



EPI Surveillance Bulletin

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Epidemiologic Week 10: March 2 - 8, 2003



March 2003

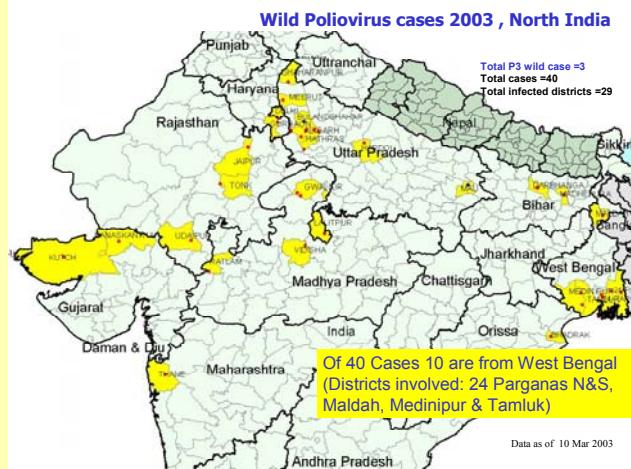
Threat of Poliovirus Importation Increases Importance of Intensified 11th NIDs!

The Intensified 11th NIDs preparations gained momentum as government and partners alike grow increasingly concerned about the threat of importation of wild poliovirus from India. Government and non-government organizations, developmental partners, health managers, field workers and NID volunteers understand the importance of preparing for and conducting high quality intensified 11th NIDs to reach every child to protect polio free status of Bangladesh. Every week reveals more news of the growing threat of importation of wild poliovirus into Bangladesh. In 2002, only 48 (3%) of 1599 wild poliovirus cases in India came from West Bengal. To date, 10 (25%) of 40 cases identified in 2003 come from West Bengal.

To reach every child during the Intensified 11th NIDs on 30 March and 4 May 2003, EPI has given special emphasis to children identified in previous NIDs as "hard to reach". The main reason for not vaccinating children during the 10th NIDs and the SNIDs of 2002 was found to be traveling. To enable the traveling child to be vaccinated EPI is organizing special sites for traveling population at bus and rail stations, launch and ferry ghats, and at major bridges for 5 days (during the NID day and the 4 subsequent days of child to child search). Communication materials have been designed to inform guardians that children may be vaccinated during travel at these special sites or from any of the 120,000 sites all over the country.

Other hard to reach children include children of working mothers, street children, bede, children without houses, and children living in border areas of sub-blocks, wards, unions, upazilas, municipalities and of the country. These border households may be missed by IPC and may not hear miking: their parents may therefore not know about NIDs; they may also be missed during child to child search, as vaccinators may tire before reaching these households. To address the children of working mothers in municipalities and cities, special evening sessions are being held in urban areas. Field workers and volunteers must make every effort to reach border houses with IPC and again during the child to child search. Community mobilizers should visit border households and identify guest children during NID days. Supervisors must also ensure that these "hard to reach" children are vaccinated.

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Surveillance Summary for 1998-2002 (through Epidemiologic Week 10, March 2 - 8, 2003)

	1998	1999	2000	2001	2002 ¹
Number of AFP cases	475	761	1138	1287	1362
No. of clinically confirmed polio cases	298	322	197	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	NA	36	0
No. of cases with isolation of wild poliovirus	10	29	1	0	0
No. of discarded polio cases (i.e., non-polio AFP)	165	439	941	1251	1334
No. of cases pending classification	0	0	0	0	28
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)	495	505	515	533	549

AFP Surveillance Performance Indicators:

Indicator	Target	1998	1999	2000	2001	2002
1. Annual Non-Polio AFP rate in children < 15 years old	≥ 1/100,000	0.33	0.87	1.82	2.35	2.43
2. Completeness of active reporting from hospitals	≥ 90%	46%	73%	95%	100%	100%
3. Timeliness of active reporting from hospitals	≥ 80%	15%	44%	72%	88%	100%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	89%	83%	93%	96%	96%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	59%	49%	68%	80%	89%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	88%	81%	92%	97%	98%
7. Stool specimens arriving at laboratory in "good" condition "good" = 1. Presence of unmelted ice or temperature <8°C 2. Adequate volume (≥ 8 grams or size of ½ thumb) 3. No evidence of leakage 4. No evidence of desiccation (drying)	≥ 90%	92%	97%	100%	100%	99%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	80%	97%	95%	93% ³	96% ²
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100% ³
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	28%

¹ Data as of March 8, 2003; ² among cases with inadequate stools occurring up to December 8, 2002; ³ as of February 8, 2003

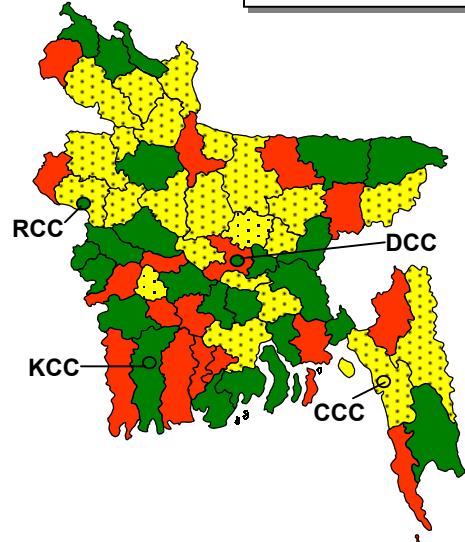
District	# Expected non-polio AFP	Total # AFP1	Wild polio-virus isolated	# Compatible cases	Non-Polio AFP cases ¹	Pending final classif. ¹	Non-polio AFP Rate ¹ (/1,00,000)	Notification within 10 d after paralysis onset ¹	Investigation within 48 h after notification ¹	% with 2 stools within 14 days ¹	Stool sample arriving to lab within 72 hrs ¹	# eligible for 60-day follow-up ²	% with 60-day follow-up ²
Dhaka Division													
DCC only	29	63		61	2	2.10	94%	100%	97%	100%	4	75%	
Dhaka (non DCC)	12	27		27	0	2.25	100%	96%	100%	89%	0	NA	
Faridpur	7	16		16	0	2.29	88%	93%	94%	100%	1	100%	
Gazipur	8	9		8	1	1.00	89%	100%	78%	100%	1	100%	
Gopalganj	5	14		11	3	2.20	57%	93%	57%	92%	6	83%	
Jamalpur	9	21		21	0	2.33	91%	95%	91%	91%	3	100%	
Kishoreganj	12	51		50	1	4.17	88%	96%	86%	98%	7	100%	
Madaripur	5	11		11	0	2.20	82%	91%	82%	91%	2	100%	
Manikganj	6	11		11	0	1.83	100%	100%	91%	100%	1	100%	
Munshiganj	6	14		14	0	2.33	93%	86%	93%	100%	1	100%	
Mymensingh	20	34		33	1	1.65	77%	94%	71%	100%	11	100%	
Narayanganj	9	18		18	0	2.00	83%	100%	83%	100%	4	100%	
Narsingdhi	8	30		29	1	3.63	90%	97%	93%	97%	2	50%	
Netrokona	9	19		19	0	2.11	95%	100%	90%	100%	3	100%	
Rajbari	4	13		13	0	3.25	100%	92%	100%	100%	0	NA	
Shariatpur	5	9		9	0	1.80	100%	100%	100%	100%	0	NA	
Sherpur	6	9		9	0	1.50	100%	100%	100%	100%	0	NA	
Tangail	15	29		28	1	1.87	76%	97%	86%	100%	4	75%	
Total-DHAKA	175	398	0	388	10	2.22	88%	97%	89%	98%	50	94%	
CTG Division													
CCC only	9	13		13	0	1.44	100%	100%	100%	100%	0	NA	
Chittagong (non CCC)	19	51		51	0	2.68	96%	98%	92%	96%	5	100%	
Bandarban	1	3		3	0	3.00	100%	100%	100%	100%	0	NA	
Brahmanbaria	11	21		21	0	1.91	81%	95%	81%	91%	4	100%	
Chandpur	10	24		23	1	2.30	87%	96%	88%	100%	3	100%	
Comilla	21	101		97	4	4.62	94%	96%	93%	96%	8	88%	
Cox's Bazar	7	16		16	0	2.29	81%	100%	81%	100%	3	100%	
Feni	6	22		22	0	3.67	100%	96%	100%	96%	0	NA	
Khagrachari	2	9		9	0	4.50	100%	78%	100%	89%	0	NA	
Laxmipur	7	13		13	0	1.86	77%	92%	85%	100%	2	100%	
Noakhali	11	27		27	0	2.45	85%	96%	89%	100%	3	100%	
Rangamati	2	7		7	0	3.50	43%	86%	57%	86%	3	100%	
Total-CTG	106	307	0	302	5	2.85	91%	96%	91%	96%	31	97%	
Sylhet Division													
Sylhet	11	15		15	0	1.36	87%	100%	87%	100%	2	100%	
Habiganj	8	11		11	0	1.38	64%	91%	64%	100%	3	100%	
Maulvibazar	7	21		21	0	3.00	86%	95%	91%	100%	3	100%	
Sunamganj	9	17		16	1	1.78	82%	100%	88%	100%	2	100%	
Total-SYL	35	64	0	63	1	1.80	81%	97%	84%	100%	10	100%	
Raj Division													
RCC only	1	10		10	0	10.00	100%	100%	90%	100%	1	100%	
Rajshahi (non RCC)	9	16		16	0	1.78	81%	100%	94%	100%	1	100%	
Bogra	14	30		29	1	2.07	93%	87%	87%	90%	4	100%	
Dinajpur	11	17		17	0	1.55	71%	100%	77%	100%	5	100%	
Gaibandha	10	19		18	1	1.80	84%	90%	68%	100%	6	100%	
Joypurhat	4	12		12	0	3.00	92%	100%	92%	100%	1	100%	
Kurigram	8	22		21	1	2.63	95%	95%	82%	100%	4	75%	
Lalmonirhat	5	12		12	0	2.40	75%	100%	83%	100%	2	100%	
Naogaon	11	23		22	1	2.00	91%	87%	87%	100%	3	100%	
Natore	7	9		9	0	1.29	89%	100%	89%	100%	1	100%	
Nawabganj	6	13		13	0	2.17	85%	92%	85%	100%	2	100%	
Nilphamari	7	10		10	0	1.43	100%	100%	90%	100%	1	100%	
Pabna	10	24		23	1	2.30	88%	88%	88%	100%	3	100%	
Panchagarh	3	11		10	1	3.33	91%	82%	91%	100%	1	100%	
Rangpur	11	27		26	1	2.36	82%	96%	85%	100%	4	100%	
Sirajganj	11	29		29	0	2.64	83%	97%	90%	97%	3	100%	
Thakurgaon	5	13		13	0	2.60	85%	100%	92%	100%	1	100%	
Total-RAJ	133	297	0	290	7	2.18	87%	94%	86%	99%	43	98%	
Khulna Division													
KCC only	3	16		16	0	5.33	100%	100%	94%	93%	1	100%	
Khulna (non KCC)	7	22		22	0	3.14	91%	95%	91%	100%	2	100%	
Bagerhat	7	10		10	0	1.43	90%	100%	90%	80%	2	100%	
Chuadanga	4	7		7	0	1.75	86%	100%	100%	100%	0	NA	
Jessore	11	17		16	1	1.45	94%	100%	82%	93%	3	100%	
Jhenaidah	7	13		13	0	1.86	92%	92%	100%	100%	0	NA	
Kushtia	8	16		16	0	2.00	88%	100%	100%	100%	0	NA	
Magura	4	7		7	0	1.75	86%	100%	86%	100%	1	100%	
Meherpur	2	4		4	0	2.00	100%	100%	100%	100%	0	NA	
Narail	3	7		7	0	2.33	86%	86%	86%	86%	1	100%	
Satkhira	8	16		16	0	2.00	94%	94%	94%	94%	1	100%	
Total-KHU	64	135	0	134	1	2.09	92%	97%	93%	96%	11	100%	
Barisal Division													
Barisal	11	30		30	0	2.73	80%	97%	90%	100%	3	100%	
Barguna	4	27		26	1	6.50	96%	93%	96%	100%	1	100%	
Bhola	7	16		16	0	2.29	100%	100%	100%	94%	0	NA	
Jhalakhati	3	33		32	1	10.67	94%	94%	97%	100%	2	50%	
Patuakhali	6	16		15	1	2.50	88%	100%	88%	94%	1	100%	
Pirojpur	5	39		38	1	7.60	95%	97%	92%	100%	2	100%	
Total BAR	36	161	0	157	4	4.36	92%	96%	94%	99%	9	89%	
National	549	1362	0	1334	28	2.43	89%	96%	89%	98%	154	96%	

¹ Data as of Epidemiologic Week 10, 8 March, 2003² 60-day follow-up among cases without 2 adequate stool samples occurring up to 8 December, 2002

Non-Polio AFP Rate, by District, Bangladesh 1999-2002*

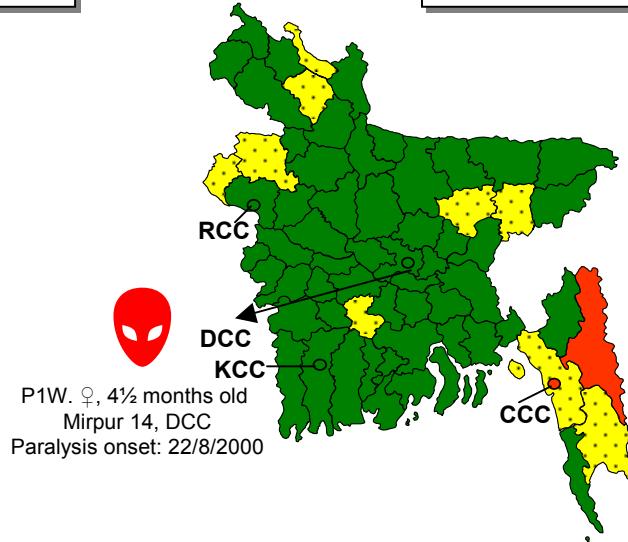
1999 (National: 0.87)

24 of 64 Districts (38%)
+ 3 CC reached target.



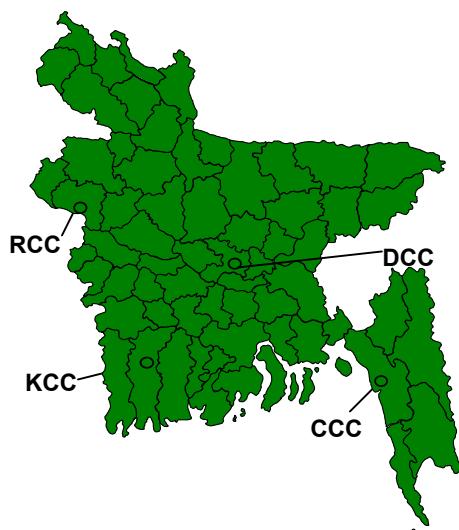
2000 (National: 1.82)

54 of 64 Districts (84%)
+ 3 CC reached target.



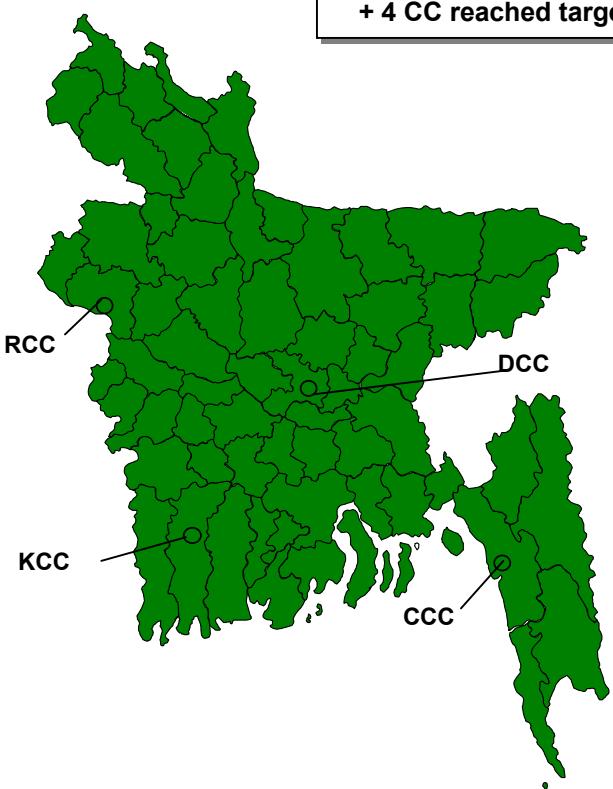
2001 (National: 2.35)

64 of 64 Districts (100%)
+ 4 CC reached target.



2002 (National: 2.43*)

64 of 64 Districts (100%)
+ 4 CC reached target.



Rate per 1,000,000 children <15 years

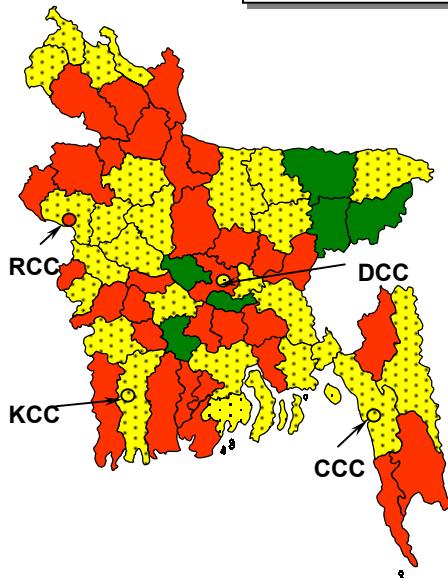
- 0.00 – 0.49
- 0.50 – 0.99
- >=1.00 (Target)

*Data as of Epidemiologic Week 10, March 8, 2003

Percent of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 1999-2002*

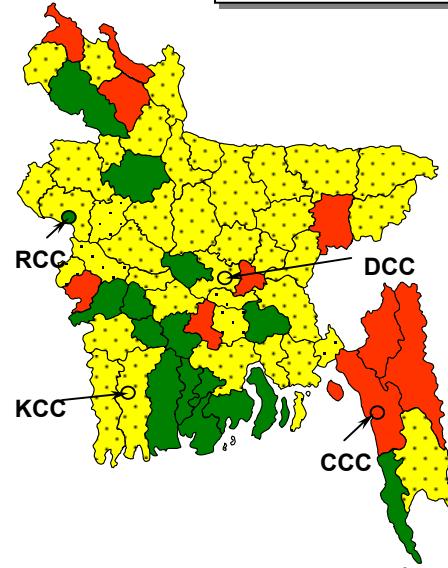
1999 (National: 49%)

6 of 64 Districts (9%) reached target.



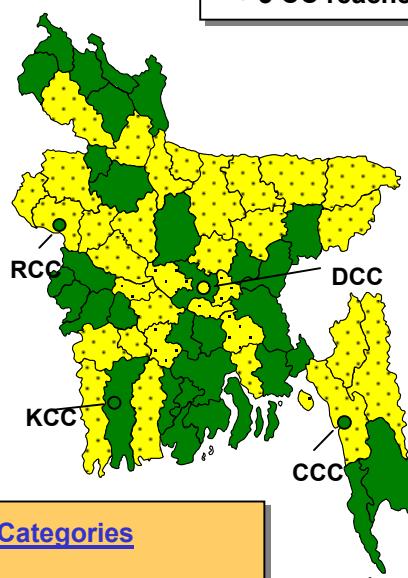
2000 (National: 68%)

15 of 64 Districts (23%) + 1 CC reached target.



2001 (National: 80%)

32 of 64 Districts (50%) + 3 CC reached target.

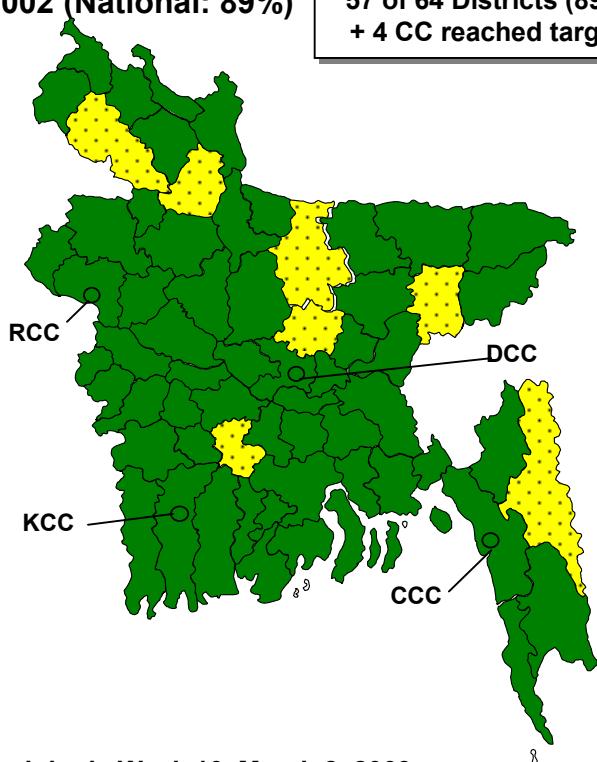


Categories

- █ 0% - 49%
- █ 50% - 79%
- █ >=80% (Target)

2002 (National: 89%)

57 of 64 Districts (89%) + 4 CC reached target.



*Data as of Epidemiologic Week 10, March 8, 2003