



# EPI Surveillance Bulletin

Epidemiologic Week 14: March 27 - April 2, 2005



Vol. 8 No. 1

March 2005

## National Measles Catch-up Campaign, 2005-2006

According to the National Measles Control Plan of Action 2004-2010, adopted by the Government of Bangladesh, the country is committed to provide a 2<sup>nd</sup> opportunity of measles vaccination to all children 9 months to below 10 years of age. EPI plans to provide this 2<sup>nd</sup> opportunity through a nation-wide campaign.

To forward the strategies adopted in the National Measles Control Plan of Action and achieve the goal for measles mortality reduction the National Steering Committee for NID is renamed as National Steering Committee on Polio Eradication and Measles Control. The NID National Core Committee and the NID Core Communication Committee are also merged to form the National Core Committee for Polio Eradication and Measles Control.

The first meeting of the National Steering Committee on Polio Eradication and Measles Control was held on 06 March 2005 in the conference room of the Ministry of Health and Family Welfare. Dr. Khandaker Mosharraf Hossain, honorable Minister, Ministry of Health and Family Welfare and the Chairman of the NSC-PE&MC chaired the meeting. The honorable State Minister, Ministry of Health and Family Welfare Mr. M. R. Sinha, the Vice Chairman of the NSC-PE & MC, all other respected members of the committee and representatives of international partners attended the meeting.

According to the commitment of government of Bangladesh expressed in National Measles Control Plan of Action 2004-2010 the steering committee decided to conduct a National Measles Catch-up campaign throughout the country targeting about 35 million children of age 9 months to below 10 years irrespective of their previous vaccination status or illness. This

age group accounts for 85% of cases reported through outbreak investigation in 2003-2004.

This campaign will be conducted in two phases. The 1<sup>st</sup> phase will be conducted in all upazilas and municipalities of Bogra and Rajshahi districts and Rajshahi City Corporation during September 2005. The 2<sup>nd</sup> phase of the campaign will be held in rest of the country during February 2006. Duration of the campaign will be 3 weeks in each phase. All children who attend in schools or any other kind of educational institutes will be vaccinated in their respective educational institutes during the 1<sup>st</sup> week of the campaign. Other children will be vaccinated in the regular EPI sites on subsequent 2 weeks. There will be one session for measles campaign in each routine EPI site during this two weeks period. Routine EPI will not be interrupted and will run as per annual plan during the whole campaign period.

This campaign will be the biggest public health event that has ever happened in the history of Bangladesh. It will also be one of the few to run routine EPI and campaign simultaneously.

Among the 45 priority countries who contributed 94% of the global deaths due to measles in 1999, thirty countries have already provided their children a 2<sup>nd</sup> opportunity through a measles campaign. Overall global measles mortality has reduced 39% from 1999 estimates. Africa reduced 46% of their measles mortality burden during the same period. Now this challenge comes to Bangladesh. In the past we have been highly appreciated by world body for our success in polio eradication. The time has come to keep up that reputation and uphold the prestige of the nation by making this campaign a success.

## Surveillance Summary for 1999-2005 (through Epidemiologic Week 14, March 27- April 2, 2005)

	1999	2000	2001	2002	2003	2004	2005 <sup>1</sup>
Number of AFP cases	761	1138	1287	1365	1128	1300	341
No. of clinically confirmed polio cases	322	197	NA	NA	NA	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	36	0	0	2	0
<b>No. of cases with isolation of wild poliovirus</b>	<b>29</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No. of discarded polio cases (i.e., non-polio AFP)	439	941	1251	1365	1128	1285	225
No. of cases pending classification	0	0	0	0	0	13	116
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)	505	515	533	549	556	563	579

## AFP Surveillance Performance Indicators:

Indicator	Target	1999	2000	2001	2002	2003	2004	2005
1. Annual Non-Polio AFP rate in children < 15 years old	≥ 1/100,000	0.87	1.82	2.34	2.49	2.03	2.28	2.17 <sup>2</sup>
2. Completeness of passive reporting from facilities	≥ 90%	66%	83%	65%	62%	67%	82%	88%
3. Timeliness of passive reporting from facilities	≥ 80%	30%	58%	38%	36%	62%	75%	79%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	83%	93%	96%	96%	98%	98%	98%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	49%	68%	80%	89%	90%	90%	90%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	81%	92%	97%	98%	99%	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%	97%	100%	100%	99%	100%	100%	100%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	97%	95%	93%	99%	100%	98%	80% <sup>3</sup>
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	58%	94%	99%	100%	100%	100%	95% <sup>4</sup>
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	13%	21%	29%	28%	23%	20%	20%

<sup>1</sup> Data as of April 2, 2005; <sup>2</sup> NPAFP rate annualized for cases according to January 29, 2005; <sup>3</sup> among cases occurring up to January 16, 2005; <sup>4</sup> as of March 4, 2005

**AFP Surveillance Performance Indicators -- 2005**

Epiweek 14, 2005

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	31	14			10	4	1.34	100%	100%	93%	100%	0%
Dhaka (non DCC)	13	9			4	5	0.80	89%	100%	78%	100%	NA
Faridpur	8	11			10	1	9.10	91%	100%	91%	100%	100%
Gazipur	9	0			0	0	0.00	NA	NA	NA	NA	NA
Gopalganj	5	1			1	0	0.00	100%	100%	100%	100%	NA
Jamalpur	10	5			3	2	3.12	100%	100%	100%	100%	100%
Kishoreganj	12	7			4	3	2.60	86%	100%	86%	100%	50%
Madaripur	5	6			3	3	4.16	83%	100%	100%	100%	100%
Manikganj	6	5			3	2	1.73	80%	100%	80%	100%	NA
Munshiganj	6	8			6	2	3.47	100%	100%	100%	100%	100%
Mymensingh	20	6			3	3	1.04	83%	100%	100%	100%	100%
Narayanganj	10	3			3	0	1.04	100%	100%	100%	100%	NA
Narsinghdi	9	5			4	1	2.31	80%	100%	80%	100%	100%
Netrokona	9	4			2	2	1.16	100%	100%	75%	100%	NA
Rajbari	5	2			2	0	2.08	100%	100%	100%	100%	100%
Shariatpur	5	4			3	1	4.16	100%	100%	100%	100%	100%
Sherpur	6	0			0	0	0.00	NA	NA	NA	NA	NA
Tangail	14	3			2	1	0.00	100%	100%	100%	100%	NA
<b>Total-DHAKA</b>	<b>183</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>30</b>	<b>1.82</b>	<b>92%</b>	<b>100%</b>	<b>91%</b>	<b>100%</b>	<b>85%</b>
<b>CTG Division</b>												
CCC only	11	6			3	3	0.00	100%	100%	100%	100%	NA
Chittagong (non CCC)	19	11			8	3	1.64	100%	100%	91%	100%	100%
Bandarban	2	0			0	0	0.00	NA	NA	NA	NA	NA
Brahmanbaria	11	5			2	3	0.95	80%	60%	80%	100%	NA
Chandpur	11	6			5	1	1.89	100%	100%	83%	100%	NA
Comilla	21	10			6	4	0.99	100%	90%	80%	100%	100%
Cox's Bazar	8	4			0	4	0.00	100%	100%	100%	100%	NA
Feni	6	6			4	2	3.47	100%	100%	100%	100%	NA
Khagrachari	3	4			4	0	6.93	100%	100%	100%	100%	0%
Laxmipur	7	7			4	3	4.46	86%	100%	86%	100%	100%
Noakhali	12	9			8	1	3.47	100%	100%	100%	100%	100%
Rangamati	3	2			0	2	0.00	100%	100%	100%	100%	0%
<b>Total-CTG</b>	<b>114</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>26</b>	<b>1.73</b>	<b>97%</b>	<b>96%</b>	<b>91%</b>	<b>100%</b>	<b>83%</b>
<b>Sylhet Division</b>												
SCC	2	0			0	0	0.00	NA	NA	NA	NA	NA
Sylhet (non SCC)	10	5			4	1	3.12	100%	100%	100%	100%	100%
Habiganj	8	1			1	0	1.30	100%	100%	100%	100%	100%
Maulvibazar	8	3			2	1	1.30	100%	100%	100%	100%	NA
Sunamganj	9	1			1	0	1.16	100%	100%	100%	100%	0%
<b>Total-SYL</b>	<b>37</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>2</b>	<b>1.69</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>80%</b>
<b>Raj Division</b>												
RCC only	2	2			2	0	5.20	100%	100%	100%	100%	100%
Rajshahi (non RCC)	9	5			1	4	1.16	60%	100%	40%	100%	NA
Bogra	14	2			0	2	0.00	50%	100%	50%	100%	NA
Dinajpur	12	6			4	2	2.60	100%	100%	100%	100%	50%
Gaibandha	10	6			3	3	0.00	100%	100%	83%	100%	NA
Joypurhat	4	8			6	2	10.40	75%	100%	88%	100%	100%
Kurigram	8	2			0	2	0.00	100%	100%	100%	100%	NA
Lalmirhat	5	5			4	1	6.24	100%	100%	100%	100%	0%
Natore	7	6			3	3	4.46	83%	100%	100%	100%	100%
Nilphamari	7	2			1	1	1.49	100%	100%	100%	100%	100%
Noagoan	11	11			8	3	4.73	100%	91%	73%	89%	80%
Nowabganj	7	6			4	2	2.97	83%	100%	67%	83%	67%
Pabna	10	4			4	0	2.08	100%	100%	100%	100%	100%
Panchagarh	4	2			1	1	2.60	100%	100%	100%	100%	100%
Rangpur	12	1			1	0	0.87	100%	100%	100%	100%	100%
Sirajganj	12	6			2	4	0.87	83%	100%	83%	100%	50%
Thakurgaon	6	4			3	1	3.47	100%	100%	100%	100%	NA
<b>Total-RAJ</b>	<b>140</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>31</b>	<b>2.23</b>	<b>90%</b>	<b>99%</b>	<b>85%</b>	<b>97%</b>	<b>71%</b>
<b>Khulna Division</b>												
KCC only	4	1			0	1	0.00	100%	100%	100%	100%	NA
Khulna (non KCC)	7	4			1	3	0.00	75%	100%	75%	100%	0%
Bagerhat	7	9			7	2	5.94	100%	89%	100%	100%	100%
Chuadanga	5	5			3	2	0.00	80%	100%	80%	100%	NA
Jessore	11	11			10	1	2.84	100%	100%	91%	100%	100%
Jhenaidah	7	7			5	2	4.46	100%	100%	100%	100%	100%
Kushthia	8	6			4	2	3.90	67%	100%	67%	100%	100%
Magura	4	4			4	0	5.20	100%	100%	100%	100%	NA
Meherpur	3	1			1	0	0.00	100%	100%	100%	100%	NA
Narail	3	1			1	0	3.47	100%	100%	100%	100%	0%
Satkhira	9	3			3	0	1.16	100%	67%	100%	100%	100%
<b>Total-KHU</b>	<b>68</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>39</b>	<b>13</b>	<b>2.60</b>	<b>92%</b>	<b>96%</b>	<b>90%</b>	<b>98%</b>	<b>86%</b>
<b>Barisal Division</b>												
BCC	1	0			0	0	0.00	NA	NA	NA	NA	NA
Barisal (non BCC)	9	7			5	2	5.78	100%	100%	100%	86%	67%
Barguna	4	9			7	2	10.40	100%	100%	100%	100%	67%
Bhola	8	12			8	4	5.20	83%	100%	92%	100%	100%
Jhalakhati	3	2			1	1	3.47	100%	100%	100%	100%	100%
Patuakhali	7	3			1	2	1.49	100%	100%	67%	100%	NA
Pirojpur	5	5			2	3	4.16	100%	100%	100%	100%	NA
<b>Total-BAR</b>	<b>37</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>14</b>	<b>4.78</b>	<b>95%</b>	<b>100%</b>	<b>95%</b>	<b>97%</b>	<b>78%</b>
<b>National</b>	<b>579</b>	<b>341</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>116</b>	<b>2.17</b>	<b>93%</b>	<b>98%</b>	<b>90%</b>	<b>99%</b>	<b>80%</b>

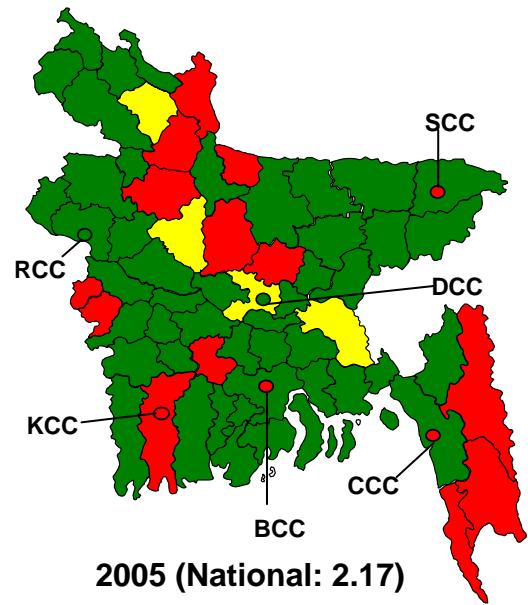
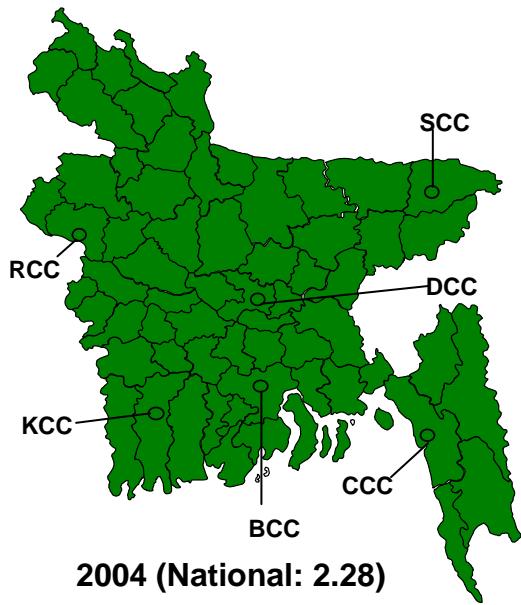
<sup>1</sup>Data as of Epidemiologic Week 14, April 2, 2005, <sup>2</sup> Non-Polio AFP Rate is annualized for cases occurring up to 29 January 2005, <sup>3</sup> for cases occurring up to 16 January 2005

**Disease Surveillance - 2005**

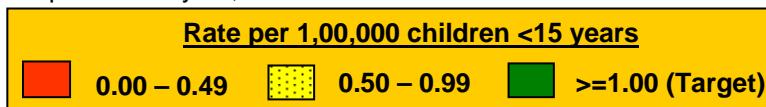
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District	Neonatal Tetanus			Measles			AEFI # of case Reported	
	# of case reported by Active Surveillance	# of case reported by Passive Surveillance	# of case Investigated	# of case reported by Active Surveillance	# of case reported by Passive Surveillance	Outbreak		
						Number of Outbreak % Investigated)	# of cases	
<b>Dhaka Division</b>								
DCC only	1	1	1	45	20	6 (100%)	387	
Dhaka (non DCC)	2	1	1	2	10	2 (100%)	374	7
Faridpur		1		2	6			8
Gazipur				3	2			1
Gopalganj	1	2	1		2			4
Jamalpur				1	1			3
Kishoreganj	3	1	2	7	23	3(100%)	134	5
Madaripur					2	3(100%)	266	4
Manikganj	2	1			4	3(100%)	578	1
Munshiganj	1	1	1		4	2(100%)	169	
Mymensingh	1	1			8	1(100%)	175	8
Narayanganj				21	19	2(100%)	102	1
Narsinghdi					8	2(100%)	102	3
Netrokona				1	21	3(100%)	263	2
Rajbari					13			
Shariatpur			1		14	1(100%)	82	13
Sherpur	2				8			
Tangail	1	1	1	2	3			5
<b>Total-DHAKA</b>	<b>14</b>	<b>11</b>	<b>7</b>	<b>102</b>	<b>214</b>	<b>28 (100%)</b>	<b>2632</b>	<b>65</b>
<b>CTG Division</b>								
CCC only				15	11	1(100%)	99	4
Chittagong (non CCC)			1	4	5			
Bandarban					1			
Brahmanbaria	2	2	3	1				1
Chandpur				1	17			6
Comilla	1		1	5	1	1(100%)		
Cox's Bazar			1	1	3	1(100%)	162	
Feni	1		1	1	64	5(100%)	331	
Khagrachari					5			
Laxmipur	1	1	1					6
Noakhali				2	2	1(100%)	17	1
Rangamati					2			
<b>Total-CTG</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>30</b>	<b>111</b>	<b>9 (100%)</b>	<b>609</b>	<b>18</b>
<b>Sylhet Division</b>								
SCC	1		1	53	23			
Sylhet (non SCC)	1	1		34	19			3
Habiganj	1	1		7	25	2(100%)	81	1
Maulvibazar	1	1		1	21	1(100%)	16	
Sunamganj		1	1	162	127	2(100%)	720	5
<b>Total-SYL</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>257</b>	<b>215</b>	<b>5 (100%)</b>	<b>817</b>	<b>9</b>
<b>Raj Division</b>								
RCC only				4	54	10(100%)	407	1
Rajshahi (non RCC)	2	1	1					
Bogra				1	3	2(100%)	75	9
Dinajpur	3	4	3		1			12
Gaibandha					3			4
Joypurhat					4			2
Kurigram					2			2
Lalmonirhat								
Natore	2	1	2	7	10	1(100%)	25	3
Nilphamari					3			10
Noagoan	2	1	3	1	14	2(100%)	218	3
Nowabganj	2	2	1		1			3
Pabna				3	9			4
Panchagarh	1	3	2		13			
Rangpur	3	2		2	1			3
Sirajganj					1	2		5
Thakurgaon					2	1		3
<b>Total-RAJ</b>	<b>15</b>	<b>14</b>	<b>12</b>	<b>21</b>	<b>121</b>	<b>15 (100%)</b>	<b>725</b>	<b>64</b>
<b>Khulna Division</b>								
KCC only					8	1(100%)	15	
Khulna (non KCC)					110	7(100%)	404	7
Bagerhat					137	9(100%)	409	2
Chuadanga	1	1	1		3			2
Jessore		1	1	1	14			11
Jhenaidah				2				6
Kushtia				1				
Magura					2			5
Meherpur				2	1			1
Narail	1				1			
Satkhira								4
<b>Total-KHU</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>276</b>	<b>17 (100%)</b>	<b>828</b>	<b>38</b>
<b>Barisal Division</b>								
BCC					2			
Barisal (non BCC)	1			6	7			1
Barguna		1		1	19			
Bhola			1	2	27	1(100%)	108	5
Jhalakhati				7	1	1(100%)	68	
Patuakhali				12	15	3(100%)	348	
Pirojpur					6	3(100%)	146	11
<b>Total BAR</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>30</b>	<b>75</b>	<b>8 (100%)</b>	<b>670</b>	<b>17</b>
<b>National</b>	<b>41</b>	<b>34</b>	<b>32</b>	<b>446</b>	<b>1012</b>	<b>82 (100%)</b>	<b>6281</b>	<b>211</b>

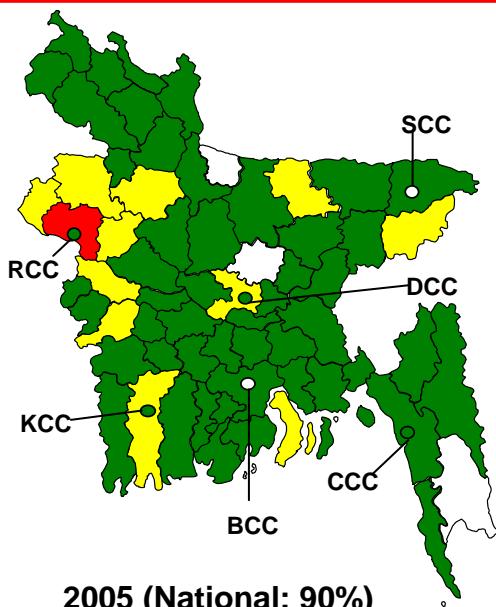
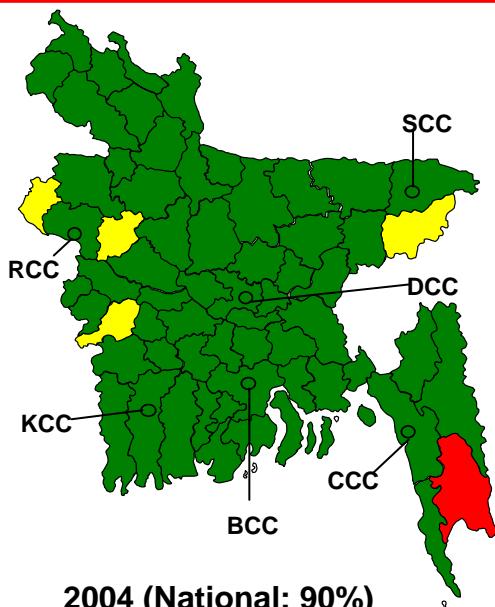
## Annualized Non-Polio AFP Rate, by District, Bangladesh 2004-2005\*



\*NPAFP Rate annualized up to January 29, 2005



## Percentage of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2004-2005\*



\*Data as of Epidemiologic Week 14, April 2, 2005