



# EPI Surveillance Bulletin

Epidemiologic Week 26: June 20 - 26, 2004

Vol. 7 No. 6

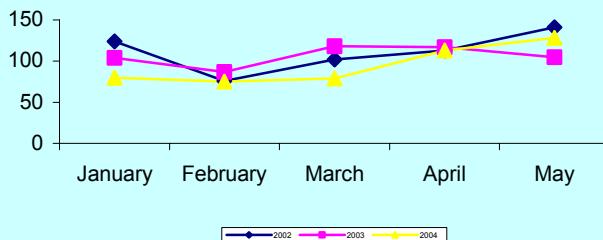


## Further Strengthening of AFP Surveillance Needed

Review of the AFP surveillance data for the first five months of the year 2004 shows that there is alarming fall in number of reported AFP cases during this period, when compared to the number of cases reported in the same period of 2002 and 2003. This year

some concern considering that 2 districts and 2 city corporations failed to reach non-polio AFP target and 9 districts failed to reach the target of collecting 2 stool specimens within 14 days of paralysis onset in 2003. If appropriate measures are not taken now the picture may look even worse at the end of this year.

### Monthly Distribution of AFP Cases During the months of Jan-May, 2002-2004



between January to May 475 cases of AFP were detected, while 556 and 531 cases were detected in 2003 and 2004 respectively. This phenomenon is not uniform through out the country. For example Sylhet division has reported more AFP cases than the previous two years (37 in 2004 and 31 and 23 in 2003 and 2004 respectively), while there has been decline of number of cases reported from Rajshahi (78 in 2004 and 133 and 97 in 2002 and 2003) and Barisal (43 in 2004 and 85 in 2003) divisions.

EPI recognizes that the high season for non-polio AFP cases has just started and probably most of the districts will eventually attain the target for the AFP surveillance. At the same time there is

It is important to note that all surveillance indicators should constantly meet the international standards to make Bangladesh eligible for certification of polio free status. Also due to ongoing wild poliovirus circulation in the neighboring country, there is no other way to protect the children of this country from poliovirus importation and from resurgence of its circulation, but to maintain surveillance of the highest standards. Early detection of importation is the key to limit the further transmission of the imported virus.

At the same time EPI also recognizes that physicians, nurses and other health care providers need frequent reminders on AFP surveillance as it is a relatively rare event and not seeing polio cases for years, they may not remember the importance of reporting and responding rapidly to detection of an AFP case. Surveillance focal persons like Civil Surgeons and UHFOs should always remind them of importance of AFP surveillance at any opportunity.

All EPI activities including strengthening of routine EPI, introduction of new vaccines like Hepatitis-B vaccine, introduction of AD syringes for all antigens as a part of ensuring injection safety, surveillance of all vaccine preventable diseases including measles outbreaks and AEFI surveillance to improve quality of EPI services, are very important to protect the health of the children of Bangladesh; but the priority remains on polio eradication and AFP surveillance as any complacency may allow reintroduction of poliovirus circulation and destroy the achievements made through several years of high level endeavors and investments. Let's maintain our vigilance to protect our achievements!

## Shishu Shishu Proti Shishu Khuje Fero Proti Shishu!

### Surveillance Summary for 1998-2004 (through Epidemiologic Week 26, June 20-26, 2004)

	1998	1999	2000	2001	2002	2003	2004 <sup>1</sup>
Number of AFP cases	475	761	1138	1287	1365	1128	547
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	1
<b>No. of cases with isolation of wild poliovirus</b>	10	29	1	0	0	0	0
No. of discarded polio cases (i.e., non-polio AFP)	165	439	941	1251	1365	1128	449
No. of cases pending classification	0	0	0	0	0	0	97
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	1.71 <sup>2</sup>
2. Completeness of passive reporting from facilities	≥ 90%	34%	66%	83%	65%	62%	67%	74%
3. Timeliness of passive reporting from facilities	≥ 80%	15%	30%	58%	38%	36%	62%	65%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	89%	83%	93%	96%	96%	98%	97%
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 1/2 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%	82% <sup>3</sup>
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100%	100%	99% <sup>4</sup>
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	28%	23%	24%

<sup>1</sup> Data as of June 26, 2004; <sup>2</sup> NPAFP rate annualized for cases according to Apr 24, 2004; <sup>3</sup> among cases occurring up to Mar 24, 2004; <sup>4</sup> as of May 29, 2004

**AFP Surveillance Performance Indicators -- 2004**

Epiweek 26, 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	23			16	7	1.02	91%	100%	87%	100%	63%
Dhaka (non DCC)	14	17			13	4	2.18	88%	94%	82%	100%	33%
Faridpur	8	15			12	3	1.91	93%	100%	100%	100%	100%
Gazipur	9	9			6	3	1.70	89%	100%	100%	100%	100%
Gopalganj	5	8			6	2	1.84	100%	100%	100%	100%	100%
Jamalpur	9	5			5	0	1.02	100%	100%	100%	100%	100%
Kishoreganj	11	12			9	3	2.50	100%	100%	92%	100%	88%
Madaripur	5	9			8	1	4.89	100%	100%	100%	100%	100%
Manikganj	6	8			7	1	3.06	88%	100%	88%	100%	100%
Munshiganj	6	6			4	2	1.53	83%	100%	83%	100%	100%
Mymensingh	20	19			15	4	1.68	79%	95%	84%	95%	10%
Narayanganj	9	9			7	2	2.38	89%	100%	89%	100%	100%
Narsinghdi	8	8			7	1	1.91	88%	88%	88%	100%	100%
Netrokona	9	7			6	1	0.34	86%	100%	86%	86%	NA
Rajbari	4	7			6	1	2.29	100%	100%	86%	100%	67%
Shariatpur	5	11			9	2	3.67	91%	100%	82%	100%	100%
Sherpur	6	4			3	1	1.02	100%	100%	100%	100%	NA
Tangail	14	16			14	2	2.18	94%	100%	94%	100%	80%
<b>Total-DHAKA</b>	<b>184</b>	<b>193</b>	<b>0</b>	<b>0</b>	<b>153</b>	<b>40</b>	<b>1.81</b>	<b>91%</b>	<b>98%</b>	<b>90%</b>	<b>99%</b>	<b>75%</b>
<b>CTG Division</b>												
CCC only	12	4			4	0	1.02	100%	100%	100%	100%	100%
Chittagong (non CCC)	20	16			13	3	1.38	94%	100%	88%	100%	100%
Bandarban	1	2			2	0	3.06	100%	100%	100%	100%	100%
Brahmanbaria	11	11			10	1	1.95	100%	100%	100%	91%	100%
Chandpur	10	6			6	0	1.22	100%	100%	100%	100%	100%
Comilla	20	21			18	3	1.53	95%	100%	95%	100%	100%
Cox's Bazar	8	7			7	0	1.15	86%	100%	100%	100%	100%
Feni	5	6			4	2	1.84	100%	100%	100%	100%	100%
Khagrachari	2	4			4	0	6.12	100%	100%	100%	75%	0%
Laxmipur	7	11			10	1	3.06	82%	82%	91%	100%	86%
Noakhali	11	11			10	1	2.78	82%	100%	64%	100%	100%
Rangamati	2	9			8	1	6.12	89%	89%	100%	100%	50%
<b>Total-CTG</b>	<b>109</b>	<b>108</b>	<b>0</b>	<b>0</b>	<b>96</b>	<b>12</b>	<b>1.85</b>	<b>93%</b>	<b>97%</b>	<b>93%</b>	<b>98%</b>	<b>90%</b>
<b>Sylhet Division</b>												
SCC	1	1			1	0	0.00	100%	100%	100%	100%	NA
Sylhet (non SCC)	10	11			8	3	2.14	70%	91%	82%	100%	80%
Habiganj	8	7			6	1	1.53	71%	100%	86%	100%	100%
Maulvibazar	7	8			7	1	1.75	88%	88%	63%	100%	100%
Sunamganj	9	13			12	1	3.40	92%	100%	92%	100%	75%
<b>Total-SYL</b>	<b>35</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>6</b>	<b>2.18</b>	<b>82%</b>	<b>95%</b>	<b>83%</b>	<b>100%</b>	<b>82%</b>
<b>Raj Division</b>												
RCC only	2	1			0	1	0.00	100%	100%	100%	100%	NA
Rajshahi (non RCC)	8	5			3	2	0.76	100%	100%	100%	100%	100%
Bogra	13	9			9	0	1.65	78%	100%	100%	100%	60%
Dinajpur	12	5			5	0	0.76	75%	100%	80%	100%	100%
Gaibandha	9	10			9	1	3.06	80%	100%	100%	100%	100%
Joypurhat	4	8			7	1	3.82	100%	100%	100%	100%	100%
Kurigram	8	4			3	1	1.15	25%	100%	50%	100%	100%
Lalmonirhat	5	6			5	1	3.06	100%	100%	100%	100%	75%
Natore	7	3			2	1	0.87	100%	100%	67%	100%	100%
Nilphamari	7	4			4	0	1.75	75%	100%	100%	100%	100%
Noagoan	11	3			1	2	0.28	100%	100%	100%	100%	100%
Nowabganj	6	1			0	1	0.00	0%	100%	0%	100%	NA
Pabna	10	7			7	0	1.84	100%	100%	100%	100%	0%
Panchagarh	4	5			4	1	1.53	100%	100%	100%	100%	100%
Rangpur	11	8			5	3	1.11	100%	100%	100%	100%	100%
Sirajganj	12	7			6	1	1.02	83%	83%	86%	86%	33%
Thakurgaon	5	6			6	0	3.06	100%	100%	100%	100%	100%
<b>Total-RAJ</b>	<b>134</b>	<b>92</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>16</b>	<b>1.42</b>	<b>88%</b>	<b>99%</b>	<b>94%</b>	<b>99%</b>	<b>79%</b>
<b>Khulna Division</b>												
KCC only	4	4			4	0	1.53	100%	100%	100%	100%	100%
Khulna (non KCC)	7	9			7	2	2.18	89%	89%	100%	100%	67%
Bagerhat	7	9			8	1	2.18	89%	100%	100%	100%	75%
Chuadanga	4	4			4	0	1.53	100%	100%	100%	100%	100%
Jessore	11	8			3	5	0.28	88%	88%	88%	100%	100%
Jhenaidah	7	5			4	1	0.87	100%	100%	80%	100%	100%
Kushtia	7	8			8	0	2.18	88%	100%	88%	100%	100%
Magura	4	3			3	0	0.76	100%	100%	100%	100%	100%
Meherpur	3	4			1	3	1.02	100%	100%	100%	100%	100%
Narail	3	5			1	3	1.02	60%	100%	60%	100%	100%
Satkhira	8	7			6	1	1.15	100%	86%	86%	100%	100%
<b>Total-KHU</b>	<b>65</b>	<b>66</b>	<b>0</b>	<b>1</b>	<b>51</b>	<b>14</b>	<b>1.32</b>	<b>91%</b>	<b>96%</b>	<b>91%</b>	<b>100%</b>	<b>91%</b>
<b>Barisal Division</b>												
BCC	1	4			4	0	12.24	100%	100%	100%	100%	50%
Barisal (non BCC)	10	14			9	5	1.22	100%	100%	93%	100%	75%
Barguna	4	4			4	0	2.29	100%	10%	100%	100%	100%
Bhola	7	8			6	2	1.31	75%	88%	75%	100%	100%
Jhalakhati	3	9			8	1	6.12	10%	89%	100%	100%	100%
Patuakhali	6	6			6	0	2.04	80%	100%	83%	100%	100%
Pirojpur	5	3			2	1	0.61	100%	100%	100%	100%	NA
<b>Total BAR</b>	<b>36</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>39</b>	<b>9</b>	<b>2.12</b>	<b>94%</b>	<b>96%</b>	<b>92%</b>	<b>100%</b>	<b>87%</b>
<b>National</b>	<b>563</b>	<b>547</b>	<b>0</b>	<b>1</b>	<b>449</b>	<b>97</b>	<b>1.71</b>	<b>90%</b>	<b>97%</b>	<b>91%</b>	<b>99%</b>	<b>82%</b>

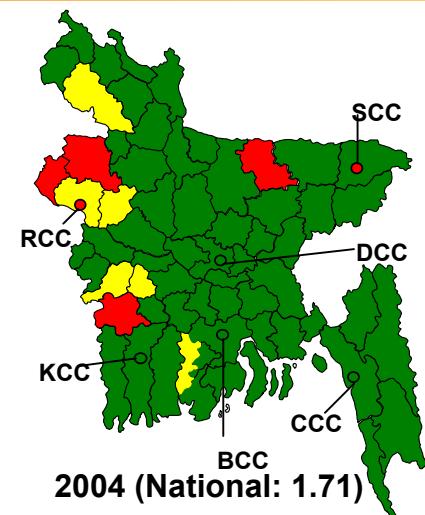
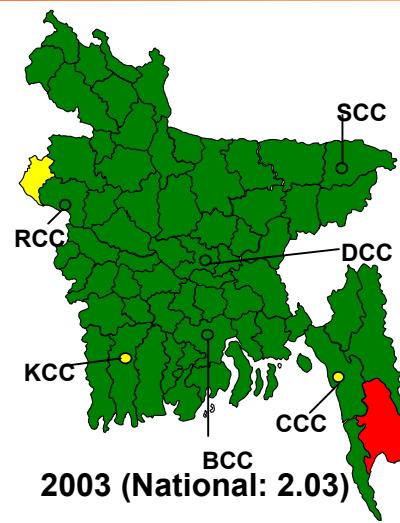
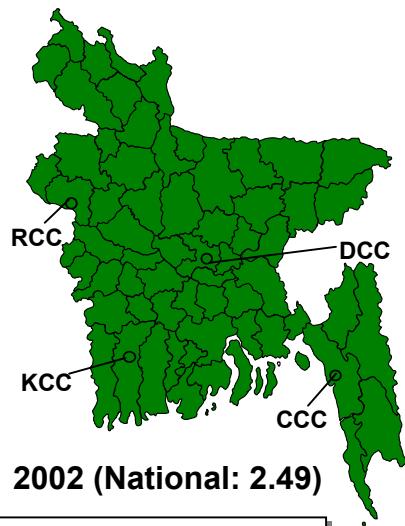
<sup>1</sup>Data as of Epidemiologic Week 26, June 26, 2004; <sup>2</sup> Non-Polio AFP rate is annualized for cases occurring up to Apr 24, 2004; <sup>3</sup> for cases occurring up to Mar 24, 2004

**Disease Surveillance - 2004**

Epiweek 26 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	10	4	7	77	70	2 (100%)	185	16
Dhaka (non DCC)	3	4		8	18			13
Faridpur	4	2	3	8	40	1 (100%)	27	3
Gazipur	1			5	10			2
Gopalganj	3	2	3	7	6			3
Jamalpur	2	1	1	9	9	1 (100%)	71	11
Kishoreganj	8	10	8	30	141	3 (100%)	167	23
Madaripur	2	2	1		2			1
Manikganj	1	1		6	2	2 (100%)	404	4
Munshiganj		1			6			11
Mymensingh	9	8	6	24	69	3 (100%)	103	4
Narayanganj	2	2	2	10	9			4
Narsingdzi				4	3			3
Netrokona		2			49	1 (100%)	137	10
Rajbari					20			1
Shariatpur				2	9			12
Sherpur	2	1	2	1	7	1 (100%)	51	7
Tangail	6	8	4	13	31			6
<b>Total-DHAKA</b>	<b>53</b>	<b>48</b>	<b>37</b>	<b>204</b>	<b>501</b>	<b>14 (100%)</b>	<b>1145</b>	<b>134</b>
<b>CTG Division</b>								
CCC only	3	3		33	32	1 (100%)	15	1
Chittagong (non CCC)	2	2		7	31	1 (100%)	10	3
Bandarban				10	1	1 (100%)	11	1
Brahmanbaria	10	11	9	4	17	1 (100%)	11	5
Chandpur		1	1	9	54	7 (100%)	118	13
Comilla	1	2	2	3	22			3
Cox's Bazar	2	4	2	25	19			3
Feni	2	2	2		23			8
Khagrachari				2	3			
Laxmipur	4	3	3	3	6	1 (100%)	32	16
Noakhali				2	21			3
Rangamati				3	14			
<b>Total-CTG</b>	<b>24</b>	<b>28</b>	<b>19</b>	<b>101</b>	<b>243</b>	<b>12 (100%)</b>	<b>197</b>	<b>56</b>
<b>Sylhet Division</b>								
SCC	1		1	47	36			1
Sylhet (non SCC)	3	4	3	52	197	4 (100%)	388	22
Habiganj	5	5	2	22	45	1 (100%)	67	21
Maulibazar	5	6	1	8	46			5
Sunamganj	2	4	1	10	14			7
<b>Total-SYL</b>	<b>16</b>	<b>19</b>	<b>8</b>	<b>139</b>	<b>338</b>	<b>5 (100%)</b>	<b>455</b>	<b>56</b>
<b>Raj Division</b>								
RCC only					1	2		
Rajshahi (non RCC)	1	2		8	13	1 (100%)	34	
Bogra				6	6	1 (100%)	74	
Dinajpur		2	1	4	15	2 (100%)	257	12
Gaibandha	1	6	5	3	15	4 (100%)	85	27
Joypurhat				8	64	2 (100%)	27	
Kurigram				3	1			7
Lalmonirhat			1		7			
Natore	1	2		2	3			2
Nilphamari				4	22	1 (100%)	13	5
Noagoan	2	2	2	2	19	1 (100%)	13	1
Nowabganj				4	13			3
Pabna	2	4		14	50			15
Panchagarh				2	24			
Rangpur	5	4	3	15	8	1 (100%)	30	7
Sirajganj	1			8	24	1 (100%)	172	8
Thakurgaon				4	6			
<b>Total-RAJ</b>	<b>13</b>	<b>22</b>	<b>12</b>	<b>88</b>	<b>292</b>	<b>14 (100%)</b>	<b>705</b>	<b>87</b>
<b>Khulna Division</b>								
KCC only				3	7			2
Khulna (non KCC)				2	11			15
Bagerhat				2	6			
Chuadanga	1	1		1	2			4
Jessore	2	2	2	4	43			12
Jhenaidah	2	1	2	3	13			7
Kushtia	2	2	3	2	4			3
Magura		2		8	45	2 (100%)	132	12
Meherpur			1	3	2			2
Narail	2	4	2	7	9			10
Satkhira	2		2		2			8
<b>Total-KHU</b>	<b>11</b>	<b>12</b>	<b>12</b>	<b>35</b>	<b>144</b>	<b>2 (100%)</b>	<b>132</b>	<b>75</b>
<b>Barisal Division</b>								
BCC								
Barisal (non BCC)	1	3		7	16			1
Barguna				8	55	2 (100%)	48	1
Bhola	2	4	1		2			8
Jhalakhati	1		1	2	4			
Patuakhali	2	3	2	4	53			
Pirojpur	1	1	1		2			3
<b>Total_BAR</b>	<b>7</b>	<b>11</b>	<b>5</b>	<b>21</b>	<b>132</b>	<b>2 (100%)</b>	<b>48</b>	<b>13</b>
<b>National</b>	<b>124</b>	<b>140</b>	<b>93</b>	<b>588</b>	<b>1650</b>	<b>49 (100%)</b>	<b>2682</b>	<b>421</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 CCs reached target.

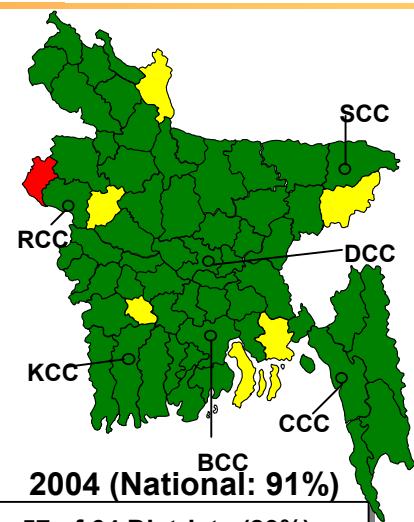
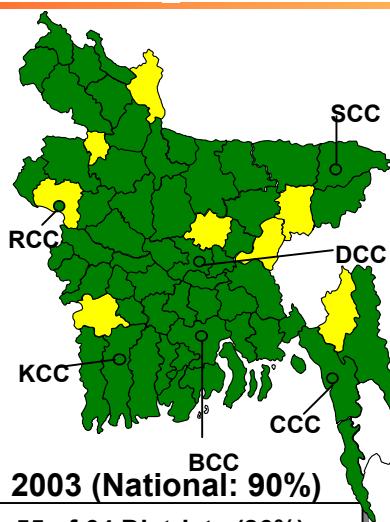
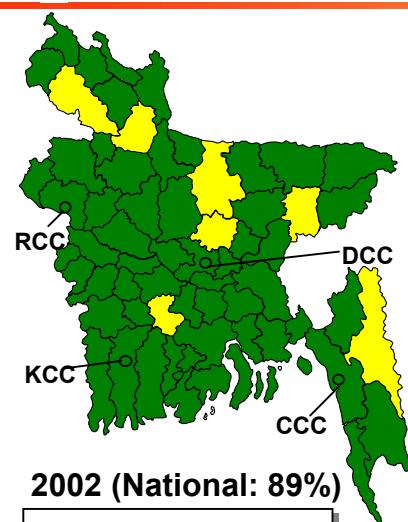
54 of 64 Districts (84%)  
+ 4 CCs reached target.

\*NPAFP rate annualized for cases according to April 24, 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\*



\*Data as of Epidemiologic Week 26, June 26, 2004

Categories

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