	100%	05 Feb	08 Mar	100%	100%
Singapore	100%	92%	100%	100%	02 Feb	08 Mar	100%	100%
Viet Nam	100%	100%	100%	92%	05 Feb	09 Mar	100%	100%
Pacific island countries and areas	100%	100%	100%	100%	10 Feb	10 Mar	100%	100%
Completeness	100%		100%		100%	100%	100%	
Timeliness		90%		96%	88%	94%		91%

<sup>1</sup> National measles surveillance monthly reports from February 2016.

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 9B. Completeness and timeliness of laboratory reporting, WHO Western Pacific Region, 2014–2016**

Country/area	2014		2015		2016 <sup>1</sup>			
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Completeness <sup>2</sup>	Timeliness <sup>3</sup>
Australia	100%	100%	100%	100%	04 Feb	04 Mar	100%	100%
Brunei Darussalam	100%	100%	100%	100%	02 Feb	01 Mar	100%	100%
Cambodia	100%	100%	100%	100%	10 Feb	10 Mar	100%	100%
China	100%	100%	100%	100%	05 Feb	08 Mar	100%	100%
China, Hong Kong SAR	100%	100%	100%	100%	05 Feb	08 Mar	100%	100%
China, Macao SAR	100%	100%	100%	100%	05 Feb	09 Mar	100%	100%
Japan	100%	42%	100%	92%	06 Feb	02 Mar	100%	100%
Lao People's Democratic Republic	100%	100%	100%	100%	10 Feb	10 Mar	100%	100%
Malaysia	100%	83%	100%	75%	12 Feb	10 Mar	100%	50%
Mongolia	100%	100%	100%	75%	03 Mar	10 Mar	50%	50%
New Zealand	100%	100%	100%	100%	09 Feb	07 Mar	100%	100%
Papua New Guinea	100%	92%	100%	75%	12 Feb	15 Mar	100%	0%
Philippines	100%	92%	100%	100%	05 Feb	10 Mar	100%	100%
Republic of Korea	100%	100%	100%	100%	04 Feb	10 Mar	100%	100%
Singapore	100%	100%	100%	100%	05 Feb	04 Mar	100%	100%
Viet Nam (central)	82%	73%	100%	67%	05 Feb	11 Mar	100%	50%
Viet Nam (highlands)	91%	82%	100%	67%	05 Feb	11 Mar	100%	50%
Viet Nam (northern)	100%	83%	100%	67%	05 Feb	11 Mar	100%	50%
Viet Nam (southern)	100%	100%	100%	100%	02 Feb	09 Mar	100%	100%
Fiji	100%	100%	100%	100%	10 Feb	10 Mar	100%	100%
Completeness	99%		100%		100%	100%	100%	
Timeliness		92%		91%	94%	80%		83%

<sup>1</sup> National measles laboratory monthly reports from February 2016.

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

**Expanded Programme on Immunization  
Regional Office for the Western Pacific  
World Health Organization**

P.O. Box 2932, 1000 Manila, Philippines  
Tel. No. (63 2) 5288001  
Fax No. (63 2) 5211036, 5260279

*Please send your comments and monthly data before the 10th of the month to:  
WPR\_EPIdata@wpro.who.int*