



# EPI Surveillance Bulletin

## Epidemiologic Week 27: June 30 - July 6, 2002



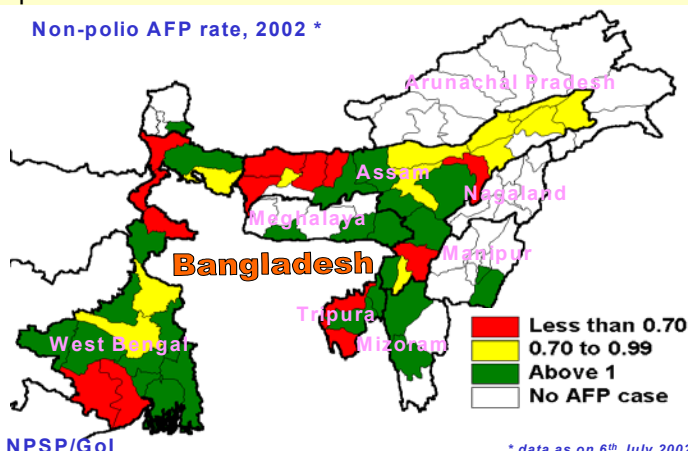
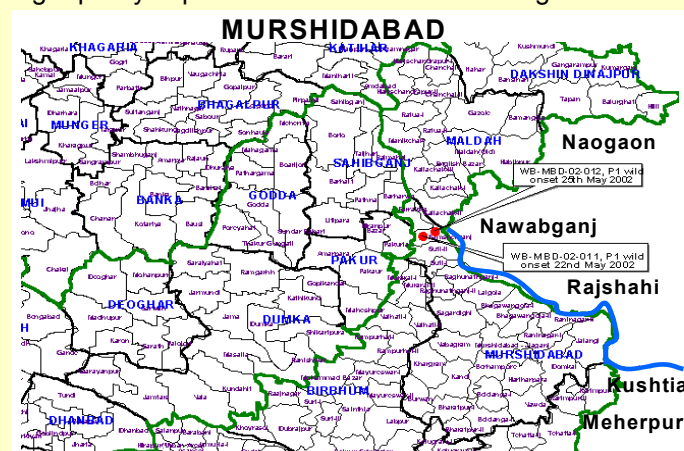
Vol. 5 No. 3

July 2002

### **Wild Poliovirus Identified in West Bengal near Chapai Nawabganj Border!**

On May 22 and 25, 2002, two children in Samsheganj Block, Murshidabad District, West Bengal, India developed Acute Flaccid Paralysis; 5 weeks later, these AFP cases were confirmed as polio with 2 different P1wild poliovirus isolates. The children live in 2 different villages near Dhulian just south of the Farakka barrage. The presence of wild poliovirus circulation so close to the Chapai Nawabganj border is alarming given the frequency of movement back and forth along the Bangladesh-India border. Border districts in Khulna Division are also at risk as Murshidabad District is also adjacent to the northwest portion of Kushtia. The heavy rains and flooding expected in the coming weeks and months will result in even greater movement of people across the border and with them, wild poliovirus. **Bangladesh must prepare itself for the high risk of importation along the entire border:**

1) Border districts must intensify their AFP surveillance activities; 2) BDR officers and nurses should arrange for giving 2 polio drops to any under 5 year children crossing the border into India and record migration patterns; 3) All districts and upazilas participating in the SNIDs must ensure the highest quality preparation and implementation: this includes mapping, micro-planning, orientation, volunteer participation in both fixed site and child-to-child search activities, and high quality supervision in each round on August 10 and September 14.



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

### **Surveillance Summary for 1998-2002 (through Epidemiologic Week 27, June 30–July 6, 2002)**

	1998	1999	2000	2001	2002*
Number of AFP cases	475	761	1138	1291	698
No. of clinically confirmed polio cases	298	322	197	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	NA	0	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	1221	543
No. of cases pending classification	0	0	0	70	155
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	2.29	1.95**
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%	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%	98%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	80%	97%	95%	78%	70%***
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 July 6, 2002; \*\*NPAFP rate annualized for cases according to April 30, 2002; \*\*\* among cases occurring up to March 28, 2002; \*\*\*\* as of June 8, 2002

Please provide your feedback and comments to Dr. Mohd. Mahbubur Rahman, Program Manager, Child Health & Limited Curative Care, EPI Bhaban, Mohakhali, Dhaka 1212 Telephone: 9880530 or 8821910-4

## AFP Surveillance Performance Indicators -- 2001

Epiweek 27, 2002

District	# Expected non-polio AFP	Total # AFP <sup>1</sup>	Wild polio-virus isolated	Non-Polio AFP cases <sup>1</sup>	Pending final classif. <sup>1</sup>	Non-polio AFP Rate <sup>1</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	% with 60-day follow-up
<b>Dhaka Division</b>												
DCC only	27	34		33	1	1.22	85%	100%	74%	100%	9	67%
Dhaka (non DCC)	9	25		23	2	2.56	84%	100%	80%	96%	5	60%
Faridpur	7	26		23	3	3.29	77%	92%	77%	100%	6	83%
Gazipur	8	18		18	0	2.25	72%	94%	72%	100%	5	80%
Gopalganj	5	10		10	0	2.00	70%	90%	70%	90%	3	100%
Jamalpur	9	17		15	2	1.67	71%	100%	53%	100%	8	88%
Kishoreganj	11	14		12	2	1.09	71%	86%	71%	93%	4	50%
Madaripur	5	12		12	0	2.40	92%	92%	92%	92%	1	100%
Manikganj	6	11		9	2	1.50	82%	82%	64%	90%	4	50%
Munshiganj	6	12		12	0	2.00	83%	100%	67%	100%	4	100%
Mymensingh	19	38		36	2	1.89	82%	100%	76%	100%	9	78%
Narayanganj	9	20		20	0	2.22	75%	95%	70%	100%	6	83%
Narsingdhi	8	16		15	1	1.88	94%	94%	88%	100%	3	67%
Netrokona	9	24		23	1	2.56	63%	96%	71%	96%	7	86%
Rajbari	4	8		5	3	1.25	75%	88%	75%	100%	3	67%
Shariatpur	5	9		8	1	1.60	89%	89%	89%	100%	1	100%
Sherpur	6	11		10	1	1.67	55%	100%	73%	100%	3	100%
Tangail	15	32		31	1	2.07	63%	97%	81%	97%	6	100%
<b>Total-DHAKA</b>	<b>168</b>	<b>337</b>	<b>0</b>	<b>315</b>	<b>22</b>	<b>1.88</b>	<b>77%</b>	<b>96%</b>	<b>75%</b>	<b>98%</b>	<b>87</b>	<b>79%</b>
<b>CTG Division</b>												
CCC only	8	23		23	0	2.88	87%	100%	87%	96%	3	33%
Chittagong (non CCC)	18	50		48	2	2.67	70%	96%	70%	100%	15	93%
Bandarban	1	3		3	0	3.00	100%	100%	100%	100%	1	100%
Brahmanbaria	11	26		26	0	2.36	81%	100%	89%	96%	3	100%
Chandpur	10	24		22	2	2.20	71%	96%	79%	96%	5	60%
Comilla	21	44		42	2	2.00	86%	100%	91%	100%	4	100%
Cox's Bazar	7	17		17	0	2.43	77%	100%	82%	94%	3	100%
Feni	6	32		30	2	5.00	90%	88%	88%	97%	5	100%
Khagrachari	2	8		7	1	3.50	75%	75%	63%	88%	3	100%
Laxmipur	7	14		14	0	2.00	64%	86%	79%	86%	3	100%
Noakhali	11	34		34	0	3.09	88%	97%	88%	94%	4	100%
Rangamati	2	9		8	1	4.00	75%	89%	78%	100%	2	100%
<b>Total-CTG</b>	<b>103</b>	<b>284</b>	<b>0</b>	<b>274</b>	<b>10</b>	<b>2.66</b>	<b>80%</b>	<b>95%</b>	<b>83%</b>	<b>97%</b>	<b>51</b>	<b>90%</b>
<b>Sylhet Division</b>												
Sylhet	11	29		22	7	2.00	86%	100%	66%	92%	10	40%
Habiganj	8	16		15	1	1.88	75%	100%	81%	100%	3	100%
Maulvibazar	7	11		10	1	1.43	73%	100%	64%	100%	4	100%
Sunamganj	9	22		22	0	2.44	77%	91%	68%	90%	7	86%
<b>Total-SYL</b>	<b>35</b>	<b>78</b>	<b>0</b>	<b>69</b>	<b>9</b>	<b>1.97</b>	<b>80%</b>	<b>97%</b>	<b>69%</b>	<b>94%</b>	<b>24</b>	<b>71%</b>
<b>Raj Division</b>												
RCC only	1	7		6	1	6.00	86%	100%	86%	100%	1	100%
Rajshahi (non RCC)	8	17		14	3	1.75	77%	88%	65%	82%	6	83%
Bogra	13	49		46	3	3.54	86%	98%	88%	100%	6	67%
Dinajpur	11	19		18	1	1.64	90%	100%	79%	100%	4	50%
Gaibandha	10	16		16	0	1.60	75%	88%	75%	100%	4	75%
Joypurhat	4	17		15	2	3.75	82%	94%	77%	94%	4	75%
Kurigram	8	13		13	0	1.63	100%	92%	92%	92%	1	0%
Lalmonirhat	4	6		6	0	1.50	83%	100%	83%	100%	1	100%
Naogaon	11	17		16	1	1.45	71%	100%	77%	88%	4	50%
Natore	7	15		13	2	1.86	93%	93%	73%	93%	4	50%
Nawabganj	6	10		7	3	1.17	50%	100%	50%	100%	5	60%
Nilphamari	7	18		18	0	2.57	78%	100%	89%	100%	2	50%
Pabna	10	25		24	1	2.40	64%	100%	72%	100%	7	100%
Panchagarh	3	12		12	0	4.00	92%	100%	100%	100%	0	NA
Rangpur	11	20		19	1	1.73	85%	100%	80%	100%	4	75%
Sirajganj	11	33		29	4	2.64	61%	94%	67%	94%	12	83%
Thakurgaon	5	8		7	1	1.40	100%	88%	88%	100%	1	0%
<b>Total-RAJ</b>	<b>130</b>	<b>302</b>	<b>0</b>	<b>279</b>	<b>23</b>	<b>2.15</b>	<b>79%</b>	<b>96%</b>	<b>79%</b>	<b>97%</b>	<b>66</b>	<b>71%</b>
<b>Khulna Division</b>												
KCC only	3	3		3	0	1.00	100%	100%	100%	100%	0	NA
Khulna (non KCC)	7	12		12	0	1.71	83%	83%	92%	100%	1	100%
Bagerhat	7	14		13	1	1.86	79%	93%	64%	85%	5	40%
Chuadanga	4	7		7	0	1.75	86%	100%	100%	100%	0	NA
Jessore	10	28		25	3	2.50	82%	96%	79%	100%	6	50%
Jhenaidah	7	14		14	0	2.00	92%	86%	86%	100%	2	100%
Kushtia	7	13		13	0	1.86	85%	92%	85%	100%	2	100%
Magura	4	13		13	0	3.25	85%	100%	85%	92%	2	100%
Meherpur	2	3		3	0	1.50	100%	100%	100%	100%	0	NA
Narail	3	7		7	0	2.33	57%	86%	57%	100%	3	67%
Satkhira	8	19		18	1	2.25	74%	100%	79%	95%	4	75%
<b>Total-KHU</b>	<b>62</b>	<b>133</b>	<b>0</b>	<b>128</b>	<b>5</b>	<b>2.06</b>	<b>82%</b>	<b>94%</b>	<b>81%</b>	<b>97%</b>	<b>25</b>	<b>68%</b>
<b>Barisal Division</b>												
Barisal	11	28		27	1	2.45	79%	93%	82%	93%	5	60%
Barguna	4	5		5	0	1.25	100%	100%	100%	60%	0	NA
Bhola	7	13		13	0	1.86	77%	92%	92%	85%	1	100%
Jhalakhati	3	41		41	0	13.67	95%	98%	95%	98%	2	100%
Patuakhali	6	11		11	0	1.83	91%	100%	82%	91%	2	100%
Pirojpur	5	59		59	0	11.80	93%	98%	92%	98%	5	80%
<b>Total-BAR</b>	<b>36</b>	<b>157</b>	<b>0</b>	<b>156</b>	<b>1</b>	<b>4.33</b>	<b>90%</b>	<b>97%</b>	<b>90%</b>	<b>94%</b>	<b>15</b>	<b>80%</b>
<b>National</b>	<b>533</b>	<b>1291</b>	<b>0</b>	<b>1221</b>	<b>70</b>	<b>2.29</b>	<b>80%</b>	<b>96%</b>	<b>80%</b>	<b>97%</b>	<b>268</b>	<b>78%</b>

<sup>1</sup> Data as of Epidemiologic Week 27, July 6, 2002

## AFP Surveillance Performance Indicators -- 2002

Epiweek 27, 2002

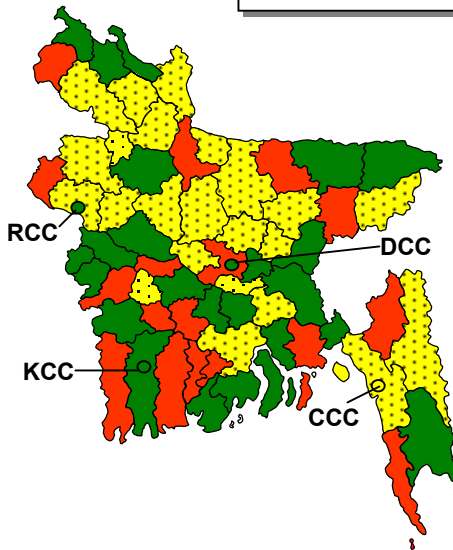
District	# Expected non-polio AFP	Total # AFP <sup>1</sup>	Wild polio-virus isolated	Non-Polio AFP cases <sup>1</sup>	Pending final classif. <sup>1</sup>	Non-polio AFP Rate <sup>1</sup> (/1,00,000)	Annualized Non-polio AFP Rate <sup>2</sup> (/1,00,000)	Notification within 10 d after paralysis onset <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	29	29		25	4	0.86	1.97	100%	100%	97%	100%	2	0%
Dhaka (non DCC)	12	15		11	4	0.92	2.50	100%	93%	100%	80%	0	NA
Faridpur	7	6		4	2	0.57	0.86	83%	80%	83%	100%	1	0%
Gazipur	8	4		3	1	0.38	0.75	100%	100%	100%	100%	0	NA
Gopalganj	5	2		2	0	0.40	0.60	100%	100%	100%	50%	0	NA
Jamalpur	9	16		14	2	1.56	3.33	88%	94%	88%	94%	3	100%
Kishoreganj	12	30		23	7	1.92	4.25	86%	93%	80%	100%	4	75%
Madaripur	5	3		3	0	0.60	0.60	100%	67%	100%	67%	0	NA
Manikganj	6	8		8	0	1.33	1.00	100%	100%	100%	100%	0	NA
Munshiganj	6	9		8	1	1.33	1.50	100%	89%	89%	100%	1	0%
Mymensingh	20	21		17	4	0.85	1.65	91%	95%	76%	100%	6	67%
Narayanganj	9	8		6	2	0.67	1.33	75%	100%	75%	100%	3	67%
Narsingdhi	8	18		17	1	2.13	3.38	94%	94%	94%	94%	1	100%
Netrokona	9	13		10	3	1.11	2.33	100%	100%	92%	100%	0	NA
Rajbari	4	9		7	2	1.75	3.00	89%	89%	89%	100%	0	NA
Shariatpur	5	4		4	0	0.80	2.40	100%	100%	100%	100%	0	NA
Sherpur	6	5		3	2	0.50	0.50	100%	100%	100%	100%	0	NA
Tangail	15	12		8	4	0.53	1.20	92%	100%	92%	100%	0	NA
<b>Total-DHAKA</b>	<b>175</b>	<b>212</b>	<b>0</b>	<b>173</b>	<b>39</b>	<b>0.99</b>	<b>1.94</b>	<b>93%</b>	<b>95%</b>	<b>90%</b>	<b>97%</b>	<b>21</b>	<b>62%</b>
<b>CTG Division</b>													
CCC only	9	7		5	2	0.56	1.67	86%	100%	86%	100%	0	NA
Chittagong (non CCC)	19	31		25	6	1.32	2.37	100%	97%	97%	97%	1	0%
Bandarban	1	0		0	0	0.00	0.00	NA	NA	NA	NA	NA	NA
Brahmanbaria	11	16		10	6	0.91	1.09	75%	94%	75%	88%	0	NA
Chandpur	10	9		6	3	0.60	1.20	78%	89%	78%	100%	2	100%
Comilla	21	35		23	12	1.10	1.00	91%	100%	94%	97%	1	100%
Cox's Bazar	7	12		8	4	1.14	1.71	92%	100%	92%	100%	0	NA
Feni	6	15		12	3	2.00	3.50	100%	93%	100%	93%	0	NA
Khagrachari	2	6		3	3	1.50	1.50	100%	83%	100%	83%	0	NA
Laxmipur	7	6		4	2	0.57	1.29	83%	100%	83%	100%	1	100%
Noakhali	11	15		10	5	0.91	2.18	93%	87%	87%	14%	1	100%
Rangamati	2	4		4	0	2.00	6.00	50%	75%	50%	75%	2	50%
<b>Total-CTG</b>	<b>106</b>	<b>156</b>	<b>0</b>	<b>110</b>	<b>46</b>	<b>1.04</b>	<b>1.75</b>	<b>90%</b>	<b>95%</b>	<b>90%</b>	<b>96%</b>	<b>8</b>	<b>75%</b>
<b>Sylhet Division</b>													
Sylhet	11	11		9	2	0.82	0.82	82%	100%	82%	100%	2	50%
Habiganj	8	3		2	1	0.25	0.75	67%	100%	67%	100%	1	100%
Maulvibazar	7	13		9	4	1.29	3.00	100%	92%	92%	100%	2	50%
Sunamganj	9	7		6	1	0.67	1.00	86%	100%	100%	100%	0	NA
<b>Total-SYL</b>	<b>35</b>	<b>34</b>	<b>0</b>	<b>26</b>	<b>8</b>	<b>0.74</b>	<b>1.29</b>	<b>88%</b>	<b>97%</b>	<b>88%</b>	<b>100%</b>	<b>5</b>	<b>60%</b>
<b>Raj Division</b>													
RCC only	1	4		3	1	3.00	6.00	100%	100%	100%	100%	0	NA
Rajshahi (non RCC)	9	7		7	0	0.78	2.00	71%	100%	100%	100%	0	NA
Bogra	14	22		17	5	1.21	2.57	91%	96%	86%	86%	2	0%
Dinajpur	11	7		2	5	0.18	0.27	71%	100%	57%	100%	2	50%
Gaibandha	10	13		9	4	0.90	2.70	77%	83%	62%	100%	2	100%
Joypurhat	4	6		4	2	1.00	0.75	100%	100%	83%	100%	1	0%
Kurigram	8	8		7	1	0.88	0.75	86%	100%	88%	100%	1	100%
Lalmonirhat	5	8		6	2	1.20	3.60	63%	100%	75%	100%	2	0%
Naogaon	11	8		4	4	0.36	1.09	100%	100%	100%	100%	0	NA
Natore	7	5		4	1	0.57	1.29	75%	100%	80%	100%	0	NA
Nawabganj	6	8		7	1	1.17	2.50	88%	88%	75%	100%	2	100%
Nilphamari	7	6		6	0	0.86	1.71	100%	100%	100%	100%	0	NA
Pabna	10	18		11	7	1.10	1.80	78%	83%	72%	100%	0	NA
Panchagarh	3	4		4	0	1.33	2.00	100%	100%	100%	100%	0	NA
Rangpur	11	11		9	2	0.82	1.64	64%	91%	73%	100%	3	100%
Sirajganj	11	16		14	2	1.27	3.27	81%	100%	88%	94%	1	100%
Thakurgaon	5	9		7	2	1.40	2.40	78%	100%	89%	100%	0	NA
<b>Total-RAJ</b>	<b>133</b>	<b>160</b>	<b>0</b>	<b>121</b>	<b>39</b>	<b>0.91</b>	<b>1.92</b>	<b>82%</b>	<b>95%</b>	<b>82%</b>	<b>98%</b>	<b>16</b>	<b>63%</b>
<b>Khulna Division</b>													
KCC only	3	5		5	0	1.67	3.00	100%	100%	100%	100%	0	NA
Khulna (non KCC)	7	13		11	2	1.57	4.29	83%	92%	77%	100%	1	100%
Bagerhat	7	6		4	2	0.57	0.86	83%	100%	83%	83%	2	100%
Chuadanga	4	5		3	2	0.75	2.25	80%	100%	100%	100%	0	NA
Jessore	11	9		8	1	0.73	2.18	100%	100%	89%	100%	0	NA
Jhenaidah	7	7		6	1	0.86	1.71	86%	100%	100%	100%	0	NA
Kushtia	8	9		8	1	1.00	3.00	89%	100%	89%	100%	0	NA
Magura	4	5		4	1	1.00	2.25	100%	100%	100%	100%	0	NA
Meherpur	2	2		2	0	1.00	3.00	100%	100%	100%	100%	0	NA
Narail	3	6		5	1	1.67	2.00	83%	83%	83%	83%	1	100%
Satkhira	8	8		8	0	1.00	2.63	88%	88%	88%	88%	1	100%
<b>Total-KHU</b>	<b>64</b>	<b>75</b>	<b>0</b>	<b>64</b>	<b>11</b>	<b>1.00</b>	<b>2.44</b>	<b>89%</b>	<b>96%</b>	<b>89%</b>	<b>96%</b>	<b>5</b>	<b>100%</b>
<b>Barisal Division</b>													
Barisal	11	10		7	3	0.64	0.82	70%	100%	80%	100%	2	100%
Barguna	4	11		10	1	2.50	5.25	91%	91%	100%	100%	0	NA
Bhola	7	3		3	0	0.43	1.29	100%	100%	100%	100%	0	NA
Jhalakhati	3	12		9	3	3.00	6.00	100%	100%	100%	100%	1	100%
Patuakhali	6	8		4	4	0.67	1.00	86%	100%	88%	100%	1	100%
Pirojpur	5	17		16	1	3.20	5.40	100%	100%	100%	100%	0	NA
<b>Total-BAR</b>	<b>36</b>	<b>61</b>	<b>0</b>	<b>49</b>	<b>12</b>	<b>1.36</b>	<b>2.50</b>	<b>92%</b>	<b>98%</b>	<b>95%</b>	<b>100%</b>	<b>4</b>	<b>100%</b>
<b>National</b>	<b>549</b>	<b>698</b>	<b>0</b>	<b>543</b>	<b>155</b>	<b>0.99</b>	<b>1.95</b>	<b>89%</b>	<b>96%</b>	<b>88%</b>	<b>97%</b>	<b>59</b>	<b>70%</b>

<sup>1</sup> Data as of Epidemiologic Week 27, July 6, 2002<sup>2</sup> Non-polio AFP rate is annualized for cases occurring up to April 30, 2002<sup>3</sup> 60-day follow-up among cases without 2 adequate stool samples occurring up to March 28, 2002

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

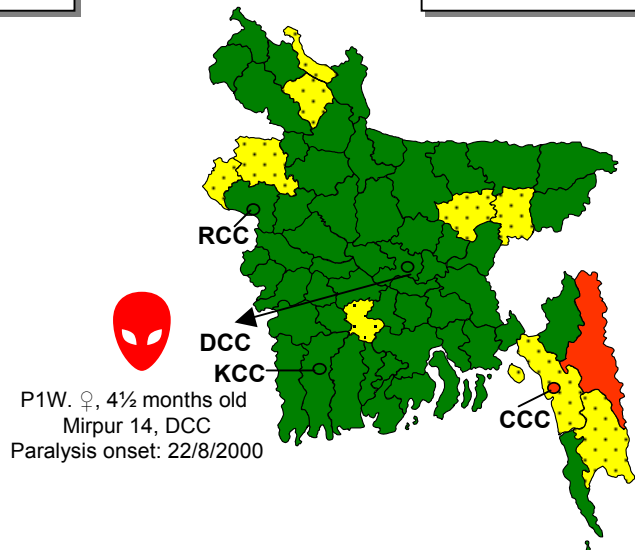
1999 (National: 0.87)

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



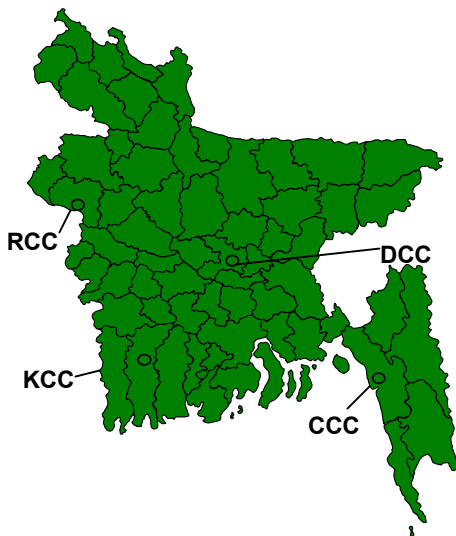
2000 (National: 1.82)

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



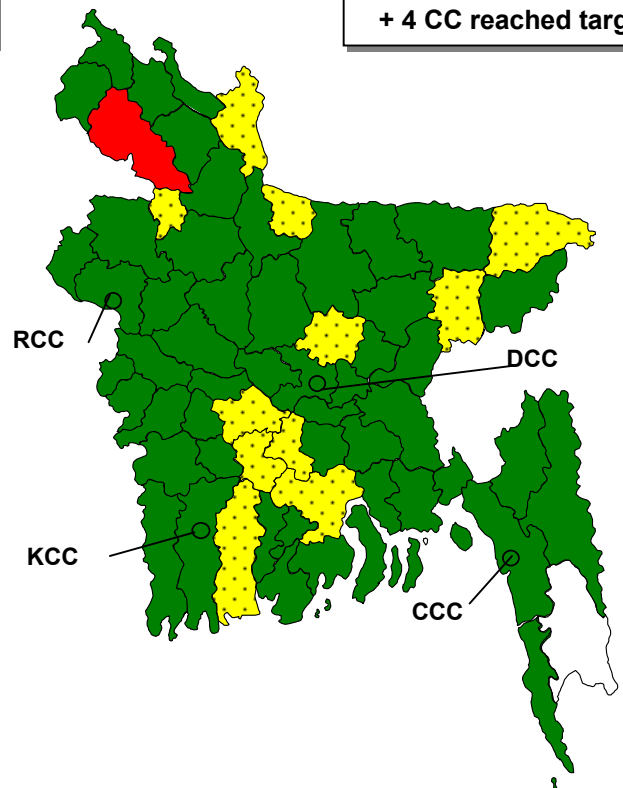
2001 (National: 2.29)

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



2002 (National: 1.95\*)

51 of 64 Districts (80%)  
+ 4 CC reached target.



Rate per 1,00,000 children <15 years

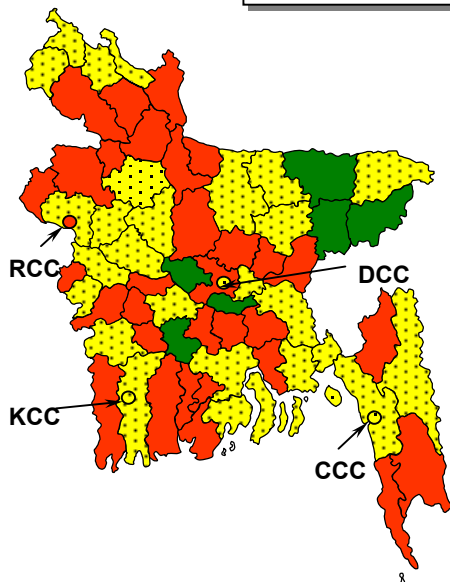


\*Non-Polio AFP rate annualized for cases according to April 30, 2002

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

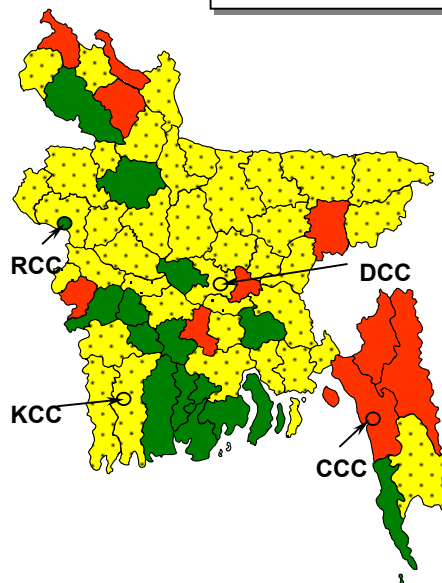
1999 (National: 49%)

6 of 64 Districts (9%) reached target.



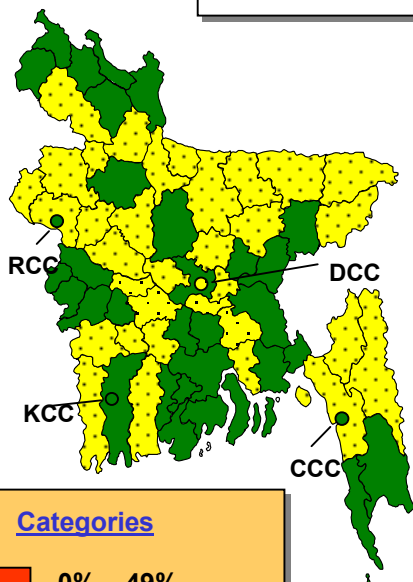
2000 (National: 68%)

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



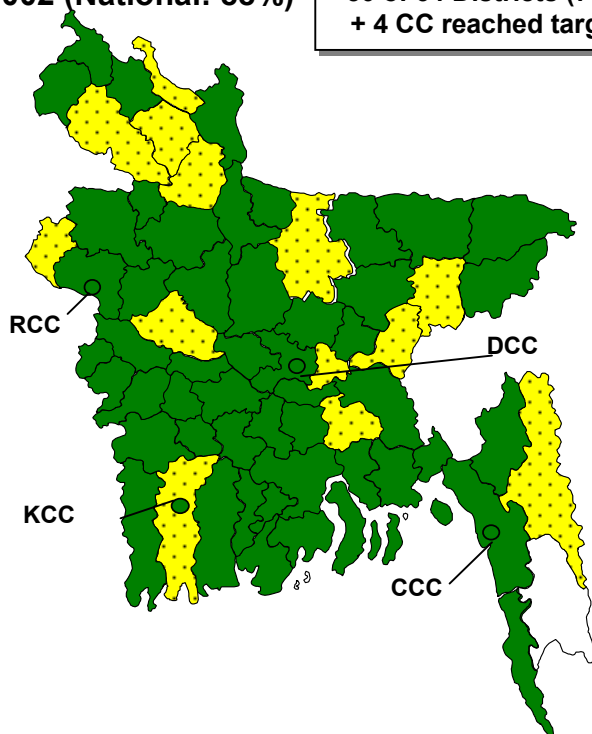
2001 (National: 80%)

31 of 64 Districts (48%) + 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 27: July 6, 2002



# Districts Targeted for SNIDS in August-September, 2002

