

AFP Surveillance Bulletin - India

Report for week 24, ending 14 June 2014

Table 1: AFP cases by month of paralysis onset, last 13 months

State/UT's	Total AFP cases in 2013	AFP cases as on week 24, 2013	AFP cases as on week 24, 2014	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
A&N ISLANDS	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
ANDHRA PRADESH	1099	426	329	91	116	136	86	108	65	82	66	67	65	76	48	7
ARUNACHAL PR.	27	9	7	5	4	1	3	1	2	2	1	3	0	1	2	0
ASSAM	519	222	128	68	49	51	46	36	36	23	24	27	35	21	19	2
BIHAR	14148	5142	5305	1261	1406	1369	1396	1275	1284	1117	1200	978	926	976	1076	149
CHANDIGARH	61	26	23	3	4	4	3	5	8	7	7	6	3	3	4	0
CHHATTISGARH	564	195	159	48	59	67	54	45	48	34	17	31	40	43	28	0
D&N HAVELI	1	1	2	0	0	0	0	0	0	0	0	0	1	0	1	0
DAMAN & DIU	6	3	2	1	0	0	0	0	1	1	0	0	0	0	1	1
DELHI	871	341	336	73	70	79	82	82	68	70	68	75	81	51	55	6
GOA	25	12	8	3	1	3	1	3	1	1	3	2	2	1	0	0
GUJARAT	946	355	364	69	123	107	79	74	62	77	74	61	81	63	73	12
HARYANA	1252	470	484	96	104	115	136	109	115	113	99	97	119	85	78	6
HIMACHAL PRADESH	159	58	82	17	21	23	15	7	14	6	14	18	19	13	15	3
JAMMU & KASHMIR	184	86	67	9	13	13	15	10	19	13	11	11	17	13	14	1
JHARKHAND	1419	513	488	124	137	151	144	136	133	86	100	99	84	94	106	5
KARNATAKA	944	340	369	91	97	85	96	70	87	83	84	64	61	75	72	13
KERALA	379	160	151	33	38	31	31	34	31	32	39	28	21	28	34	1
LAKSHADWEEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MADHYA PRADESH	2683	911	1023	255	283	280	263	226	248	238	187	185	221	200	215	15
MAHARASHTRA	2868	990	1009	232	348	339	274	273	205	223	210	182	229	199	174	15
MANIPUR	18	4	16	3	0	4	2	2	2	1	3	3	3	4	3	0
MEGHALAYA	56	19	15	7	12	6	4	6	1	2	1	0	4	3	7	0
MIZORAM	12	5	5	1	2	2	1	0	0	1	3	0	0	0	2	0
NAGALAND	10	4	3	2	1	1	0	1	0	1	1	0	1	0	1	0
ODISHA	1970	648	601	137	173	239	254	197	187	138	128	95	124	111	132	11
PONDICHERRY	18	6	10	2	2	3	1	0	0	4	6	0	1	1	2	0
PUNJAB	640	237	235	51	59	60	65	68	59	44	47	60	53	41	29	5
RAJASTHAN	2216	788	772	198	294	269	202	152	173	136	145	151	147	159	160	10
SIKKIM	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
TAMIL NADU	625	229	272	52	46	65	50	43	61	70	59	49	57	56	51	0
TRIPURA	60	20	22	7	11	4	6	3	7	2	2	4	6	6	3	1
UTTAR PRADESH	17779	6588	6011	1397	1635	1795	1998	1698	1550	1363	1260	1144	1201	1097	1150	159
UTTARAKHAND	373	128	127	32	40	23	37	37	46	28	31	24	15	26	31	0
WEST BENGAL	2739	1050	1068	259	243	236	252	194	279	259	262	243	207	172	155	29
TOTAL	54674	19987	19494	4628	5391	5561	5596	4895	4792	4258	4152	3707	3824	3619	3741	451

"0" means that report was received but no cases were identified

Data from weekly case based reports

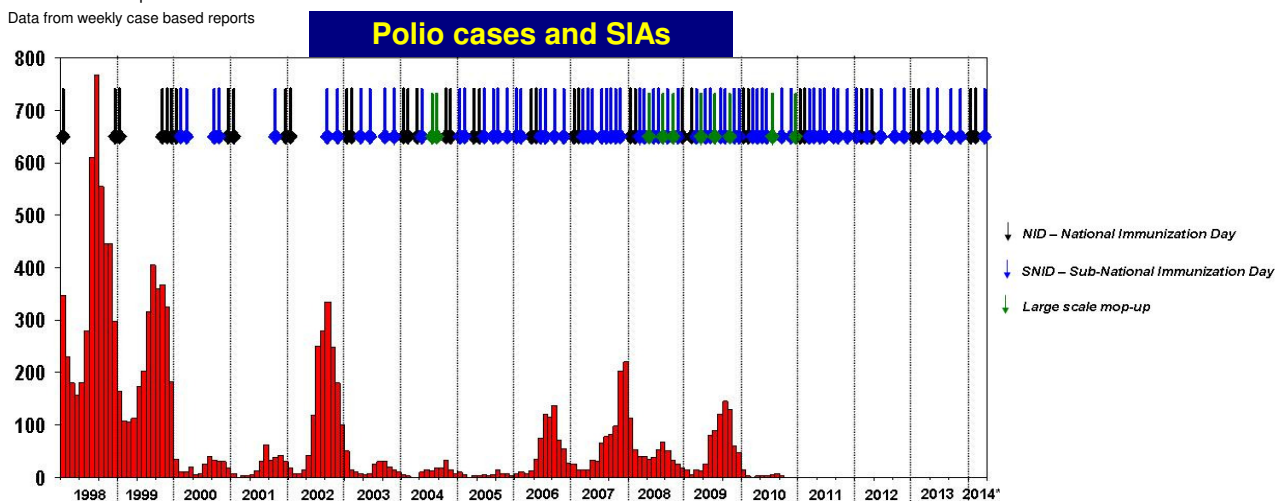


Table 2: Classification of AFP cases and key surveillance indicators, 2013 and 2014

State/UT's	2013										2014											
	AFP					Surveillance Indicators					AFP					Surveillance Indicators						
	AFP Cases	Case Classification				Annualized Rates		Specimen			AFP Cases	Case Classification				Annualized Rates		Specimen				
		Confirmed Polio	VDPV	Compatible	Discarded (non-polio AFP)	Total	> 90 Days	AFP rate	Non-polio AFP rate	% with 2 spec. w/in 14 days		% with any specimen	Confirmed Polio	VDPV	Compatible	Discarded (non-polio AFP)	Total	> 90 Days	AFP rate	Non-polio AFP rate	% with 2 spec. w/in 14 days	% with any specimen
A&N ISLANDS	2	0	0	0	2	0	0	0.67	0.67	50	100	0	0	0	0	0	0	0.00	0.00	NA	NA	
ANDHRA PRADESH	1099	0	0	0	1097	2	2	4.41	4.40	85	97	329	0	0	0	265	64	12	2.82	2.27	85	97
ARUNACHAL PR.	27	0	0	0	27	0	0	3.72	3.72	78	100	7	0	0	0	6	1	0	2.57	2.20	71	86
ASSAM	519	0	0	0	517	2	2	4.18	4.17	92	98	128	0	0	0	116	12	2	2.19	1.99	92	97
BIHAR	14148	0	1	12	14074	61	61	34.25	34.07	87	98	5305	0	0	0	4426	879	173	26.45	22.06	89	98
CHANDIGARH	61	0	0	0	61	0	0	14.12	14.12	89	95	23	0	0	0	21	2	0	11.35	10.36	91	100
CHHATTISGARH	564	0	0	0	546	18	18	5.55	5.37	67	95	159	0	0	0	103	56	17	3.38	2.19	64	97
D&N HAVELI	1	0	0	0	1	0	0	1.45	1.45	100	100	2	0	0	0	2	0	0	5.42	5.42	100	100
DAMAN & DIU	6	0	0	0	6	0	0	17.65	17.65	83	100	2	0	0	0	1	1	0	30.95	15.48	100	100
DELHI	871	0	0	0	843	28	28	12.50	12.10	81	97	336	0	0	0	274	62	21	13.66	11.14	83	98
GOA	25	0	0	0	25	0	0	6.35	6.35	88	100	8	0	0	0	8	0	0	4.33	4.33	62	100
GUJARAT	946	0	0	0	944	2	2	4.32	4.31	84	96	364	0	0	0	296	68	17	3.53	2.87	85	95
HARYANA	1252	0	0	0	1242	10	10	12.01	11.91	83	98	484	0	0	0	426	58	14	9.87	8.69	86	99
HIMACHAL PRADESH	159	0	0	0	157	2	2	7.48	7.38	89	98	82	0	0	0	65	17	7	8.03	6.36	84	96
JAMMU & KASHMIR	184	0	0	0	183	1	1	3.50	3.48	98	100	67	0	0	0	61	6	1	2.70	2.45	96	100
JHARKHAND	1419	0	0	2	1401	16	16	10.44	10.31	83	97	488	0	0	0	404	84	26	7.61	6.30	83	97
KARNATAKA	944	0	0	1	936	7	7	4.95	4.91	79	96	369	0	0	0	287	82	22	4.04	3.14	80	94
KERALA	379	0	0	1	378	0	0	4.51	4.50	84	98	151	0	0	0	121	30	4	3.86	3.09	79	99
LAKSHADWEEP	0	0	0	0	0	0	0	0.00	0.00	NA	NA	0	0	0	0	0	0	0.00	0.00	NA	NA	
MADHYA PRADESH	2683	0	0	0	2660	23	23	8.88	8.80	85	98	1023	0	0	0	818	205	52	7.19	5.75	85	98
MAHARASHTRA	2868	0	2	2	2854	10	10	7.15	7.12	87	98	1009	0	0	0	835	174	50	6.84	5.66	85	97
MANIPUR	18	0	0	0	18	0	0	1.65	1.65	83	100	16	0	0	0	15	1	0	3.70	3.47	100	100
MEGHALAYA	56	0	0	0	56	0	0	4.58	4.58	88	98	15	0	0	0	11	4	0	2.58	1.89	100	100
MIZORAM	12	0	0	0	11	1	1	2.71	2.48	83	100	5	0	0	0	3	2	1	2.42	1.45	80	100
NAGALAND	10	0	0	0	10	0	0	1.39	1.39	70	90	3	0	0	0	3	0	0	0.90	0.90	100	100
ODISHA	1970	0	1	0	1953	16	16	13.65	13.54	86	97	601	0	0	0	500	101	22	10.45	8.69	86	98
PONDICHERRY	18	0	0	0	18	0	0	5.03	5.03	100	100	10	0	0	0	8	2	0	5.94	4.75	90	100
PUNJAB	640	0	0	1	630	9	9	8.63	8.50	83	96	235	0	0	0	196	39	14	6.88	5.74	84	96
RAJASTHAN	2216	0	0	1	2196	19	19	9.39	9.31	81	97	772	0	1	0	606	165	49	7.09	5.57	83	97
SIKKIM	1	0	0	0	1	0	0	0.46	0.46	100	100	1	0	0	0	0	1	0	0.98	0.00	0	100
TAMIL NADU	625	0	0	0	621	4	4	3.49	3.47	90	98	272	0	0	0	248	24	8	3.26	2.97	93	99
TRIPURA	60	0	0	0	60	0	0	3.99	3.99	90	100	22	0	0	0	17	5	1	3.15	2.44	68	91
UTTAR PRADESH	17779	0	1	10	17725	43	43	21.47	21.40	88	98	6011	0	1	0	5190	820	204	15.44	13.33	89	98
UTTARAKHAND	373	0	0	0	371	2	2	8.89	8.84	87	98	127	0	0	0	114	13	3	6.63	5.95	91	98
WEST BENGAL	2739	0	0	1	2726	12	12	8.55	8.51	90	98	1068	0	0	0	922	146	37	7.11	6.14	90	99
TOTAL	54674	0	5	31	54350	288	288	12.52	12.44	86	98	19494	0	2	0	16368	3124	757	9.78	8.21	87	98

AFP cases > 15 years of age or missing age information are excluded

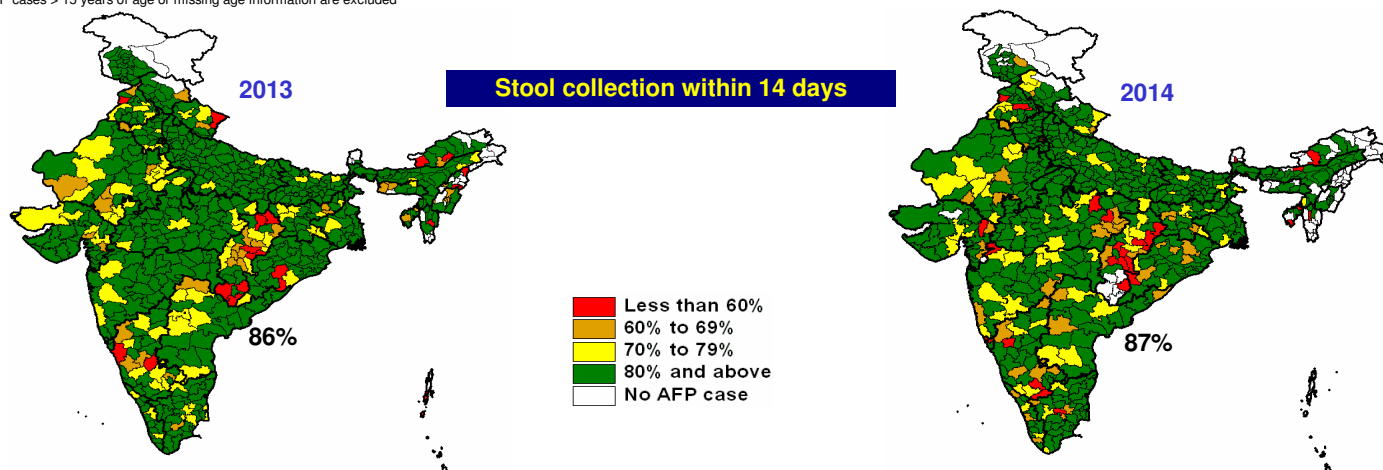


Table 3: Primary isolation results of AFP cases

2014								
Polio Laboratories	Number of AFP cases with stool specimens	Number of AFP cases with laboratory result as				Number of cases pending for		Number of specimens received by lab
		Culture positive for poliovirus	Culture positive for polio virus and NPEV	NPEV	No polio virus or NPEV	<=14 days	>14 days	
BJMC, Ahmedabad	2825	207	23	415	1891	289	0	5622
NIV, Bangalore	1832	153	12	263	1246	138	0	3660
ERC, Mumbai	1841	121	21	369	1330	0	0	3696
IoS, Kolkata	2682	106	7	290	2153	126	0	5348
NCDC, Delhi	2758	170	10	329	2064	180	5	5523
CRI, Kasauli	837	48	1	70	685	33	0	1688
KIPM, Chennai	2207	77	3	385	1699	43	0	4395
SGPGI, Lucknow	3633	172	27	1266	1925	243	0	7265
TOTAL	18615	1054	104	3407	12993	1052	5	37197

2013								
Polio Laboratories	Number of AFP cases with stool specimens	Number of AFP cases with laboratory result as				Number of cases pending for		Number of specimens received by lab
		Culture positive for poliovirus	Culture positive for polio virus and NPEV	NPEV	No polio virus or NPEV	<=14 days	>14 days	
BJMC, Ahmedabad	7233	447	67	1425	5294	0	0	14540
NIV, Bangalore	4547	226	33	940	3348	0	0	9114
ERC, Mumbai	4720	142	37	1368	3173	0	0	9665
IoS, Kolkata	8017	282	18	1277	6440	0	0	16042
NCDC, Delhi	8705	391	43	1587	6684	0	0	17428
CRI, Kasauli	2147	78	6	433	1630	0	0	4333
KIPM, Chennai	6972	212	26	1591	5143	0	0	13925
SGPGI, Lucknow	11109	512	99	3763	6735	0	0	22216
TOTAL	53450	2290	329	12384	38447	0	0	107263

Table 4: Intratypic differentiation (ITD) of isolates from AFP cases

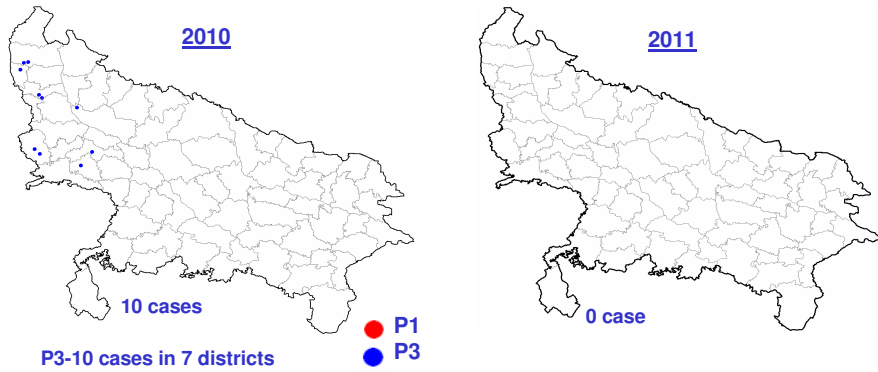
2014																		
Polio Laboratories	Number of AFP cases referred for ITD	Number of AFP cases with ITD result as															Number of cases pending for	
		Wild poliovirus				Vaccine poliovirus				VDPV			NPEV by PCR	Non enterovirus	Negative	<=7 days	8-14 days	>14 days
		Type 1	Type 2	Type 3	Mix	Type 1	Type 2	Type 3	Mix	Type 1	Type 2	Type 3						
ERC, Mumbai	142	0	0	0	0	46	15	44	35	0	0	0	2	0	0	0	0	0
IoS, Kolkata	115	0	0	0	0	32	23	33	26	0	0	0	1	0	0	0	0	0
NCDC, Delhi	180	0	0	0	0	29	64	41	43	0	1	0	1	0	0	1	0	0
KIPM, Chennai	80	0	0	0	0	18	18	14	30	0	0	0	0	0	0	0	0	0
NIV, Bangalore	164	0	0	0	0	44	40	32	42	0	0	0	4	1	0	1	0	0
SGPGI, Lucknow	199	0	0	0	0	43	71	35	47	0	0	0	2	0	0	1	0	0
BJMC, Ahmedabad	229	0	0	0	0	58	53	50	65	0	1	0	1	0	1	0	0	0
CRI, Kasauli	49	0	0	0	0	13	11	12	13	0	0	0	0	0	0	0	0	0
TOTAL	1158	0	0	0	0	283	295	261	301	0	2	0	11	1	1	3	0	0

2013																		
Polio Laboratories	Number of AFP cases referred for ITD	Number of AFP cases with ITD result as															Number of cases pending for	
		Wild poliovirus				Vaccine poliovirus				VDPV			NPEV by PCR	Non enterovirus	Negative	<=7 days	8-14 days	>14 days
		Type 1	Type 2	Type 3	Mix	Type 1	Type 2	Type 3	Mix	Type 1	Type 2	Type 3						
ERC, Mumbai	262	0	0	0	0	86	37	58	52	0	2	0	26	0	1	0	0	0
IoS, Kolkata	300	0	0	0	0	61	45	91	100	0	1	0	0	0	2	0	0	0
NCDC, Delhi	433	0	0	0	0	108	65	130	120	0	1	0	9	0	0	0	0	0
KIPM, Chennai	237	0	0	0	0	53	46	71	67	0	0	0	0	0	0	0	0	0
NIV, Bangalore	260	0	0	0	0	82	23	75	62	0	0	0	18	0	0	0	0	0
SGPGI, Lucknow	610	0	0	0	0	184	144	184	90	0	1	0	6	1	0	0	0	0
BJMC, Ahmedabad	515	0	0	0	0	168	78	130	88	0	0	0	51	0	0	0	0	0
CRI, Kasauli	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2619	0	0	0	0	743	439	739	579	0	5	0	110	1	3	0	0	0

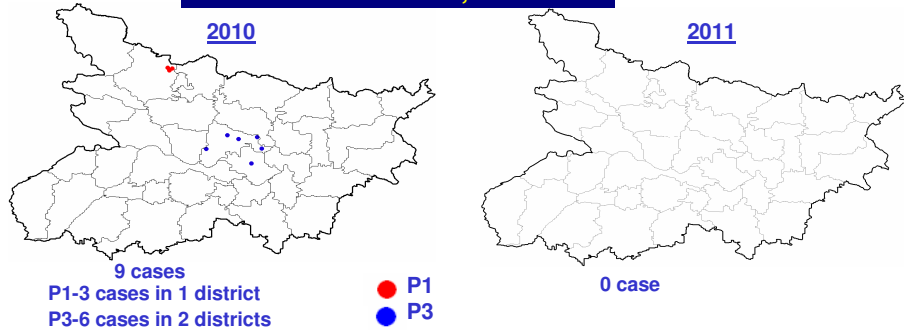
Most recent Wild Polio Virus case by State

State	Date of most recent polio case	Type
West Bengal	13-Jan-11	P1
Jharkhand	22-Oct-10	P3
Maharashtra	16-Sep-10	P1
Bihar	01-Sep-10	P1
Uttar Pradesh	21-Apr-10	P3
Jammu & Kashmir	07-Feb-10	P1
Haryana	13-Jan-10	P3
Rajasthan	27-Nov-09	P3
Uttarakhand	06-Nov-09	P3
Himachal Pradesh	17-Oct-09	P3
Punjab	13-Oct-09	P3
Delhi	28-Jun-09	P3
Madhya Pradesh	04-Aug-08	P3
Orissa	22-Jul-08	P3
Andhra Pradesh	16-Jul-08	P3
Assam	09-Jun-08	P1
Karnataka	03-Nov-07	P3
Gujarat	16-Mar-07	P1
Chandigarh	02-Aug-06	P1
Tamil Nadu	18-Feb-04	P1
Chhattisgarh	18-Jul-02	P1
Kerala	29-Sep-00	P1
Pondicherry	26-Nov-98	P1
Goa	28-Oct-98	P1
Daman & Diu	22-Oct-98	P1
D & N Haveli	31-Jan-98	P1
Nagaland	10-Dec-97	P1&P3
Meghalaya	15-Oct-97	P1
Tripura	10-Oct-97	P1
A&N Islands	Before 1997	
Arunachal Pradesh	Before 1997	
Lakshadweep	Before 1997	
Manipur	Before 1997	
Mizoram	Before 1997	
Sikkim	Before 1997	

Wild Polio cases, UP



Wild Polio cases, Bihar



Month	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014*
January	112	36	36	7	18	51	4	10	8	24	112	14	16	1	0	0	0
February	32	22	10	1	8	16	3	5	9	14	53	5	3	0	0	0	0
March	42	11	10	3	7	9	1	1	8	14	40	16	0	0	0	0	0
April	26	8	20	3	16	7	1	2	13	14	40	13	2	0	0	0	0
May	49	39	6	4	42	5	9	2	36	32	34	24	2	0	0	0	0
June	118	69	8	13	117	7	14	6	76	30	38	79	2	0	0	0	0
July	324	142	25	30	251	25	13	3	121	64	53	89	5	0	0	0	0
August	418	187	39	62	280	29	18	6	114	78	67	119	7	0	0	0	0
September	283	193	32	33	334	30	18	14	137	82	49	145	3	0	0	0	0
October	170	195	31	38	247	20	32	7	71	98	32	129	1	0	0	0	0
November	226	155	31	43	180	16	14	7	55	203	24	60	0	0	0	0	0
December	134	69	17	31	100	10	7	3	28	221	17	48	1	0	0	0	0
Total	1934	1126	265	268	1600	225	134	66	676	874	559	741	42	1	0	0	0

Wild Polio cases, India

