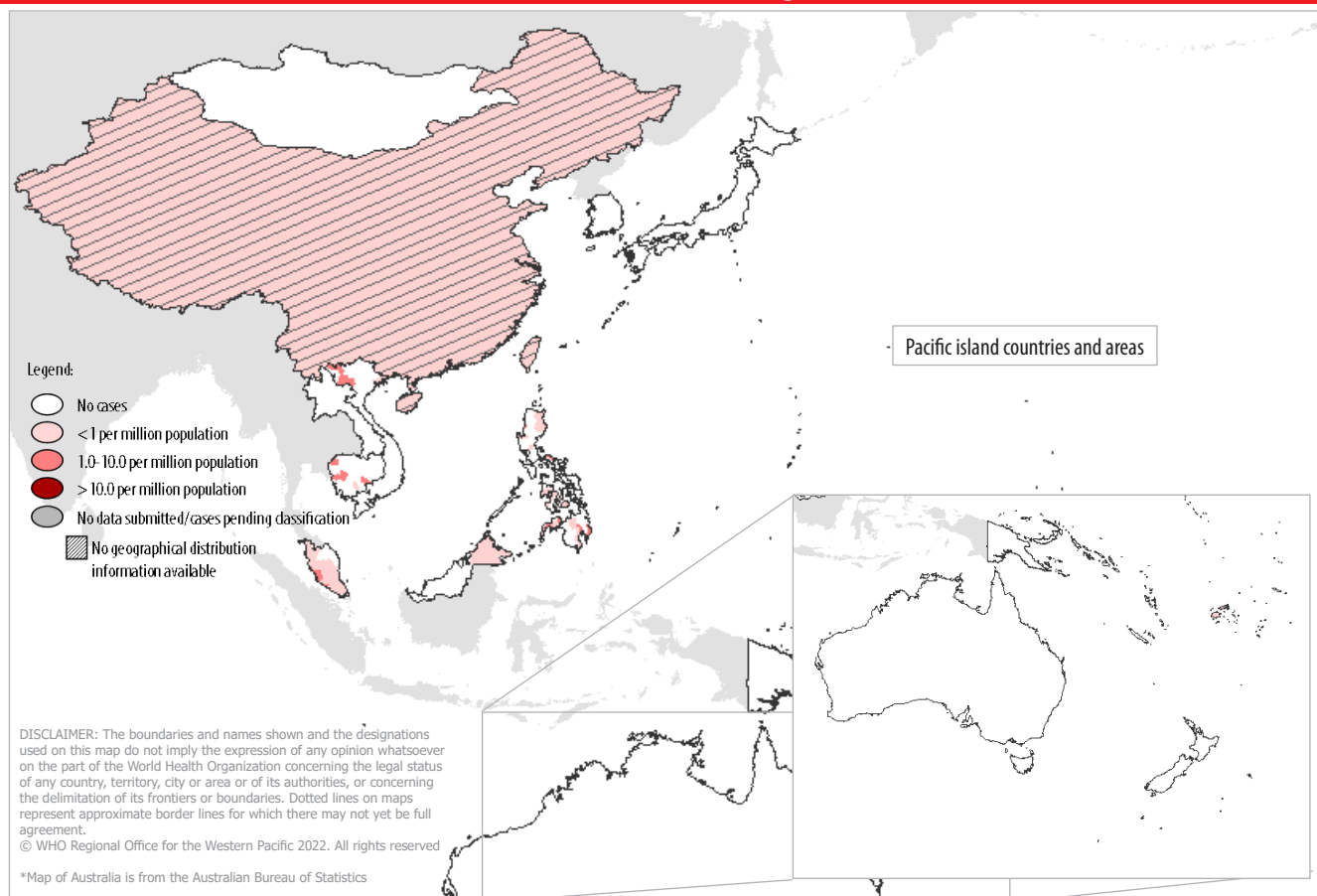


MEASLES-RUBELLA

Figure 1. Incidence rate of measles cases with rash onset 1–30 November 2022, WHO Western Pacific Region



Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 December 2022

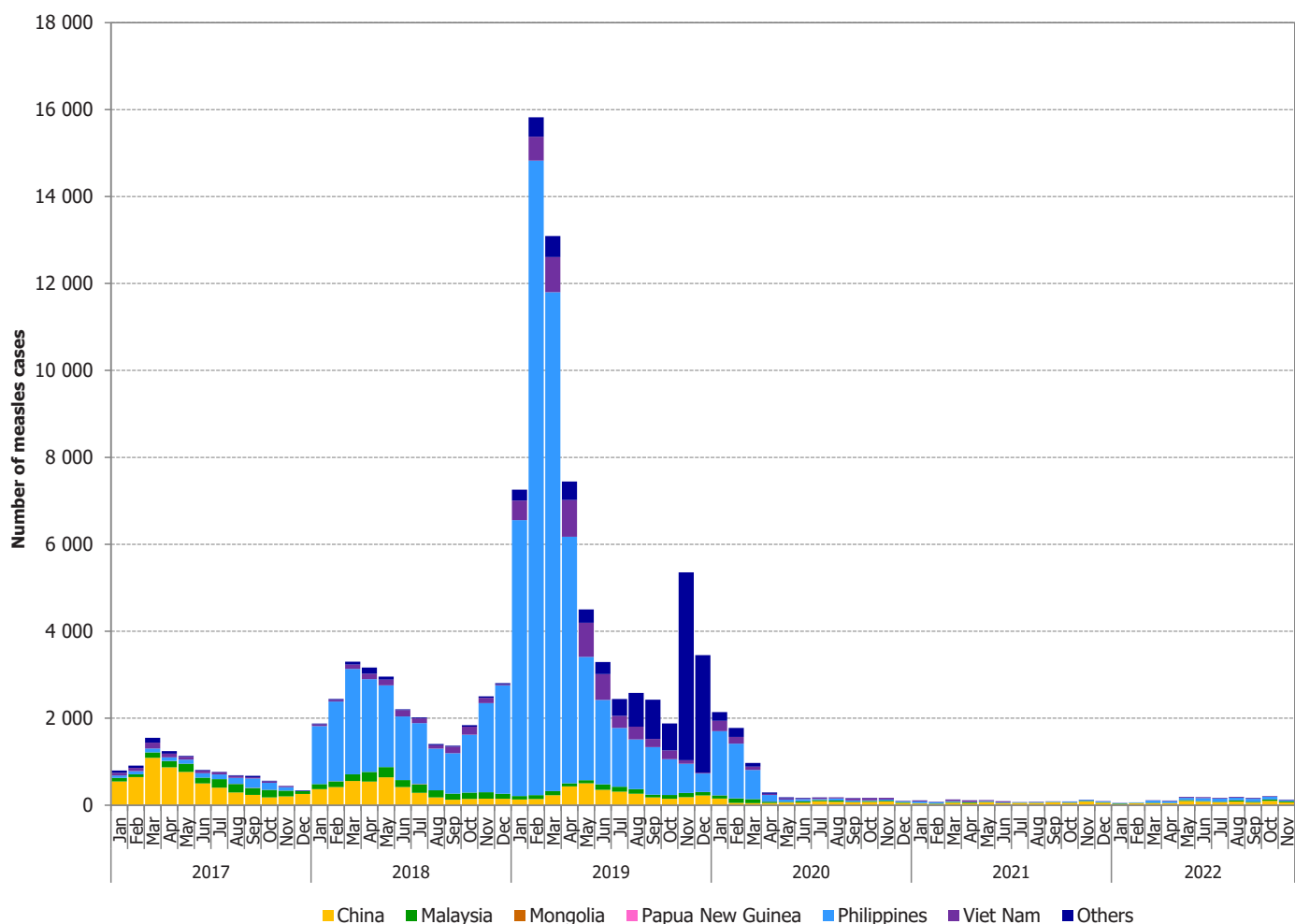
Table 1. Numbers of confirmed and total (confirmed and compatible) measles cases by month of rash onset, June–November 2022, WHO Western Pacific Region

Country/area	2022											
	Jun		Jul		Aug		Sep		Oct		Nov	
	No. of confirmed	Total no. of cases	No. of confirmed	Total no. of cases	No. of confirmed	Total no. of cases	No. of confirmed	Total no. of cases	No. of confirmed	Total no. of cases	No. of confirmed	Total no. of cases
Australia ¹	1	1	0	0	0	0	2	2	0	0	3	3
Brunei Darussalam	0	0	0	0	0	0	0	0	0	0	0	0
Cambodia	0	0	0	0	1	1	4	4	1	1	0	6
China	41	82	35	69	33	85	25	59	39	99	23	66
China, Hong Kong SAR	1	1	0	0	0	0	0	0	0	0	1	1
China, Macao SAR	0	0	0	0	0	0	0	0	0	0	0	0
Japan	0	0	2	2	1	2	1	1	1	1	0	0
Lao People's Democratic Republic	0	0	0	0	0	0	0	0	0	0	0	0
Malaysia	13	13	10	10	28	28	20	20	32	33	23	23
Mongolia	0	0	0	0	0	0	0	0	0	0	0	0
New Zealand	0	0	0	0	0	0	0	0	0	0	0	0
Papua New Guinea	0	0	0	0	0	0	0	0	0	0	0	0
Philippines	8	69	11	73	6	58	6	69	5	62	3	24
Republic of Korea	0	0	0	0	0	0	0	0	0	0	0	0
Singapore	1	1	0	0	1	1	0	0	1	1	0	0
Viet Nam	2	19	0	17	2	18	2	16	0	13	0	4
Pacific island countries and areas	0	0	0	0	0	0	0	0	0	0	0	2
Western Pacific Region	67	186	58	171	72	193	60	171	79	210	53	129

¹ Reports only confirmed cases

Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 December 2022

Figure 2. Total (confirmed and compatible) measles cases by month of rash onset, WHO Western Pacific Region, 2017–2022 as of 20 December 2022



Source: Measles and rubella monthly country reports to WHO by 20 December 2022

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

Country/area	Year verified	2021						2022					
		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	Endemic	Unknown / not reported			Imported	Import-related	Endemic	Unknown / not reported	
Australia	2014	0	-	-	-	-	-	6	6	0	0	0	100.0%
Brunei Darussalam	2015	0	-	-	-	-	-	0	-	-	-	-	-
Cambodia	-	5	0	0	0	5	0.0%	13	0	0	0	13	0.0%
China	-	505	0	0	0	505	0.0%	441	0	0	0	441	0.0%
China, Hong Kong SAR	2016	1	0	0	0	1	0.0%	2	0	0	0	2	0.0%
China, Macao SAR	2014	0	-	-	-	-	-	0	-	-	-	-	-
Japan	2015	5	1	0	0	4	20.0%	5	0	0	0	5	0.0%
Lao People's Democratic Republic	-	2	0	0	0	2	0.0%	0	-	-	-	-	-
Malaysia	-	121	0	0	97	24	80.2%	184	5	0	137	42	77.2%
Mongolia	-	0	-	-	-	-	-	0	-	-	-	-	-
New Zealand	2017	0	-	-	-	-	-	0	-	-	-	-	-
Papua New Guinea	-	0	-	-	-	-	-	0	-	-	-	-	-
Philippines	-	12	0	0	10	2	83.3%	53	0	0	46	7	86.8%
Republic of Korea	2014	0	-	-	-	-	-	0	-	-	-	-	-
Singapore	2018	0	-	-	-	-	-	3	0	0	0	3	0.0%
Viet Nam	-	33	0	0	0	33	0.0%	10	0	0	0	10	0.0%
Pacific island countries and areas	-	2	0	0	0	2	0.0%	0	-	-	-	-	-
Total		686	1	0	107	578	15.7%	717	11	0	183	523	27.1%

Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 December 2022

Table 3. Measles case classification and incidence by country and area, WHO Western Pacific Region, 2018–2022 as of 20 December 2022

Country/area	2018		2019		2020		2021		2022										Rash onset of last confirmed measles case
	Total confirmed and clinically compatible ¹	Measles incidence per 1 million pop.	Total confirmed and clinically compatible ¹	Measles incidence per 1 million pop.	Total confirmed and clinically compatible ¹	Measles incidence per 1 million pop.	Total confirmed and clinically compatible ¹	Measles incidence per 1 million pop.	Population (in millions) ²	Suspected measles cases	Pending classification	Discarded cases ³	Measles cases					Deaths due to measles	
													Clinically compatible	Lab	Epi-linked	Total confirmed and clinically compatible ¹	Annualized measles incidence per 1 million pop.		
Australia	101	4.1	285	11.3	25	1.0	0	0.0	26.0	NA ³	0	0	0	6	0	6	0.3	0	15-Nov-22
Brunei Darussalam	1	2.3	1	2.3	0	0.0	0	0.0	0.4	19	0	19	0	0	0	0	0.0	0	13-Sep-19
Cambodia	3	0.2	676	41.9	379	23.3	5	0.3	16.7	882	48	821	0	13	0	13	0.9	0	27-Nov-22
China	3 975	2.8	3 098	2.2	867	0.6	554	0.4	1425.9	27 255	1 462	25 231	121	441	0	562	0.4	0	30-Nov-22
China, Hong Kong SAR	16	2.1	90	12.0	1	0.1	1	0.1	7.5	5	0	2	1	2	0	3	0.4	0	18-Nov-22
China, Macao SAR	3	4.7	37	56.3	0	0.0	0	0.0	0.7	11	0	11	0	0	0	0	0.0	0	6-May-19
Japan	284	2.2	763	6.1	12	0.1	6	0.0	124.3	75	0	69	1	5	0	6	0.1	0	18-Oct-22
Lao People's Democratic Republic	10	1.4	1 290	180.2	135	18.6	2	0.3	7.5	409	181	228	0	0	0	0	0.0	0	5-Feb-21
Malaysia	1 958	60.8	1 077	33.0	478	14.5	128	3.8	33.8	4 035	83	3 761	7	184	0	191	6.2	0	4-Dec-22
Mongolia	1	0.3	2	0.6	0	0.0	0	0.0	3.4	38	0	38	0	0	0	0	0.0	0	4-Mar-19
New Zealand	36	7.5	2 229	455.7	7	1.4	0	0.0	5.2	101	0	101	0	0	0	0	0.0	0	29-Jan-20
Papua New Guinea	15	1.6	1	0.1	4	0.4	0	0.0	10.0	59	19	40	0	0	0	0	0.0	0	7-Sep-20
Philippines	22 869	212.4	48 521	443.2	3 723	33.5	218	1.9	114.7	2 162	0	1 638	471	53	0	524	5.0	0	5-Nov-22
Republic of Korea	19	0.4	191	3.7	6	0.1	0	0.0	51.8	133	0	133	0	0	0	0	0.0	0	10-Feb-20
Singapore	37	6.4	162	27.7	14	2.4	1	0.2	6.0	16	0	12	1	3	0	4	0.7	0	27-Oct-22
Viet Nam	1 247	13.2	5 723	60.0	713	7.4	163	1.7	97.8	791	290	375	116	9	1	126	1.4	1	23-Sep-22
Pacific island countries and areas ⁴	0	0.0	6 346	1863.1	75	21.8	2	0.6	3.5	332	14	316	2	0	0	2	0.6	0	14-Nov-21
Western Pacific Region	30 575	16.0	64 177	33.4	6 370	3.3	1 080	0.6	1935.2	36 323	2 097	32 795	720	716	1	1 437	0.8	1	

¹ Includes clinically compatible, laboratory confirmed and epi-linked confirmed cases

² United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects 2022 revision.

³ Australia reports confirmed cases only.

⁴ Classification is provisional based on laboratory data only.

Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 November 2022

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, 2021–2022 as of 20 December 2022

Country/area	2021				2022			
	Discarded non-measles rate per 100 000 pop	Second level units with ≥ 2 discarded cases per 100 000 pop [annualized] ¹	Suspected cases with adequate investigation	Suspected cases with adequate specimens for laboratory confirmation ²	Annualized discarded non-measles rate per 100 000 pop	Second level units with ≥ 2 discarded cases per 100 000 pop [annualized] ¹	Suspected cases with adequate investigation	Suspected cases with adequate specimens for laboratory confirmation ²
	≥ 2	≥ 80%	≥ 80%	≥ 80%	≥ 2	≥ 80%	≥ 80%	≥ 80%
Australia ³	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data	Insufficient data
Brunei Darussalam	4.1	Not applicable	100.0%	100.0%	4.6	Not applicable	100.0%	94.7%
Cambodia	2.1	24.0%	96.3%	99.7%	5.4	60.0%	90.6%	99.5%
China	2.0	0.0%	98.8%	97.9%	1.93	35.5%	98.5%	97.3%
China, Hong Kong SAR	0.0	Not applicable	100.0%	100.0%	0.0	Not applicable	80.0%	80.0%
China, Macao SAR	3.4	Not applicable	91.3%	100.0%	1.7	Not applicable	100.0%	100.0%
Japan	0.1	0.0%	Insufficient data	Insufficient data	0.1	0.0%	Insufficient data	Insufficient data
Lao People's Democratic Republic	0.5	5.6%	46.7%	77.8%	3.3	27.8%	3.7%	3.7%
Malaysia	6.1	62.5%	80.3%	96.8%	12.2	81.3%	81.3%	98.6%
Mongolia	0.2	4.5%	100.0%	100.0%	1.2	4.5%	97.4%	60.5%
New Zealand	1.4	15.0%	Insufficient data	Insufficient data	2.1	35.0%	Insufficient data	Insufficient data
Papua New Guinea	0.1	0.0%	100.0%	87.5%	0.4	5.0%	81.4%	88.1%
Philippines	0.6	0.0%	70.3%	72.8%	1.6	38.9%	85.7%	72.7%
Republic of Korea	0.4	0.0%	92.9%	94.8%	0.3	0.0%	68.4%	98.5%
Singapore	0.1	Not applicable	25.0%	25.0%	0.2	Not applicable	31.3%	37.5%
Viet Nam	0.2	1.6%	38.9%	39.2%	0.4	6.3%	0.0%	34.7%
Pacific island countries and areas ⁴	2.5	5.0%	45.7%	95.7%	9.8	10.0%	97.6%	98.2%
Western Pacific Region	1.7	7.3%	94.8%	95.4%	1.8	20.8%	91.8%	93.1%

¹ This indicator is not applicable for countries which have no second-level administrative units

² Adequate specimen defined as blood specimen collected within 28 days of rash onset or other specimen (throat swab, nasopharyngeal swab, cerebrospinal fluid, urine) collected within 5 days of rash onset; excludes epidemiologically-linked cases.

³ Reports only confirmed cases

⁴ Surveillance performance indicators refer to all the Pacific island countries and areas as one epidemiological bloc; each country is considered as second level unit

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, 2018–2022 as of 20 December 2022

Country/area	2018		2019		2020		2021		2022									
	Total confirmed and clinically compatible	Rubella incidence per 1 million pop.	Total confirmed and clinically compatible	Rubella incidence per 1 million pop.	Total confirmed and clinically compatible	Rubella incidence per 1 million pop.	Total confirmed and clinically compatible	Rubella incidence per 1 million pop.	Population (in millions) ¹	Investigated for rubella	Pending classification	Discarded cases	Rubella cases			Total confirmed and clinically compatible	Annualized Rubella incidence per 1 million pop.	Congenital rubella syndrome
													Clinically compatible cases	Lab	Epi-linked			
Australia	-	-	-	-	-	-	-	-	26.0	-	-	-	-	-	-	-	-	-
Brunei Darussalam	0	0.0	0	0.0	0	0.0	0	0.0	0.4	19	4	15	0	0	0	0	0.0	-
Cambodia	3	0.2	30	1.9	40	2.5	10	0.6	16.7	830	0	813	0	17	0	17	1.1	-
China	3 935	2.8	32 568	22.9	2 202	1.5	845	0.6	1 425.9	27 255	1 462	24 969	217	605	2	824	0.6	-
China, Hong Kong SAR	11	1.5	48	6.4	4	0.5	2	0.3	7.5	2	0	1	0	1	0	1	0.1	-
China, Macao SAR	1	1.6	79	120.2	3	4.5	0	0.0	0.7	11	0	11	0	0	0	0	0.0	-
Japan	3 072	24.3	2 315	18.4	92	0.7	11	0.1	124.3	68	0	54	1	13	0	14	0.1	-
Lao People's Democratic Republic	16	2.3	27	3.8	22	3.0	3	0.4	7.5	228	0	228	0	0	0	0	0.0	-
Malaysia	175	5.4	111	3.4	103	3.1	97	2.9	33.8	4 101	83	3 939	0	79	0	79	2.6	-
Mongolia	1	0.3	2	0.6	0	0.0	0	0.0	3.4	38	0	37	0	1	0	1	0.3	-
New Zealand	-	-	1	0.2	-	-	0	0.0	5.2	0	-	-	-	-	-	-	-	-
Papua New Guinea	3	0.3	5	0.5	2	0.2	0	0.0	10.0	59	19	37	0	3	0	3	0.3	-
Philippines	152	1.4	198	1.8	404	3.6	36	0.3	114.7	2 162	0	2 114	0	48	0	48	0.5	-
Republic of Korea	0	0.0	8	0.2	2	0.0	0	0.0	51.8	183	0	183	0	0	0	0	0.0	-
Singapore	16	2.8	7	1.2	10	1.7	0	0.0	6.0	14	0	7	7	0	0	7	1.3	-
Viet Nam	102	1.1	85	0.9	135	1.4	38	0.4	97.8	412	51	332	8	21	0	29	0.3	-
Pacific island countries and areas ²	0	0.0	0	0.0	0	0.0	4	1.2	3.5	332	14	317	0	1	0	1	0.3	-
Western Pacific Region	7 487	3.9	35 484	18.5	3 019	1.6	1 046	0.5	1 935.2	35 714	1 633	33 057	233	789	2	1 024	0.6	-

¹ United Nations, Department of Economic and Social Affairs, Population Division World Population Prospects 2022 revision

² Classification is provisional based on laboratory data only.

"-" No data

Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 December 2022

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 6A. Measles and rubella laboratory testing, WHO Western Pacific Region, 2021

Country/area	Laboratory	Measles and rubella			Measles													Rubella							
		Total number of samples received	Total number of samples tested	Total number of cases tested	Serology								Virus detection					Total number of lab confirmed cases	Serum and blood (includes DBS)						
					Serum				Blood				% of samples with results ≤ 4 days	Measles Virus isolation/detection (swab, urine and others)		Measles Reverse Transcription-Polymerase Chain Reaction			Samples tested for rubella IgM	Rubella IgM (+)			Rubella IgM equiv		
					No.	No.	%	No.	%	No. received	No. (+)	No. of samples tested		No. of isolates	No. of samples tested	No. (+)	No.			No.	%	No.	%		
Australia	VIDRL	1	1	1	0	-	-	-	-	0	-	-	0	-	1	1	1	0	-	-	-	-	-		
Brunei Darussalam	DLS	20	20	19	19	1	5%	0	0%	0	-	100.0	0	-	0	-	1	19	0	0%	0	0	0%		
Cambodia	NIPH	351	351	351	351	5	1%	0	0%	0	-	95.7	0	-	0	-	5	351	10	3%	0	0	0%		
China	CCDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
China, Hong Kong SAR	PHLC	335	335	271	262	3	1%	2	1%	0	-	96.8	0	-	64	0	3	152	2	1%	2	2	1%		
China, Macao SAR	PHL	69	69	64	64	0	0%	1	2%	0	-	98.4	1	0	5	0	0	64	3	5%	1	1	2%		
Japan	NIID	227	199	134	25	4	16%	16	64%	0	-	-	8	8	55	1	12	32	11	34%	15	47%	47%		
Lao People's Democratic Republic	NCLE	32	32	32	32	2	6%	2	6%	0	-	75.0	0	-	0	-	2	32	3	9%	0	0	0%		
Malaysia	NPHL	4 450	4 450	2 990	2 730	172	6%	63	2%	0	-	91.9	1 187	0	0	-	172	2 644	247	9%	39	39	1%		
Mongolia	NCCD	0	-	-	0	-	-	-	-	0	-	-	0	-	0	-	0	0	0	-	-	-	-		
New Zealand	CHL	69	69	56	14	1	7%	1	7%	0	-	78.6	0	-	54	0	1	12	0	0%	1	1	8%		
Papua New Guinea	CPHL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Philippines	RITM	788	675	665	674	12	2%	2	0%	1	0	98.9	0	-	107	1	13	663	27	4%	12	12	2%		
Republic of Korea	KCDC	567	567	359	176	11	6%	3	2%	0	-	88.0	0	-	183	13	22	166	89	54%	17	17	10%		
Singapore	NPHL	228	228	227	8	0	0%	0	0%	0	-	88.9	11	0	218	5	5	8	0	0%	2	2	25%		
Viet Nam national lab (Northern)	NIHE	56	56	56	56	22	39%	2	4%	0	-	-	0	-	0	-	22	34	4	12%	0	0	0%		
Viet Nam national lab (Southern)	PI	118	118	118	118	4	3%	2	2%	0	-	-	0	-	0	-	4	118	6	5%	5	5	4%		
Viet Nam subnational lab (Central)	PI	9	9	9	9	4	44%	0	0%	0	-	-	0	-	0	-	4	6	0	0%	0	0	0%		
Viet Nam subnational lab (Highland)	IHE	0	-	-	0	-	-	-	-	0	-	-	0	-	0	-	0	0	0	-	-	-	-		
Fiji	FCCDC	97	91	91	91	3	3%	3	3%	0	-	-	0	-	3	0	3	90	5	6%	2	2	2%		
Total		7 417	7 270	5 443	4 629	244	5%	97	2%	1	0	93.4	1 207	8	690	21	270	4 391	407	9%	96	96	2%		

“-” No data

Source: Measles and rubella monthly laboratory reports to the Western Pacific Regional Office by 20 December 2022

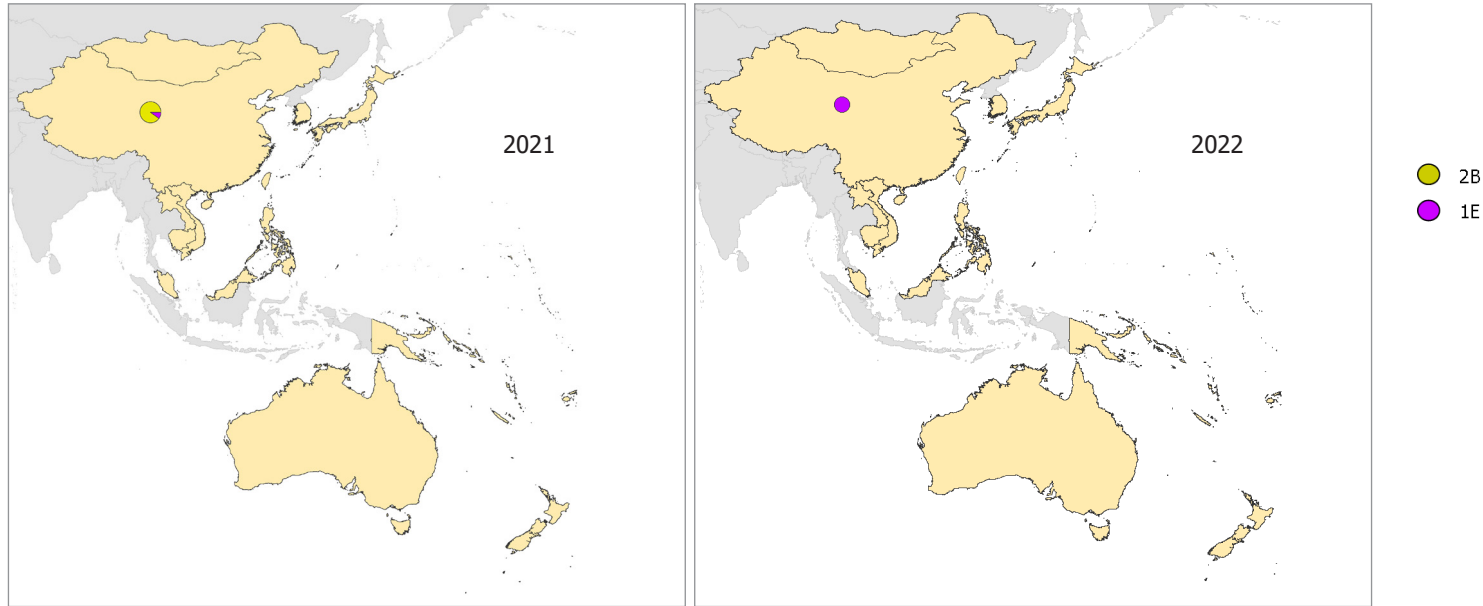
Table 6B. Measles and rubella laboratory testing, WHO Western Pacific Region, 2022 as of 20 December 2022

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.	%				
Australia	VIDRL	4	4	4	0	-	-	-	-	0	-	-	0	-	4	3	3	0	-	-	-	-	-
Brunei Darussalam	DLS	23	23	19	15	0	0%	0	0%	0	-	100.0	0	-	0	-	0	19	4	21%	0	0%	
Cambodia	NIPH	828	828	828	828	9	1%	0	0%	0	-	91.0	0	-	0	-	7	827	18	2%	0	0%	
China	CCDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
China, Hong Kong SAR	PHLC	273	273	224	217	5	2%	0	0%	0	-	96.2	0	-	50	1	6	97	0	0%	1	1%	
China, Macao SAR	PHL	49	49	46	46	3	7%	0	0%	0	-	97.8	0	-	6	0	3	46	1	2%	0	0%	
Japan	NIID	156	141	102	20	5	25%	6	30%	0	-	-	5	5	47	1	9	24	13	54%	8	33%	
Lao People's Democratic Republic	NCLE	1	1	1	0	-	-	-	-	0	-	-	0	-	0	-	-	1	0	-	0	-	
Malaysia	NPHL	6 809	6 809	4 223	4 061	376	9%	115	3%	0	-	99.0	726	0	1 702	0	376	3 938	294	7%	38	1%	
Mongolia	NCCD	0	-	-	0	-	-	-	-	0	-	-	0	-	0	-	0	0	-	-	-	-	
New Zealand	CHL	72	72	64	10	0	0%	0	0%	0	-	80.0	1	0	61	0	0	10	0	0%	0	0%	
Papua New Guinea	CPHL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Philippines	RITM	2 179	2 162	1 734	1 668	43	3%	20	1%	3	0	98.8	341	1	387	0	44	1 628	56	3%	18	1%	
Republic of Korea	KCDC	380	380	234	93	9	10%	0	0%	0	-	91.8	0	-	106	3	9	159	122	77%	8	5%	
Singapore	NPHL	159	159	159	3	1	-	0	-	0	-	100.0	2	1	159	2	2	3	1	-	0	-	
Viet Nam national lab (Northern)	NIHE	178	178	178	178	4	-	6	-	0	-	99.1	0	-	0	-	4	176	14	-	10	-	
Viet Nam national lab (Southern)	PI	10	10	10	10	2	20%	1	10%	0	-	100.0	0	-	0	-	0	10	2	20%	1	10%	
Viet Nam subnational lab (Central)	PI	0	-	-	0	-	-	-	-	0	-	-	0	-	0	-	0	0	-	-	-	-	
Viet Nam subnational lab (Highland)	IHE	0	-	-	0	-	-	-	-	0	-	-	0	-	0	-	0	0	-	-	-	-	
Fiji	FCCDC	549	536	536	536	33	6%	19	4%	0	-	-	0	-	19	0	33	535	38	7%	11	2%	
Total		11 670	11 625	8 362	7 685	490	6%	167	2%	3	0	97.6	1 075	7	2 541	10	496	7 473	563	8%	95	1%	

“-” No data

Source: Measles and rubella monthly laboratory reports to the Western Pacific Regional Office by 20 December 2022

Figure 4. Rubella genotype distribution of cases with rash onset in 2021 and 2022, 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 8. Rubella genotype distribution of cases with rash onset in December 2021 to November 2022, WHO Western Pacific Region

Country/area	2021			2022																																
	Dec			Jan			Feb			Mar			Apr			May			Jun			Jul			Aug			Sep			Oct			Nov		
	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	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																																				

Source: Measles and rubella monthly country reports to the Western Pacific Regional Office by 20 December 2022

Table 9A. Completeness and timeliness of epidemiologic reporting, WHO Western Pacific Region, 2021–2022

Country	2021		2022 ¹												Completeness ²	Timeliness ³
	Completeness ²	Timeliness ³	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			
Australia	100%	100%	11 Feb	07 Mar	04 Apr	09 May	08 Jun	06 Jul	04 Aug	06 Sep	10 Oct	10 Nov	09 Dec	100%	91%	
Brunei Darussalam	100%	92%	07 Feb	08 Mar	09 Apr	05 May	04 Jun	04 Jul	06 Aug	06 Sep	04 Oct	-	06 Dec	91%	91%	
Cambodia	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
China	100%	50%	18 Feb	15 Mar	15 Apr	17 May	16 Jun	04 Jul	15 Aug	02 Sep	12 Oct	03 Nov	02 Dec	100%	73%	
China, Hong Kong SAR	100%	100%	08 Feb	02 Mar	04 Apr	09 May	06 Jun	05 Jul	03 Aug	08 Sep	07 Oct	08 Nov	09 Dec	100%	100%	
China, Macao SAR	100%	100%	10 Feb	07 Mar	07 Apr	03 May	08 Jun	07 Jul	04 Aug	07 Sep	06 Oct	07 Nov	09 Dec	100%	100%	
Japan	100%	100%	03 Feb	02 Mar	03 Apr	02 May	02 Jun	02 Jul	01 Aug	01 Sep	05 Oct	01 Nov	06 Dec	100%	100%	
Lao People's Democratic Republic	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
Malaysia	100%	100%	10 Feb	10 Mar	08 Apr	10 May	10 Jun	02 Jul	08 Aug	08 Sep	05 Oct	08 Nov	09 Dec	100%	100%	
Mongolia	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
New Zealand	100%	100%	09 Feb	09 Mar	10 Apr	09 May	09 Jun	06 Jul	09 Aug	06 Sep	10 Oct	10 Nov	07 Dec	100%	100%	
Papua New Guinea	83%	83%	11 Feb	10 Mar	09 Apr	09 May	10 Jun	10 Jul	14 Aug	10 Sep	-	-	13 Dec	82%	64%	
Philippines	100%	100%	10 Feb	04 Mar	08 Apr	10 May	08 Jun	10 Jul	10 Aug	08 Sep	06 Oct	10 Nov	02 Dec	100%	100%	
Republic of Korea	100%	100%	10 Feb	10 Mar	08 Apr	10 May	10 Jun	07 Jul	10 Aug	08 Sep	06 Oct	08 Nov	09 Dec	100%	100%	
Singapore	100%	100%	07 Feb	02 Mar	04 Apr	06 May	03 Jun	07 Jul	03 Aug	07 Sep	06 Oct	07 Nov	07 Dec	100%	100%	
Viet Nam	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
Pacific island countries and areas	92%	92%	15 Feb	15 Mar	15 Apr	-	15 Jun	15 Jul	15 Aug	16 Sep	10 Oct	15 Nov	15 Dec	91%	82%	
Completeness	99%		100%	100%	100%	94%	100%	100%	100%	100%	94%	88%	100%	98%		
Timeliness		95%	82%	100%	100%	88%	94%	100%	100%	94%	94%	88%	94%		94%	

¹ National measles surveillance monthly reports from December 2022.

Legend: black = timely report; red = untimely report

² Completeness is defined as the number of reports received by the end of the reporting

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, 2021–2022

Country/area	2021		2022 ¹												Completeness ²	Timeliness ³
	Completeness ²	Timeliness ³	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			
Australia	100%	100%	02 Feb	04 Mar	06 Apr	05 May	07 Jun	07 Jul	02 Aug	01 Sep	04 Oct	08 Nov	02 Dec	100%	100%	
Brunei Darussalam	100%	100%	06 Feb	08 Mar	07 Apr	05 May	02 Feb	04 Jul	09 Aug	05 Sep	03 Oct	02 Nov	06 Dec	100%	100%	
Cambodia	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
China	100%	100%	10 Feb	04 Mar	15 Apr	17 May	01 Jun	05 Jul	10 Aug	05 Sep	11 Oct	05 Nov	09 Dec	100%	100%	
China, Hong Kong SAR	100%	100%	09 Feb	07 Mar	04 Apr	04 May	07 Jun	06 Jul	05 Aug	09 Sep	07 Oct	07 Nov	07 Dec	100%	100%	
China, Macao SAR	100%	100%	10 Feb	07 Mar	10 Apr	06 May	10 Jun	10 Jul	-	08 Sep	09 Oct	09 Nov	10 Dec	91%	91%	
Japan	100%	100%	07 Feb	02 Mar	03 Apr	02 May	02 Jun	02 Jul	01 Aug	01 Sep	05 Oct	01 Nov	06 Dec	100%	100%	
Lao People's Democratic Republic	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
Malaysia	100%	100%	07 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	09 Aug	09 Sep	10 Oct	09 Nov	10 Dec	100%	100%	
Mongolia	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
New Zealand	100%	100%	09 Feb	09 Mar	10 Apr	10 May	09 Jun	06 Jul	09 Aug	06 Sep	10 Oct	04 Nov	07 Dec	100%	100%	
Papua New Guinea	0%	0%	-	-	-	-	-	-	-	-	-	-	-	0%	0%	
Philippines	100%	100%	08 Feb	10 Mar	10 Apr	10 May	10 Jun	09 Jul	10 Aug	09 Sep	26 Oct	10 Nov	06 Dec	100%	91%	
Republic of Korea	100%	92%	10 Feb	10 Mar	08 Apr	10 May	10 Jun	08 Jul	09 Aug	14 Sep	11 Oct	10 Nov	06 Dec	100%	82%	
Singapore	100%	100%	07 Feb	07 Mar	04 Apr	06 May	03 Jun	07 Jul	03 Aug	07 Sep	06 Oct	07 Nov	07 Dec	100%	100%	
Viet Nam national lab (Northern)	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
Viet Nam national lab (Southern)	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
Viet Nam subnational lab (Central)	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
Viet Nam subnational lab (Highland)	100%	100%	10 Feb	10 Mar	10 Apr	10 May	10 Jun	10 Jul	10 Aug	10 Sep	10 Oct	10 Nov	10 Dec	100%	100%	
Fiji	92%	92%	15 Feb	15 Mar	15 Apr	-	15 Jun	15 Jul	15 Jul	16 Sep	10 Oct	15 Nov	15 Dec	91%	82%	
Completeness	95%		95%	95%	95%	90%	95%	95%	90%	95%	95%	95%	95%	94%		
Timeliness		94%	95%	95%	95%	85%	95%	100%	90%	85%	80%	95%	95%		92%	

¹ National measles laboratory monthly reports from December 2022.

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: WPROEPIdata@who.int
More detailed information available in the
Regional and country profile of measles elimination