

AFP Surveillance Bulletin - India

Report for week 8, ending 26th February 2005

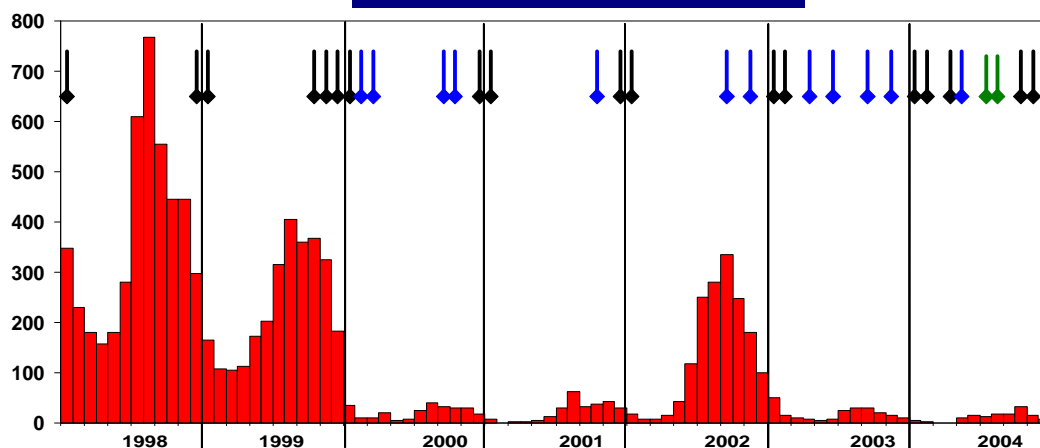
Table 1: AFP cases by month of paralysis onset, last 13 months

State/UT's	2004 AFP cases	2005 AFP cases to date	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05
Andhra Pradesh	466	54	22	28	28	41	49	63	60	53	30	41	30	41	13
Andaman & Nicobar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arunachal Pradesh	6	0	1	0	0	0	1	0	0	3	0	1	0	0	0
Assam	196	19	12	13	13	21	25	16	26	22	11	10	14	12	7
Bihar	2184	234	44	86	157	230	199	221	289	291	258	197	178	213	21
Chandigarh	12	1	0	0	0	2	1	1	2	0	1	2	1	1	0
Chhattisgarh	231	19	10	10	18	27	11	37	30	30	19	19	12	16	3
D & N Haveli	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Daman & Diu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delhi	116	16	4	11	5	14	6	12	7	12	16	11	12	12	4
Goa	10	1	0	1	0	0	3	0	1	1	0	4	0	0	1
Gujarat	435	39	22	33	23	36	52	62	51	44	32	27	35	28	11
Haryana	314	42	18	21	21	27	33	32	30	34	30	29	22	26	16
Himachal Pradesh	46	4	3	1	8	4	4	9	4	1	3	3	3	3	1
Jammu & Kashmir	86	2	7	13	7	9	11	17	7	6	5	1	0	0	2
Jharkhand	394	52	15	14	26	32	45	63	65	40	35	18	28	32	20
Karnataka	506	43	36	28	34	35	49	59	45	56	48	57	32	33	10
Kerala	204	13	13	5	12	23	32	20	21	19	18	18	12	9	4
Lakshadweep	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh	772	81	40	46	57	90	82	89	88	79	78	47	43	55	26
Maharashtra	814	92	45	47	35	78	78	108	110	97	74	59	50	73	19
Manipur	12	2	0	0	0	1	1	1	2	2	0	3	1	0	2
Meghalaya	17	2	0	0	2	4	1	2	1	3	2	1	1	2	0
Mizoram	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Nagaland	3	0	0	0	0	0	1	0	0	0	2	0	0	0	0
Orissa	283	43	10	16	22	20	27	40	43	29	22	18	22	27	16
Pondicherry	6	0	0	1	0	0	1	0	1	0	1	0	2	0	0
Punjab	215	23	11	5	8	21	19	23	36	25	31	14	14	19	4
Rajasthan	626	58	26	35	36	79	74	98	59	58	54	37	43	42	16
Sikkim	2	1	1	0	0	0	1	0	0	0	0	0	0	1	0
Tamil Nadu	395	48	16	22	20	32	41	44	37	30	50	38	43	31	17
Tripura	21	6	2	0	0	1	0	3	2	4	3	3	2	5	1
Uttaranchal	113	21	4	5	6	16	12	12	12	14	9	10	9	15	6
Uttar Pradesh	4051	639	157	179	261	444	439	450	465	433	449	350	318	538	101
West Bengal	711	75	36	58	48	76	65	70	76	71	85	47	40	50	25
TOTAL	13249	1631	555	678	848	1363	1363	1552	1570	1457	1366	1065	968	1285	346

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

Data from weekly case based reports

Polio cases and SIAs



↓ NID – National Immunization Day ↓ SNID – Sub-National Immunization Day ↓ Large scale mop-up

Table 2: Classification of AFP cases and key surveillance indicators, 2004 and 2005

State/UT's	2004										2005									
	AFP						Surveillance Indicators				AFP						Surveillance Indicators			
	AFP Cases	Case Classification					Annualized Rates		Specimen		AFP Cases	Case Classification					Annualized Rates		Specimen	
		Confirmed Polio	Compatible	Discarded (non-polio AFP)	Pending		AFP rate	Non-polio AFP rate	% with 2 spec. w/in 14 days	% with any specimen		Confirmed Polio	Compatible	Discarded (non-polio AFP)	Pending		AFP rate	Non-polio AFP rate	% with 2 spec. w/in 14 days	% with any specimen
			Total	> 90 Days									Total	> 90 Days						
Andhra Pradesh	466	1	5	447	13	7	1.54	1.48	82	98	54	0	0	24	30	0	1.16	0.52	93	98
Andaman & Nicobar	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0	0
Arunachal Pradesh	6	0	0	6	0	0	1.23	1.23	100	100	0	0	0	0	0	0	0.00	0.00	0	0
Assam	196	0	0	192	4	1	1.80	1.77	92	99	19	0	0	7	12	0	1.14	0.42	95	95
Bihar	2184	41	65	1975	103	56	6.14	5.55	78	96	234	1	0	87	146	0	4.27	1.59	90	99
Chandigarh	12	0	0	12	0	0	3.00	3.00	83	92	1	0	0	1	0	0	1.63	1.63	100	100
Chhattisgarh	231	0	3	216	12	9	2.63	2.46	79	97	19	0	0	10	9	0	1.41	0.74	84	100
D & N Haveli	1	0	0	1	0	0	0.95	0.95	100	100	0	0	0	0	0	0	0.00	0.00	0	0
Daman & Diu	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0	0
Delhi	116	2	0	114	0	0	1.84	1.81	81	97	16	1	0	9	6	0	1.65	0.93	94	100
Goa	10	0	0	9	1	0	2.16	1.94	90	100	1	0	0	0	1	0	1.40	0.00	100	100
Gujarat	435	0	1	423	11	5	1.98	1.93	82	95	39	0	0	26	13	0	1.16	0.77	85	95
Haryana	314	2	4	306	2	1	3.47	3.38	86	96	42	0	0	16	26	0	3.02	1.15	86	98
Himachal Pradesh	46	0	0	46	0	0	1.84	1.84	78	100	4	0	0	3	1	0	1.04	0.78	100	100
Jammu & Kashmir	86	0	0	86	0	0	2.00	2.00	99	100	2	0	0	0	2	0	0.30	0.00	100	100
Jharkhand	394	0	6	383	5	3	3.47	3.38	85	96	52	0	0	11	41	0	2.98	0.63	85	96
Karnataka	506	1	5	482	18	13	2.33	2.22	84	98	43	0	0	20	23	0	1.29	0.60	81	91
Kerala	204	0	0	198	6	6	2.23	2.17	95	99	13	0	0	8	5	0	0.93	0.57	92	100
Lakshadweep	1	0	0	1	0	0	4.55	4.55	100	100	0	0	0	0	0	0	0.00	0.00	0	0
Madhya Pradesh	772	0	23	724	25	15	2.98	2.79	79	95	81	0	0	27	54	0	2.03	0.68	84	98
Maharashtra	814	3	6	776	29	17	2.30	2.19	83	97	92	0	0	49	43	0	1.69	0.90	80	93
Manipur	12	0	0	12	0	0	1.22	1.22	100	100	2	0	0	0	2	0	1.32	0.00	100	100
Meghalaya	17	0	0	16	1	0	1.69	1.60	94	100	2	0	0	0	2	0	1.30	0.00	0	100
Mizoram	0	0	0	0	0	0	0.00	0.00	0	0	1	0	0	0	1	0	1.85	0.00	0	100
Nagaland	3	0	0	3	0	0	0.34	0.34	100	100	0	0	0	0	0	0	0.00	0.00	0	0
Orissa	283	0	6	273	4	0	1.89	1.82	79	96	43	0	0	6	37	0	1.87	0.26	84	95
Pondicherry	6	0	0	6	0	0	1.98	1.98	100	100	0	0	0	0	0	0	0.00	0.00	0	0
Punjab	215	0	2	207	6	2	2.40	2.31	81	96	23	0	0	12	11	0	1.67	0.87	91	100
Rajasthan	626	0	11	606	9	4	2.60	2.52	82	96	58	0	0	24	34	0	1.56	0.65	78	93
Sikkim	2	0	0	2	0	0	0.85	0.85	100	100	1	0	0	0	1	0	2.75	0.00	100	100
Tamil Nadu	395	1	2	388	4	3	2.09	2.05	86	97	48	0	0	22	26	0	1.65	0.76	90	100
Tripura	21	0	0	21	0	0	1.58	1.58	90	100	6	0	0	3	3	0	2.94	1.47	67	100
Uttaranchal	113	1	3	109	0	0	3.18	3.07	77	94	21	0	0	9	12	0	3.84	1.65	86	95
Uttar Pradesh	4051	82	155	3727	87	39	5.71	5.25	81	96	639	3	0	331	305	0	5.85	3.03	89	98
West Bengal	711	2	10	686	13	8	2.50	2.41	84	97	75	0	0	26	49	0	1.71	0.59	87	96
TOTAL	13249	136	307	12453	353	189	3.23	3.04	82	96	1631	5	0	731	895	0	2.59	1.16	87	97

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

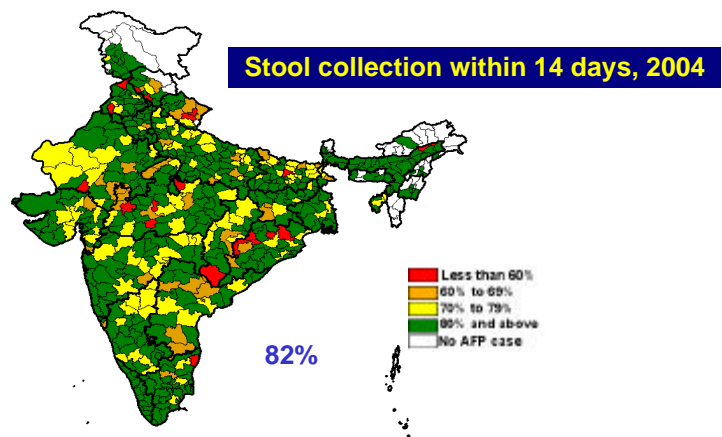
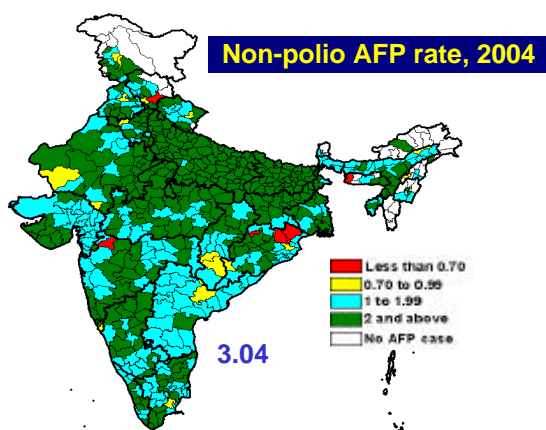


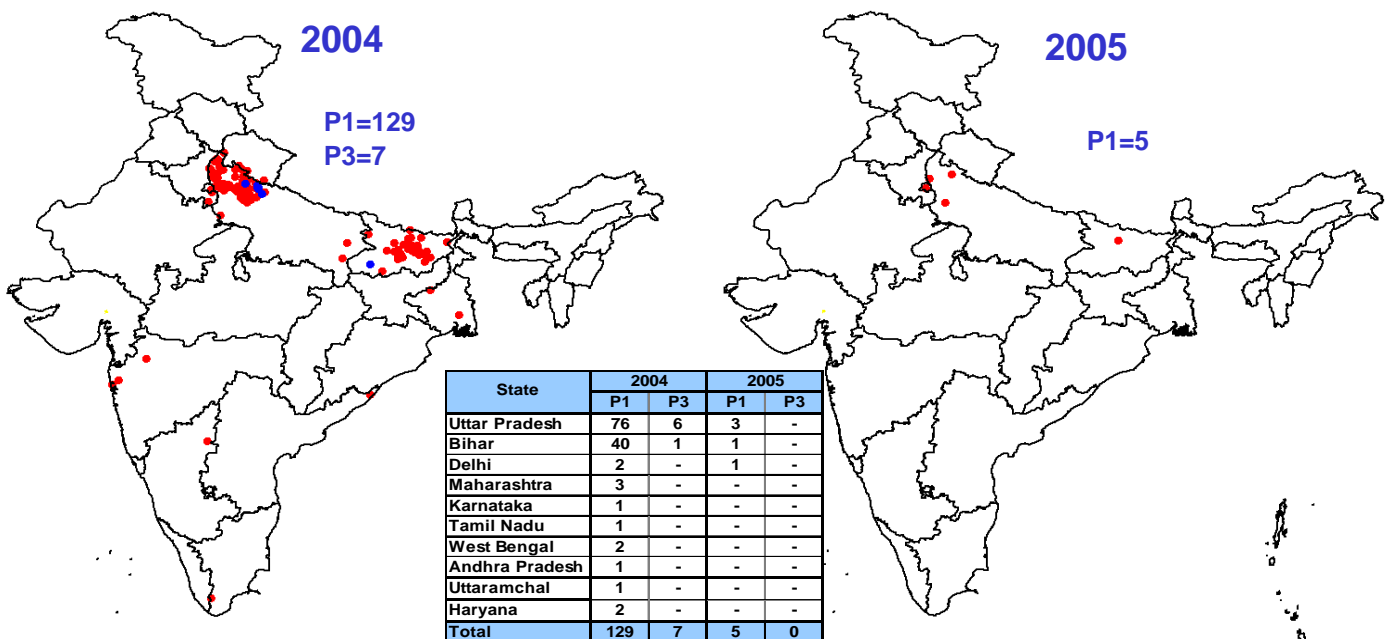
Table 3: Primary isolation results of AFP cases (2005 date of onset)

Polio Laboratories	AFP cases with specimens	Laboratory results for AFP cases with specimen processed								Specimens received by lab in 2005
		P1	P2	P3	Polio mix	NPEV only	Negative for polio & NPEV	No. of cases pending in 2004		
								≤ 28 days	> 28 days	
BJMC, Ahmedabad	84	1	1	2	0	7	46	27	0	168
NIV, Bangalore	40	1	0	0	0	5	17	17	0	80
IoS, Calcutta	186	1	0	0	0	2	56	127	0	373
KIPM, Chennai	87	0	0	0	0	11	38	38	0	179
PII, Coonoor	12	0	0	0	0	0	8	4	0	24
CRI, Kasauli	67	0	0	0	0	2	31	34	0	134
ERC, Mumbai	462	25	5	19	17	74	209	110	3	931
SGPGI, Lucknow	540	13	4	8	5	60	158	278	14	1081
TOTAL	1478	41	10	29	22	161	563	635	17	2970

Table 4: Intratypic differentiation (ITD) of polio isolates from AFP cases (2004 and 2005 date of onset)

Polio Laboratories	# AFP cases positive for polio	2004									2005									
		Intratypic differentiation results								Results pending		# AFP cases positive for polio	Intratypic differentiation results						Results pending	
		Polio 1		Polio 2		Polio 3		Vaccine mixture	≤ 14 days	> 14 days	Polio 1		Polio 2		Polio 3		Vaccine mixture	≤ 14 days	> 14 days	
		Wild	Vaccine	Wild	Vaccine	Wild	Vaccine				Wild		Vaccine	Wild	Vaccine	Wild				Vaccine
ERC, Mumbai	724	88	170	0	83	7	178	198	0	0	73	4	25	0	6	0	21	16	1	0
KIPM, Chennai	49	2	24	0	4	0	6	13	0	0	0	0	0	0	0	0	0	0	0	0
SGPGI, Lucknow	251	39	82	0	27	0	57	44	0	2	29	1	12	0	4	0	8	3	1	0
TOTAL	1024	129	276	0	114	7	241	255	0	2	102	5	37	0	10	0	29	19	2	0

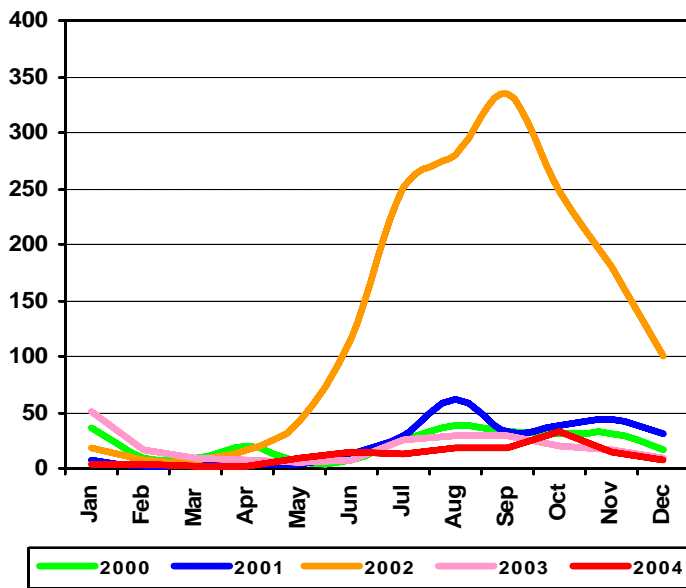
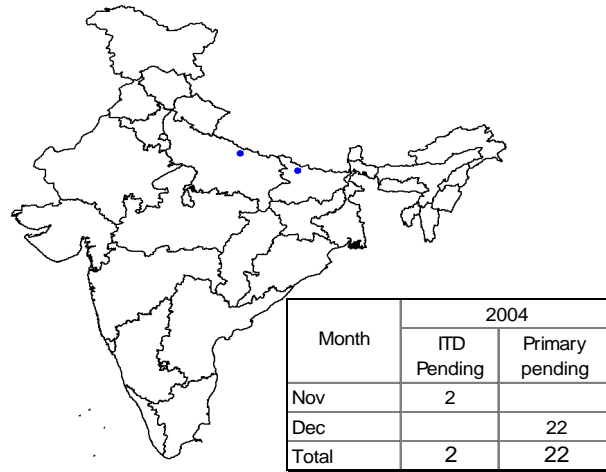
Location of poliovirus, 2004 - 2005



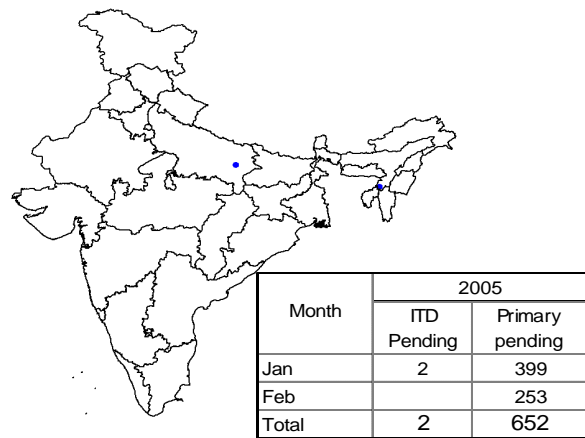
Polio by month of onset

Month	1998	1999	2000	2001	2002	2003	2004	2005
January	112	36	36	7	18	51	4	5
February	32	22	10	1	8	16	3	
March	42	11	10	3	7	9	1	
April	26	8	20	3	16	7	1	
May	49	39	6	4	42	5	9	
June	118	69	8	13	117	7	14	
July	324	142	25	30	251	25	13	
August	418	187	39	62	280	29	18	
September	283	193	32	33	334	30	18	
October	170	195	31	38	247	20	33	
November	226	155	31	43	180	16	14	
December	134	69	17	31	100	10	8	
Total	1934	1126	265	268	1600	225	136	5

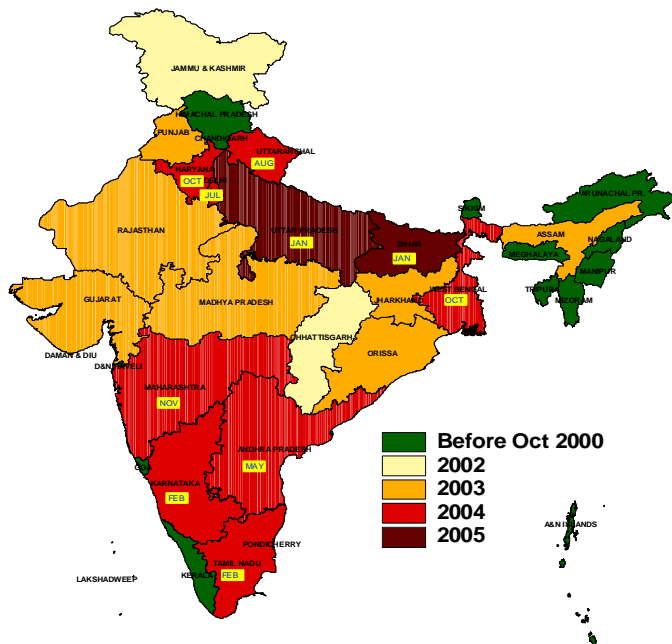
ITD Pending, 2004



ITD Pending, 2005



Last polio case in the states



SIAs, 2005

