



EPI Surveillance Bulletin

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Epidemiologic Week 16: April 13 - 19, 2003



April 2003

Intensified 11th NIDs: More than 95% Children Vaccinated in 1st Round

Preliminary evaluation of performance of the 1st round of the Intensified 11th NIDs was done at the National NID Review Meeting in Dhaka on 9 April 2003. The findings of the 11th NIDs were discussed based on available data from the checklists submitted by NID and Child Search observers from DGHS and different partner organizations. These 'Independent Observers' visited 2,198 areas in all 64 districts and evaluated 15,891 children after the Child Search was completed. They also visited 1,842 fixed sites on the Day of the NID. According to Independent Observer Checklist findings, 95.4% of children were vaccinated with OPV during the 1st round of the 11th NIDs: 85.6% at fixed sites and 9.8% during child-to-child search. Some 4.6% of the children were missed, which represents an estimated 934,050 children. First round quality was good in many aspects: no VVM changed color, and one drop of OPV was given to at least one child in only 1% of sites, compared to 3% in the SNIDs and 7% in 10th NIDs.

One major concern, however, was the decreased efforts during the child-to-child search to reach children that were not vaccinated at the NID fixed sites, especially in rural areas: 61% of left outs were reached in rural areas, compared 67% and 73% during the 2nd and 1st rounds of SNIDs, respectively. To improve coverage in the upcoming 2nd round (May 4-8), local initiatives must be taken to address the following: better supervision and monitoring of vaccinators and 1st line supervisors during NID and especially during each day of child-to child search, repeat house to house visits by field workers and volunteers for better IPC, and re-orientation of volunteers and field workers to ensure adequate knowledge of NIDs strategies and use of the new plastic OPV vial.

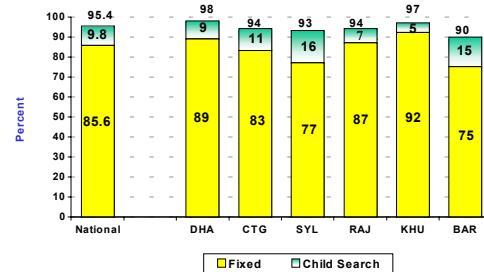
In addition to the eradication of polio, your EPI continues to make history and save lives. On April 10, Dr. Khandaker Mosharraf Hossain, Honorable Minister of Health & Family Welfare, inaugurated the introduction of Hepatitis B vaccine into EPI at a ceremony in Bogra. Children that receive DPT in the 6 phase one districts are now also receiving Hepatitis B vaccine, protecting them from a 7th deadly vaccine preventable disease. In addition, EPI has taken lead in drafting a national policy document for submission to the Honorable Minister of Health & Family Welfare to ensure Safe Injections and Sharps Waste Disposal in Bangladesh and thus reduce the spread of blood-borne diseases including HIV, Hepatitis B and C, Syphilis and malaria.

Finally, we extend our thanks and best wishes to all NID volunteers, field workers, supervisors, health officials, and government and non-government inter-sectoral partners for the Bangla New Year 1410. May Bangladesh remain polio-free.

Shubho Nabo Barsho!

Shishu Shishu Proti Shishu Khuje Fero Proti Shishu !

Fixed Site and C-C Search Coverage,
11th NIDs 1st Round, by Division, Bangladesh, 2003



Surveillance Summary for 1998-2003 (through Epidemiologic Week 16, April 13 - 19, 2003)

	1998	1999	2000	2001	2002	2003 ¹
Number of AFP cases	475	761	1138	1287	1366	331
No. of clinically confirmed polio cases	298	322	197	NA	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	NA	36	0	0
No. of cases with isolation of wild poliovirus	10	29	1	0	0	0
No. of discarded polio cases (i.e., non-polio AFP)	165	439	941	1251	1364	231
No. of cases pending classification	0	0	0	0	2	100
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	2003
1. Annual Non-Polio AFP rate in children < 15 years old	≥ 1/100,000	0.33	0.87	1.82	2.35	2.48	*
2. Completeness of active reporting from hospitals	≥ 90%	46%	73%	95%	100%	100%	100%
3. Timeliness of active reporting from hospitals	≥ 80%	15%	44%	72%	88%	100%	99%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	89%	83%	93%	96%	96%	95%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	59%	49%	68%	80%	89%	88%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	88%	81%	92%	97%	98%	99%
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%	100%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	80%	97%	95%	93%	98%	18% ²
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100%	96% ³
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	28%	13%

¹ Data as of April 19, 2003; ² among cases with inadequate stools occurring up to January 19, 2003; ³ as of March 22, 2003:

* Pending updated data on Census 2001

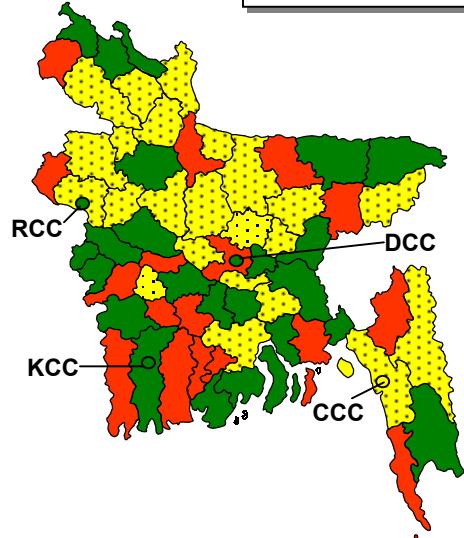
District	# Expected non-polio AFP	Total # AFP1	Wild polio-virus isolated	# Compatible cases	Non-Polio AFP cases	Pending final classif.	Non-polio AFP Rate (/1,00,000)	Notification within 10 d after paralysis onset	Investigation within 48 h after notification	% with 2 stools within 14 days	Stool sample arriving to lab within 72 hrs	# eligible for 60-day follow-up	% with 60-day follow-up
Dhaka Division													
DCC only	29	63		63	0	2.17	94%	100%	97%	100%	4	100%	
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%	2	100%	
Gopalganj	5	14		14	0	2.80	57%	93%	57%	92%	6	83%	
Jamalpur	9	21		21	0	2.33	91%	95%	91%	91%	3	100%	
Kishoreganj	12	51		51	0	4.25	88%	96%	86%	98%	7	100%	
Madaripur	5	11		11	0	2.20	82%	91%	82%	91%	2	100%	
Manikganj	6	12		12	0	2.00	92%	100%	83%	100%	2	100%	
Munshiganj	6	14		14	0	2.33	93%	86%	93%	100%	1	100%	
Mymensingh	20	34		34	0	1.70	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	1%	92%	100%	100%	0	NA	
Shariatpur	5	9		9	0	1.80	1%	100%	100%	100%	0	NA	
Sherpur	6	9		9	0	1.50	1%	100%	100%	100%	0	NA	
Tangail	15	29		29	0	1.93	76%	97%	86%	100%	4	100%	
Total-DHAKA	175	399	0	0	397	2	2.27	88%	97%	89%	98%	52	96%
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		24	0	2.40	87%	96%	88%	100%	3	100%	
Comilla	21	102		102	0	4.86	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	308	0	0	308	0	2.91	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%	4	100%	
Maulvibazar	7	21		21	0	3.00	86%	95%	86%	100%	4	100%	
Sunamganj	9	17		17	0	1.89	82%	100%	88%	100%	2	100%	
Total-SYL	35	64	0	0	64	0	1.83	81%	97%	83%	100%	12	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		30	0	2.14	93%	87%	87%	90%	4	100%	
Dinajpur	11	17		17	0	1.55	71%	100%	77%	100%	5	100%	
Gaibandha	10	19		19	0	1.90	84%	90%	68%	100%	6	100%	
Joypurhat	4	12		12	0	3.00	92%	100%	92%	100%	1	100%	
Kurigram	8	22		22	0	2.75	95%	100%	82%	100%	4	75%	
Lalmonirhat	5	12		12	0	2.40	75%	100%	83%	100%	2	100%	
Naogaon	11	23		23	0	2.09	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	23		23	0	2.30	91%	87%	91%	100%	2	100%	
Panchagarh	3	11		11	0	3.67	91%	82%	91%	100%	1	100%	
Rangpur	11	28		28	0	2.55	82%	96%	86%	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	0	297	0	2.23	87%	94%	86%	99%	42	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		17	0	1.55	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	0	135	0	2.11	92%	97%	93%	96%	11	100%
Barisal Division													
Barisal	11	30		30	0	2.73	80%	97%	90%	100%	3	100%	
Barguna	4	27		27	0	6.75	96%	93%	96%	100%	1	100%	
Bhola	7	16		16	0	2.29	100%	100%	100%	94%	0	NA	
Jhalakhati	3	34		34	0	11.33	94%	97%	97%	100%	2	100%	
Patuakhali	6	16		16	0	2.67	88%	100%	88%	94%	2	100%	
Pirojpur	5	40		40	0	8.00	95%	98%	93%	100%	3	100%	
Total BAR	36	163	0	0	163	0	4.53	92%	97%	94%	99%	11	100%
National	549	1366	0	0	1364	2	2.48	89%	96%	89%	98%	159	98%

Data as of Epidemiologic Week 16, 19 April, 2003

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

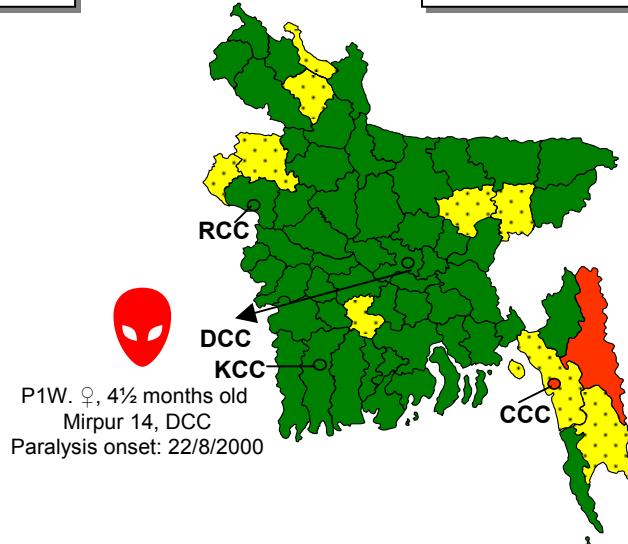
1999 (National: 0.87)

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



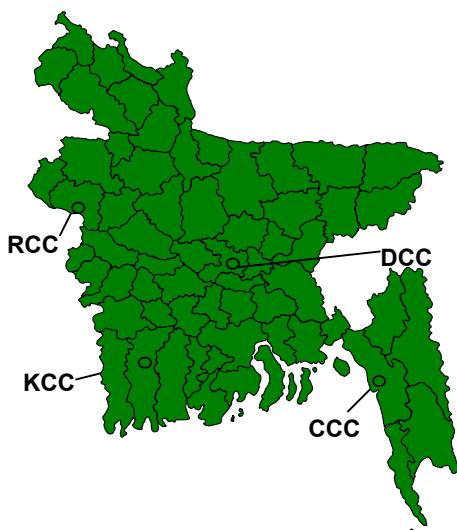
2000 (National: 1.82)

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



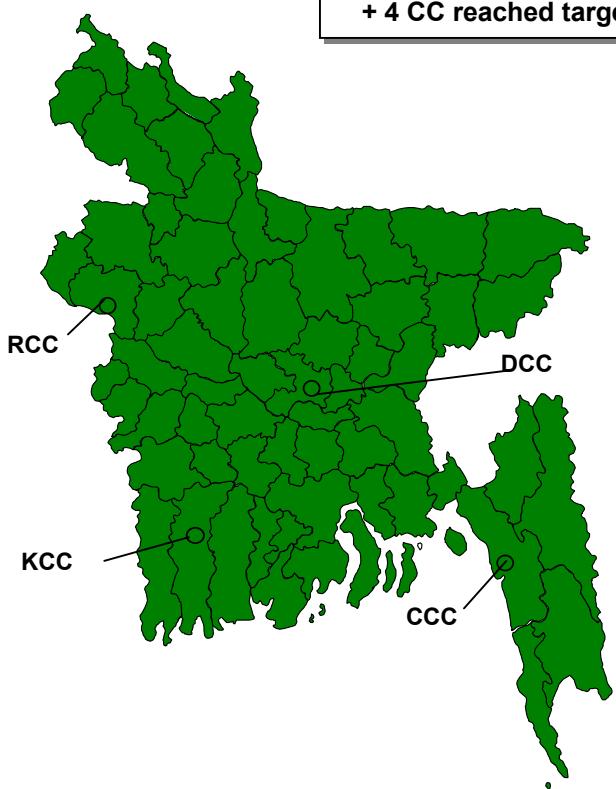
2001 (National: 2.35)

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



2002 (National: 2.48)

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



Rate per 1,000,000 children <15 years

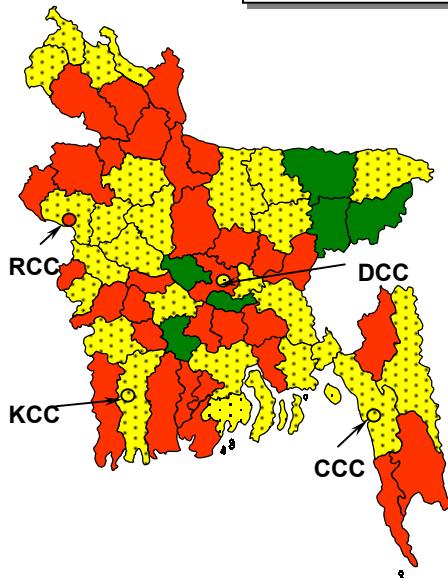
- 0.00 – 0.49
- 0.50 – 0.99
- >=1.00 (Target)

*Data as of Epidemiologic Week 16, April 19, 2003

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

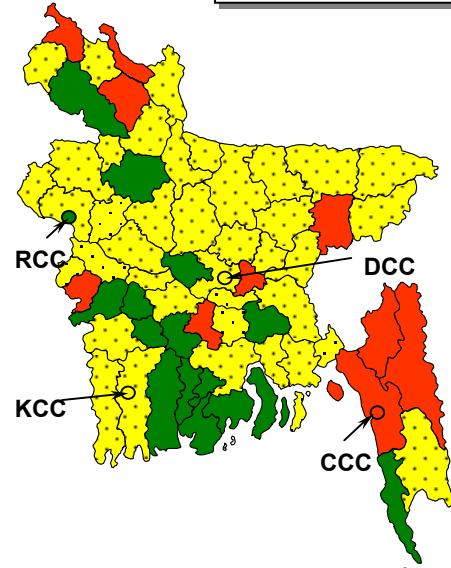
1999 (National: 49%)

6 of 64 Districts (9%) reached target.



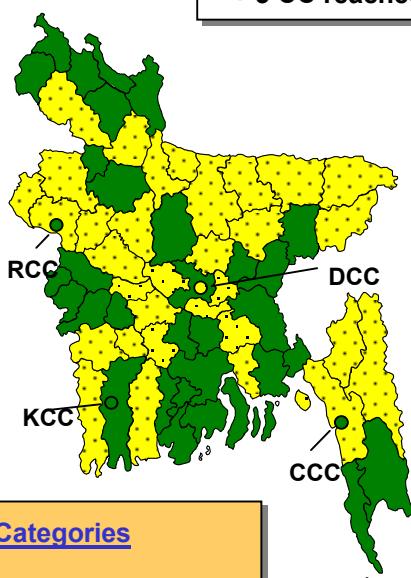
2000 (National: 68%)

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



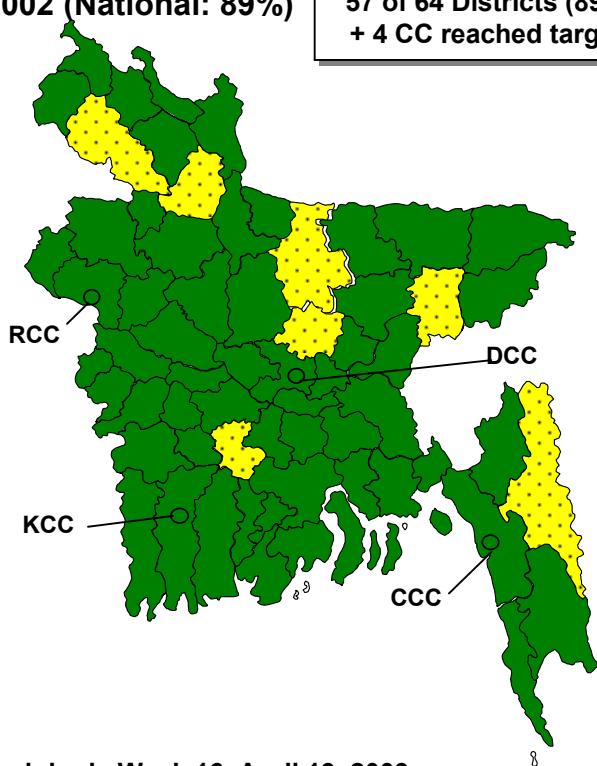
2001 (National: 80%)

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



2002 (National: 89%)

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



Categories

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

*Data as of Epidemiologic Week 16, April 19, 2003