



# EPI Surveillance Bulletin

Epidemiologic Week 22: May 23 - 29, 2004



Vol. 7 No. 5

May 2004

## Emergency Preparedness Plan for Polio Importation finalized

A new case of polio (P1) has been recently identified in the block Mahestali of South 24 Parganas district of Indian State of West Bengal. This was a child 18 months of age with "0" OPV. It is the first case detected in the state in 9 months and is believed to be a case of importation from Bihar as it is

border in either direction through the border check-posts should be reinforced.

Bangladesh has finalized Plan for Emergency Response to Wild Polio Virus Importation and /or cVDPV Detection, which states that importation of polio virus should be treated as public health emergency of highest priority and the measures to be taken to limit further transmission should include enhanced surveillance with active search for cases, ensuring that all cases of AFP are reported and investigated in timely manner; strengthening of routine EPI; a two-round Mop-up campaign in each round of which, an additional dose OPV will be provided to all children 0-59 months old irrespective of their vaccination status. The first round of mop-up has to be done within 3-6 weeks of detection of importation or circulating vaccine derived poliovirus detection and the second round will commence at least 4 weeks after the 1st.

Circulating Vaccine Derived Poliovirus (cVDPV) is a relatively rare condition but should be guarded against as it may occur during the end stage of polio eradication, especially in the areas of low routine coverage. Strengthening routine EPI is a major factor not only as an immunity barrier to importation or development of cVDPV, but also is very important in preventing renewed transmission of the virus.

In the meantime, EPI has also finalized a new measles outbreak investigation guideline and an Action Plan for Measles Control Activities. The Government of Bangladesh has recently approved the National Policy on Injection Safety and EPI is soon going to switch over to Auto-Destruct (AD) syringes for all antigens in routine immunization. EPI is hopeful that it will help in reducing the AEFI related to the use of sterilizable syringes that are not properly sterilized.

## Shishu Shishu Proti Shishu Khuje Fero Proti Shishu!

### Surveillance Summary for 1998-2004 (through Epidemiologic Week 22, May 23-29, 2004)

	1998	1999	2000	2001	2002	2003	2004 <sup>1</sup>
Number of AFP cases	475	761	1138	1287	1365	1128	429
No. of clinically confirmed polio cases	298	322	197	NA	NA	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	NA	36	0	0	0
<b>No. of cases with isolation of wild poliovirus</b>	<b>10</b>	<b>29</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No. of discarded polio cases (i.e., non-polio AFP)	165	439	941	1251	1365	1128	328
No. of cases pending classification	0	0	0	0	0	0	101
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)	495	505	515	533	549	556	563

### AFP Surveillance Performance Indicators:

Indicator	Target	1998	1999	2000	2001	2002	2003	2004
1. Annual Non-Polio AFP rate in children < 15 years old	≥ 1/100,000	0.33	0.87	1.82	2.34	2.49	2.03	1.43 <sup>2</sup>
2. Completeness of passive reporting from facilities	≥ 90%	34%	66%	83%	65%	62%	67%	67%
3. Timeliness of passive reporting from facilities	≥ 80%	15%	30%	58%	38%	36%	62%	59%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	89%	83%	93%	96%	96%	98%	98%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	59%	49%	68%	80%	89%	90%	91%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	88%	81%	92%	97%	98%	99%	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%	100%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	80%	97%	95%	93%	99%	100%	75% <sup>3</sup>
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100%	100%	98% <sup>4</sup>
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	28%	23%	23%

<sup>1</sup> Data as of May 29, 2004; <sup>2</sup> NPAFP rate annualized for cases according to Mar 27, 2004; <sup>3</sup> among cases occurring up to Feb 29, 2004; <sup>4</sup> as of May 1, 2004

**AFP Surveillance Performance Indicators -- 2004**

Epiweek 22, 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>	% with 60-day follow-up <sup>3</sup>
<b>Dhaka Division</b>												
DCC only	36	16			13	3	0.78	94%	100%	94%	100%	57%
Dhaka (non DCC)	14	14			12	2	1.43	86%	100%	86%	100%	67%
Faridpur	8	10			6	4	2.00	90%	100%	100%	100%	100%
Gazipur	9	6			5	1	1.78	100%	100%	100%	100%	67%
Gopalganj	5	7			4	3	2.40	100%	100%	100%	100%	100%
Jamalpur	9	4			3	1	1.33	100%	100%	100%	100%	100%
Kishoreganj	11	9			9	0	2.91	100%	100%	100%	100%	100%
Madaripur	5	8			7	1	2.40	100%	100%	100%	100%	100%
Manikganj	6	7			7	0	1.33	86%	100%	86%	100%	100%
Munshiganj	6	4			3	1	1.33	75%	100%	75%	100%	100%
Mymensingh	20	16			12	4	1.80	75%	94%	81%	94%	20%
Narayanganj	9	6			6	0	2.67	100%	100%	100%	100%	25%
Narsinghdi	8	6			5	1	1.50	83%	100%	83%	100%	100%
Netrokona	9	5			2	3	0.00	100%	100%	100%	80%	NA
Rajbari	4	7			4	3	3.00	100%	100%	86%	100%	50%
Shariatpur	5	9			7	2	3.20	100%	100%	89%	100%	100%
Sherpur	6	2			1	1	0.00	100%	100%	100%	100%	NA
Tangail	14	12			11	1	1.43	100%	100%	100%	100%	60%
<b>Total-DHAKA</b>	<b>184</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>31</b>	<b>1.54</b>	<b>93%</b>	<b>99%</b>	<b>93%</b>	<b>99%</b>	<b>72%</b>
<b>CTG Division</b>												
CCC only	12	3			3	0	0.67	100%	100%	100%	100%	0%
Chittagong (non CCC)	20	15			12	3	1.40	93%	100%	93%	100%	50%
Bandarban	1	2			2	0	4.00	100%	100%	100%	100%	0%
Brahmanbaria	11	8			7	1	1.09	100%	100%	100%	88%	100%
Chandpur	10	5			4	1	0.40	100%	100%	100%	100%	0%
Comilla	20	17			11	6	0.80	94%	100%	88%	100%	0%
Cox's Bazar	8	4			3	1	1.00	75%	100%	100%	100%	NA
Feni	5	4			3	1	0.80	100%	100%	100%	100%	NA
Khagrachari	2	3			3	0	2.00	100%	100%	100%	67%	0%
Laxmipur	7	11			8	3	4.00	82%	82%	91%	100%	57%
Noakhali	11	11			7	4	2.18	82%	100%	64%	100%	80%
Rangamati	2	7			4	3	6.00	86%	86%	100%	100%	100%
<b>Total-CTG</b>	<b>109</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>67</b>	<b>23</b>	<b>1.39</b>	<b>91%</b>	<b>97%</b>	<b>91%</b>	<b>98%</b>	<b>50%</b>
<b>Sylhet Division</b>												
SCC	1	1			0	1	0.00	100%	100%	100%	100%	NA
Sylhet (non SCC)	10	8			6	2	2.00	75%	100%	88%	100%	67%
Habiganj	8	7			4	3	1.00	86%	100%	86%	100%	0%
Maulvibazar	7	6			5	1	1.14	83%	83%	67%	100%	100%
Sunamganj	9	12			10	2	3.11	92%	100%	92%	100%	71%
<b>Total-SYL</b>	<b>35</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>9</b>	<b>1.83</b>	<b>85%</b>	<b>97%</b>	<b>85%</b>	<b>100%</b>	<b>64%</b>
<b>Raj Division</b>												
RCC only	2	0			0	0	0.00	NA	NA	NA	NA	NA
Rajshahi (non RCC)	8	3			2	1	0.50	100%	100%	100%	100%	100%
Bogra	13	8			7	1	1.54	75%	100%	100%	100%	100%
Dinajpur	12	4			4	0	1.00	50%	100%	75%	100%	100%
Gaibandha	9	9			8	1	3.56	78%	100%	100%	100%	100%
Joypurhat	4	6			5	1	3.00	100%	100%	100%	100%	100%
Kurigram	8	4			1	3	0.00	25%	100%	50%	100%	100%
Lalmonirhat	5	5			5	0	3.20	100%	100%	100%	100%	100%
Natore	7	3			2	1	0.00	100%	100%	67%	100%	100%
Nilphamari	7	4			4	0	1.71	75%	100%	100%	100%	100%
Noagoan	11	1			1	0	0.36	100%	100%	100%	100%	100%
Nowabganj	6	1			0	1	0.00	0%	100%	0%	100%	NA
Pabna	10	7			6	1	1.60	100%	100%	100%	100%	0%
Panchagarh	4	4			2	2	2.00	100%	100%	100%	100%	100%
Rangpur	11	5			4	1	0.73	100%	100%	100%	100%	100%
Sirajganj	12	4			4	0	1.00	67%	67%	75%	100%	33%
Thakurgaon	5	6			5	1	1.60	100%	100%	100%	100%	NA
<b>Total-RAJ</b>	<b>134</b>	<b>74</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>14</b>	<b>1.22</b>	<b>83%</b>	<b>99%</b>	<b>92%</b>	<b>100%</b>	<b>88%</b>
<b>Khulna Division</b>												
KCC only	4	4			2	2	2.00	100%	100%	100%	100%	100%
Khulna (non KCC)	7	7			6	1	1.71	100%	86%	100%	100%	67%
Bagerhat	7	6			5	1	2.29	83%	100%	100%	100%	100%
Chuadanga	4	4			3	1	2.00	100%	100%	100%	100%	100%
Jessore	11	4			2	2	0.36	100%	100%	75%	100%	NA
Jhenaidah	7	3			1	2	0.57	100%	100%	67%	100%	NA
Kushtia	7	8			7	1	2.29	88%	100%	88%	100%	100%
Magura	4	1			1	0	1.00	100%	100%	100%	100%	100%
Meherpur	3	1			1	0	1.33	100%	100%	100%	100%	100%
Narail	3	2			0	2	0.00	50%	100%	0%	100%	0%
Satkhira	8	6			4	2	1.00	100%	100%	100%	100%	100%
<b>Total-KHU</b>	<b>65</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>14</b>	<b>1.29</b>	<b>94%</b>	<b>98%</b>	<b>89%</b>	<b>100%</b>	<b>88%</b>
<b>Barisal Division</b>												
BCC	1	4			4	0	8.00	100%	100%	100%	100%	50%
Barisal (non BCC)	10	9			6	3	1.60	100%	100%	100%	100%	100%
Barguna	4	3			3	0	1.00	100%	100%	100%	100%	100%
Bhola	7	8			4	4	1.14	75%	88%	75%	100%	100%
Jhalakhati	3	8			7	1	4.00	100%	88%	100%	100%	100%
Patuakhali	6	4			2	2	0.67	75%	100%	75%	100%	100%
Pirojpur	5	1			1	0	0.80	100%	100%	100%	100%	NA
<b>Total BAR</b>	<b>36</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>10</b>	<b>1.56</b>	<b>92%</b>	<b>95%</b>	<b>92%</b>	<b>100%</b>	<b>91%</b>
<b>National</b>	<b>563</b>	<b>429</b>	<b>0</b>	<b>0</b>	<b>328</b>	<b>101</b>	<b>1.43</b>	<b>90%</b>	<b>98%</b>	<b>91%</b>	<b>99%</b>	<b>75%</b>

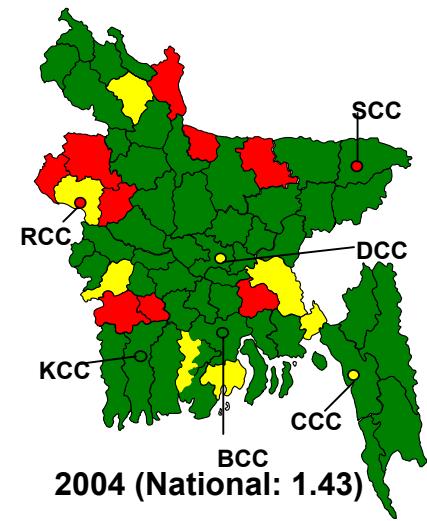
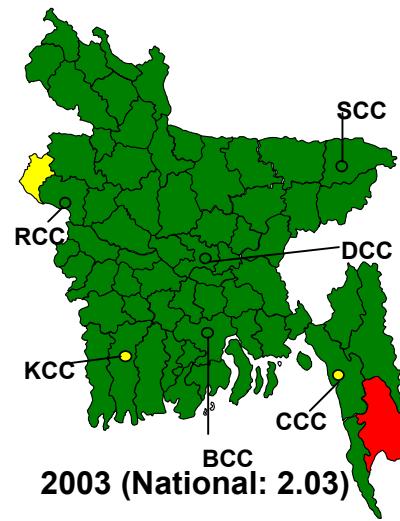
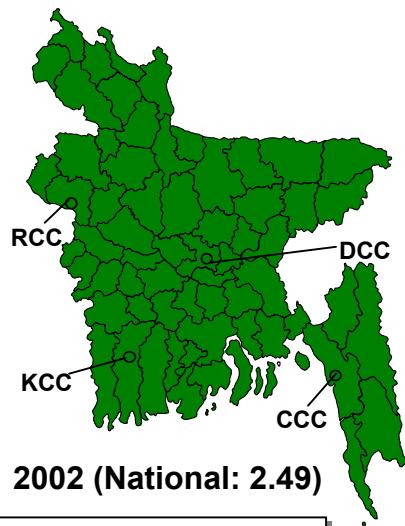
<sup>1</sup>Data as of Epidemiologic Week 22, May 29, 2004; <sup>2</sup> Non-Polio AFP rate is annualized for cases occurring up to Mar 27, 2004; <sup>3</sup> for cases occurring up to Feb 29, 2004

**Disease Surveillance - 2004**

Epiweek 22 2004

District	Neonatal Tetanus			Measles			AEFI	
	# of case reported by Active Surveillance	# of case reported by Passive Surveillance	# of case Investigated	# of case reported by Active Surveillance	# of case reported by Passive Surveillance	Outbreak		# of case Reported
					Number of Outbreak (% Investigated)	# of cases		
<b>Dhaka Division</b>								
DCC only	8	4	7	69	53	2 (100%)	185	11
Dhaka (non DCC)	3	4		7	16			10
Faridpur	1			7	34	1 (100%)	27	1
Gazipur	1			4	10			1
Gopalganj	2	2	3	4	5			3
Jamalpur		1	1	7	7	1 (100%)	71	6
Kishoreganj	4	7	6	23	91	1 (100%)	17	15
Madaripur	1	1	1		2			1
Manikganj	1	1			6	2 (100%)	404	
Munshiganj		1			2			8
Mymensingh	6	5	5	19	42	3 (100%)	102	2
Narayanganj	2	2	2	3	2			3
Narsinghdi				1	1			2
Netrokona			1		40	1 (100%)	136	8
Rajbari					15			1
Shariatpur				2	9			10
Sherpur	2	1	2	1	2			1
Tangail	6	6	4	11	24			5
<b>Total-DHAKA</b>	<b>37</b>	<b>36</b>	<b>31</b>	<b>164</b>	<b>355</b>	<b>11 (100%)</b>	<b>942</b>	<b>88</b>
<b>CTG Division</b>								
CCC only	2	2		26	18	1 (100%)	15	1
Chittagong (non CCC)	2	2		6	26	1 (100%)	10	3
Bandarban				9		1 (100%)	11	1
Brahmanbaria	7	8	6	3	17	1 (100%)	11	3
Chandpur		1	1	7	48	5 (100%)	88	13
Comilla	1	2	2	1	17			3
Cox's Bazar	2	3	1	23	17			
Feni	1	1	1		20			4
Khagrachari				2	3			
Laxmipur	3	2	2	2	5			4
Noakhali				2	20			2
Rangamati				1	5			
<b>Total-CTG</b>	<b>18</b>	<b>21</b>	<b>13</b>	<b>82</b>	<b>196</b>	<b>9 (100%)</b>	<b>135</b>	<b>34</b>
<b>Sylhet Division</b>								
SCC	1		1	39	34			
Sylhet (non SCC)	3	4	3	47	163	2 (100%)	74	18
Habiganj	5	5	2	14	29			15
Maulibazar	5	6	1	6	30			1
Sunamganj	2	4		8	11			4
<b>Total-SYL</b>	<b>16</b>	<b>19</b>	<b>7</b>	<b>114</b>	<b>267</b>	<b>2 (100%)</b>	<b>74</b>	<b>38</b>
<b>Raj Division</b>								
RCC only				1	1			
Rajshahi (non RCC)	1	2		6	11	1 (100%)	34	
Bogra				3	4			
Dinajpur		2	1	4	14	1 (100%)	49	9
Gaibandha	1	6	5	3	14	1 (100%)	33	16
Joypurhat				8	54	2 (100%)	27	
Kurigram				3	1			6
Lalmonirhat			1		3			
Natore	1	2		2	3			1
Nilphamari				2	19	1 (100%)	13	2
Noagoan	2	2	2	2	18	1 (100%)	13	1
Nowabganj				4	10			2
Pabna	2	4		9	35			11
Panchagarh				2	18			
Rangpur	4	3	2	11	6	1 (100%)	30	6
Sirajganj	1			7	13			6
Thakurgaon				3	6			
<b>Total-RAJ</b>	<b>12</b>	<b>21</b>	<b>11</b>	<b>70</b>	<b>230</b>	<b>8 (100%)</b>	<b>199</b>	<b>60</b>
<b>Khulna Division</b>								
KCC only				2	5			2
Khulna (non KCC)				3	8			12
Bagerhat				1	3			
Chuadanga				1	1			3
Jessore	2	2	2	3	34			10
Jhenaidah	1			2	13			5
Kushtia	1	2	2	2	4			1
Magura		2		7	42	1 (100%)	36	9
Meherpur			1	3	2			
Narail	1	2	1	6	6			10
Satkhira	2		1		2			8
<b>Total-KHU</b>	<b>7</b>	<b>8</b>	<b>7</b>	<b>30</b>	<b>120</b>	<b>1 (100%)</b>	<b>36</b>	<b>60</b>
<b>Barisal Division</b>								
BCC								
Barisal (non BCC)		1		6	16			1
Barguna				8	48	2 (100%)	48	1
Bhola	1	1			2			7
Jhalakhati	1		1	1	3			
Patuakhali	1	2	1	3	51			
Pirojpur	1	1			1			3
<b>Total_BAR</b>	<b>4</b>	<b>5</b>	<b>2</b>	<b>18</b>	<b>121</b>	<b>2 (100%)</b>	<b>48</b>	<b>12</b>
<b>National</b>	<b>94</b>	<b>110</b>	<b>71</b>	<b>478</b>	<b>1289</b>	<b>33 (100%)</b>	<b>1434</b>	<b>292</b>

# Annualized Non-Polio AFP Rate, by District, Bangladesh 2002-2004\*



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

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

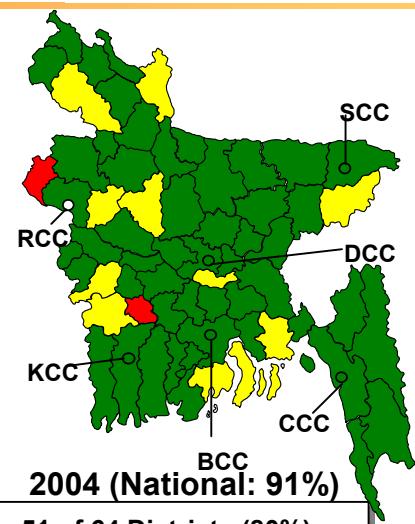
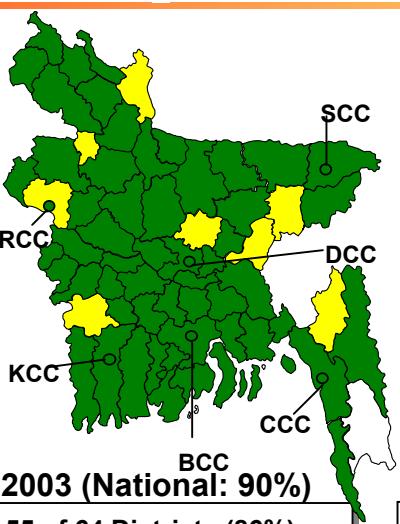
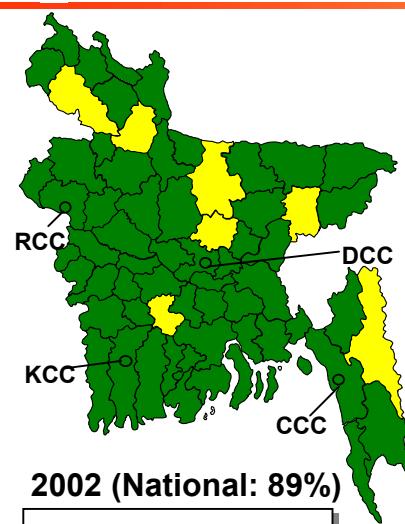
48 of 64 Districts (75%)  
+ 2 of 6 CCs reached target.

\*NPAFP rate annualized for cases according to March 27, 2004

Rate per 1,000,000 children <15 years

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

## Percent of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2002-2004\*



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

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

51 of 64 Districts (80%)  
+ 5 CCs reached target.

\*Data as of Epidemiologic Week 22, May 29, 2004

Categories

0% – 49%      50% – 79%      >=80% (Target)      No AFP Case