



Meetings/ Important events:

- 10th Meeting of South-East Asia Regional Immunization Technical Advisory Group (SEAR-ITAG), New Delhi, India, 08-12 July 2019

Table 1: Measles & Rubella Laboratory Supported Case-based Surveillance Performance Indicators by Country, 2019* (data as of 29 April 2019)

Countries	Number of suspected measles cases	% suspected cases with adequate investigation initiated w/in 48 hours of notification	% suspected cases with serum specimens collected	Number of serum specimens received in laboratory	% serum specimens received at laboratory w/in 5 days of collection	% specimens tested for serology of specimens received in the laboratory	% serology results reported w/in 4 days of specimen received at laboratory	Case classification (number)							Reporting rate of discarded non-measles non-rubella cases at the national level per 100,000 pop ⁿ	% districts reporting at least 2 discarded non-measles non-rubella cases per 100,000 pop ⁿ	Measles incidence ¹ per million pop ⁿ	Rubella incidence ² per million pop ⁿ
								Measles			Rubella		Discarded non-measles non-rubella cases	Pending classification				
								Laboratory-confirmed	Epidemiologically-confirmed	Clinically-compatible	Laboratory-confirmed	Epidemiologically-confirmed						
Bangladesh	2,495	94	83	2,059	99	99	96	623	129	19	39	0	1,671	14	3.05	64	14.05	0.71
Bhutan	66	95	95	56	68	100	66	0	0	0	0	0	66	0	27.00	75	0.00	0.00
DPR Korea	158	100	100	160	100	0	0	0	0	0	0	0	158	0	1.99	ND	0.00	0.00
India ³	10,731	0	48	3,989	96	92	54	1,393	6	0	476	0	1,868	5,833	0.41	5	3.10	1.06
Indonesia ⁴	1,497	0	98	1,459	100	99	93	179	0	0	207	0	1,081	30	1.25	12	2.07	2.39
Maldives	40	0	93	37	81	97	49	0	0	0	0	0	35	5	29.40	0	0.00	0.00
Myanmar	3,786	80	74	2,802	96	63	57	1,445	458	96	2	0	358	1,427	2.09	22	116.80	0.12
Nepal	680	97	94	546	77	99	38	148	32	2	9	0	393	96	4.09	53	18.93	0.94
Sri Lanka	70	100	96	62	76	100	82	12	0	0	0	0	53	5	0.76	12	1.71	0.00
Thailand	3,430	39	84	2,577	58	97	53	1,343	495	478	46	0	1,063	5	5.02	ND	109.30	2.17
Timor-Leste	20	95	100	20	100	95	10	1	0	0	0	0	18	1	4.36	15	2.42	0.00
SEAR	22,973	34	67	13,767	89	88	64	5,144	1,120	595	779	0	6,764	7,416	0.34		10.46	1.19

¹ Includes laboratory-confirmed, epidemiologically-linked and clinically-compatible measles cases

² Also includes the cases from enhanced measles case-based surveillance.

ND=No data

³ Includes laboratory-confirmed and epidemiologically-linked rubella cases

⁴ Case based surveillance is in the process of expansion to all over the country and thus may not reflect a complete picture of the country. The number of suspected measles cases mentioned are from the aggregate data-base compiled every month.

* Figures in the table 1 are restricted to availability of various dates required for calculation. Thus they may not adequately reflect cases with missing dates for various timelines.

Table 2: Measles & Rubella Laboratory Supported Case-based Surveillance Performance Indicators by Country, 2018* (data as of 29 April 2019)

S	Number of suspected measles cases	% suspected cases with adequate investigation initiated w/in 48 hours of notification	% suspected cases with serum specimens collected	Number of serum specimens received in laboratory	% serum specimens received at laboratory w/in 5 days of collection	% specimens tested for serology of specimens received in the laboratory	% serology results reported w/in 4 days of specimen received at laboratory	Case classification (number)						Reporting rate of discarded non-measles non-rubella cases at the national level per 100,000 pop ⁿ	% districts reporting at least 2 discarded non-measles non-rubella cases per 100,000 pop ⁿ	Measles incidence ¹ per million pop ⁿ	Rubella incidence ² per million pop ⁿ	
								Measles			Rubella		Discarded non-measles non-rubella cases					Pending classification
								Laboratory-confirmed	Epidemiologically-confirmed	Clinically-compatible	Laboratory-confirmed	Epidemiologically-confirmed						
Bangladesh	6,661	92	85	5,667	100	100	82	1,688	448	127	286	22	4,090	0	2.47	70	13.68	1.86
Bhutan	319	97	99	295	71	100	76	10*	0	0	1	0	308	0	38.98	90	12.65	1.27
DPR Korea	530	100	100	530	100	98	96	0	0	0	0	0	530	0	2.18	ND	0.00	0.00
India ³	52,308	0	36	10,392	97	100	23	5,095	11,398	642	957	1,285	6,763	4,875	0.50	4	12.61	1.65
Indonesia ⁴	5,504	0	99	5,473	98	99	76	849	0	20	1,621	0	2,965	49	1.12	11	3.28	6.12
Maldives	35	17	89	31	77	100	29		0	1	0	0	34	0	9.34	0	2.75	0.00
Myanmar	1,988	76	81	1,617	94	99	97	976	367	48	14	0	583	0	1.11	19	26.57	0.27
Nepal	1,475	97	93	1,366	71	100	12	179	54	27	34	0	1,181	0	4.07	75	8.96	1.17
Sri Lanka	166	98	85	139	88	100	73	1	0	0	0	0	165	0	0.77	12	0.05	0.00
Thailand	7,404	33	86	6,048	54	99	61	3,539	925	494	54	0	2,190	202	3.37	ND	76.26	0.83
Timor-Leste	151	99	97	147	100	100	39	0	0	0	6	0	143	2	11.34	38	0.00	4.76
SEAR	76,541	17	53	31,705	88	100	55	12,337	13,192	1,359	2,973	1,307	18,952	5,128	0.96		13.55	2.16

¹ Includes laboratory-confirmed, epidemiologically-linked and clinically-compatible measles cases

² Also includes the cases from enhanced measles case-based surveillance.

ND=No data

³ Includes laboratory-confirmed and epidemiologically-linked rubella cases

* Imported/ Import related

⁴ Case based surveillance is in the process of expansion to all over the country and thus may not reflect a complete picture of the country. The number of suspected measles cases mentioned are from the aggregate data-base compiled every month.

* Figures in the table 2 are restricted to availability of various dates required for calculation. Thus they may not adequately reflect cases with missing dates for various timelines.

Data Sources: Ministries of Health in SEAR Countries.

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Tel: 91-11-2337-0804 / 91-11-4304-0000 Fax: 91-11-2337-0251 / 0106 E-mail: SearEpidata@who.int, URL: <http://www.searo.who.int/topics/immunization>

Table 3: Classification of AFP Cases and Key Surveillance Indicators, 2018-2019 (data as of 29 April 2019)

Country	2018 (Onset)											2019 (Onset)										
	AFP							Surveillance Indicators				AFP							Surveillance Indicators			
	Case Classification ¹							AFP Rates ²		Specimen		Case Classification ¹							Annualized AFP Rates ²		Specimen	
	AFP Cases	Wild Poliovirus Cases	Vaccine Derived Poliovirus Cases ⁴	Compatible	Discarded (Non-polio AFP)	Pending		AFP Rate	Non-Polio AFP Rate	% with 2 spec., at least 24 hrs apart, w/in 14 days	% with any specimen	AFP Cases	Wild Poliovirus Cases	Vaccine Derived Poliovirus Cases	Compatible	Discarded (Non-polio AFP)	Pending		AFP Rate	Non-Polio AFP Rate	% with 2 spec., at least 24 hrs apart, w/in 14 days	% with any specimen
						Total	>90 Days ³										Total	>90 Days ³				
Bangladesh	1,404	0	0	0	1,404	0	0	2.84	2.84	99	100	498	0	0	0	278	220	1	3.11	1.74	99	100
Bhutan	8	0	0	0	8	0	0	3.24	3.24	88	100	3	0	0	0	2	1	0	4.48	2.99	67	100
DPR Korea	130	0	0	0	109	21	21	2.21	1.85	100	100	40	0	0	0	9	31	0	2.08	0.47	98	98
India	36,446	0	0	12	35,907	527	527	8.22	8.10	85	97	9,598	0	0	0	7,740	1,858	180	6.64	5.36	87	98
Indonesia	1,681	0	1	0	1,501	179	179	2.38	2.13	82	97	209	0	0	0	153	56	20	0.91	0.66	81	98
Maldives	7	0	0	0	6	1	1	7.40	6.34	43	71	4	0	0	0	0	4	2	12.94	0.00	50	75
Myanmar	335	0	0	0	332	3	3	2.50	2.47	94	100	52	0	0	0	0	52	10	1.18	0.00	94	100
Nepal	334	0	0	0	331	3	3	3.85	3.82	97	100	106	0	0	0	88	18	0	3.74	3.11	98	99
Sri Lanka	62	0	0	0	62	0	0	1.15	1.15	84	100	25	0	0	0	18	7	1	1.42	1.02	80	100
Thailand	240	0	0	0	203	37	37	2.07	1.75	68	99	100	0	0	0	70	30	7	2.64	1.85	74	92
Timor-Leste	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0
SEAR	40,647	0	1	12	39,863	771	771	6.67	6.54	85	98	10,635	0	0	0	8,358	2,277	221	5.36	4.21	87	98

¹ All countries are using the virologic classification scheme.² AFP rates per 100,000 children aged <15 years using population figures provided by member countries (AFP cases > 15 years of age or missing age information are excluded).³ 90 days calculation based on date of paralysis onset subtracted from date of last report received from member countries by SEARO.⁴ Indonesia: A second genetically-linked VDPV type 1 isolate detected from stool specimen of a healthy community contact of an AFP case from whose stool specimen VDPV type 1 had been isolated in 2018. The VDPV event in Indonesia has been confirmed as circulating VDPV type 1.

Table 4: Intratypic Differentiation (ITD) of Isolates from AFP Cases, 2018-2019 (data as of 29 April 2019)

Country of Case	ITD Labs	2018														2019																
		Intratypic Differentiation results													Results pending		Intratypic Differentiation results													Results pending		
		AFP cases referred for ITD	Wild	Vaccine	VDPV	Wild	Vaccine	VDPV	Wild	Vaccine	Vaccine mixture NPEV by PCR	NEV	Negative	≤7 Days	>7 days	AFP cases referred for ITD	Wild	Vaccine	VDPV	Wild	Vaccine	VDPV	Wild	Vaccine	Vaccine mixture NPEV by PCR	NEV	Negative	≤7 Days	>7 days			
Bangladesh	IPH, Dhaka	11	0	1	0	0	0	0	0	8	1	0	0	1	0	0	4	0	0	0	0	0	0	2	1	0	0	1	0	0		
Bhutan	NIH, Bangkok	0															0															
DPR Korea	NPL, Pyongyang	0															0															
India	BJMC, Ahmedabad	219	0	50	0	0	0	0	0	70	93	6	0	0	0	0	48	0	9	0	0	0	0	0	10	19	2	0	0	8	0	
	NIV, Bengaluru	117	0	29	0	0	0	0	0	42	40	6	0	0	0	0	19	0	6	0	0	0	0	0	9	1	0	0	0	3	0	
	ERC, Mumbai	124	0	30	0	0	0	0	0	41	34	19	0	0	0	0	29	0	12	0	0	0	0	0	4	4	1	0	0	8	0	
	SGPGI, Lucknow	153	0	45	0	0	1	0	0	56	49	1	0	1	0	0	125	0	30	0	0	0	0	0	31	50	1	1	0	12	0	
	KIPM, Chennai	85	0	23	0	0	0	0	0	31	31	0	0	0	0	0	17	0	6	0	0	0	0	0	5	6	0	0	0	0	0	
	NCDC, Delhi	157	0	41	0	0	0	0	0	71	43	2	0	0	0	0	98	0	17	0	0	0	0	0	34	39	2	0	0	6	0	
	IoS, Kolkata	167	0	48	0	0	0	0	0	48	60	10	1	0	0	0	51	0	20	0	0	0	0	0	10	17	0	0	0	4	0	
	CRI, Kasauli	20	0	5	0	0	0	0	0	6	9	0	0	0	0	0	6	0	1	0	0	0	0	0	3	2	0	0	0	0	0	
India Total		1,042	0	271	0	0	1	0	0	365	359	44	1	1	0	0	393	0	101	0	0	0	0	0	106	138	6	1	0	41	0	
Indonesia	Bio Farma, Bandung	3	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0															
	NIHRD, Jakarta	4	0	1	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	PHL, Surabaya	5	0	1	1	0	0	0	0	0	3	0	0	0	0	0	0															
Indonesia Total		12	0	4	1	0	0	0	0	4	3	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Myanmar	NHL, Yangon	5	0	1	0	0	0	0	0	1	3	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Nepal	NIH, Bangkok	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0															
Sri Lanka	MRI, Colombo	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Thailand	NIH, Bangkok	5	0	1	0	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
TOTAL		1,079	0	279	1	0	1	0	0	382	369	44	1	2	0	0	401	0	102	0	0	0	0	0	109	141	6	1	1	41	0	0