



# EPI Surveillance Bulletin

Epidemiologic Week 06: February 01 - 07, 2004



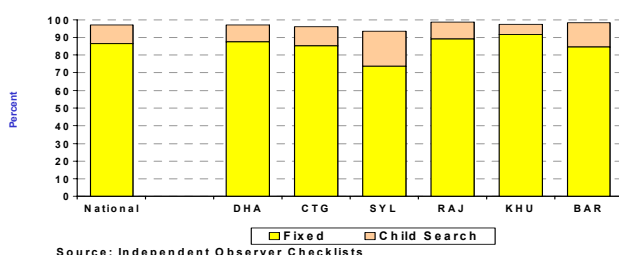
Feb 2004

Vol. 7 No. 2

## High Coverage Achieved in 1st Round of 12th NIDs

Preliminary evaluation of performance of the 1<sup>st</sup> round of the Intensified 12<sup>th</sup> NIDs was done at the National NID Review Meeting in Dhaka on 7 February 2004. The findings of the 12<sup>th</sup> 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 2,540 areas in all 64 districts and evaluated 18,658 children after the Child Search was completed. They also visited 2,151 fixed sites on the Day of the NID. According to Independent Observer Checklist findings, 96.9% of children were vaccinated with OPV during the

**Fixed Site and C-C Search Coverage, 12<sup>th</sup> NIDs 1<sup>st</sup> Round, by Division, Bangladesh, 2004**



Source: Independent Observer Checklists

1<sup>st</sup> round of the 12<sup>th</sup> NIDs: 86.4% at fixed sites and 10.5% during child-to-child search. Some 3.1% of the children were missed, which represents an estimated 682,000 children. This coverage was one of the highest ever; only the coverage in the 1<sup>st</sup> round of 9<sup>th</sup> NIDs was slightly better, 98%. 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 0.2% of sites, compared to 1% in 11<sup>th</sup> NIDs, 3% in the SNIDs and 7% in 10<sup>th</sup> NIDs. Effectiveness of child-to-child search to vaccinate the left outs during fixed sites had also increased from 67% in 11<sup>th</sup> NIDs to 77% this time.

One major concern for the 2<sup>nd</sup> round is that Vitamin A will be provided to children 12-59 months of age at the fixed sites and the volunteers may need fresh orientation for this. One volunteer in each fixed site should be designated as 'Vitamin A Provider'. To sustain the high coverage in the upcoming 2<sup>nd</sup> round (February 29-March 4), local initiatives must be taken to address the following: better supervision and monitoring of vaccinators and 1<sup>st</sup> 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 proper method of providing Vitamin A to the children 12-59 months of age after administration of OPV.

Another concern is a Holiday on 2 March, scheduled as 2<sup>nd</sup> day of child search. EPI recognizes the importance of Holy Ashura and at the same time thinks that it is befitting to mark such a day by working for a noble cause, like protecting the innocent children. EPI urges all its workers and NID volunteers to continue the child search on 2 March. The workers may take a day off in the following week on which no routine EPI is scheduled.

We are proud to announce that Dr. Khandaker Mosharraf Hossain, Honorable Minister, Ministry of Health and Family Welfare, has recently been elected member of the GAVI Board for 2004-2006 as a representative of the developing countries in recognition to his valuable contribution for the children of Bangladesh. This is a great honor for Bangladesh. We like to express our heart-felt congratulations to the Honorable Minister on this occasion and thank him for his high level of commitment for the cause of children of this country.



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

## Surveillance Summary for 1998-2003 (through Epidemiologic Week 06, February 01 - 07, 2004)

	1998	1999	2000	2001	2002	2003 <sup>1</sup>
No. of discarded polio cases (i.e., non-polio AFP)	475	761	1138	1287	1365	1126
No. of cases pending classification	298	322	197	NA	NA	NA
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)	NA	NA	NA	36	0	0
	10	29	1	0	0	0
	165	439	941	1251	1365	1119
	0	0	0	0	0	7
	495	505	515	533	549	556

### 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	2.49	2.07 <sup>2</sup>
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%	98%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	59%	49%	68%	80%	89%	90%
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%	99%	98% <sup>3</sup>
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100%	100% <sup>4</sup>
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	28%	23%

<sup>1</sup> Data as of Feb 7, 2004; <sup>2</sup> NPAFP rate annualized for cases according to Dec 8, 2003; <sup>3</sup> among cases with inadequate stools occurring up to Nov 8, 2003; <sup>4</sup> as of Jan 9, 2004

Please provide your feedback and comments to Dr. Sunil Kumar Das, DPM-EPI or Dr. Md. Lutfur Rahman, Program Manager,

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Chief Advisor to the Editorial Board: Dr. Mohd. Mahbubur Rahman, Director PHC & Line Director ESP, DGHS, Mohakhali Dhaka.

## AFP Surveillance Performance Indicators -- 2003

Epiweek 06, 2004

District	# Expected non-polio AFP	Total # AFP <sup>1</sup>	Wild polio-virus isolated	Compatible cases	Non-Polio AFP cases <sup>1</sup>	Pending final classif. <sup>1</sup>	Annualized 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	37	38			37	1	1.06	79%	97%	87%	100%	5	80%
Dhaka (non DCC)	14	26			26	0	1.90	92%	100%	89%	100%	3	100%
Faridpur	8	32			32	0	4.11	94%	100%	94%	100%	3	100%
Gazipur	9	16			14	2	1.65	69%	100%	75%	100%	3	100%
Gopalganj	5	21			21	0	4.46	95%	100%	95%	100%	1	100%
Jamalpur	9	18			18	0	2.12	72%	94%	83%	100%	5	100%
Kishoreganj	11	38			38	0	3.47	95%	97%	95%	100%	2	100%
Madaripur	5	18			18	0	3.82	83%	100%	89%	100%	2	100%
Manikganj	6	15			15	0	2.65	73%	100%	80%	100%	3	100%
Munshiganj	6	26			26	0	4.42	100%	96%	96%	96%	1	100%
Mymensingh	19	22			22	0	1.23	68%	96%	82%	100%	4	100%
Narayanganj	9	14			14	0	1.41	86%	100%	86%	100%	2	100%
Narsingdhi	8	15			14	1	1.86	87%	100%	93%	100%	0	NA
Netrokona	8	15			15	0	1.99	67%	87%	87%	100%	2	100%
Rajbari	4	10			10	0	2.39	70%	100%	80%	100%	2	100%
Shariatpur	5	26			26	0	5.09	89%	100%	89%	96%	4	100%
Sherpur	5	11			11	0	2.33	91%	100%	100%	100%	0	NA
Tangail	14	32			32	0	2.43	88%	100%	91%	100%	4	100%
<b>Total-DHAKA</b>	<b>182</b>	<b>393</b>	<b>0</b>	<b>0</b>	<b>389</b>	<b>4</b>	<b>2.21</b>	<b>85%</b>	<b>98%</b>	<b>89%</b>	<b>100%</b>	<b>46</b>	<b>98%</b>
<b>CTG Division</b>													
CCC only	12	8			8	0	0.71	100%	100%	100%	100%	0	NA
Chittagong (non CCC)	20	32			32	0	1.70	91%	97%	84%	100%	6	100%
Bandarban	1	0			0	0	0.00	NA	NA	NA	NA	0	NA
Brahmanbaria	10	11			11	0	1.17	91%	82%	64%	100%	4	75%
Chandpur	10	24			24	0	2.55	92%	96%	96%	96%	1	100%
Comilla	20	47			47	0	2.33	94%	98%	98%	98%	1	100%
Cox's Bazar	8	18			18	0	2.12	89%	100%	94%	100%	2	100%
Feni	5	10			10	0	2.12	100%	100%	100%	100%	1	100%
Khagrachari	2	7			7	0	3.71	57%	71%	57%	86%	3	100%
Laxmipur	6	16			16	0	2.65	94%	100%	88%	100%	3	100%
Noakhali	11	21			20	1	1.64	86%	95%	91%	100%	1	100%
Rangamati	2	6			6	0	3.18	83%	83%	100%	100%	0	NA
<b>Total-CTG</b>	<b>107</b>	<b>200</b>	<b>0</b>	<b>0</b>	<b>199</b>	<b>1</b>	<b>1.88</b>	<b>91%</b>	<b>96%</b>	<b>91%</b>	<b>99%</b>	<b>22</b>	<b>96%</b>
<b>Sylhet Division</b>													
SCC	1	2			2	0	1.06	100%	100%	100%	100%	0	NA
Sylhet (non SCC)	10	15			15	0	1.59	100%	100%	93%	100%	0	NA
Habiganj	8	8			8	0	1.06	75%	88%	75%	100%	1	100%
Maulvibazar	7	10			10	0	1.52	90%	90%	90%	100%	1	0%
Sunamganj	9	14			14	0	1.53	93%	100%	86%	100%	2	100%
<b>Total-SYL</b>	<b>35</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>1.43</b>	<b>92%</b>	<b>96%</b>	<b>88%</b>	<b>100%</b>	<b>4</b>	<b>75%</b>
<b>Raj Division</b>													
RCC only	2	3			3	0	1.59	67%	100%	100%	100%	0	NA
Rajshahi (non RCC)	8	11			11	0	1.46	91%	100%	73%	90%	4	100%
Bogra	13	21			21	0	1.63	100%	100%	100%	100%	0	NA
Dinajpur	11	21			21	0	1.93	86%	100%	95%	100%	1	100%
Gaibandha	9	21			21	0	2.24	91%	95%	81%	95%	6	100%
Joypurhat	4	12			12	0	3.18	83%	100%	75%	100%	3	100%
Kurigram	8	17			17	0	2.26	88%	100%	77%	100%	4	100%
Lalmonirhat	5	7			7	0	1.49	86%	100%	86%	100%	1	100%
Natore	7	8			8	0	1.21	100%	100%	100%	100%	0	NA
Nilphamari	7	13			13	0	1.97	77%	100%	85%	100%	2	100%
Noagoan	10	24			24	0	2.55	96%	100%	92%	100%	3	100%
Nowabganj	6	5			5	0	0.71	100%	100%	80%	100%	0	NA
Pabna	9	18			17	1	2.00	89%	100%	83%	94%	3	100%
Panchagarh	4	13			13	0	3.45	85%	100%	85%	100%	2	100%
Rangpur	11	12			12	0	1.16	82%	100%	83%	100%	4	100%
Sirajganj	12	17			17	0	1.50	94%	100%	94%	100%	1	100%
Thakurgaon	5	17			17	0	3.61	88%	94%	82%	100%	3	100%
<b>Total-RAJ</b>	<b>131</b>	<b>240</b>	<b>0</b>	<b>0</b>	<b>239</b>	<b>1</b>	<b>1.90</b>	<b>90%</b>	<b>99%</b>	<b>87%</b>	<b>99%</b>	<b>37</b>	<b>100%</b>
<b>Khulna Division</b>													
KCC only	5	3			3	0	0.64	100%	100%	100%	100%	0	NA
Khulna (non KCC)	7	10			10	0	1.52	80%	100%	80%	100%	2	100%
Bagerhat	7	9			9	0	1.21	89%	100%	89%	100%	2	100%
Chuadanga	4	9			9	0	2.39	89%	100%	100%	100%	0	NA
Jessore	11	13			13	0	1.25	83%	92%	77%	100%	3	100%
Jhenaidah	7	10			10	0	1.52	100%	100%	100%	100%	0	NA
Kustia	7	15			15	0	2.27	87%	100%	100%	100%	1	100%
Magura	4	8			8	0	1.59	100%	100%	100%	100%	0	NA
Meherpur	3	3			3	0	1.06	100%	100%	100%	100%	0	NA
Narail	3	4			4	0	1.06	100%	100%	100%	100%	0	NA
Satkhira	8	10			10	0	1.33	70%	100%	90%	100%	1	100%
<b>Total-KHU</b>	<b>66</b>	<b>94</b>	<b>0</b>	<b>0</b>	<b>94</b>	<b>0</b>	<b>1.45</b>	<b>88%</b>	<b>99%</b>	<b>93%</b>	<b>100%</b>	<b>9</b>	<b>100%</b>
<b>Barisal Division</b>													
BCC	1	3			3	0	3.18	100%	100%	100%	100%	0	NA
Barisal (non BCC)	9	26			26	0	2.95	85%	92%	89%	100%	2	100%
Barguna	4	24			24	0	6.37	100%	100%	100%	100%	0	NA
Bhola	7	24			24	0	3.64	83%	100%	88%	100%	3	100%
Jhalakhati	3	19			19	0	6.72	95%	95%	100%	100%	0	NA
Patuakhali	6	22			22	0	3.89	86%	100%	86%	96%	4	100%
Pirojpur	5	32			31	1	6.37	97%	97%	97%	100%	0	NA
<b>Total BAR</b>	<b>35</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>149</b>	<b>1</b>	<b>4.46</b>	<b>91%</b>	<b>97%</b>	<b>93%</b>	<b>99%</b>	<b>9</b>	<b>100%</b>
<b>National</b>	<b>556</b>	<b>1126</b>	<b>0</b>	<b>0</b>	<b>1119</b>	<b>7</b>	<b>2.07</b>	<b>88%</b>	<b>98%</b>	<b>90%</b>	<b>99%</b>	<b>127</b>	<b>98%</b>

<sup>1</sup>Data as of Epidemiologic Week 06, Feb 07, 2004; <sup>2</sup> Non-Polio AFP rate is annualized for cases occurring up to Dec 08, 2003; <sup>3</sup> among cases with inadequate stools occurring up to Nov 8, 2003

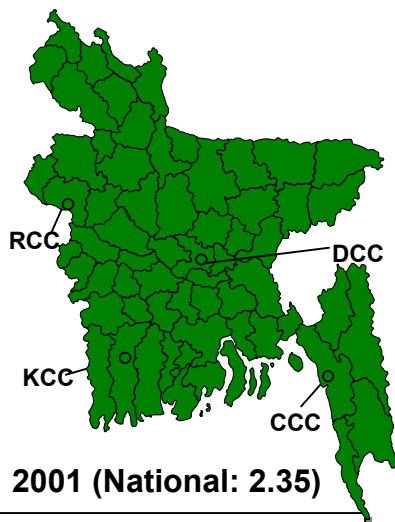
## Disease Surveillance -- 2003

Epiweek 06, 2004

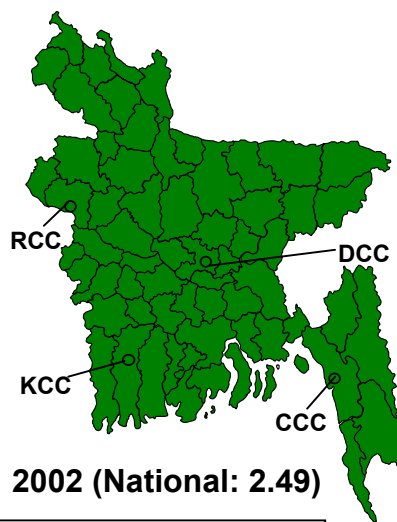
District	Neonatal Tetanus			Measles			AEFI
	Total Reported by Active Surveillance	Total reported by Passive Surveillance	Total Case Investigated	Total Reported by Surveillance	Total Reported by EPI 6 Disease Surveillance	Number of Outbreak* (% Investigated)	
<b>Dhaka Division</b>							
DCC only	12	0	7	520	0		0
Dhaka (non DCC)	3	0	4	42	48		0
Faridpur	9	11	6	76	26	1 (100%)	1
Gazipur	2	0	2	32	9		10
Gopalganj	11	11	12	39	29		12
Jamalpur	4	1	4	102	196		13
Kishoreganj	18	19	23	163	162		22
Madaripur	2	2	3	4	3		4
Manikganj	3	1	1	10	325		0
Munshiganj	3	0	2	15	4		0
Mymensingh	21	10	26	107	3	1 (100%)	3
Narayanganj	2	0	0	15	2		0
Narsingdhi	6	1	4	43	61		5
Netrokona	6	8	5	63	56		8
Rajbari	2	2	0	4	68		0
Shariatpur	1	0	1	10	4		8
Sherpur	14	9	15	14	98		5
Tangail	2	0	2	95	217		12
<b>Total-DHAKA</b>	<b>121</b>	<b>75</b>	<b>117</b>	<b>1354</b>	<b>1311</b>	<b>2 (100%)</b>	<b>103</b>
<b>CTG Division</b>							
CCC only	0	0	0	22	0		0
Chittagong (non CCC)	4	1	5	41	31		2
Bandarban	0	0	0	43	223	1 (100%)	0
Brahmanbaria	22	32	18	30	18		19
Chandpur	1	1	1	24	10		23
Comilla	6	2	2	150	74		0
Cox's Bazar	5	3	3	73	109		9
Feni	4	4	2	25	114		8
Khagrachari	2	2	1	7	74		0
Laxmipur	9	12	9	99	2		10
Noakhali	5	7	5	61	39		1
Rangamati	1	0	0	11	15		0
<b>Total-CTG</b>	<b>59</b>	<b>64</b>	<b>46</b>	<b>586</b>	<b>709</b>	<b>1 (100%)</b>	<b>72</b>
<b>Sylhet Division</b>							
SCC	0	0	0	2	0		0
Sylhet (non SCC)	5	2	4	118	2		0
Habiganj	19	23	8	41	25	1 (100%)	26
Maulvibazar	12	13	2	48	29		0
Sunamganj	27	23	33	111	68		28
<b>Total-SYL</b>	<b>63</b>	<b>61</b>	<b>47</b>	<b>320</b>	<b>124</b>	<b>1 (100%)</b>	<b>54</b>
<b>Raj Division</b>							
RCC only	2	3	0	7	0		2
Rajshahi (non RCC)	4	4	2	11	6		1
Bogra	3	1	3	5	0		2
Dinajpur	3	5	5	29	21		17
Gaibandha	2	7	14	194	187	6 (100%)	3
Joypurhat	0	0	0	24	2		7
Kurigram	0	1	0	142	32	1 (100%)	0
Lalmonirhat	0	0	0	29	0		0
Natore	10	12	9	8	0		4
Nilphamari	1	2	1	25	21		1
Noagoan	1	3	4	28	17		2
Nowabganj	6	8	10	247	188	2 (100%)	1
Pabna	5	5	4	83	60		17
Panchagarh	0	0	0	21	2		2
Rangpur	7	6	8	41	44		0
Sirajganj	4	4	4	9	72		0
Thakurgaon	2	1	1	28	46		1
<b>Total-RAJ</b>	<b>50</b>	<b>62</b>	<b>65</b>	<b>931</b>	<b>698</b>	<b>9 (100%)</b>	<b>60</b>
<b>Khulna Division</b>							
KCC only	1	0	1	6	0		4
Khulna (non KCC)	8	8	5	15	110		3
Bagerhat	6	6	7	89	45		4
Chuadanga	7	5	13	48	52		5
Jessore	19	13	9	42	75		35
Jhenaidah	8	7	11	14	21		6
Kushtia	8	9	17	18	40		20
Magura	9	9	12	46	45		7
Meherpur	4	3	6	33	28		2
Narail	10	9	14	13	23		12
Satkhira	7	4	5	27	32		14
<b>Total-KHU</b>	<b>87</b>	<b>73</b>	<b>100</b>	<b>351</b>	<b>471</b>	<b>0</b>	<b>112</b>
<b>Barisal Division</b>							
BCC	0	0	0	6	0		0
Barisal (non BCC)	2	0	0	172	130	1 (100%)	1
Barguna	1	1	1	91	50		3
Bhola	0	1	2	67	41		1
Jhalakhati	3	2	3	40	5		2
Patuakhali	1	4	3	138	103	2 (100%)	3
Pirojpur	2	1	2	11	10		5
<b>Total BAR</b>	<b>9</b>	<b>9</b>	<b>11</b>	<b>525</b>	<b>339</b>	<b>3 (100%)</b>	<b>15</b>
<b>National</b>	<b>389</b>	<b>344</b>	<b>386</b>	<b>4067</b>	<b>3652</b>	<b>16 (100%)</b>	<b>416</b>

Data as of Epidemiologic Week 06, Feb 07, 2004; \*16 Measles Outbreak were Identified

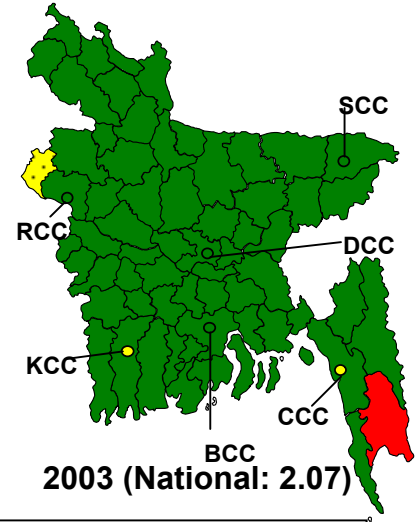
# Non-Polio AFP Rate, by District, Bangladesh 2001-2003\*



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

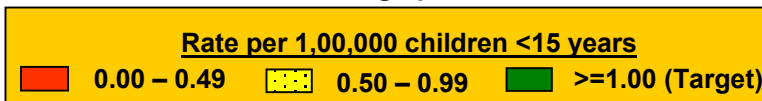


64 of 64 Districts (100%)  
+ 4 CC reached target.

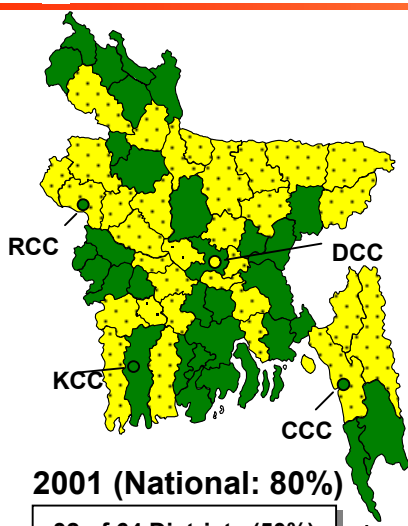


62 of 64 Districts (97%)  
+ 4 of 6 CCs reached target.

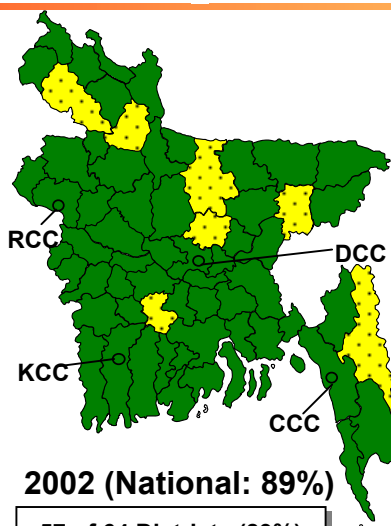
\*Non-polio AFP rate annualized for cases occurring up to December 8, 2003



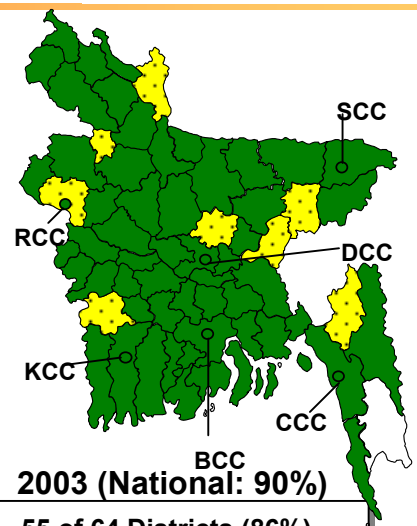
## Percent of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2001-2003\*



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



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



55 of 64 Districts (86%)  
+ 6 CCs reached target.

\*Data as of Epidemiologic Week 06, February 7, 2004

