

# MEASLES-RUBELLA

This issue of the Measles-Rubella Bulletin includes data on cases with rash onset in 2011 through September that were reported to the Regional Office in October. Detailed explanations of the indicators used in this Bulletin may be found in [Measles Bulletin Vol. 1 Issue 13](#) and [Measles Bulletin Vol. 2 Issue 4](#). These indicators are consistent with those recommended in the [Weekly Epidemiological Record, No. 49, 2010, 85: 489–496](#).

**Table 1A. Completeness and timeliness of epidemiologic reporting, Western Pacific Region, 2009–2011**

Country	2009		2010		2011 <sup>1</sup>										Completeness <sup>2</sup>	Timeliness <sup>3</sup>
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
Australia	100%	100%	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	100%	100%	
Brunei Darussalam	100%	100%	100%	100%	08 Feb	10 Mar	08 Apr	06 May	09 Jun	07 Jul	09 Aug	07 Sep	08 Oct	100%	100%	
Cambodia	100%	83%	75%	42%	10 Feb	10 Mar	10 Apr	10 May	08 Jun	10 Jul	31 Aug	10 Sep	10 Oct	100%	89%	
China	92%	0%	100%	58%	14 Feb	10 Mar	12 Apr	11 May	13 Jun	10 Jul	10 Aug	13 Sep	12 Oct	100%	100%	
Hong Kong (China)	100%	100%	100%	100%	09 Feb	09 Mar	07 Apr	06 May	09 Jun	08 Jul	09 Aug	09 Sep	07 Oct	100%	100%	
Japan	100%	92%	100%	100%	04 Feb	07 Mar	05 Apr	06 May	10 Jun	08 Jul	10 Aug	10 Sep	10 Oct	100%	100%	
Lao PDR	58%	42%	83%	75%	09 Feb	10 Mar	08 Apr	10 May	10 Jun	10 Jul	06 Aug	05 Sep	07 Oct	100%	100%	
Macao (China)	100%	83%	100%	100%	07 Feb	04 Mar	06 Apr	05 May	07 Jun	01 Jul	05 Aug	02 Sep	07 Oct	100%	100%	
Malaysia	58%	42%	92%	83%	09 Feb	07 Mar	08 Apr	06 May	09 Jun	15 Jul	10 Aug	10 Sep	05 Oct	100%	89%	
Mongolia	100%	75%	100%	92%	09 Feb	07 Mar	09 Apr	05 May	07 Jun	10 Jul	05 Aug	09 Sep	07 Oct	100%	100%	
New Zealand	100%	92%	100%	92%	07 Feb	07 Mar	05 Apr	12 May	08 Jun	05 Jul	24 Aug	08 Sep	06 Oct	100%	78%	
Papua New Guinea	67%	17%	67%	33%	16 Feb	29 Mar					14 Jul	04 Aug	06 Sep	07 Oct	67%	33%
Philippines	75%	58%	100%	92%	06 Feb	14 Mar	10 Apr	03 May	03 Jun	07 Jul	03 Aug	06 Sep	10 Oct	100%	89%	
Republic of Korea	50%	17%	92%	92%	10 Feb	08 Mar	07 Apr	09 May	10 Jun	10 Jul	08 Aug	14 Sep	07 Oct	100%	89%	
Singapore	100%	67%	100%	100%	02 Feb	01 Mar	06 Apr	05 May	06 Jun	04 Jul	03 Aug	06 Sep	04 Oct	100%	100%	
Viet Nam	83%	25%	92%	25%	10 Feb		10 Apr		02 Jun	10 Jul	11 Aug	02 Oct	07 Oct	78%	56%	
Pacific island countries*	67%	42%	92%	58%	10 Feb	10 Mar				22 Jul	10 Aug	15 Sep	11 Oct	67%	56%	
Completeness	85.3%		93.6%		100%	94%	88%	82%	88%	100%	100%	100%	100%	94.8%		
Timeliness		60.8%		78.9%	94%	88%	88%	76%	88%	88%	82%	88%	100%		88.2%	

<sup>1</sup> Monthly reports with data through September 2011

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 China may report to the Regional Office by the 15th (or the next working day) of the following month

**Table 1B. Completeness and timeliness of laboratory reporting, Western Pacific Region, 2009–2011**

Country	2009		2010		2011 <sup>1</sup>										Completeness <sup>2</sup>	Timeliness <sup>3</sup>
	Completeness	Timeliness	Completeness	Timeliness	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
Australia	100%	83%	100%	100%	08 Feb	03 Mar	05 Apr	04 May	03 Jun	01 Jul	08 Aug	06 Sep	03 Oct	100%	100%	
Cambodia	50%	17%	42%	25%	07 Feb	07 Mar	07 Apr	09 May	09 Jun	09 Jul	05 Aug	07 Sep	08 Oct	100%	100%	
China	0%	0%	0%	0%										0%	0%	
Hong Kong (China)	100%	100%	100%	100%	09 Feb	09 Mar	09 Apr	09 May	09 Jun	09 Jul	10 Aug	09 Sep	08 Oct	100%	100%	
Japan	0%	0%	0%	0%	04 Feb	07 Mar	05 Apr	06 May	10 Jun	08 Jul	10 Aug	10 Sep	10 Oct	100%	100%	
Lao PDR	8%	0%	58%	58%	10 Feb	10 Mar	08 Apr	10 May	10 Jun	10 Jul	10 Aug	03 Sep	10 Oct	100%	100%	
Macao (China)	100%	92%	100%	100%	07 Feb	04 Mar	07 Apr	05 May	08 Jun	07 Jul	05 Aug	05 Sep	08 Oct	100%	100%	
Malaysia	75%	8%	92%	58%	09 Feb	07 Mar	08 Apr	10 May	09 Jun	10 Jul	09 Aug	09 Sep	10 Oct	100%	100%	
Mongolia	92%	92%	100%	100%	08 Feb	04 Mar	06 Apr	04 May	07 Jun	09 Jul	05 Aug	07 Sep	07 Oct	100%	100%	
New Zealand	83%	8%	100%	33%	09 Feb	11 Mar	08 Apr	10 May	10 Jun	07-Jul	10 Aug	08 Sep	10 Oct	100%	89%	
Papua New Guinea	0%	0%	75%	33%	10 Feb	08 Mar	12 Apr	09 May		01 Jul	09 Aug	09 Sep	02 Oct	89%	78%	
Philippines	100%	33%	100%	83%	08 Feb	10 Mar	08 Apr	10 May	25 May	10 Jul	09 Aug	09 Sep	10 Oct	100%	100%	
Republic of Korea	75%	50%	100%	100%	10 Feb	09 Mar	08 Apr	10 May	08 Jun	10 Jul	09 Aug	09 Sep	10 Oct	100%	100%	
Singapore	100%	100%	100%	100%	07 Feb	07 Mar	08 Apr	06 May	07 Jun	08 Jul	05 Aug	09 Sep	07 Oct	100%	100%	
Viet Nam (northern)	92%	58%	100%	58%	08 Feb	21 Mar	09 Apr	10 May	16 Jun	12 Jul	09 Aug	09 Sep	05 Oct	100%	67%	
Viet Nam (southern)	92%	75%	83%	50%	09 Feb	10 Mar	08 Apr	10 May	08 Jun	08 Jul	09 Aug	08 Sep	10 Oct	100%	100%	
Fiji	67%	58%	67%	50%	09 Feb	10 Mar	11 Apr	04 May		22 Jul	10 Aug	15 Sep	11 Oct	89%	44%	
Completeness	66.7%		77.5%		94%	94%	94%	94%	82%	94%	94%	94%	94%	92.8%		
Timeliness		45.6%		61.8%	94%	82%	82%	94%	76%	82%	94%	88%	88%		86.9%	

<sup>1</sup> Monthly reports with data through September 2011

<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

**Table 2A. Measles case classification and incidence, by country and area, Western Pacific Region, 2010–2011<sup>1</sup>**

Country	2010										2011 <sup>1</sup>									
	Population (in millions) <sup>2</sup>	Suspected measles cases <sup>3</sup>	Confirmed measles cases				Discarded cases	Pending classification	Deaths due to measles	Measles incidence per 1 million pop.	Population (in millions) <sup>2</sup>	Suspected measles cases <sup>3</sup>	Confirmed measles cases				Discarded cases	Pending classification	Deaths due to measles	Measles incidence per 1 million pop.
			Lab	Epi-linked	Clinical	Total							Lab	Epi-linked	Clinical	Total				
Australia	22.27	No data	65	5	0	70	0	0	0	3.1	22.61	No data	126	11	0	137	0	0	0	8.1
Brunei Darussalam	0.40	7	0	0	0	0	7	0	0	0.0	0.41	8	3	0	0	3	5	0	0	9.9
Cambodia	14.14	3572	451	0	705	1 156	2416	0	6	81.8	14.31	3423	304	0	366	670	2735	18	1	62.4
China	1341.34	56 766	26 297	116	11 768	38 181	18 529	56	39	28.5	1347.57	30 101	8 353	12	1 049	9414	20 462	225	11	9.3
Hong Kong (China)	7.05	24	4	0	7	11	13	0	0	1.6	7.12	163	4	1	5	10	153	0	0	1.9
Japan	126.54	461	306	3	121	430	31	0	0	3.4	126.50	680	290	8	70	368	312	0	0	3.9
Lao PDR	6.20	332	6	0	147	153	179	0	0	24.7	6.29	256	10	16	2	28	225	3	0	5.9
Macao (China)	0.54	28	0	0	0	0	28	0	0	0.0	0.56	14	1	0	0	1	13	0	0	2.4
Malaysia	28.40	1098	69	2	4	75	1023	0	0	2.6	28.86	3044	590	61	86	737	1586	721	0	34.1
Mongolia	2.76	160	0	0	7	7	153	0	0	2.5	2.80	135	0	0	0	0	135	0	0	0.0
New Zealand	4.37	No data	15	21	12	48	0	0	0	11.0	4.41	No data	186	75	13	274	0	27	0	82.8
Papua New Guinea	6.86	26	0	0	0	0	26	0	0	0.0	7.01	63	0	0	0	0	42	21	0	N/A
Philippines	93.26	10 370	2881	137	3366	6384	3986	0	34	68.5	94.85	8689	2960	158	2905	6023	2526	140	27	84.7
Republic of Korea	48.18	246	95	16	3	114	132	0	0	2.4	48.39	147	35	0	3	38	107	2	0	1.0
Singapore	5.09	No data	54	0	0	54	0	0	0	10.6	5.19	No data	93	0	0	93	0	0	0	23.9
Viet Nam	87.85	6419	757	89	977	1823	2915	1681	1	20.8	88.79	7503	27	32	233	292	5789	1422	2	4.4
<b>Pacific island countries and areas</b>																				
American Samoa	0.07	0	0	0	0	0	0	0	0	0.0	0.07	0	0	0	0	0	0	0	0	0.0
Cook Islands	0.02	0	0	0	0	0	0	0	0	0.0	0.02	0	0	0	0	0	0	0	0	0.0
Fiji	0.86	72	0	0	0	0	0	72	0	N/A	0.87	255	0	0	0	0	255	0	0	N/A
French Polynesia	0.27	0	0	0	0	0	0	0	0	0.0	0.27	0	0	0	0	0	0	0	0	0.0
Guam	0.18	0	0	0	0	0	0	0	0	0.0	0.18	0	0	0	0	0	0	0	0	0.0
Kiribati	0.10	0	0	0	0	0	0	0	0	0.0	0.10	0	0	0	0	0	0	0	0	0.0
Marshall Islands	0.05	0	0	0	0	0	0	0	0	0.0	0.05	0	0	0	0	0	0	0	0	0.0
Micronesia, Federated States of	0.11	0	0	0	0	0	0	0	0	0.0	0.11	0	0	0	0	0	0	0	0	0.0
Nauru	0.01	0	0	0	0	0	0	0	0	0.0	0.01	0	0	0	0	0	0	0	0	0.0
New Caledonia	0.25	0	0	0	0	0	0	0	0	0.0	0.25	0	0	0	0	0	0	0	0	0.0
Niue	0.00	0	0	0	0	0	0	0	0	0.0	0.00	0	0	0	0	0	0	0	0	0.0
Northern Mariana Islands	0.06	0	0	0	0	0	0	0	0	0.0	0.06	0	0	0	0	0	0	0	0	0.0
Palau	0.02	0	0	0	0	0	0	0	0	0.0	0.02	0	0	0	0	0	0	0	0	0.0
Samoa	0.18	0	0	0	0	0	0	0	0	0.0	0.18	0	0	0	0	0	0	0	0	0.0
Solomon Islands	0.54	0	0	0	0	0	0	0	0	0.0	0.55	0	0	0	0	0	0	0	0	0.0
Tokelau	0.00	0	0	0	0	0	0	0	0	0.0	0.00	0	0	0	0	0	0	0	0	0.0
Tonga	0.10	0	0	0	0	0	0	0	0	0.0	0.10	0	0	0	0	0	0	0	0	0.0
Tuvalu	0.01	0	0	0	0	0	0	0	0	0.0	0.01	0	0	0	0	0	0	0	0	0.0
Vanuatu	0.24	0	0	0	0	0	0	0	0	0.0	0.25	0	0	0	0	0	0	0	0	0.0
Wallis and Futuna	0.01	0	0	0	0	0	0	0	0	0.0	0.01	0	0	0	0	0	0	0	0	0.0
<b>Western Pacific Region</b>	<b>1798.34</b>	<b>79 581</b>	<b>31 000</b>	<b>389</b>	<b>17 117</b>	<b>48 506</b>	<b>29 438</b>	<b>1809</b>	<b>80</b>	<b>27.0</b>	<b>1808.80</b>	<b>54 481</b>	<b>12 982</b>	<b>374</b>	<b>4732</b>	<b>18 088</b>	<b>34 090</b>	<b>2834</b>	<b>41</b>	<b>13.3</b>

<sup>1</sup> Monthly reports with data through September 2011

<sup>2</sup> Population figures from United Nations World Population Prospects: The 2010 Revision

<sup>3</sup> Australia, New Zealand and Singapore report only confirmed cases

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 2B. Measles surveillance performance indicators, by country and area, Western Pacific Region, 2010–2011 <sup>1</sup>**

Country	2010					2011 <sup>1</sup>					
	Discarded measles rate per 100 000 pop	Second level units with ≥ 1 discarded cases per 100 000 pop	Suspected cases with adequate investigation	Suspected cases with adequate blood specimens <sup>2</sup>	Percent clinically confirmed cases <sup>3</sup>	Discarded measles rate per 100 000 pop	Annualized discarded measles rate per 100 000 pop	Second level units with ≥ 1 discarded cases per 100 000 pop (annualized)	Suspected cases with adequate investigation	Suspected cases with adequate blood specimens <sup>2</sup>	Percent clinically confirmed cases <sup>3</sup>
	≥ 2	≥ 80%	≥ 80%	≥ 80%	≤ 10%	≥ 2	≥ 2	≥ 80%	≥ 80%	≥ 80%	≤ 10%
Australia <sup>4</sup>	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data
Brunei Darussalam	1.8	100.0%	85.7%	100.0%	Not applicable	1.2	1.6	100.0%	75.0%	100.0%	0.0%
Cambodia	17.1	75.0%	60.1%	79.3%	61.0%	19.1	25.5	75.0%	40.4%	82.8%	54.6%
China	1.4	51.6%	91.1%	72.6%	30.8%	1.5	2.0	54.8%	93.6%	86.8%	11.1%
Hong Kong (China)	0.2	0.0%	45.8%	66.7%	63.6%	2.1	2.9	100.0%	78.5%	95.1%	50.0%
Japan	0.0	0.0%	Insufficient data	Insufficient data	28.1%	0.2	0.3	4.3%	Insufficient data	Insufficient data	19.0%
Lao PDR	2.9	35.3%	19.3%	23.8%	96.1%	3.6	4.8	52.9%	33.6%	37.1%	7.1%
Macao (China)	5.2	100.0%	100.0%	100.0%	Not applicable	2.3	3.1	100.0%	100.0%	100.0%	0.0%
Malaysia	3.6	87.5%	71.9%	82.0%	5.3%	5.5	7.3	93.8%	66.8%	74.3%	11.7%
Mongolia	5.6	31.8%	65.0%	92.5%	100.0%	4.8	6.4	40.9%	65.2%	100.0%	Not applicable
New Zealand <sup>4</sup>	Insufficient data	Insufficient data	Insufficient data	Insufficient data	25.0%	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	4.7%
Papua New Guinea	0.4	5.0%	46.2%	100.0%	Not applicable	0.6	0.8	20.0%	25.4%	65.1%	Not applicable
Philippines	4.3	94.1%	14.5%	67.8%	52.7%	2.7	3.6	94.1%	47.0%	70.5%	48.2%
Republic of Korea	0.3	6.3%	61.8%	73.9%	2.6%	0.2	0.3	0.0%	70.7%	83.7%	7.9%
Singapore <sup>4</sup>	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data
Viet Nam	3.3	53.1%	59.0%	59.9%	53.6%	6.5	8.7	51.6%	59.2%	61.1%	79.8%
<b>Pacific island countries and areas</b>											
American Samoa	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Cook Islands	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Fiji	0.0	0.0%	0.0%	Not applicable	Not applicable	0.0	0.0	0.0%	0.0%	Not applicable	Not applicable
French Polynesia	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Guam	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Kiribati	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Marshall Islands	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Micronesia, Federated States of	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Nauru	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
New Caledonia	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Niue	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Northern Mariana Islands	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Palau	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Samoa	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Solomon Islands	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Tokelau	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Tonga	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Tuvalu	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Vanuatu	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
Wallis and Futuna	0.0	0.0%	Not applicable	Not applicable	Not applicable	0.0	0.0	0.0%	Not applicable	Not applicable	Not applicable
<b>Western Pacific Region</b>	<b>1.7</b>	<b>38.3%</b>	<b>76.3%</b>	<b>71.3%</b>	<b>35.4%</b>	<b>1.9</b>	<b>2.6</b>	<b>42.0%</b>	<b>75.4%</b>	<b>79.4%</b>	<b>26.5%</b>

<sup>1</sup> Monthly reports with data through September 2011

<sup>2</sup> Excludes epi-linked cases

<sup>3</sup> Among all confirmed cases

<sup>4</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 3. Measles and rubella laboratory performance, Western Pacific Region, 2011<sup>1</sup>**

Country	Measles and rubella		Measles													Rubella				
			Serology									Virus detection				Serum and blood				
	Total number of cases tested	Total number of samples received	Serum and blood					DBS		Results ≤ 7 days	Measles Virus isolation/ detection (swab, urine, PBMC)		Measles RT - PCR		Total number of lab confirmed cases	Samples tested for rubella IgM	Rubella IgM (+)	Rubella IgM equiv	Rubella IgM pending	
			Samples tested for measles IgM	Measles IgM (+)	Measles IgM equiv	Measles IgM (-)	Measles IgM pending	DBS samples	No. of samples tested		No. of isolates	No. of samples tested	No. of (+)	No.						No.
No.	No.	No.	No.	%	No.	No. received	No. (+)	%	No. of samples tested	No. of isolates	No. of samples tested	No. of (+)	No.	No.	No.	No.				
Australia	125	213	64	24	4	36	56.3%	0	0	-	100%	0	0	138	109	88	31	5	1	0
Cambodia	3032	3040	2880	274	1	2605	90.5%	0	1	0	54.2%	159	0	160	0	282	2880	1027	50	0
China																				
Hong Kong (China)	269	312	250	4	4	242	96.8%	0	0	-	98.4%	14	2	22	4	5	250	25	2	4
Japan																				
Lao PDR	88	88	88	10	0	78	88.6%	0	0	-	100.0%	0	0	0	0	10	73	9	10	0
Macao (China)	36	36	36	1	0	35	97.2%	0	0	-	97.2%	0	0	0	0	1	36	1	1	0
Malaysia	3406	3472	3471	1022	63	2366	68.2%	0	0	-	100%	0	0	0	0	1022	2410	291	154	1
Mongolia	135	135	135	0	0	135	100%	0	0	-	100%	0	0	0	0	0	135	14	5	1
New Zealand	640	816	445	96	7	340	76.4%	2	0	-	98.3%	8	1	365	186	228	65	3	0	10
Papua New Guinea	66	66	57	0	0	57	100.0%	9	0	-	72.7%	0	0	0	0	0	57	17	2	9
Philippines	7178	7178	7160	3684	390	3084	43.1%	2	0	-	62.6%	0	0	0	0	3684	3471	1076	283	13
Republic of Korea	186	227	170	33	17	120	70.6%	0	0	-	97.6%	17	1	70	12	34	171	14	26	0
Singapore	457	648	184	39	1	144	78.3%	0	0	-	97.4%	212	31	4	4	68	298	8	17	2
Viet Nam (northern)	2420	2420	1415	8	4	1367	96.6%	36	0	-	61.1%	0	0	0	0	8	2420	1362	184	13
Viet Nam (southern)	1685	1694	1685	5	9	1422	84.4%	0	0	-	93.1%	9	0	9	0	5	1681	1080	107	0
Fiji	354	355	185	0	0	90	48.6%	95	8	0	84.7%	0	0	0	0	0	345	90	40	32
<b>Total</b>	<b>20 077</b>	<b>20 700</b>	<b>18 225</b>	<b>5200</b>	<b>500</b>	<b>12 121</b>	<b>66.5%</b>	<b>144</b>	<b>9</b>	<b>0</b>	<b>73.6%</b>	<b>419</b>	<b>35</b>	<b>768</b>	<b>315</b>	<b>5435</b>	<b>14 323</b>	<b>5022</b>	<b>882</b>	<b>85</b>

<sup>1</sup> Monthly reports with data through September 2011

**Table 4A. Measles genotypes distribution, Western Pacific Region, 2011<sup>1</sup>**

Country	2010												2011 <sup>1</sup>											
	Total confirmed cases <sup>2</sup>	Total Lab confirmed <sup>2</sup>	GENOTYPES <sup>3</sup>								Pending	Total	Total confirmed cases <sup>2</sup>	Total Lab confirmed <sup>2</sup>	GENOTYPES <sup>3</sup>								Pending	Total
			B3	D4	D8	D9	D11	G3	H1	A					B3	D4	D8	D9	D11	G3	H1	A		
Australia	70	65	7	3	4	21	-	-	2	1	9	47	137	126	-	16	21	39	-	-	1	5	3	85
Brunei Darussalam	0	0	-	-	-	-	-	-	-	-	-	0	3	3	-	-	-	-	-	-	-	-	-	0
Cambodia	1156	451	-	-	-	11	-	-	-	-	-	11	670	304	-	-	-	-	-	-	-	-	-	0
China	38 181	26 297	-	-	-	2	2	-	277	2	-	283	9414	8353	-	-	-	-	1	-	175	2	-	178
Hong Kong (China)	11	4	1	-	1	1	-	-	2	-	-	5	10	4	-	-	1	2	-	-	-	-	-	3
Japan	430	306	-	-	1	4	-	-	1	-	-	6	368	290	-	53	7	41	-	1	-	5	-	107
Lao PDR	153	6	-	-	-	-	-	-	5	-	-	5	28	10	-	-	-	-	-	-	-	-	-	0
Macao (China)	0	0	-	-	-	-	-	-	-	-	-	0	1	1	-	-	1	-	-	-	-	-	-	1
Malaysia	75	69	1	-	-	1	-	3	-	2	-	7	737	590	-	-	-	29	-	2	-	2	-	33
Mongolia	7	0	-	-	-	-	-	-	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	0
New Zealand	48	15	-	-	3	-	-	-	-	2	-	5	274	186	-	18	3	12	-	-	-	-	-	33
Papua New Guinea	0	0	-	-	-	-	-	-	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	0
Philippines	6384	2881	-	-	-	11	-	-	-	-	-	11	6023	2960	-	-	-	6	-	-	-	-	-	6
Republic of Korea	114	95	-	-	-	-	-	-	38	1	-	39	38	35	-	-	-	11	-	-	-	1	-	12
Singapore	54	54	-	-	-	13	-	2	1	-	-	16	93	93	-	1	9	21	-	1	-	-	1	33
Viet Nam	1823	757	-	-	-	-	-	-	13	-	-	13	292	27	-	-	-	-	-	-	-	-	-	0
Pacific island countries	0	0	-	-	-	-	-	-	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	0
<b>Total</b>	<b>48 506</b>	<b>31 000</b>	<b>9</b>	<b>3</b>	<b>9</b>	<b>64</b>	<b>2</b>	<b>5</b>	<b>339</b>	<b>8</b>	<b>9</b>	<b>448</b>	<b>18 088</b>	<b>12 982</b>	<b>-</b>	<b>88</b>	<b>42</b>	<b>161</b>	<b>1</b>	<b>4</b>	<b>176</b>	<b>15</b>	<b>4</b>	<b>491</b>

<sup>1</sup> Monthly reports with data through September 2011

<sup>2</sup> Source: National measles surveillance reports (Table 2A)

<sup>3</sup> Sources: National and regional reference laboratory reports to WHO and to the Measles Nucleotide Sequence online database (MeANS), whichever has the greater number

**Table 4B. Rubella genotypes distribution, Western Pacific Region, 2011<sup>1</sup>**

Country	2010						2011 <sup>1</sup>						
	Samples tested for rubella IgM <sup>2</sup>	Rubella IgM positive <sup>2</sup>	Genotypes <sup>3</sup>			Total	Samples tested for rubella IgM <sup>2</sup>	Rubella IgM positive <sup>2</sup>	Genotypes <sup>3</sup>			Pending	Total
			1E	1j	2B				1E	1j	2B		
Australia	56	12	-	-	-	0	31	5	-	-	-	-	0
Brunei Darussalam	-	-	-	-	-	0	-	-	-	-	-	-	0
Cambodia	2580	71	-	-	4	4	2880	1,027	-	-	-	-	0
China	-	-	52	2	-	54	-	-	154	-	18	-	172
Hong Kong (China)	120	11	6	2	-	8	250	25	7	-	4	-	11
Japan	-	-	1	-	-	1	-	-	2	1	2	-	5
Lao PDR	84	26	5	-	-	5	73	9	1	-	-	-	1
Macao (China)	57	2	-	-	-	0	36	1	-	-	-	-	0
Malaysia	844	110	-	-	-	0	2410	291	-	-	2	-	2
Mongolia	156	7	2	-	-	2	135	14	-	-	-	-	0
New Zealand	62	1	-	-	-	0	65	3	-	-	5	-	5
Papua New Guinea	34	5	-	-	-	0	57	17	-	-	2	-	2
Philippines	4327	1440	-	3	1	4	3471	1076	-	-	-	-	0
Republic of Korea	202	15	-	-	-	0	171	14	-	-	-	-	0
Singapore	770	47	-	-	1	1	298	8	-	-	-	-	0
Viet Nam	5018	2302	-	-	-	0	4101	2442	-	-	-	-	0
Pacific island countries	48	1	-	-	-	0	345	90	-	-	2	-	2
<b>Total</b>	<b>14 358</b>	<b>4050</b>	<b>66</b>	<b>7</b>	<b>6</b>	<b>79</b>	<b>14 323</b>	<b>5022</b>	<b>164</b>	<b>1</b>	<b>35</b>	<b>0</b>	<b>200</b>

<sup>1</sup> Monthly reports with data through September 2011

<sup>2</sup> Source: National laboratory reports to WHO (Table 3)

<sup>3</sup> Sources: National and regional reference laboratory reports to WHO and to the Measles Nucleotide Sequence online database (MeaNS), whichever has the greater number

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