

# Vaccine Preventable Disease Surveillance Bulletin



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<ul style="list-style-type: none"> <li><b>Polio Update - 2012:</b> INDIA – No wild polio case reported this week. The last case reported was on 13 January 2011 (WPV type 1 from West Bengal).</li> <li><b>Meetings/ Important dates:</b> ▶ VDPVs and their Implications: State of the Art, Geneva, Switzerland, 30 May-1 Jun 2012. ▶ AFP surveillance review – Madhya Pradesh, India, 28 May – 01 Jun 2012 ▶ The Sixth Meeting of National Influenza Centres and Influenza surveillance in the Western Pacific and South-East Asia Regions, Hanoi, Viet Nam, 29-31 May 2012. ▶ Acute Flaccid Paralysis Surveillance Review in China, 4-12 June 2012</li> </ul>	<b>Weekly India wild polio case count comparison</b> 2009 = 43 2010 = 20 2011 = 1 2012 = 0 (Data as of week # 20)	<b>Global wild polio case count</b> 2009= 1604 (23) 2010= 1352 (20) 2011= 650 (16) 2012*= 55 (4) *Data as of 15-May-2012 ( ) = # of infected countries
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Table 1: Classification of AFP cases and key surveillance indicators, 2011-2012

Country	2011 (Onset)										2012 (Onset)											
	AFP					Surveillance Indicators					AFP					Surveillance Indicators						
	Case Classification <sup>1</sup>					AFP Rates <sup>2</sup>					Case Classification <sup>1</sup>					Annualized AFP Rates <sup>2</sup>						
	AFP Cases	Wild Poliovirus Cases	Vaccine Derived Polio Virus cases <sup>4</sup>	Compatible	Discarded (Non-polio AFP)	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 Polio Virus cases <sup>4</sup>	Compatible	Discarded (Non-polio AFP)	AFP Rate	Non-Polio AFP Rate	% with 2 spec., at least 24 hrs apart, w/in 14 days	% with any specimen				
Bangladesh	1610	0	0	0	1610	0	0	2.72	2.72	95	99	573	0	0	0	436	137	8	2.48	1.89	95	99
Bhutan	6	0	0	0	6	0	0	2.74	2.74	83	100	5	0	0	0	0	5	2	6.69	0.00	40	100
DPR Korea	129	0	0	0	129	0	0	2.25	2.25	100	100	34	0	0	0	8	26	0	1.54	0.36	100	100
India	60753	1	7	52	59859	834	834	13.55	13.36	84	97	18324	0	1	0	14962	3361	694	10.91	8.91	87	98
Indonesia	1720	0	0	0	1720	0	0	2.75	2.75	91	98	616	0	0	0	517	99	16	2.27	1.90	92	99
Maldives	3	0	0	0	3	0	0	3.40	3.40	33	67	1	0	0	0	0	1	1	2.96	0.00	100	100
Myanmar	418	0	0	0	418	0	0	2.02	2.02	94	100	64	0	0	0	15	49	9	0.81	0.19	94	100
Nepal	567	0	0	0	566	1	1	5.10	5.09	89	98	207	0	0	0	158	49	2	5.15	3.93	95	100
Sri Lanka	88	0	0	0	88	0	0	1.42	1.42	72	100	33	0	0	0	25	8	1	1.38	1.05	70	85
Thailand	249	0	0	0	249	0	0	1.90	1.90	67	99	80	0	0	0	52	28	7	1.59	1.03	68	95
Timor-Leste	0	0	0	0	0	0	0	0.00	0.00	0	0	3	0	0	0	0	3	1	1.56	0.00	33	100
SEAR	65543	1	7	52	64648	835	835	10.44	10.30	85	97	19940	0	1	0	16173	3766	741	8.30	6.73	87	98

<sup>1</sup> All countries are using the virologic classification scheme.

<sup>2</sup> 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).

<sup>3</sup> 90 days calculation based on date of paralysis onset subtracted from date of last report received from member countries by SEARO as shown in Table 1.

<sup>4</sup> India - 2011: 6 VDPV type 2 (aVDPV=5, iVDPV=1) & one VDPV type 3 (aVDPV=1) - 2012: One type 2 VDPV (aVDPV=1)

a = ambiguous c = circulating i = immunodeficiency

Figure 1: Distribution of Wild Polio Cases by Type (P1, P3) and Month of Onset India, 2007-2012

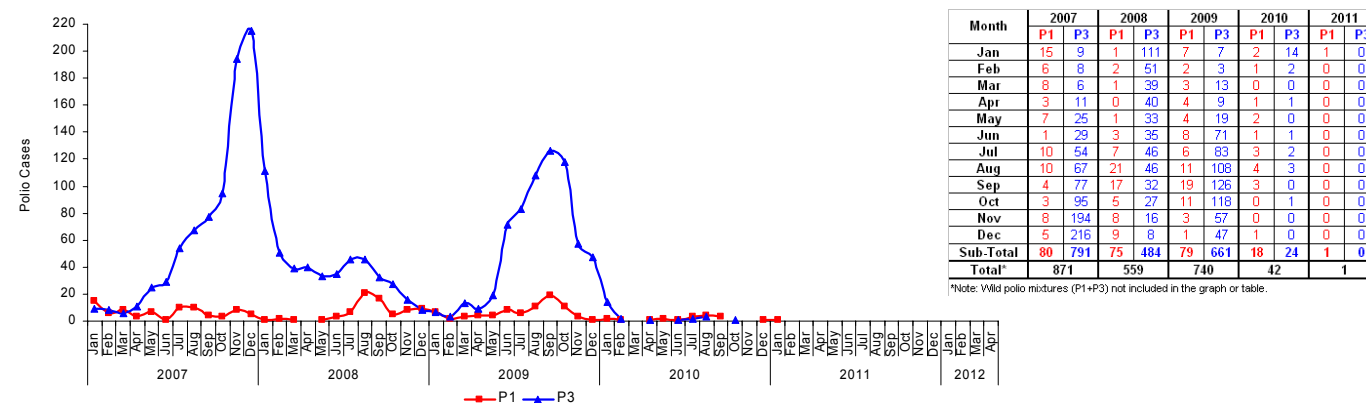
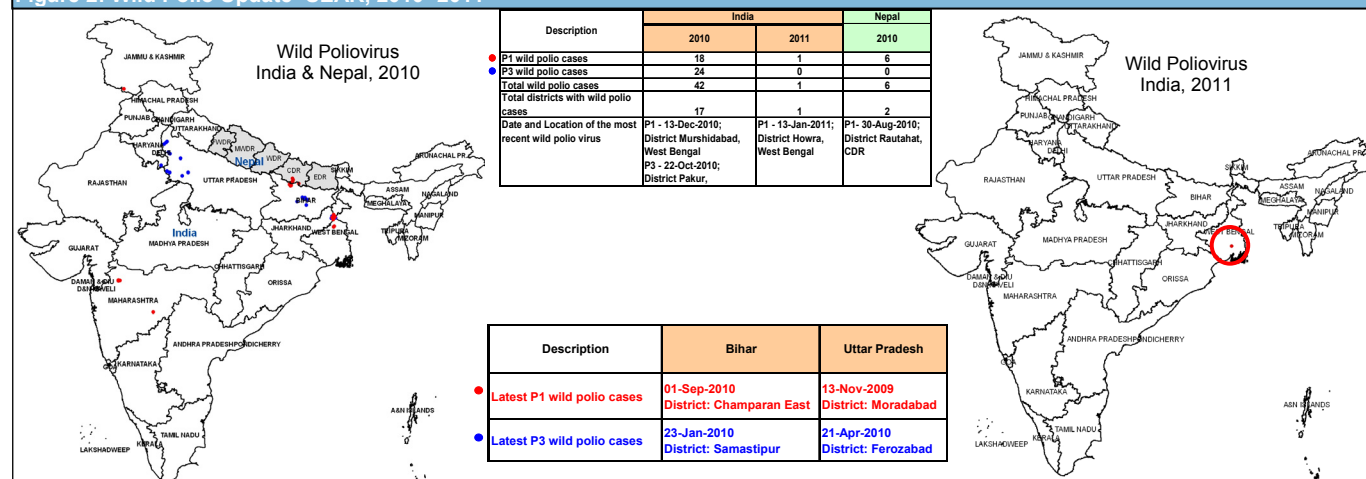


Figure 2: Wild Polio Update- SEAR, 2010- 2011



Data Sources: Ministries of Health in SEAR member countries.

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Table 2: Primary culture results from AFP cases 2012

Country	Polio Laboratories	Number of AFP cases with specimens received in Lab	AFP cases						AFP specimens		% NPEV	Specimens from other sources <sup>2</sup>		
			Positive Culture	Positive Culture + NPEV	NPEV Only	Negative	Pending <sup>1</sup>		Received by lab	% Primary Culture Reports Within 14 days		Number received by lab	Results	
							<=7 days	>7 days					Vaccine	Wild
Bangladesh	IPH, Dhaka	566	31	1	63	349	51	71	1129	99.0	11.6	130	7	0
Bhutan	NIH, Bangkok	2	0	0	0	2	0	0	3	100	0	0	0	0
DPRK	NPL, Pyongyang	34	0	0	4	25	4	1	67	86	13.8	0	0	0
India	BJMC, Ahmedabad	2095	195	8	188	1562	142	0	4184	99.9	7.4	65	10	0
	NIV, Bangalore	1704	131	30	339	1060	138	6	3407	99.1	19.7	0	0	0
	IoS, Kolkata	2254	134	5	173	1838	104	0	4486	98.5	5.8	16	0	0
	KIPM, Chennai	2449	154	24	366	1836	69	0	4861	97.8	12.4	15	1	0
	NCDC, Delhi	3163	260	6	192	2542	161	2	6255	99.5	5.0	0	0	0
	CRI, Kasauli	672	45	2	61	535	29	0	1345	99.8	7.8	11	1	0
	SGPGI, Lucknow	4521	217	65	1144	2761	334	0	8952	99.5	18.8	5	1	0
	ERC, Mumbai	484	35	2	47	344	56	0	969	97.8	10.1	15	1	0
<b>India Sub Total</b>		<b>17342</b>	<b>1171</b>	<b>142</b>	<b>2510</b>	<b>12478</b>	<b>1033</b>	<b>8</b>	<b>34459</b>	<b>99.1</b>	<b>11.7</b>	<b>127</b>	<b>14</b>	<b>0</b>
Indonesia	Biofarma, Bandung	186	2	0	19	151	6	8	369	100	10.7	0	0	0
	NIHRD, Jakarta	240	0	0	20	196	16	8	479	100	7.9	5	0	0
	PHL, Surabaya	175	1	0	17	137	11	9	347	100	8.8	0	0	0
<b>Indonesia Sub Total</b>		<b>601</b>	<b>3</b>	<b>0</b>	<b>56</b>	<b>484</b>	<b>33</b>	<b>25</b>	<b>1195</b>	<b>100.0</b>	<b>9.0</b>	<b>5</b>	<b>0</b>	<b>0</b>
Maldives	MRI, Colombo	0												
Myanmar	NHL, Yangon	60	0	0	7	40	12	1	120	88	12.6	0	0	0
Nepal	NIH, Bangkok	205	4	0	30	126	45	0	408	99	16.4	55	0	0
Sri Lanka	MRI, Colombo	25	0	0	0	22	3	0	54	100	0.0	123	5	0
Thailand	NIH, Bangkok	74	4	0	5	63	1	1	149	100.0	5	0	0	0
Timor-Leste	PHL, Surabaya	0												
<b>SEAR</b>		<b>18909</b>	<b>1213</b>	<b>143</b>	<b>2675</b>	<b>13589</b>	<b>1182</b>	<b>107</b>	<b>37584</b>	<b>99.1</b>	<b>11.6</b>	<b>440</b>	<b>26</b>	<b>0</b>

<sup>1</sup> Calculation based on date specimen received in laboratory subtracted from date data received in SEARO as shown in Table 1.

<sup>2</sup> Stool samples collected from contact and healthy children survey.

Table 3: Intratypic differentiation (ITD) of isolates from AFP cases

Country of Case	ITD Labs	2011													2012																
		AFP cases referred for ITD	Intratypic differentiation results												Results pending	AFP cases referred for ITD	Intratypic differentiation results												Results pending		
			Polio 1	Polio 2	Polio 3	Vaccine mixture	NPEV by PCR	NEV	Negative	<=7 Days	>7 days	Polio 1	Polio 2	Polio 3			Vaccine mixture	NPEV by PCR	NEV	Negative	<=7 Days	>7 days									
Bangladesh	ERC, Mumbai	32	0	6	0	5	0	0	11	0	9	0	0	1	0	0	32	0	10	0	2	0	0	9	0	11	0	0	0	0	0
DPR Korea	NPL, Pyongyang	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
India	BJMC, Ahmedabad <sup>1</sup>	422	0	122	0	55	1	0	129	0	101	14	0	0	0	0	203	0	63	0	32	0	0	41	0	62	3	0	0	2	0
	NIV, Bangalore <sup>1</sup>	419	0	118	0	36	1	0	133	0	104	27	0	0	0	0	161	0	38	0	48	0	0	34	0	38	2	0	0	1	0
	ERC, Mumbai	642	1	197	0	105	3	0	153	0	124	52	0	7	0	0	84	0	20	0	18	0	0	19	0	26	0	0	0	1	0
	SGPGI, Lucknow <sup>1</sup>	968	0	320	0	166	0	0	296	0	166	11	8	1	0	0	282	0	109	0	63	0	0	62	0	42	0	0	2	2	2
	KIPM, Chennai <sup>1</sup>	404	0	100	0	51	1	0	142	0	110	0	0	0	0	0	179	0	38	0	56	0	0	35	0	49	0	0	0	1	0
	NCDC, Delhi <sup>1</sup>	252	0	69	0	24	0	0	99	0	59	1	0	0	0	0	265	0	61	0	65	0	0	71	0	67	0	0	1	0	0
IoS, Kolkata	205	0	55	0	18	0	0	78	1	49	2	1	1	0	0	139	0	34	0	31	1	0	30	0	43	0	0	0	0	0	
<b>India Sub Total</b>		<b>3312</b>	<b>1</b>	<b>981</b>	<b>0</b>	<b>455</b>	<b>6</b>	<b>0</b>	<b>1030</b>	<b>1</b>	<b>713</b>	<b>107</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>1313</b>	<b>0</b>	<b>363</b>	<b>0</b>	<b>313</b>	<b>1</b>	<b>0</b>	<b>292</b>	<b>0</b>	<b>327</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>7</b>	<b>2</b>
Indonesia	Biofarma, Bandung <sup>1</sup>	31	0	4	0	5	0	0	12	0	10	0	0	0	0	0	3	0	2	0	1	0	0	0	0	0	0	0	0	0	0
Myanmar	ERC, Mumbai	12	0	2	0	3	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepal	NIH, Bangkok	17	0	8	0	1	0	0	6	0	2	0	0	0	0	0	4	0	0	2	0	0	1	0	1	0	0	0	0	0	0
Sri Lanka	MRI, Colombo	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thailand	NIH, Bangkok	8	0	2	0	0	0	0	4	0	2	0	0	0	0	0	4	0	1	0	1	0	0	0	0	2	0	0	0	0	0
<b>TOTAL</b>		<b>3414</b>	<b>1</b>	<b>1003</b>	<b>0</b>	<b>470</b>	<b>6</b>	<b>0</b>	<b>1067</b>	<b>1</b>	<b>740</b>	<b>107</b>	<b>9</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1356</b>	<b>0</b>	<b>376</b>	<b>0</b>	<b>319</b>	<b>1</b>	<b>0</b>	<b>302</b>	<b>0</b>	<b>341</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>7</b>	<b>2</b>

GS: CDC, Atlanta and ERC, Mumbai

RRL: NIH, Bangkok and MRI, Colombo

<sup>1</sup> NPLs doing ITD.

VDPV=Vaccine-derived poliovirus

Table 4: Vaccine Preventable Diseases reported to SEARO for year 2012 (data upto Apr 2012)

Country	Routine Reporting of clinically suspected measles cases					Suspected measles outbreaks				Classification of Outbreaks <sup>1</sup>						Number of Cases					Timeliness and Completeness of reports received in SEARO, 2012 <sup>3</sup>			
	Cases	Deaths	Tested for serology	Serology +ve measles	Serology +ve Rubella	Number of Outbreaks	Number of Outbreaks Investigated <sup>4</sup>	Number of Cases	Deaths	Lab confirmed Measles Outbreaks		Lab confirmed Rubella Outbreaks		Lab confirmed Mixed Outbreaks		Neonatal Tetanus (NNT)	Diphtheria	Pertussis	Encephalitis	Number of Cases of AEFI <sup>2</sup>	Date of last report	Number of reports expected	% Complete	% Timely
										Number of Outbreaks	Number of cases	Number of Outbreaks	Number of cases	Number of Outbreaks	Number of cases									
Bangladesh	583	0	508	305	30	108	22	826	0	10	502	6	160	1	39	6	2	5	0	336	15-May-12	4	100	100
Bhutan	23	0	15	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	09-May-12	4	100	100
DPR Korea	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12-Mar-12	4	50	50
India	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4	0	0
Indonesia	3578	1	559	80	193	36	34	553	0	18	254	11	156	2	30	26	272				18-May-12	4	75	0
Maldives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	06-May-12	4	100	75
Myanmar	865	0	865	257	1	30	30	659	16	9	169	0	0	0	0	2	2	0	0	0	15-May-12	4	100	75
Nepal	148	0	86	27	13	33	33	706	2	7	79	9	210	0	0	2			164	4	14-May-12	4	100	100
Sri Lanka	65	0	32	0	18	1	1	30	0	0	0	1	6	0	0	0	0	32	102	1711	15-May-12	4	100	100
Thailand	2332	0	90	37	5	3	3	17	0							0	5	3	143		21-May-12	4	75	0
Timor-Leste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		4	0	0
<b>Total</b>	<b>7594</b>	<b>1</b>	<b>2168</b>	<b>717</b>	<b>261</b>	<b>211</b>	<b>123</b>	<b>2791</b>	<b>18</b>	<b>44</b>	<b>1004</b>	<b>27</b>	<b>532</b>	<b>3</b>	<b>69</b>	<b>36</b>	<b>281</b>	<b>40</b>	<b>409</b>	<b>2058</b>				

<sup>1</sup> At least 5 blood samples should be collected and tested from each outbreak.

<sup>2</sup> Adverse Events Following Immunization; Sri Lanka AEFI data do not reflect cases but events.

<sup>3</sup> Monthly VPD and AEFI reports due to SEARO/IVD on or before 15th of each month.

NR=No Report

<sup>4</sup> Total suspected outbreaks may not add to total lab confirmed outbreaks because some outbreak samples are in process with results pending and/or outbreak reports are not received from the field (investigation in process).

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