

AFP Surveillance Bulletin - India

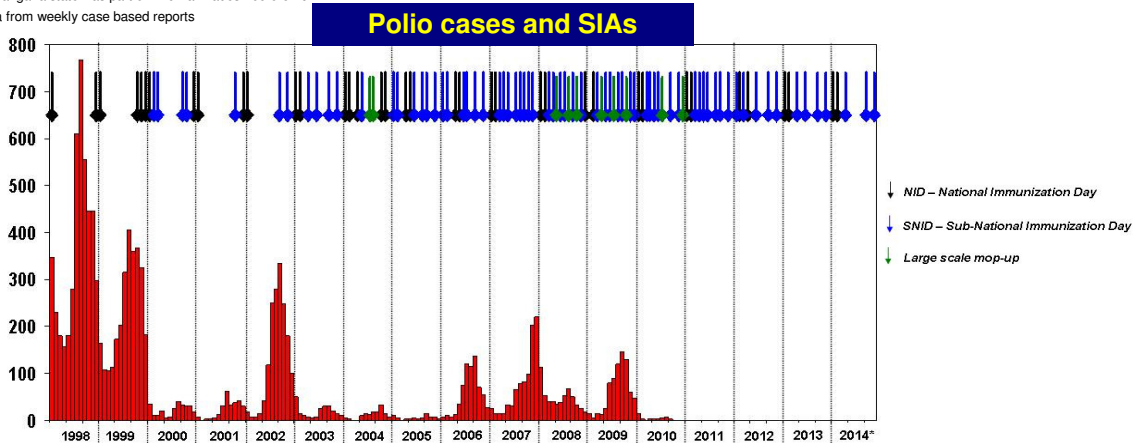
Report for week 50, ending 13 December 2014

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 50, 2013	AFP cases as on week 50, 2014	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
A&N ISLANDS	2	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0
ANDHRA PRADESH	1098	1033	480	82	34	33	44	43	33	46	60	45	39	52	46	5
ARUNACHAL PR.	27	24	13	2	1	3	0	1	2	0	4	1	0	1	0	0
ASSAM	519	499	432	23	24	27	35	22	31	56	67	60	51	30	28	1
BIHAR	14139	13115	13755	1115	1197	978	930	993	1146	1381	1418	1620	1536	1238	1244	74
CHANDIGARH	61	54	63	7	7	6	3	3	4	4	14	8	7	4	3	0
CHHATTISGARH	565	520	416	34	17	30	40	44	38	42	43	53	54	38	16	1
D&N HAVELI	1	1	4	0	0	0	1	0	1	0	1	1	0	0	0	0
DAMAN & DIU	6	5	5	1	0	0	0	0	1	1	0	0	2	0	1	0
DELHI	866	793	799	68	67	76	82	54	72	60	69	81	83	78	72	5
GOA	25	24	24	1	3	2	2	1	0	3	3	3	4	2	1	0
GUJARAT	945	874	832	77	74	63	80	62	79	76	67	93	94	70	71	3
HARYANA	1250	1121	1040	113	98	96	118	87	97	87	108	112	112	76	47	2
HIMACHAL PRADESH	159	154	134	6	14	18	20	14	17	13	6	7	12	9	4	0
JAMMU & KASHMIR	184	161	148	13	11	11	18	13	16	12	10	24	12	10	11	0
JHARKHAND	1416	1322	1434	86	99	99	85	96	121	168	186	233	155	113	70	9
KARNATAKA	944	865	955	83	83	63	61	78	86	124	79	103	111	81	83	3
KERALA	380	348	361	32	39	28	21	29	37	23	39	44	26	38	36	1
LAKSHADWEEP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MADHYA PRADESH	2679	2448	2630	238	185	184	221	200	233	223	249	327	333	261	202	12
MAHARASHTRA	2866	2653	2530	222	209	180	231	205	182	226	238	339	306	210	192	12
MANIPUR	17	18	46	1	3	3	3	4	7	4	5	5	3	6	3	0
MEGHALAYA	56	54	44	2	1	0	4	3	7	6	11	5	3	3	0	1
MIZORAM	12	11	23	1	3	0	0	0	4	4	1	0	6	2	3	0
NAGALAND	10	10	8	1	1	0	1	0	1	1	1	1	1	1	0	0
ODISHA	1965	1840	1825	138	128	96	126	115	142	152	218	285	219	189	146	9
PONDICHERRY	18	14	21	4	6	0	1	1	2	3	2	1	1	4	0	0
PUNJAB	638	593	495	44	46	60	54	42	32	41	66	42	47	38	24	3
RAJASTHAN	2215	2066	1864	135	146	150	149	165	176	207	194	192	207	137	135	6
SIKKIM	1	1	5	0	0	0	0	1	0	0	1	2	0	0	0	0
TAMIL NADU	625	531	618	70	58	49	57	56	67	62	45	53	67	49	54	1
TELANGANA			290		32	32	21	32	22	26	17	28	26	26	25	3
TRIPURA	60	59	65	2	2	4	6	6	3	6	12	9	4	8	5	0
UTTAR PRADESH	17772	16632	16251	1360	1260	1134	1206	1113	1249	1461	1597	1875	2033	1755	1474	94
UTTARAKHAND	372	344	344	28	31	24	15	27	34	17	43	44	44	35	27	3
WEST BENGAL	2739	2500	2717	259	263	243	207	170	169	195	353	436	260	219	188	14
TOTAL	54632	50688	50672	4249	4142	3692	3842	3680	4111	4731	5227	6132	5858	4783	4212	262

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

* Telangana state was part of Andhra Pradesh before 2014

Data from weekly case based reports



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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	1	0	0	0	1	0	0	1.21	1.21	100	100
ANDHRA PRADESH	1098	0	0	0	1098	0	0	4.40	4.40	86	97	480	0	0	0	434	46	13	3.47	3.13	86	99
ARUNACHAL PR.	27	0	0	0	27	0	0	3.72	3.72	78	100	13	0	0	0	12	1	1	2.29	2.12	77	100
ASSAM	519	0	0	0	519	0	0	4.18	4.18	92	98	432	0	0	0	410	22	7	3.55	3.37	94	98
BIHAR	14139	0	1	13	14125	0	0	34.22	34.19	87	98	13755	0	0	3	12656	1096	349	32.92	30.29	88	98
CHANDIGARH	61	0	0	0	61	0	0	14.12	14.12	89	95	63	0	0	0	61	2	1	14.92	14.45	90	100
CHHATTISGARH	565	0	0	0	565	0	0	5.56	5.56	67	95	416	0	0	0	327	89	59	4.25	3.34	65	96
D&N HAVELI	1	0	0	0	1	0	0	1.45	1.45	100	100	4	0	0	0	4	0	0	5.20	5.20	100	100
DAMAN & DIU	6	0	0	0	6	0	0	17.65	17.65	83	100	5	0	0	0	4	1	0	37.14	29.71	80	100
DELHI	866	0	0	0	866	0	0	12.43	12.43	81	97	799	0	0	0	703	96	38	15.59	13.72	81	98
GOA	25	0	0	0	25	0	0	6.35	6.35	88	100	24	0	0	0	23	1	0	6.24	5.98	79	100
GUJARAT	945	0	0	0	945	0	0	4.31	4.31	84	96	832	0	1	0	763	68	20	3.88	3.56	85	95
HARYANA	1250	0	0	0	1250	0	0	11.99	11.99	83	98	1040	0	0	0	952	88	40	10.18	9.32	83	98
HIMACHAL PRADESH	159	0	0	0	159	0	0	7.48	7.48	89	98	134	0	0	0	127	7	4	6.30	5.97	87	97
JAMMU & KASHMIR	184	0	0	0	184	0	0	3.50	3.50	98	100	148	0	0	0	145	3	2	2.86	2.80	98	100
JHARKHAND	1416	0	0	2	1414	0	0	10.42	10.41	83	97	1434	0	0	0	1282	152	77	10.73	9.59	83	97
KARNATAKA	944	0	0	1	943	0	0	4.95	4.95	79	96	955	0	0	0	846	109	57	5.02	4.45	82	97
KERALA	380	0	0	1	379	0	0	4.52	4.51	84	98	361	0	0	0	341	20	3	4.43	4.19	85	98
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	2679	0	0	0	2679	0	0	8.86	8.86	85	98	2630	0	0	0	2352	278	106	8.87	7.94	85	98
MAHARASHTRA	2866	0	2	2	2862	0	0	7.15	7.14	87	98	2530	0	0	0	2325	205	89	8.23	7.56	86	97
MANIPUR	17	0	0	0	17	0	0	1.55	1.55	82	100	46	0	0	0	45	1	0	5.11	5.00	89	98
MEGHALAYA	56	0	0	0	56	0	0	4.58	4.58	88	98	44	0	0	0	42	2	1	3.63	3.47	95	98
MIZORAM	12	0	0	0	12	0	0	2.71	2.71	83	100	23	0	0	0	16	7	5	5.34	3.71	78	100
NAGALAND	10	0	0	0	10	0	0	1.39	1.39	70	90	8	0	0	0	7	1	0	1.15	1.01	75	100
ODISHA	1965	0	1	0	1964	0	0	13.62	13.61	86	98	1825	0	0	0	1663	162	62	15.23	13.87	87	98
PONDICHERY	18	0	0	0	18	0	0	5.03	5.03	100	100	21	0	0	0	21	0	0	5.98	5.98	95	100
PUNJAB	638	0	0	1	637	0	0	8.61	8.59	83	96	495	0	0	0	449	46	22	6.95	6.31	81	96
RAJASTHAN	2215	0	0	1	2214	0	0	9.39	9.39	81	97	1864	0	1	1	1695	167	73	8.22	7.48	83	96
SIKKIM	1	0	0	0	1	0	0	0.46	0.46	100	100	5	0	0	0	4	1	0	2.35	1.88	80	100
TAMIL NADU	625	0	0	0	625	0	0	3.49	3.49	90	98	618	0	0	0	588	30	13	3.55	3.38	92	99
TELANGANA												290	0	0	0	258	32	10	2.78	2.47	78	92
TRIPURA	60	0	0	0	60	0	0	3.99	3.99	90	100	65	0	0	0	64	1	0	4.47	4.40	88	98
UTTAR PRADESH	17772	0	1	10	17761	0	0	21.46	21.45	88	98	16251	0	1	1	14916	1333	386	20.04	18.39	86	98
UTTARAKHAND	372	0	0	0	372	0	0	8.86	8.86	87	98	344	0	0	0	314	30	5	8.62	7.87	89	98
WEST BENGAL	2739	0	0	2	2737	0	0	8.55	8.54	90	98	2717	0	0	0	2557	160	59	8.69	8.17	91	99
TOTAL	54632	0	5	33	54594	0	0	12.51	12.50	86	98	50672	0	3	5	46407	4257	1502	12.20	11.17	87	98

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

* Telangana state was part of Andhra Pradesh before 2014

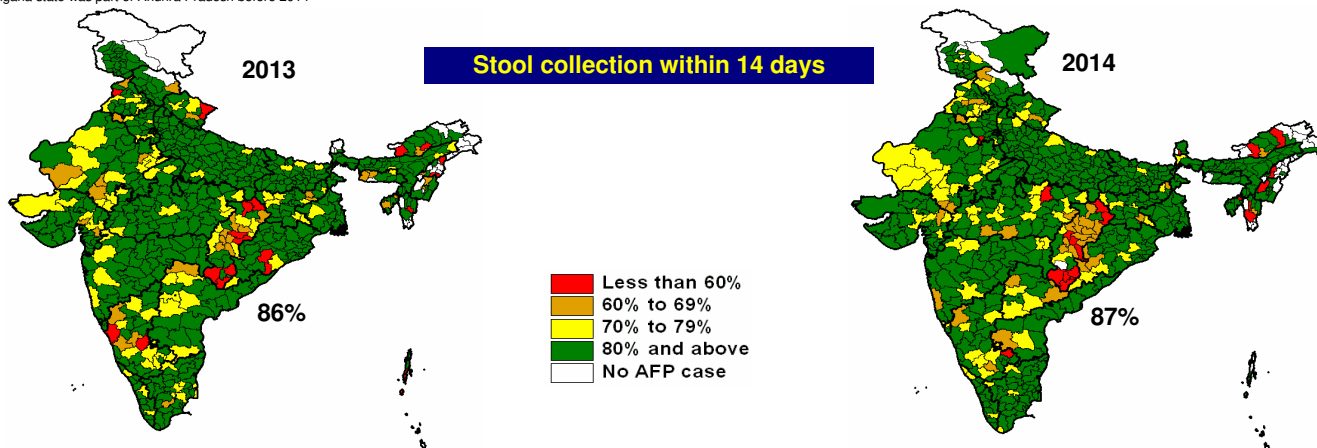


Table 3: Primary isolation results of AFP cases

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	7095	353	57	1648	4841	196	0	14170
NIV, Bangalore	4797	227	34	1137	3270	129	0	9616
ERC, Mumbai	4994	169	43	1469	3310	3	0	10090
IoS, Kolkata	7567	151	13	1057	6178	168	0	15133
NCDC, Delhi	7251	348	22	1235	5401	243	2	14500
CRI, Kasauli	1749	59	3	224	1438	25	0	3524
KIPM, Chennai	5863	134	12	1203	4443	71	0	11699
SGPGI, Lucknow	9829	346	51	3297	5893	242	0	19688
TOTAL	49145	1787	235	11270	34774	1077	2	98420

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	7227	446	67	1425	5289	0	0	14528
NIV, Bangalore	4548	226	33	940	3349	0	0	9116
ERC, Mumbai	4718	142	37	1368	3171	0	0	9660
IoS, Kolkata	8010	281	18	1277	6434	0	0	16028
NCDC, Delhi	8700	390	43	1587	6680	0	0	17415
CRI, Kasauli	2142	78	6	432	1626	0	0	4323
KIPM, Chennai	6969	212	26	1590	5141	0	0	13919
SGPGI, Lucknow	11105	512	98	3763	6732	0	0	22208
TOTAL	53419	2287	328	12382	38422	0	0	107197

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

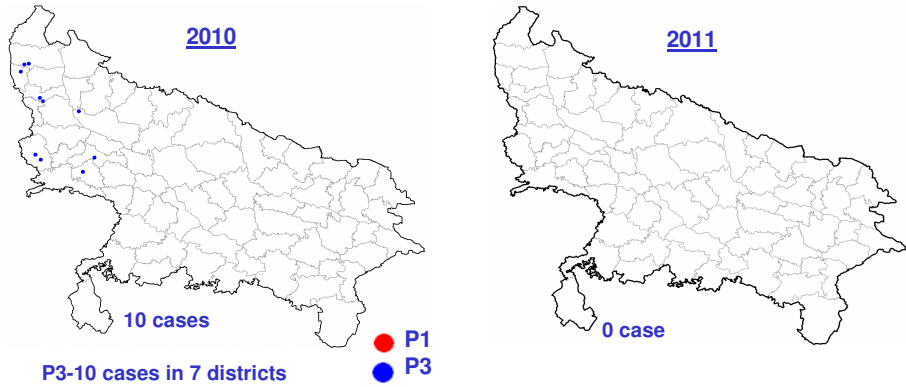
2014																		
Polio Laboratories	Number of AFP cases referred for ITD	Number of AFP cases with ITD result as														Number of cases pending for		
		Wild poliovirus				Vaccine poliovirus				VDPV			NPEV by PCR	Non enterovirus	Negative	<=7 days	8-14 days	>14 days
		Type 1	Type 2	Type 3	Mix	Type 1	Type 2	Type 3	Mix	Type 1	Type 2	Type 3						
ERC, Mumbai	212	0	0	0	0	71	23	61	49	0	0	0	7	0	0	1	0	0
IoS, Kolkata	165	0	0	0	0	44	32	43	44	0	0	0	1	0	0	1	0	0
NCDC, Delhi	370	0	0	0	0	75	71	114	73	0	1	0	7	0	0	22	7	0
KIPM, Chennai	146	0	0	0	0	42	19	27	45	0	0	0	0	0	0	13	0	0
NIV, Bangalore	260	0	0	0	0	85	49	52	61	0	0	0	10	1	0	2	0	0
SGPGI, Lucknow	397	0	0	0	0	105	74	87	90	0	0	0	2	0	0	39	0	0
BJMC, Ahmedabad	410	0	0	0	0	94	64	88	119	0	2	0	18	0	2	23	0	0
CRI, Kasauli	62	0	0	0	0	16	11	18	16	0	0	0	0	0	1	0	0	0
TOTAL	2022	0	0	0	0	532	343	490	497	0	3	0	45	1	3	101	7	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	299	0	0	0	0	61	45	91	99	0	1	0	0	0	2	0	0	0
NCDC, Delhi	432	0	0	0	0	108	65	129	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	609	0	0	0	0	183	144	184	90	0	1	0	6	1	0	0	0	0
BJMC, Ahmedabad	514	0	0	0	0	168	78	129	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	2615	0	0	0	0	742	439	737	578	0	5	0	110	1	3	0	0	0

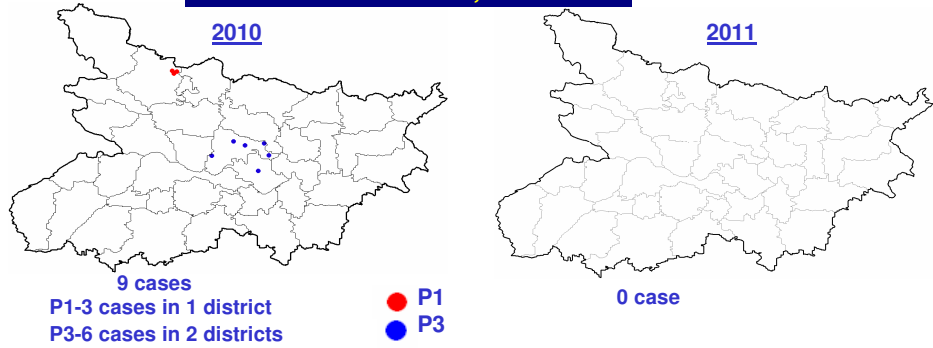
Most recent Wild Polio Virus case by State

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
Odisha	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
Telangana	03-Jul-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

