



# EPI Surveillance Bulletin

## Epidemiologic Week 35: August 25 - 31, 2002



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### 1<sup>st</sup> Round of SNIDs : a Success

Dr. Khandker Mosharraf Hossain, the Honorable Minister for Health and Family Welfare, Government of Bangladesh, inaugurated the SNIDs demonstrating the high level of commitment of the government towards polio eradication. Despite tough weather conditions and disruption of normal transport due to floods in many places, the first round of SNIDs was a big success. According to 1,582 Independent Observer checklists, 96% of children in the targeted areas were vaccinated with OPV: 84% came to the fixed sites and 12% were reached during Child-to-Child search. Still, about 7 lac children were missed.

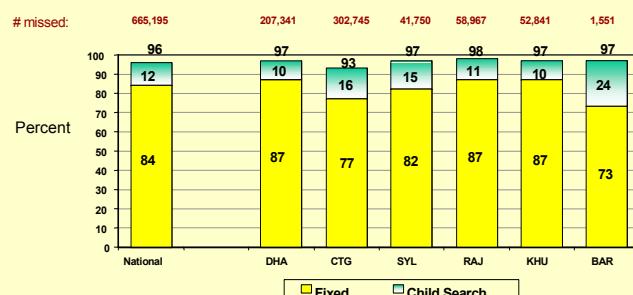
On **22 August 2002**, Bangladesh completed its 2<sup>nd</sup> year of polio free status. To remain polio free, Bangladesh must ensure optimal quality in the 2<sup>nd</sup> round of SNIDs (or "Special NIDs" as appropriately mentioned by many managers), and both rounds of the 11<sup>th</sup> NIDs, scheduled for 18 January and 1 March 2003.

Bangladesh remains at risk of importation of wild poliovirus from India. As of 3 September, 344 wild poliovirus cases have been identified in India during 2002, more than 5 fold higher in comparison to the same period last year. Of these 344 cases, 12 are from Murshidabad and Birbhum, two districts of West Bengal, very near to our bordering district of Chapai Nawabganj. EPI HQ has reviewed data on migration patterns of children under 15 years of age crossing land border check posts between Bangladesh and West Bengal: it appears that children travel to all parts of Bangladesh from India.

In addition to ensuring that all children below 5 years of age receive OPV during the next rounds of SNIDs and NIDs, AFP surveillance should be further strengthened in every upazila and union, so that every child under 15 years of age with acute onset of floppy paralysis is immediately reported to ensure collection of 2 stool samples within 14 days of paralysis onset. These two strategies, together with strengthening of routine EPI, will ensure that Bangladesh remains polio free forever.

**Shishu Shishu Proti Shishu Khuje Fero Proti Shishu!**

Fixed Site and C - C Search Coverage during 1<sup>st</sup> Round of SNIDs, by Division, Bangladesh, 2002



Source: Independent Observer Checklists

### Surveillance Summary for 1998-2002 (through Epidemiologic Week 35, August 25 – 31, 2002)

	1998	1999	2000	2001	2002*
Number of AFP cases	475	761	1138	1288	931
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	1252	780
No. of cases pending classification	0	0	0	0	151
Expected annual number of non-polio AFP cases (1/1,00,000 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	≥ 1/100000	0.33	0.87	1.82	2.35	2.34**
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%	95%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	59%	49%	68%	80%	88%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	88%	81%	92%	97%	97%
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)	≥ 80%	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%	83%***
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100%****
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	32%

\* Data as of August 31, 2002; \*\*NPAFP rate annualized for cases according to June 30 2002; \*\*\* among cases occurring up to May 23, 2002; \*\*\*\* as of August 3, 2002

**AFP Surveillance Performance Indicators -- 2002**

Epiweek 35, 2002

District	# Expected non-polio AFP	Total # AFP1	Wild polio-virus isolated	# Compatible cases	Non-Polio AFP cases <sup>1</sup>	Pending final classif. <sup>1</sup>	Anualized Non-polio AFP Rate <sup>2</sup> (/1,00,000)	Notification within 10 d after paralysis onset <sup>1</sup>	Investigation within 48 h after notification <sup>1</sup>	% with 2 stools within 14 days <sup>1</sup>	Stool sample arriving to lab within 72 hrs <sup>1</sup>	# eligible for 60-day follow-up <sup>3</sup>	% with 60-day follow-up <sup>3</sup>	
<b>Dhaka Division</b>														
DCC only	29	42		38	4	2.00	93%	100%	98%	100%	2	100%		
Dhaka (non DCC)	12	17		16	1	2.67	100%	94%	100%	82%	0	NA		
Faridpur	7	9		6	3	1.43	89%	88%	89%	100%	1	100%		
Gazipur	8	6		5	1	1.00	83%	100%	83%	100%	0	NA		
Gopalganj	5	4		3	1	0.80	67%	100%	75%	75%	0	NA		
Jamalpur	9	19		17	2	3.33	90%	95%	90%	95%	3	100%		
Kishoreganj	12	34		28	6	4.17	88%	94%	82%	100%	4	75%		
Madaripur	5	9		7	2	1.20	89%	89%	89%	89%	0	NA		
Manikganj	6	9		8	1	2.67	100%	100%	89%	100%	0	NA		
Munshiganj	6	11		9	2	2.67	100%	91%	91%	100%	1	100%		
Mymensingh	20	29		22	7	1.90	86%	93%	76%	100%	7	86%		
Narayanganj	9	12		10	2	1.78	75%	100%	75%	100%	3	100%		
Narsinghdi	8	21		19	2	4.50	95%	95%	95%	95%	1	100%		
Netrokona	9	14		13	1	2.67	100%	100%	93%	100%	0	NA		
Rajbari	4	11		10	1	4.50	100%	91%	100%	100%	0	NA		
Shariatpur	5	4		4	0	1.60	100%	100%	100%	100%	0	NA		
Sherpur	6	6		6	0	1.67	100%	100%	100%	100%	0	NA		
Tangail	15	23		16	7	1.60	83%	100%	87%	100%	1	0%		
<b>Total-DHAKA</b>	<b>175</b>	<b>280</b>	<b>0</b>	<b>237</b>	<b>43</b>	<b>2.31</b>	<b>91%</b>	<b>96%</b>	<b>89%</b>	<b>98%</b>	<b>23</b>	<b>87%</b>		
<b>CTG Division</b>														
CCC only	9	8		7	1	1.33	88%	100%	88%	100%	1	100%		
Chittagong (non CCC)	19	39		33	6	3.05	100%	97%	95%	97%	2	50%		
Bandarban	1	0		0	0	0.00	NA	NA	NA	NA	NA	NA		
Brahmanbaria	11	19		17	2	2.73	79%	95%	79%	90%	4	100%		
Chandpur	10	13		10	3	1.60	77%	92%	77%	100%	2	100%		
Comilla	21	69		61	8	3.43	91%	96%	94%	94%	3	100%		
Cox's Bazar	7	13		12	1	3.14	92%	100%	92%	100%	1	100%		
Feni	6	16		16	0	5.00	100%	94%	100%	94%	0	NA		
Khagrachari	2	8		7	1	5.00	100%	88%	100%	88%	0	NA		
Laxmipur	7	10		9	1	1.43	80%	100%	90%	100%	1	100%		
Noakhali	11	21		17	4	2.36	86%	95%	86%	100%	3	67%		
Rangamati	2	5		5	0	4.00	60%	80%	60%	80%	2	100%		
<b>Total-CTG</b>	<b>106</b>	<b>221</b>	<b>0</b>	<b>194</b>	<b>27</b>	<b>2.77</b>	<b>90%</b>	<b>96%</b>	<b>91%</b>	<b>95%</b>	<b>19</b>	<b>90%</b>		
<b>Sylhet Division</b>														
Sylhet	11	12		10	2	1.64	83%	100%	83%	100%	2	100%		
Habiganj	8	6		4	2	0.50	67%	100%	67%	100%	1	100%		
Maulvibazar	7	16		11	5	3.14	100%	94%	94%	100%	2	50%		
Sunamganj	9	11		10	1	1.56	82%	100%	91%	100%	0	NA		
<b>Total-SYL</b>	<b>35</b>	<b>45</b>	<b>0</b>	<b>35</b>	<b>10</b>	<b>1.66</b>	<b>87%</b>	<b>98%</b>	<b>87%</b>	<b>100%</b>	<b>5</b>	<b>80%</b>		
<b>Raj Division</b>														
RCC only	1	5		4	1	8.00	100%	100%	80%	100%	0	NA		
Rajshahi (non RCC)	9	10		8	2	1.56	80%	90%	100%	100%	0	NA		
Bogra	14	25		21	4	2.57	92%	92%	88%	88%	3	67%		
Dinajpur	11	10		5	5	0.73	70%	100%	60%	100%	3	67%		
Gaibandha	10	14		10	4	2.00	79%	85%	64%	100%	3	67%		
Joypurhat	4	6		5	1	2.50	100%	100%	100%	100%	0	NA		
Kurigram	8	12		10	2	1.75	91%	92%	92%	100%	1	100%		
Lalmonirhat	5	10		8	2	3.20	70%	100%	80%	100%	2	100%		
Naogaon	11	15		13	2	1.45	93%	93%	87%	100%	1	0%		
Natore	7	5		4	1	1.14	75%	100%	80%	100%	1	100%		
Nawabganj	6	8		7	1	2.33	88%	88%	75%	100%	2	0%		
Nilphamari	7	7		6	1	1.71	100%	100%	86%	100%	1	100%		
Pabna	10	20		13	7	2.40	80%	85%	75%	100%	4	0%		
Panchagarh	3	5		4	1	2.67	100%	80%	100%	100%	0	NA		
Rangpur	11	14		11	3	1.82	69%	92%	71%	100%	4	100%		
Sirajganj	11	24		19	5	2.73	83%	100%	88%	96%	1	100%		
Thakurgaon	5	9		9	0	3.60	78%	100%	89%	100%	1	100%		
<b>Total-RAJ</b>	<b>133</b>	<b>199</b>	<b>0</b>	<b>157</b>	<b>42</b>	<b>2.08</b>	<b>84%</b>	<b>93%</b>	<b>82%</b>	<b>98%</b>	<b>27</b>	<b>70%</b>		
<b>Khulna Division</b>														
KCC only	3	10		8	2	3.33	100%	100%	90%	89%	0	NA		
Khulna (non KCC)	7	17		13	4	3.14	81%	94%	77%	100%	2	100%		
Bagerhat	7	7		4	3	1.14	86%	100%	86%	86%	2	100%		
Chuadanga	4	5		5	0	2.50	80%	100%	100%	100%	0	NA		
Jessore	11	11		8	3	1.45	100%	100%	82%	100%	1	100%		
Jhenaidah	7	7		7	0	2.00	86%	86%	100%	100%	0	NA		
Kushtia	8	10		10	0	2.00	100%	100%	100%	100%	0	NA		
Magura	4	6		6	0	3.00	83%	100%	83%	100%	1	100%		
Meherpur	2	4		4	0	2.00	100%	100%	100%	100%	0	NA		
Narail	3	6		5	1	3.33	83%	83%	83%	83%	1	100%		
Satkhira	8	11		10	1	2.00	91%	91%	91%	91%	1	100%		
<b>Total-KHU</b>	<b>64</b>	<b>94</b>	<b>0</b>	<b>80</b>	<b>14</b>	<b>2.16</b>	<b>90%</b>	<b>96%</b>	<b>88%</b>	<b>96%</b>	<b>8</b>	<b>100%</b>		
<b>Barisal Division</b>														
Barisal	11	17		12	5	1.64	65%	94%	77%	100%	3	67%		
Barguna	4	18		16	2	6.00	94%	89%	100%	100%	0	NA		
Bhola	7	6		6	0	0.86	100%	100%	100%	100%	0	NA		
Jhalakhati	3	16		15	1	6.00	100%	100%	100%	100%	1	100%		
Patuakhali	6	12		9	3	2.67	92%	100%	92%	100%	1	100%		
Pirojpur	5	23		19	4	6.80	96%	96%	96%	100%	0	NA		
<b>Total_BAR</b>	<b>36</b>	<b>92</b>	<b>0</b>	<b>77</b>	<b>15</b>	<b>3.22</b>	<b>90%</b>	<b>96%</b>	<b>94%</b>	<b>100%</b>	<b>5</b>	<b>80%</b>		
<b>National</b>	<b>549</b>	<b>931</b>	<b>0</b>	<b>780</b>	<b>151</b>	<b>2.34</b>	<b>89%</b>	<b>95%</b>	<b>88%</b>	<b>97%</b>	<b>87</b>	<b>83%</b>		

<sup>1</sup> Data as of Epidemiologic Week 35, August 31, 2002

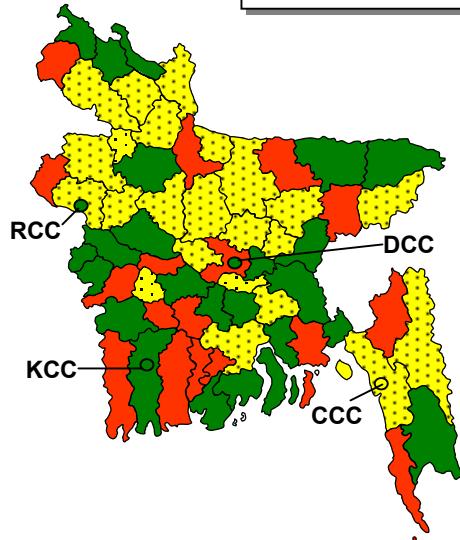
<sup>2</sup> Non-polio AFP rate is annualized for cases occurring up to June 30, 2002

<sup>3</sup> 60-day follow-up among cases without 2 adequate stool samples occurring up to May 23, 2002

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

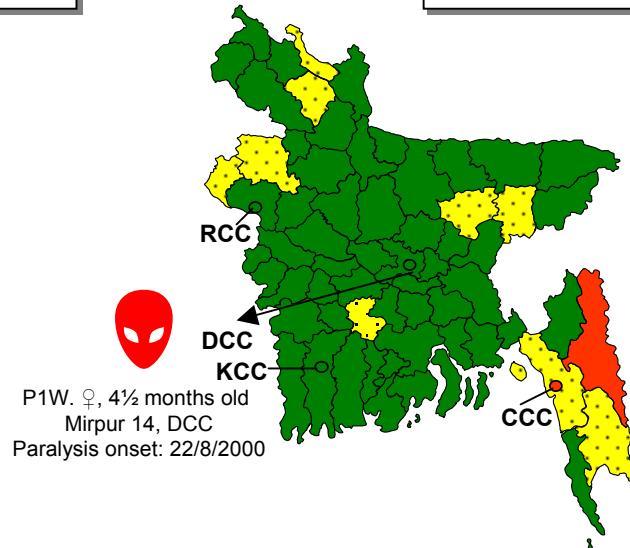
1999 (National: 0.87)

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



2000 (National: 1.82)

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

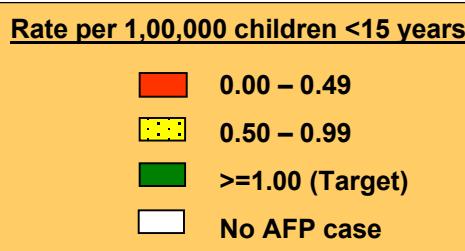
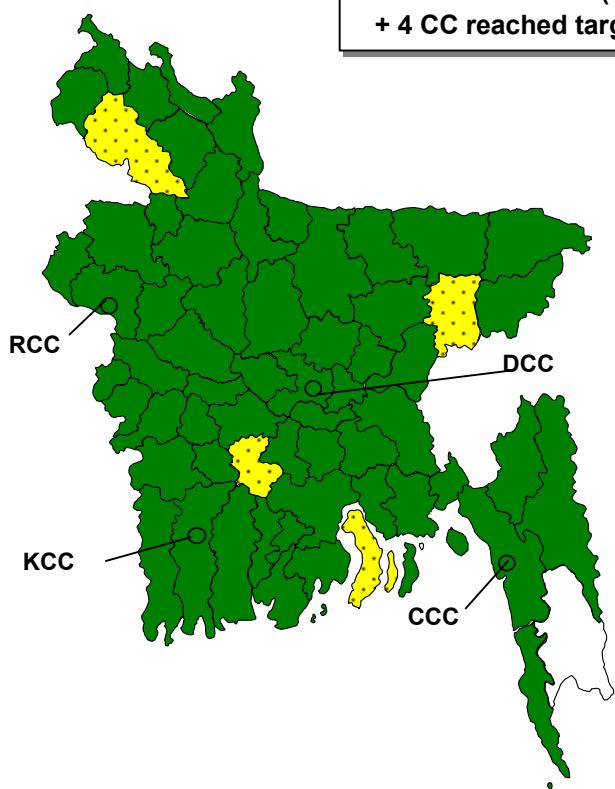
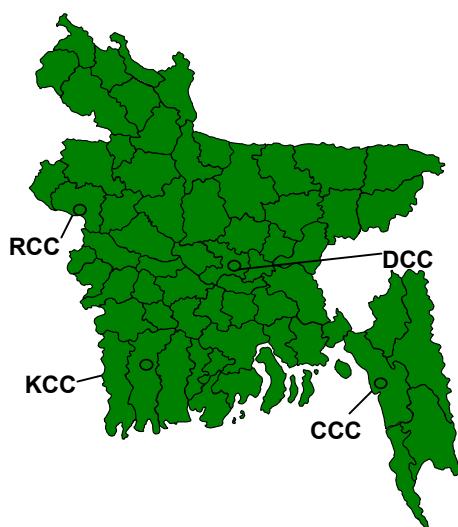


2001 (National: 2.35)

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

2002 (National: 2.34\*)

60 of 64 Districts (94%)  
+ 4 CC reached target.

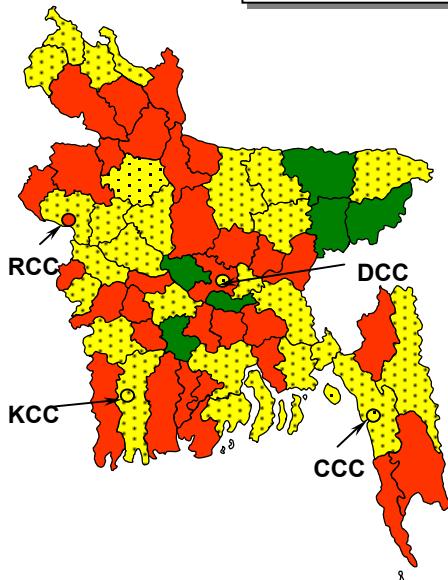


\*Non-Polio AFP rate annualized for cases occurring up to June 30, 2002

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

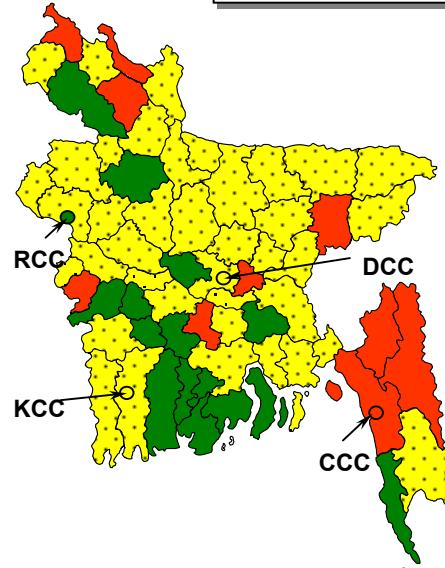
1999 (National: 49%)

6 of 64 Districts (9%) reached target.



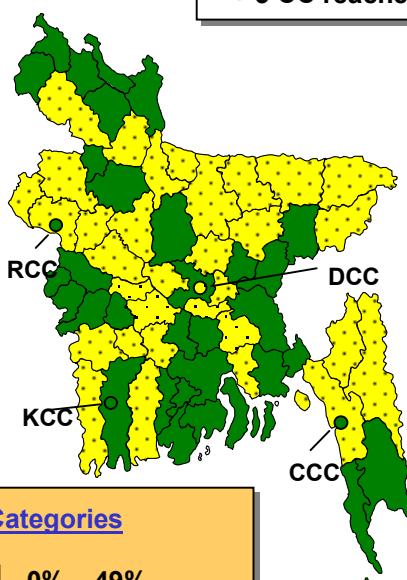
2000 (National: 68%)

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



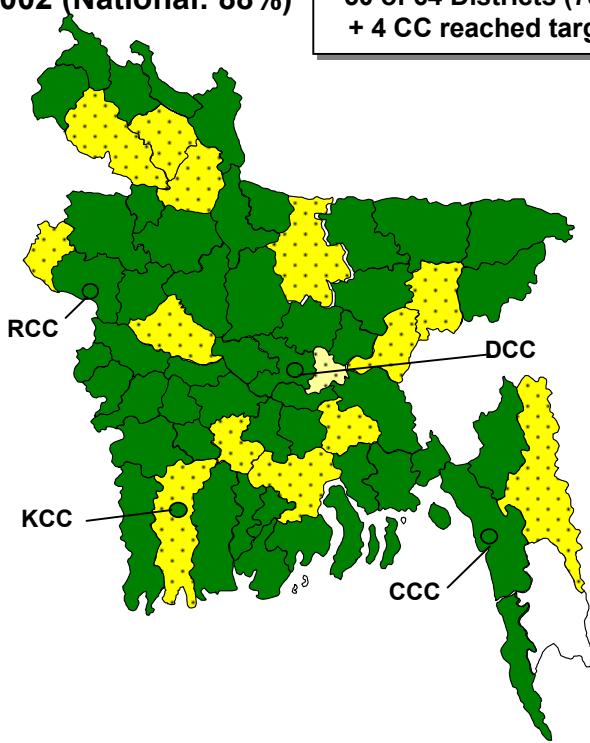
2001 (National: 80%)

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



2002 (National: 88%)

50 of 64 Districts (78%) + 4 CC reached target.



## Categories

- 0% - 49%
- 50% - 79%
- >=80% (Target)
- No AFP case

\*Data as of Epidemiologic Week 35, August 31, 2002