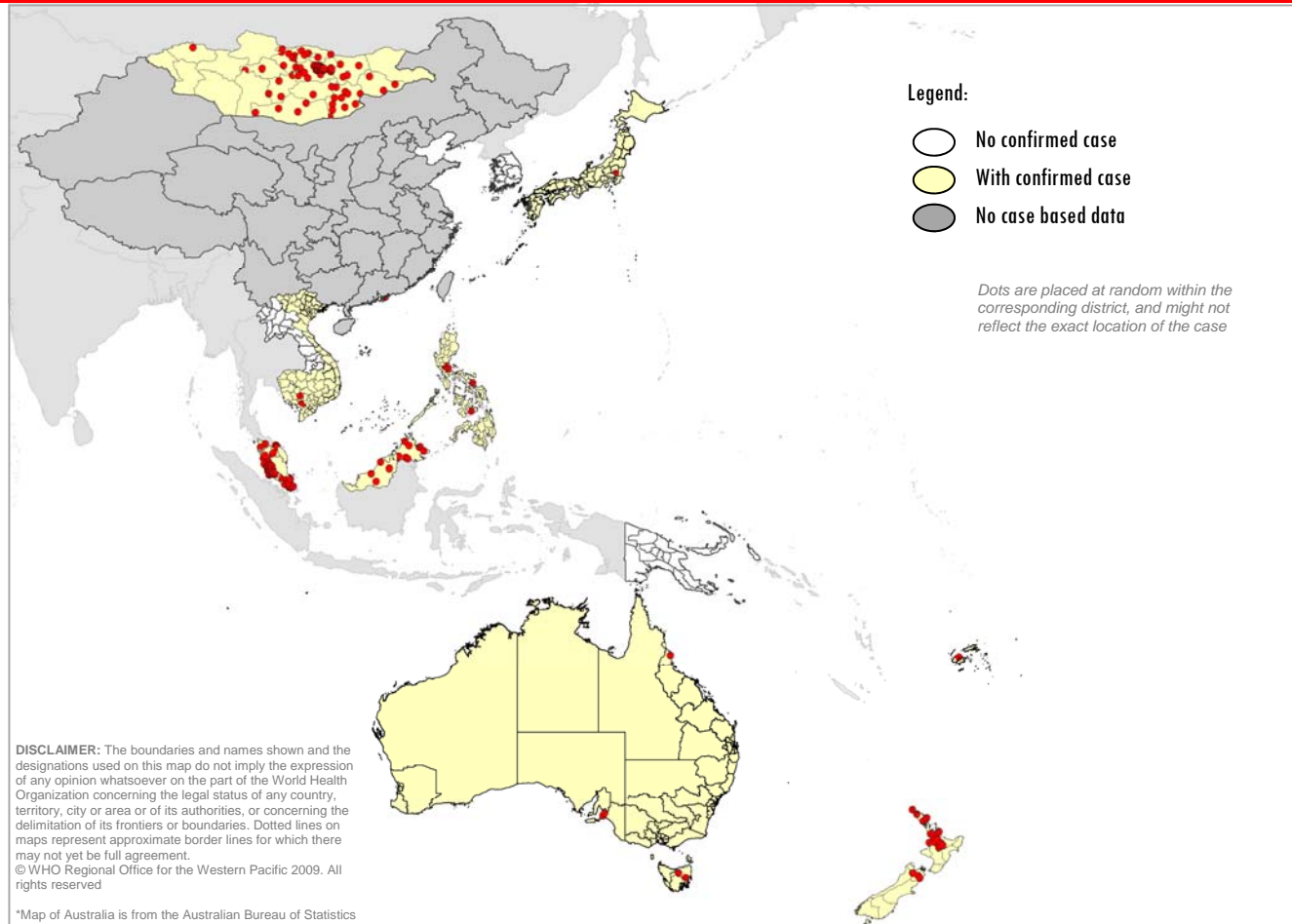


MEASLES-RUBELLA

Figure 1. Distribution of confirmed measles cases with rash onset 1–30 April 2016, WHO Western Pacific Region



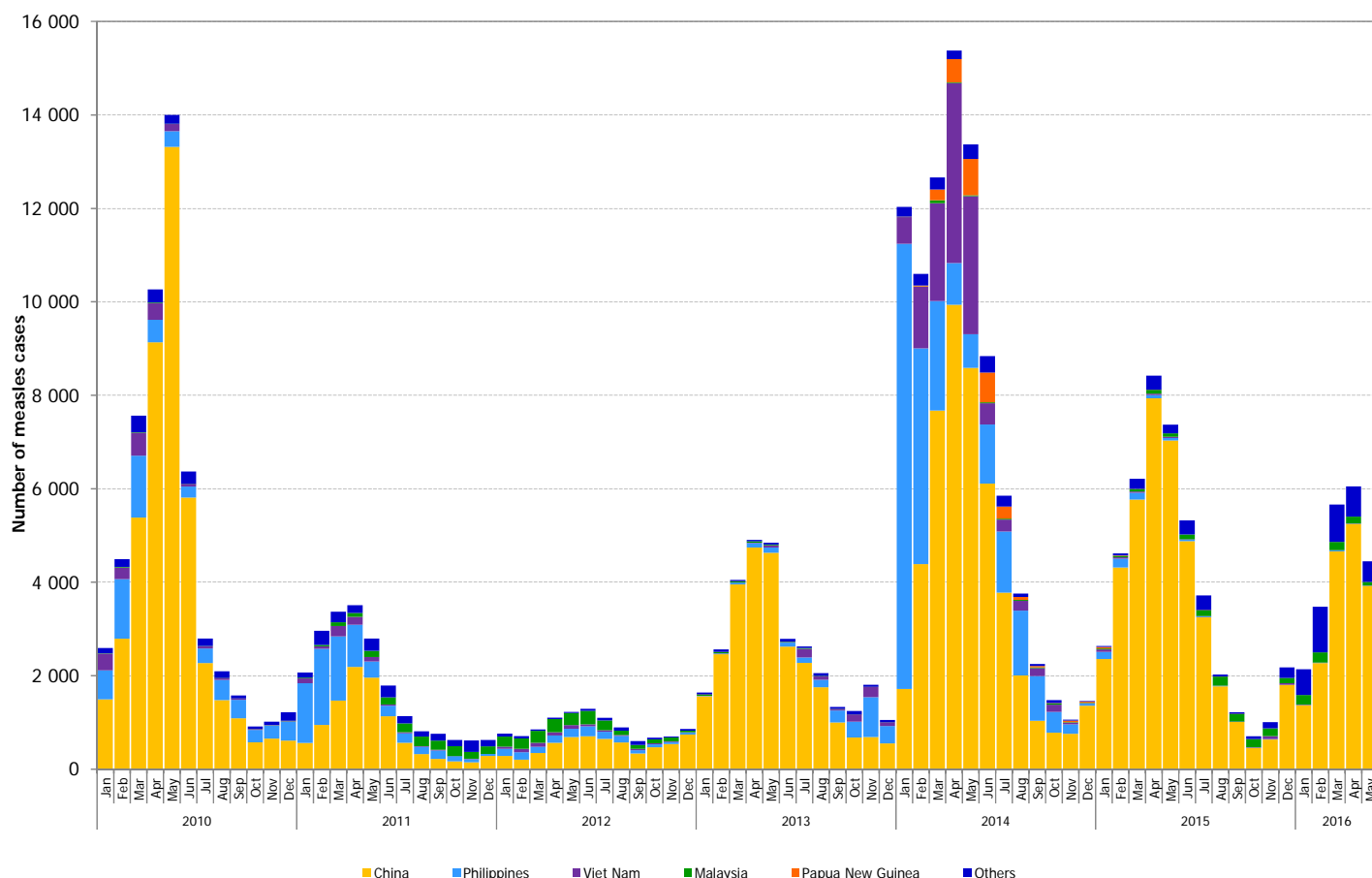
Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 June 2016

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

Country/area	2015							2016				
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Australia	5	3	7	9	0	4	5	6	15	16	10	5
Brunei Darussalam	0	0	0	0	0	0	0	0	0	0	0	0
Cambodia	0	0	0	0	0	0	0	2	0	0	0	1
China	4882	3249	1772	1011	453	635	1805	1366	2270	4663	5247	3923
China, Hong Kong SAR	2	1	0	1	0	1	0	0	0	0	1	2
China, Macao SAR	0	0	0	0	0	0	0	0	0	0	0	0
Japan	3	1	1	1	3	3	1	1	2	2	0	3
Lao People's Democratic Republic	0	0	0	0	0	0	0	0	0	0	0	0
Malaysia	102	129	197	165	175	167	110	205	220	177	148	77
Mongolia	290	301	32	16	53	116	216	544	947	767	598	369
New Zealand	0	0	0	0	0	0	1	1	5	2	20	31
Papua New Guinea	0	1	1	1	0	0	0	0	0	0	0	0
Philippines	30	18	9	7	7	6	1	6	4	19	6	4
Republic of Korea	1	1	0	0	0	0	0	0	2	2	1	0
Singapore	2	8	2	4	3	3	1	1	5	10	18	27
Viet Nam	7	8	4	2	9	67	35	7	4	4	3	2
Pacific island countries and areas	0	0	0	3	0	0	0	0	1	1	1	1
Western Pacific Region	5324	3720	2025	1220	703	1002	2175	2139	3475	5663	6053	4445

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

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



Source: Measles and rubella monthly country reports to WHO by 20 June 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						2016					
		No. of confirmed cases	Source of infection				% of cases with known source of infection	No. of confirmed cases	Source of infection				% of cases with known 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%	52	15	7	30	0	42.3%
Brunei Darussalam	2015	4	1	3	0	0	100.0%	0	-	-	-	-	-
Cambodia	2015	0	-	-	-	-	-	3	0	0	3	0	0.0%
China	-	41 217	0	0	41 217	0	0.0%	17 469	0	0	17 469	0	0.0%
China, Hong Kong SAR	-	12	3	0	9	0	25.0%	3	1	0	2	0	33.3%
China, Macao SAR	2014	0	-	-	-	-	-	0	-	-	-	-	-
Japan	2015	32	16	10	6	0	81.3%	8	6	2	0	0	100.0%
Lao People's Democratic Republic	-	56	0	0	56	0	0.0%	0	-	-	-	-	-
Malaysia	-	1 302	2	0	516	617	0.2%	827	2	0	282	543	0.2%
Mongolia	2014	1 639	0	1 638	1	0	99.9%	3 225	0	3 225	0	0	100.0%
New Zealand	-	13	0	0	13	0	0.0%	55	0	0	55	0	0.0%
Papua New Guinea	-	53	0	0	53	0	0.0%	0	-	-	-	-	-
Philippines	-	688	0	0	688	0	0.0%	39	0	0	39	0	0.0%
Republic of Korea	2014	7	3	1	3	0	57.1%	5	4	1	0	0	100.0%
Singapore	-	39	9	1	29	0	25.6%	61	7	0	54	0	11.5%
Viet Nam	-	291	0	0	291	0	0.0%	20	0	0	20	0	0.0%
Pacific island countries and areas	-	20	0	0	20	0	0.0%	4	0	0	4	0	0.0%
Total		45 447	67	1 683	42 913	617	3.9%	21 771	35	3 235	17 958	543	15.0%

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

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

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

Country/area	2011		2012		2013		2014		2015		2016										Rash onset of last confirmed measles case
	Total confirmed ¹	Measles incidence per 1 million pop.	Total confirmed ¹	Measles incidence per 1 million pop.	Total confirmed ²	Measles incidence per 1 million pop.	Total confirmed ²	Measles incidence per 1 million pop.	Total confirmed ²	Measles incidence per 1 million pop.	Population (in millions) ³	Suspected measles cases	Pending classification	Discarded cases ⁴	Compatible cases	Confirmed measles cases				Deaths due to measles	
																Lab	Epi-linked	Total confirmed	Annualized measles incidence per 1 million pop.		
Australia	192	8.5	199	8.7	154	6.6	340	14.5	74	3.3	24.3	NA ⁴	0	0	0	49	3	52	5.1	0	27-May-16
Brunei Darussalam	4	9.9	1	2.4	0	0.0	0	0.0	4	9.0	0.4	8	0	8	0	0	0	0	0.0	0	16-May-15
Cambodia	722	50.5	0	0.0	0	0.0	0	0.0	0	0.0	15.8	209	0	206	0	3	0	3	0.5	0	10-May-16
China	9 943	7.4	6 183	4.6	26 912	19.8	48 123	35.3	41 217	29.5	1382.3	42 074	1 910	21 646	1 049	17 425	44	17 469	30.3	15	31-May-16
China, Hong Kong SAR	12	1.7	8	1.1	34	4.7	46	6.3	12	1.6	7.3	53	0	49	1	3	0	3	1.0	0	24-May-16
China, Macao SAR	1	1.8	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	411	3.2	228	1.8	141	1.1	434	3.4	32	0.3	126.3	90	1	81	0	8	0	8	0.2	0	6-May-16
Lao People's Democratic Republic	113	18.0	36	5.6	68	10.5	70	10.7	56	8.0	6.9	400	207	193	0	0	0	0	0.0	0	16-Apr-15
Malaysia	1 603	54.4	1 868	63.7	177	5.9	213	7.0	1 302	43.3	30.8	3 149	505	1 771	46	806	21	827	64.5	0	26-May-16
Mongolia	0	0.0	0	0.0	0	0.0	0	0.0	1 639	574.1	3.0	29 312	110	893	25 084	2 689	536	3 225	2574.5	39	29-Apr-16
New Zealand	599	135.7	55	12.3	9	2.0	263	57.7	13	2.9	4.6	99	25	19	0	40	15	55	28.9	0	28-May-16
Papua New Guinea	0	0.0	0	0.0	7	1.0	2 589	345.9	53	6.9	7.8	14	0	13	1	0	0	0	0.0	0	21-Sep-15
Philippines	6 555	69.1	1 536	15.9	3777	38.5	23 708	237.6	688	6.8	102.3	741	42	509	151	37	2	39	0.9	0	10-May-16
Republic of Korea	43	0.9	2	0.0	107	2.2	442	9.0	7	0.1	50.5	124	14	105	0	5	0	5	0.2	0	20-Mar-16
Singapore	143	27.6	40	7.6	56	10.6	134	25.1	39	7.7	5.7	88	0	21	6	50	11	61	25.7	0	28-May-16
Viet Nam	745	8.4	637	5.9	895	9.9	12 223	133.5	291	3.1	94.4	522	18	424	60	20	0	20	0.5	0	17-May-16
Pacific island countries and areas ⁵	2	1.0	0	0.0	0	0.0	273	83.4	20	6.1	3.3	176	4	168	0	4	0	4	3.0	0	26-May-16
Western Pacific Region	21 088	11.7	10 794	5.9	32 340	17.7	88 859	48.3	45 447	24.2	1866.3	77 062	2 836	26 109	26 398	21 139	632	21 771	28.0	54	

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

² Includes laboratory confirmed and epi-linked confirmed cases from 2013 to 2016.

³ United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects.

⁴ Australia reports confirmed cases only.

⁵ 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 4. Measles surveillance performance indicators by country and area, WHO Western Pacific Region, 2015–2016 as of 20 June 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 ¹	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 ¹
	≥ 2	≥ 80%	≥ 80%	≥ 80%	≥ 2	≥ 80%	≥ 80%	≥ 80%
Australia ²	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%	4.5	100.0%	100.0%	100.0%
Cambodia	4.4	91.7%	80.5%	98.7%	3.1	48.0%	70.3%	76.6%
China	4.5	83.9%	95.0%	85.7%	3.8	61.3%	95.3%	83.5%
China, Hong Kong SAR	2.1	100.0%	98.8%	97.7%	1.6	0.0%	100.0%	100.0%
China, Macao SAR	1.8	0.0%	100.0%	100.0%	1.2	0.0%	66.7%	100.0%
Japan	0.2	0.0%	Insufficient data	Insufficient data	0.2	0.0%	Insufficient data	Insufficient data
Lao People's Democratic Republic	8.1	88.2%	85.4%	85.7%	6.7	58.8%	60.3%	39.8%
Malaysia	12.9	87.5%	71.9%	82.6%	13.8	87.5%	75.2%	84.4%
Mongolia	52.9	81.8%	7.7%	13.6%	71.3	90.9%	30.9%	11.5%
New Zealand	0.5	Insufficient data	Insufficient data	Insufficient data	0.0	Insufficient data	Insufficient data	Insufficient data
Papua New Guinea	1.4	20.0%	60.8%	91.1%	0.0	5.0%	57.1%	100.0%
Philippines	1.4	29.4%	57.0%	69.7%	1.2	11.8%	68.1%	77.1%
Republic of Korea	0.6	81.3%	68.8%	74.5%	0.5	62.5%	61.3%	71.8%
Singapore	1.1	0.0%	92.0%	19.0%	0.9	0.0%	66.2%	16.9%
Viet Nam	2.0	15.6%	33.2%	55.4%	1.1	14.3%	73.0%	84.5%
Pacific island countries and areas	6.6	17.4%	0.0%	68.6%	12.4	13.0%	0.0%	74.4%
Western Pacific Region	4.0	44.3%	78.2%	73.5%	3.4	33.6%	69.2%	56.0%

¹ Excludes epidemiologically-linked cases.

² 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 June 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) ¹	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	8	0	8	0	0	0	0	0.0	-	
Cambodia	30	2.0	18	1.1	15.83	207	0	207	0	0	0	0	0.0	-	
China	11 887	8.7	8 245	5.9	1 382.32	42 074	-	-	-	-	-	3 215	5.6	-	
China, Hong Kong SAR	1	0.1	7	0.9	7.35	1	1	0	0	0	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	-	-	2	0.0	126.32	15	0	13	0	2	0	2	0.0	-	
Lao People's Democratic Republic	18	2.8	24	3.4	6.92	400	207	172	0	3	18	21	7.3	-	
Malaysia	226	7.5	25	0.8	30.75	3 157	505	2 634	0	18	0	18	1.4	-	
Mongolia	0	0.0	28	9.8	3.01	2 597	10	2 584	0	3	0	3	2.4	-	
New Zealand	-	-	-	-	4.57	-	-	-	-	-	-	-	-	-	
Papua New Guinea	-	-	4	0.5	7.78	14	0	12	1	1	0	1	0.3	-	
Philippines	343	3.4	154	1.5	102.25	741	42	631	0	68	0	68	1.6	-	
Republic of Korea	2	0.0	2	0.0	50.50	124	14	109	0	1	0	1	0.0	-	
Singapore	0	0.0	1	0.2	5.70	10	0	10	0	0	0	0	0.0	-	
Viet Nam	50	0.5	860	9.2	94.44	473	19	299	14	141	0	141	3.6	-	
Pacific island countries and areas ²	4	1.2	0	0.0	3.25	176	0	175	0	1	0	1	0.7	-	
Western Pacific Region	12 561	6.8	9 372	5.0	1 866.32	50 000	798	6 857	15	238	18	3 471	4.5	-	

¹ United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects.

² 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 (+)		Rubella IgM equiv	
					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.	No.	No.	No.	No.	No.	No.	No.	No.	No.	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 ³	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
Total		20 877	20 808	19 174	17 520	4 601	26.3	822	209	13	83.6	1 137	67	1 172	276	4 784	13 055	933	7.1	274

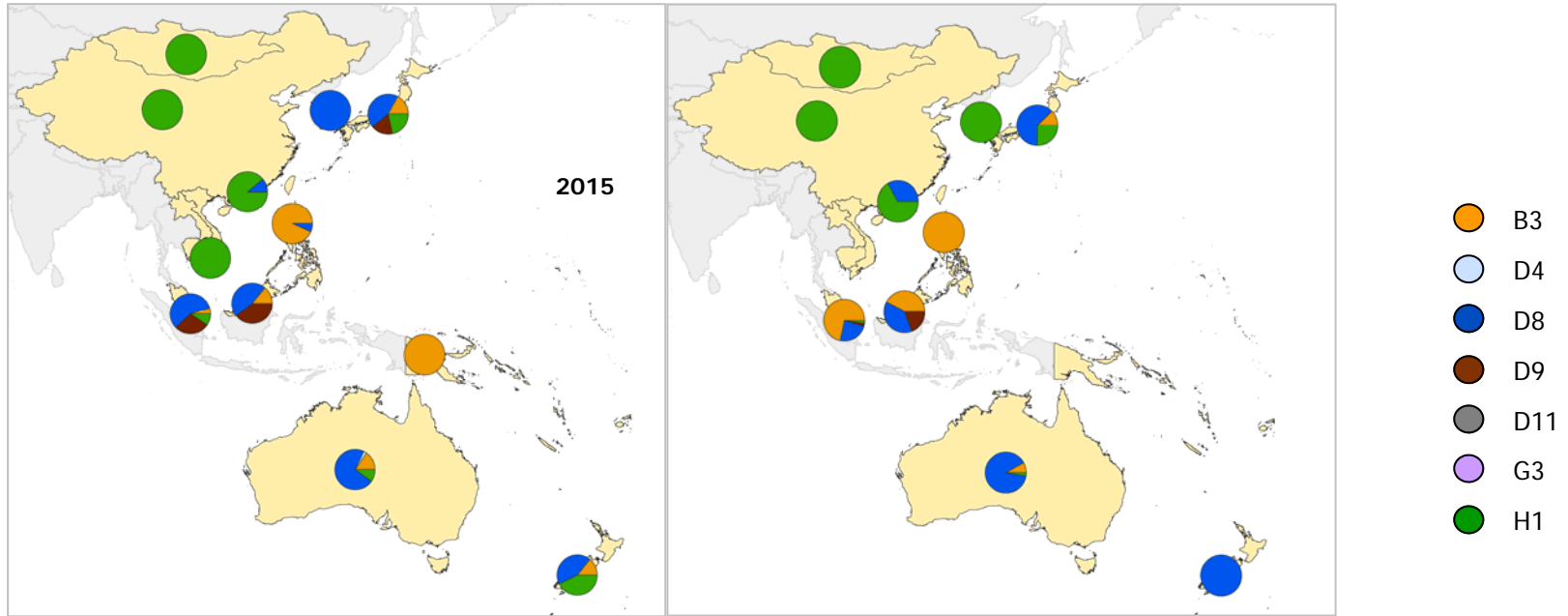
"-" No data

Table 6B. Measles and rubella laboratory testing, WHO Western Pacific Region, 2016 as of 20 June 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. received		No. (+)	No. of samples tested	No. of isolates	No. of samples tested		No. (+)	No.	No.	%	
Australia	VIDRL	48	48	32	13	8	61.5	3	0	-	81.3	0	-	33	30	29	5	1	20.0	0
Brunei Darussalam	DLS	10	10	8	8	0	0.0	0	0	-	87.5	0	-	0	-	0	8	0	0.0	0
Cambodia	NIPH	209	209	209	181	3	1.7	0	28	0	100.0	0	-	0	-	3	209	0	0.0	0
China ³	CCDC	-	-	-	-	-	-	-	-	-	90.7	-	-	-	-	-	-	-	-	-
China, Hong Kong SAR	PHLC	199	199	161	169	3	1.8	5	0	-	93.7	1	1	30	11	5	170	0	0.0	4
China, Macao SAR	PHL	12	12	12	12	2	16.7	0	0	-	100.0	0	-	0	-	2	12	2	16.7	0
Japan	NIID	142	142	80	22	3	13.6	6	0	-	-	0	-	51	8	8	2	1	-	0
Lao People's Democratic Republic	NCLE	119	119	119	119	0	0.0	1	0	-	95.8	0	-	0	-	0	119	4	3.4	5
Malaysia	NPHL	4 538	4 538	3 416	3 250	1 002	30.8	81	0	-	92.8	714	82	0	-	1 028	2 220	40	1.8	18
Mongolia	NCCD	8 700	8 666	8 666	8 554	4 680	54.7	893	0	-	100.0	1	0	133	73	4 735	5 343	25	-	10
New Zealand	CHL	300	300	253	99	14	14.1	7	0	-	98.0	1	0	192	38	46	78	1	1.3	0
Papua New Guinea	CPHL	14	14	14	14	0	-	0	0	-	14.3	0	-	0	-	0	14	0	0.0	1
Philippines	RITM	637	631	631	610	25	4.1	16	17	1	99.5	15	0	16	0	23	628	54	8.6	22
Republic of Korea	KCDC	239	239	201	142	14	9.9	9	0	-	72.2	0	-	93	4	16	94	12	12.8	5
Singapore	SGH	283	283	242	84	10	11.9	0	0	-	100.0	67	1	0	-	7	117	1	0.9	0
Viet Nam (central)	PI	73	73	73	73	1	1.4	0	0	-	54.8	0	-	0	-	1	73	5	6.8	1
Viet Nam (highland)	NIHE	3	3	3	3	0	-	0	0	-	0.0	0	-	0	-	0	3	0	0.0	3
Viet Nam (northern)	NIHE	68	68	69	65	1	1.5	0	0	-	100.0	0	-	3	0	1	65	0	0.0	3
Viet Nam (southern)	PI	366	366	364	361	20	5.5	4	0	-	82.3	5	0	5	0	20	361	151	41.8	10
Fiji	FCCDC	179	179	179	172	4	2.3	3	6	0	-	0	-	0	-	0	179	1	0.6	0
Total		16 139	16 099	14 732	13 951	5 790	41.5	1 028	51	1	97.0	804	84	556	164	5 924	9 700	298	3.1	82

"-" No data

Figure 3. Measles genotype distribution of cases with rash onset in 2015 and 2016, WHO Western Pacific Region



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 7. Measles genotype distribution of cases with rash onset in June 2015 to May 2016, WHO Western Pacific Region

Country/area	2015																				2016																																	
	Jun				Jul				Aug				Sep				Oct				Nov				Dec				Jan				Feb				Mar				Apr				May									
	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D4	D8	D9	H1	B3	D8	D9	H1	B3	D4	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1	B3	D8	D9	H1								
Australia	1	2		2		1				3				2			2	1	1									4								12	1		2	7			1	8									6	
Brunei Darussalam																																																						
Cambodia																													2																									
China				262				184				112				37					16				14				43				84				237	1		346					24									
China, Hong Kong SAR				5																																									1				2					
China, Macao SAR																																																						
Japan				2				1		1				1											2				4				2				1				1	2			1				1					
Lao People's Democratic Republic																																																						
Malaysia						1				2	3			1	2	3		2		9	11		6	11	11				2		9	7	1		2	3	4																	
Mongolia								3				1									1				1				1				3				4				5				4									
New Zealand																											1				1																6						6	
Papua New Guinea																																																						
Philippines																													3																				1					
Republic of Korea																																																						
Singapore				2		3	2			1				2															1		1								1		1		7	2			6	6			19	2	1	
Viet Nam				1																																																		
Pacific island countries and areas																																																						

Sources: Includes all cases reported to the Western Pacific Regional Office by 20 June 2016 and the Measles Nucleotide Sequence online database (MeANS).

Figure 4. Rubella genotype distribution of cases with rash onset in 2015 and 2016, WHO Western Pacific Region

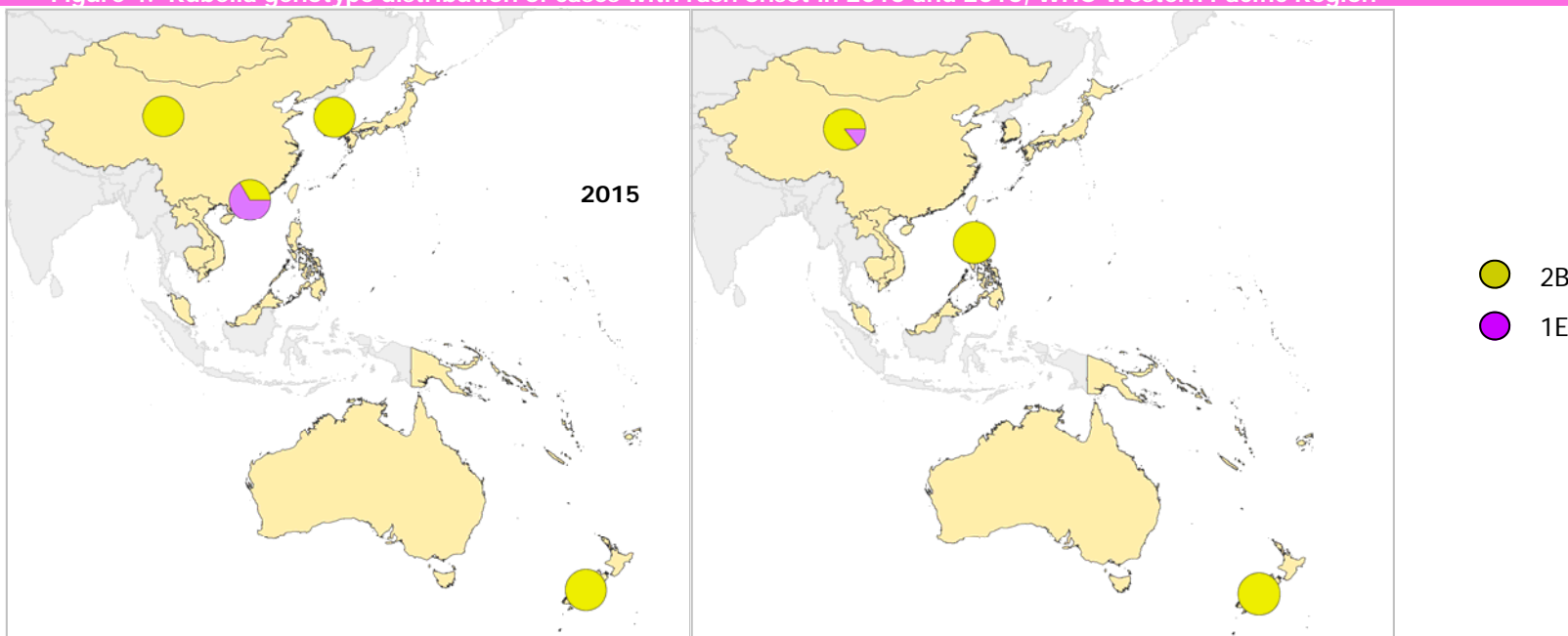


Table 8. Rubella genotype distribution of cases with rash onset in June 2015 to May 2016, WHO Western Pacific Region

Country/area	2015												2016																								
	Jun			Jul			Aug			Sep			Oct			Nov			Dec			Jan			Feb			Mar			Apr			May			
	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J	2B	1E	1J							
Australia																																					
Brunei Darussalam																																					
Cambodia																																					
China																																					
China, Hong Kong SAR																																					
China, Macao SAR																																					
Japan																																					
Lao People's Democratic Republic																																					
Malaysia																																					
Mongolia																																					
New Zealand																																					
Papua New Guinea																																					
Philippines																																					
Republic of Korea																																					
Singapore																																					
Viet Nam																																					
Pacific island countries and areas																																					

Sources: Includes all cases reported to the Western Pacific Regional Office by 20 June 2016

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

Country	2014		2015		2016 ¹						Completeness ²	Timeliness ³
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Mar	Apr	May			
Australia	100%	92%	100%	100%	04 Feb	09 Mar	07 Apr	06 May	06 Jun	100%	100%	
Brunei Darussalam	100%	100%	100%	100%	09 Feb	07 Mar	07 Apr	09 May	06 Jun	100%	100%	
Cambodia	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	100%	100%	
China	100%	67%	100%	92%	14 Feb	10 Mar	12 Apr	15 May	15 Jun	100%	100%	
China, Hong Kong SAR	100%	100%	100%	100%	05 Feb	10 Mar	08 Apr	09 May	10 Jun	100%	100%	
China, Macao SAR	100%	100%	100%	100%	05 Feb	08 Mar	05 Apr	05 May	08 Jun	100%	100%	
Japan	100%	17%	100%	92%	06 Feb	02 Mar	09 Apr	04 May	10 Jun	100%	100%	
Lao People's Democratic Republic	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	100%	100%	
Malaysia	100%	92%	100%	100%	05 Feb	08 Mar	08 Apr	10 May	10 Jun	100%	100%	
Mongolia	100%	100%	100%	100%	06 Feb	10 Mar	09 Apr	11 May	15 Jun	100%	60%	
New Zealand	100%	100%	100%	100%	09 Feb	07 Mar	08 Apr	09 May	10 Jun	100%	100%	
Papua New Guinea	92%	58%	100%	58%	11 Feb	01 Apr	10 Apr	11 May	14 Jun	80%	20%	
Philippines	100%	100%	100%	92%	11 Feb	10 Mar	05 Apr	10 May	08 Jun	100%	80%	
Republic of Korea	100%	100%	100%	100%	05 Feb	08 Mar	07 Apr	02 May	10 Jun	100%	100%	
Singapore	100%	92%	100%	100%	02 Feb	08 Mar	07 Apr	10 May	10 Jun	100%	100%	
Viet Nam	100%	100%	100%	92%	05 Feb	09 Mar	07 Apr	09 May	10 Jun	100%	100%	
Pacific island countries and areas	100%	100%	100%	100%	10 Feb	10 Mar	08 Apr	10 May	10 Jun	100%	100%	
Completeness	100%		100%		100%	100%	100%	100%	100%	100%		
Timeliness		90%		96%	88%	94%	100%	82%	88%		91%	

¹ National measles surveillance monthly reports from May 2016.

Legend: black = timely report; red = untimely report

² 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.

³ 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 ¹						Completeness ²	Timeliness ³
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Mar	Apr	May			
Australia	100%	100%	100%	100%	04 Feb	04 Mar	08 Apr	03 May	02 Jun	100%	100%	
Brunei Darussalam	100%	100%	100%	100%	02 Feb	01 Mar	06 Apr	07 May	04 Jun	100%	100%	
Cambodia	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	100%	100%	
China	100%	100%	100%	100%	05 Feb	08 Mar	08 Apr	10 May	03 Jun	100%	100%	
China, Hong Kong SAR	100%	100%	100%	100%	05 Feb	08 Mar	06 Apr	09 May	07 Jun	100%	100%	
China, Macao SAR	100%	100%	100%	100%	05 Feb	09 Mar	05 Apr	06 May	10 Jun	100%	100%	
Japan	100%	42%	100%	92%	06 Feb	02 Mar	09 Apr	04 May	10 Jun	100%	100%	
Lao People's Democratic Republic	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	100%	100%	
Malaysia	100%	83%	100%	75%	12 Feb	10 Mar	10 Apr	09 May	14 Jun	100%	60%	
Mongolia	100%	100%	100%	75%	03 Mar	10 Mar	10 Apr	10 May	10 Jun	80%	80%	
New Zealand	100%	100%	100%	100%	09 Feb	07 Mar	08 Apr	09 May	10 Jun	100%	100%	
Papua New Guinea	100%	92%	100%	75%	12 Feb	15 Mar	10 Apr	12 May	16 Jun	100%	20%	
Philippines	100%	92%	100%	100%	05 Feb	10 Mar	10 Apr	06 May	07 Jun	100%	100%	
Republic of Korea	100%	100%	100%	100%	04 Feb	10 Mar	08 Apr	10 May	10 Jun	100%	100%	
Singapore	100%	100%	100%	100%	05 Feb	04 Mar	07 Apr	07 Jun	08 Jun	100%	100%	
Viet Nam (central)	82%	73%	100%	67%	05 Feb	11 Mar	10 Apr	10 May	06 Jun	100%	80%	
Viet Nam (highlands)	91%	82%	100%	67%	05 Feb	11 Mar	11 Apr	10 May	06 Jun	100%	80%	
Viet Nam (northern)	100%	83%	100%	67%	05 Feb	11 Mar	12 Apr	10 May	06 Jun	100%	80%	
Viet Nam (southern)	100%	100%	100%	100%	02 Feb	09 Mar	06 Apr	06 May	07 Jun	100%	100%	
Fiji	100%	100%	100%	100%	10 Feb	10 Mar	08 Apr	10 May	10 Jun	100%	100%	
Completeness	99%		100%		100%	100%	100%	100%	100%	100%		
Timeliness		92%		91%	94%	80%	100%	95%	90%		90%	

¹ National measles laboratory monthly reports from May 2016.

Legend: black = timely report; red = untimely report

² 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.

³ 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:
WPREPIdata@who.int