



# EPI Surveillance Bulletin

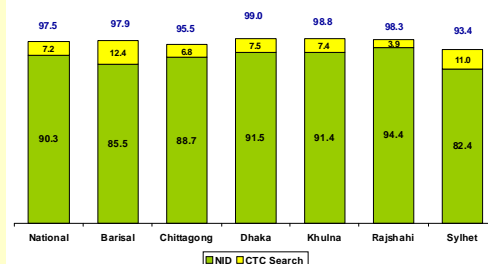
## Need more attention for 2<sup>nd</sup> Round of 17<sup>th</sup> NIDs

Bangladesh has just successfully conducted 17<sup>th</sup> NIDs 1<sup>st</sup> round on 29 November 2008. Preliminary evaluation of performance of the 1<sup>st</sup> round of the intensified 17<sup>th</sup> NIDs was done at the NID Review Meeting at EPI HQ in Dhaka on 14 December 2008. The findings were discussed based on available data from the checklists of NID and Child to Child Search by Independent Observers from DGHS and different partner organizations. These independent observers visited 6840 households in all 64 districts including all City Corporations and evaluated 10011 children after the Child to Child search was completed. They also visited 2463 fixed sites on the day of the NID. According to the Independent Observers checklists findings, 97.5% of children were vaccinated with OPV during the 1<sup>st</sup> round of 17<sup>th</sup> NIDs: 90.3% at vaccination sites and 7.2% during child to child search. 2.5% of the children were missed which represents an estimated 475,000 children.

Review of the Independent Observers checklists revealed that;

- Coverage of children decreased from 98.2% to 97.5% compared to 16<sup>th</sup> NIDs.
- Coverage decreased in the Rural (1.2%) and Municipal (2.0%) areas compared to the 1st Round of 16th NIDs
- Proportion of left out children reached through CTC search decreased by 4.6% nationally compared to the 1st round of 16th NID: Affected mostly by that of rural areas (9.9%)
- Coverage in the HTR areas increased by 0.4% compared to the 1st round of 16th NID and decreased by 1.1% in Non-HTR areas
- Field workers are still leading source of communication followed by TV, mobile miking and mosque miking
- Traveling still the main reasons for not vaccinating children on the day of NID followed by 'busy' and 'don't know'
- Some of the sites (34/2241) were found closed at different point of time (8:00-16:00 hrs)
- Number of volunteers is decreased compared to the 1st round of 16th NID

### 17<sup>th</sup> NID Site and CTC Search Coverage by Division



OPV will be provided to all 0-59 months age children in upcoming 2<sup>nd</sup> round of 17<sup>th</sup> NIDs on 3 January 2009. One concern for the 2<sup>nd</sup> round is that Albendazole will be provided to children 24-59 months of age at the fixed and outreach sites with OPV. One volunteer in each site should be designated as Albendazole provider.

To achieve high coverage in the upcoming 2<sup>nd</sup> round local initiative 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 visit by field workers and volunteers, strengthening of mobile and mosque miking for better IPC, ensure deployment of institutional volunteers, re-orientation of volunteers and field workers to ensure adequate knowledge of NIDs strategies and proper method of providing OPV to the children 24-59 months of age before administration of Albendazole. EPI takes the opportunity to thank all NID volunteers, Field workers, GoB and NGO staff, Partners, and parents of the children for their active role to make the 17<sup>th</sup> NIDs success. We believe that we will come out victorious in the war against polio.

## Surveillance Summary

Description	2001	2002	2003	2004	2005	2006	2007	2008 <sup>1</sup>
Number of AFP cases	1287	1365	1128	1301	1458	1619	1844	1712
No. of compatible cases according to virologic classification system	36	0	0	2	0	2	0	0
No. of cases with isolation of wild poliovirus	0	0	0	0	0	18	0	0
No. of discarded polio cases (i.e., non-polio AFP)	1251	1365	1128	1299	1458	1599	1844	1662
No. of cases pending classification	0	0	0	0	0	0	0	50
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)*	533	549	556	563	1094	1114	1135	1153

## AFP Surveillance Performance Indicators

Indicators	Target	2001	2002	2003	2004	2005	2006	2007	2008 <sup>1</sup>
01 Annual Non-Polio AFP rate in children < 15 years old	≥ 2.0	2.34	2.49	2.03	2.31	2.66	2.87	3.25	2.99
02 Completeness of passive reporting from facilities	≥ 90%	65%	62%	67%	82%	91%	89%	90%	94%
03 Timeliness of passive reporting from facilities	≥ 80%	38%	36%	62%	75%	84%	83%	85%	88%
04 Suspected AFP cases investigated within 48 hours of notification	≥ 80%	96%	96%	98%	98%	99%	100%	99%	99%
05 Confirmed AFP cases with 2 stool specimens collected within 14 days after paralysis onset	≥ 80%	80%	89%	90%	90%	92%	93%	92%	93%
06 Stool specimens arriving at laboratory within 3 days after collection	≥ 80%	97%	98%	99%	99%	98%	99%	100%	100%
07 Stool specimens arriving at laboratory in "good" condition "good" = 1. Presence of unmetted 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%	100%	99%	100%	100%	100%	100%	100%	100%
08 Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	93%	99%	100%	98%	99%	100%	100%	98% <sup>2</sup>
09 Stool specimens with laboratory results: - Within 28 days after specimen receipt (old algorithm)	≥ 80%	99%	100%	100%	100%	100%	98%	100%	-
- Within 14 days after specimen receipt (new algorithm)	≥ 80%							80%	94%
10 Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	29%	28%	23%	20%	20%	15%	15%	23%

<sup>1</sup> Data as of December 13, 2008; <sup>2</sup> among cases occurring up to September 28, 2008; \* Prior to 2005 NPAFP rate calculated as 1/100,000 under 15 children

# AFP Surveillance Performance Indicators, 2007 - 2008

District	Minimum operational target of 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>1</sup>		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>2</sup>	
	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008
<b>Barisal Division</b>																								
Barguna	7	7	23	12					23	12	0	0	6.25	3.36	100%	100%	100%	100%	87%	100%	100%	100%	100%	100%
Barisal (non BCC)	18	18	48	47					48	46	0	1	5.30	5.26	92%	96%	100%	98%	90%	94%	100%	100%	100%	100%
BCC only	2	2	4	4					4	4	0	0	3.87	3.95	100%	100%	100%	100%	100%	100%	100%	100%	NA	100%
Bhola	15	16	39	59					39	58	0	1	5.08	7.74	95%	95%	100%	100%	97%	98%	97%	100%	100%	100%
Jhalakati	6	6	12	13					12	12	0	1	4.10	4.24	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Patuakhali	13	13	35	24					35	24	0	0	5.30	3.73	97%	92%	100%	100%	97%	92%	97%	100%	100%	100%
Perojpur	10	10	18	21					18	19	0	2	3.79	4.12	100%	90%	100%	100%	100%	90%	100%	100%	100%	100%
<b>Total-BAR</b>	<b>71</b>	<b>72</b>	<b>179</b>	<b>180</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>179</b>	<b>175</b>	<b>0</b>	<b>5</b>	<b>5.01</b>	<b>5.04</b>	<b>96%</b>	<b>95%</b>	<b>100%</b>	<b>99%</b>	<b>94%</b>	<b>96%</b>	<b>99%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>CTG Division</b>																								
Bandarban	3	3	4	4					4	4	0	0	2.78	2.82	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%
Brahmanbaria	21	21	40	30					40	30	0	0	3.81	2.94	90%	97%	98%	100%	90%	100%	100%	100%	100%	100%
Chandpur	22	22	34	29					34	28	0	1	3.14	2.60	94%	100%	100%	100%	94%	90%	100%	100%	100%	100%
Chittagong (non CCC)	39	39	53	39					53	38	0	1	2.74	2.02	92%	92%	100%	100%	91%	87%	100%	100%	100%	100%
CCC only	22	22	20	22					20	22	0	0	1.85	2.05	100%	86%	95%	100%	95%	86%	100%	100%	100%	100%
Comilla	41	42	81	59					81	58	0	1	3.94	2.89	98%	100%	100%	100%	94%	98%	100%	98%	100%	93%
Cox's Bazar	17	17	27	19					27	19	0	0	3.25	2.33	93%	95%	100%	100%	93%	95%	100%	100%	100%	100%
Feni	11	11	24	17					24	17	0	0	4.44	3.22	96%	100%	100%	100%	96%	94%	100%	100%	100%	100%
Khagrachari	6	6	12	7					12	6	0	1	4.30	2.14	92%	100%	100%	100%	100%	86%	92%	100%	100%	NA
Lakshmipur	13	13	34	20					34	19	0	1	5.13	2.94	97%	90%	100%	100%	100%	85%	100%	100%	100%	100%
Noakhali	23	24	27	25					27	24	0	1	2.32	2.11	96%	100%	96%	96%	89%	88%	100%	100%	100%	100%
Rangamati	5	5	7	3					7	3	0	0	2.73	1.18	100%	67%	86%	100%	100%	67%	100%	100%	50%	100%
<b>Total-CTG</b>	<b>223</b>	<b>225</b>	<b>363</b>	<b>274</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>363</b>	<b>268</b>	<b>0</b>	<b>6</b>	<b>3.27</b>	<b>2.47</b>	<b>95%</b>	<b>96%</b>	<b>99%</b>	<b>100%</b>	<b>94%</b>	<b>92%</b>	<b>100%</b>	<b>100%</b>	<b>99%</b>	<b>97%</b>
<b>Dhaka Division</b>																								
Dhaka (non DCC)	27	28	47	45					47	45	0	0	3.47	3.29	91%	89%	100%	100%	91%	87%	100%	100%	100%	100%
DCC only	67	71	77	85					77	82	0	3	2.29	2.42	91%	87%	100%	100%	94%	91%	100%	100%	100%	93%
Faridpur	16	16	44	34					44	30	0	4	5.58	3.90	95%	88%	100%	94%	93%	88%	100%	100%	100%	100%
Gazipur	18	19	23	27					23	26	0	1	2.52	2.92	96%	93%	100%	100%	96%	93%	100%	100%	100%	100%
Gopalganj	10	10	19	30					19	28	0	2	3.79	5.76	100%	77%	100%	97%	89%	77%	100%	100%	100%	100%
Jamalpur	19	19	49	50					49	50	0	0	5.17	5.41	96%	98%	98%	92%	94%	100%	100%	100%	100%	83%
Kishoreganj	23	23	34	37					34	35	0	2	3.02	3.19	85%	95%	100%	100%	88%	97%	100%	100%	100%	100%
Madaripur	10	10	22	20					22	20	0	0	4.52	4.25	100%	100%	100%	100%	100%	95%	100%	100%	100%	100%
Manikganj	11	12	17	18					17	17	0	1	2.97	3.05	100%	94%	100%	100%	94%	100%	100%	100%	100%	100%
Munshiganj	11	11	26	27					26	26	0	1	4.65	4.80	92%	100%	100%	96%	96%	100%	100%	100%	100%	100%
Mymensingh	40	40	49	46					49	43	0	3	2.47	2.23	90%	85%	100%	98%	90%	89%	100%	100%	100%	87%
Narayanganj	20	20	30	23					30	22	0	1	2.99	2.24	87%	91%	100%	100%	90%	91%	100%	100%	100%	89%
Narsingdhi	18	18	24	25					24	25	0	0	2.71	2.87	88%	100%	100%	100%	92%	100%	100%	100%	100%	100%
Netrokona	18	18	42	27					42	26	0	1	4.75	3.02	93%	89%	100%	100%	86%	96%	100%	100%	100%	100%
Rajbari	9	9	13	13					13	12	0	1	3.05	2.89	100%	85%	100%	100%	100%	85%	100%	100%	100%	100%
Sariatpur	10	10	21	25					21	25	0	0	4.34	5.30	100%	88%	100%	96%	95%	92%	100%	100%	100%	100%
Sherpur	11	11	21	18					21	18	0	0	3.75	3.31	81%	100%	100%	100%	90%	100%	100%	100%	100%	89%
Tangail	28	29	42	46					42	45	0	1	2.96	3.27	86%	87%	100%	100%	93%	91%	100%	100%	100%	94%
<b>Total-DHAKA</b>	<b>366</b>	<b>374</b>	<b>600</b>	<b>596</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>575</b>	<b>0</b>	<b>21</b>	<b>3.29</b>	<b>3.20</b>	<b>92%</b>	<b>91%</b>	<b>100%</b>	<b>98%</b>	<b>92%</b>	<b>92%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>96%</b>
<b>Khulna Division</b>																								
Bagerhat	13	13	19	19					19	19	0	0	2.92	3.02	100%	100%	100%	100%	95%	100%	100%	100%	100%	100%
Chuadanga	10	10	14	22					14	22	0	0	2.95	4.71	93%	95%	100%	100%	100%	86%	86%	100%	100%	100%
Jessore	22	23	38	34					38	34	0	0	3.38	3.10	95%	88%	97%	100%	95%	82%	100%	100%	100%	100%
Jhenaidah	14	14	23	19					23	18	0	1	3.25	2.61	100%	95%	100%	100%	87%	84%	100%	100%	100%	100%
Khulna (non KCC)	13	13	25	22					25	20	0	2	3.90	3.22	96%	95%	100%	100%	100%	95%	100%	100%	100%	100%
KCC only	8	8	10	7					10	7	0	0	2.42	1.73	100%	86%	100%	100%	90%	100%	100%	100%	100%	67%
Kushtia	16	16	21	27					21	25	0	2	2.66	3.25	90%	96%	95%	89%	86%	93%	100%	100%	100%	100%
Magura	7	8	14	13					14	12	0	1	3.74	3.27	100%	85%	100%	100%	100%	85%	100%	100%	100%	100%
Meherpur	5	6	15	13					15	13	0	0	5.54	4.90	93%	92%	93%	100%	93%	100%	100%	100%	100%	100%
Narail	6	6	10	19					10	18	0	1	3.36	6.25	90%	84%	100%	100%	100%	89%	100%	100%	NA	100%
Satkhira	17	17	21	27					21	26	0	1	2.52	3.20	90%	100%	100%	100%	90%	93%	100%	100%	100%	86%
<b>Total-KHU</b>	<b>131</b>	<b>134</b>	<b>210</b>	<b>222</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>210</b>	<b>214</b>	<b>0</b>	<b>8</b>	<b>3.20</b>	<b>3.34</b>	<b>95%</b>	<b>93%</b>	<b>99%</b>	<b>99%</b>	<b>94%</b>	<b>91%</b>	<b>99%</b>	<b>100%</b>	<b>100%</b>	<b>96%</b>
<b>Raj Division</b>					</																			

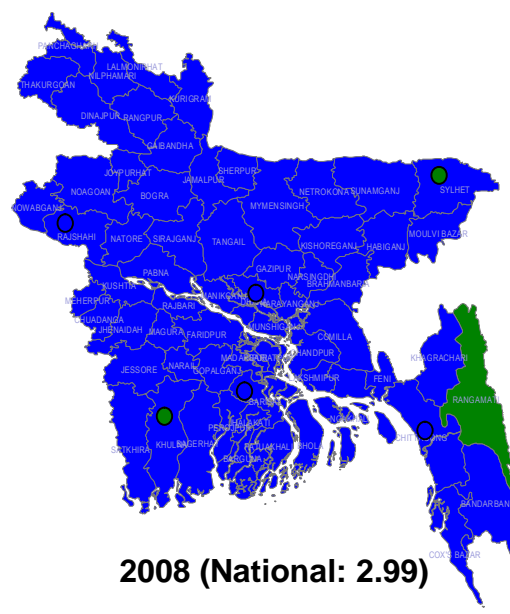
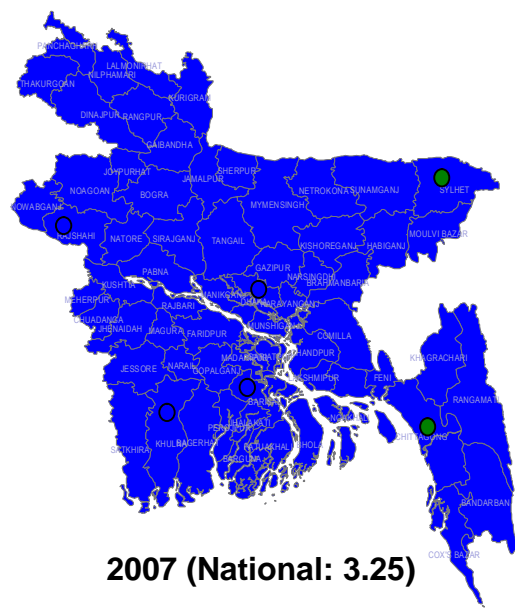
# Disease Surveillance, 2007 - 2008

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			
	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008
<b>Barisal Division</b>																
Barguna	4		2	1			4	1	18	18					11	14
Barisal (non BCC)	1	2	1	6	3	2	4	2	8	21					27	42
BCC only	1				1		3								0	1
Bhola	4	2	6	6	5	5			13	5					16	14
Jhalakhati	1	3		3	1	3	3	2	5	2					10	6
Patuakhali	1		3				14	4	21	14					6	5
Pirojpur			1	1			1			9					24	14
<b>Total BAR</b>	<b>12</b>	<b>7</b>	<b>13</b>	<b>17</b>	<b>10</b>	<b>10</b>	<b>29</b>	<b>9</b>	<b>65</b>	<b>69</b>			<b>0</b>	<b>0</b>	<b>94</b>	<b>96</b>
<b>CTG Division</b>																
Bandarban	9								6						4	6
Brahmanbaria		5	12	5	10	7				18					6	25
Chandpur	2		1	2		2	1	3	52	45					21	45
Chittagong (non CCC)	2	1	5				1	4	6	10					3	10
CCC only	1	2	2	3	2	2	3	8	6	6					2	7
Comilla	2	1	2		1	1		1	31	11					5	10
Cox's Bazar	6		1	1	2		1		3						9	4
Feni	1		8		6				27	19					7	16
Khagrachari	3		1		1				2	1					7	4
Laxmipur	9	3	2	3	4	3			32	46					15	21
Noakhali		3	6	3	10	3	3	2	2	8					6	12
Rangamati							1		7	1					1	
<b>Total-CTG</b>	<b>35</b>	<b>15</b>	<b>40</b>	<b>17</b>	<b>36</b>	<b>18</b>	<b>10</b>	<b>18</b>	<b>174</b>	<b>165</b>			<b>0</b>	<b>0</b>	<b>86</b>	<b>160</b>
<b>Dhaka Division</b>																
Dhaka (non DCC)		2	4	1		1		1	81	58					38	40
DCC only	2	2	5	4		5	18	25	444	578	2(100%)		521		71	158
Faridpur	1	1	3	1	1				33	28					50	79
Gazipur	2	3	4	1	1	3	4	3	5	3	1(100%)		177		11	16
Gopalganj	1	2	3	4		3		1	19	21					10	26
Jamalpur	2	1	7	4	2	1			44	57					31	39
Kishoreganj	15	6	15	7	5	3	11	12	13	29					21	44
Madaripur	1	4	1	3	1	4	1	3	38	48					53	72
Manikganj		2	3	1		1	2		124	89					43	39
Munshiganj		2	3			1	3	2	158	175					40	64
Mymensingh	10	4	13	5	12	5	7	1	14	67					24	74
Narayanganj	1	1	2		1			1	47	67	1(100%)		80		23	37
Narsingdhi		2	1			1	1	3	2	3					20	11
Netrokona	3	1	5	4	5	2	3		57	32					29	31
Rajbari									21	39					9	107
Shariatpur	1		1	1				2	20	23					41	58
Sherpur	1	1	2	2					20	29					12	24
Tangail	3	4	1	4	3	2	18	9	21	19					16	60
<b>Total-DHAKA</b>	<b>43</b>	<b>38</b>	<b>73</b>	<b>42</b>	<b>31</b>	<b>32</b>	<b>68</b>	<b>63</b>	<b>1,161</b>	<b>1,365</b>	<b>4(100%)</b>		<b>778</b>	<b>0</b>	<b>542</b>	<b>979</b>
<b>Khulna Division</b>																
Bagerhat	3	3	5	5	2	2	1	2	17	51					43	39
Chuadanga		1	1	1		1	2	2	40	31					22	22
Jessore	4		6		4		2	14	5	63					21	21
Jhenaidah	1		1		1		2		7	20					18	24
Khulna (non KCC)	2				1			1	46	11					38	34
KCC only	1		2					3	1	8					7	16
Kushtia	5	3	4	1	5	3	4		82	45					26	21
Magura							3	5	21	65					9	18
Meherpur			1						20	11					9	4
Narail	4	3	2	3	5	4	1	1	9	14					5	12
Satkhira	2	2	2	1	2	3	1		18	7					28	26
<b>Total-KHU</b>	<b>22</b>	<b>12</b>	<b>24</b>	<b>11</b>	<b>20</b>	<b>13</b>	<b>16</b>	<b>28</b>	<b>266</b>	<b>326</b>			<b>0</b>	<b>0</b>	<b>226</b>	<b>237</b>
<b>Raj Division</b>																
Bogra	4	2	2	3	5	3	9	2	12	23					89	111
Dinajpur	4	3	7	3	4	3		6	10	19					29	47
Gaibandha	1	1	4	2	3	4				2					10	40
Joypurhat								2	7	14					15	25
Kurigram	1				1			3		7					3	17
Lalmonirhat	1	2				1		1	4	1					16	20
Natore	3	4	4	2	3	3	5	4	25	67					18	47
Nilphamari		1		1		2									18	21
Noagoan	3	2	2	3	3	2	4	7	29	86					22	41
Nowabganj	1	2	1	2	1	2	2	4	10	36					19	22
Pabna	1	3	3	2	1	1		19	9	60					19	40
Panchagarh	1	1	2	1	1	1		2	6	5					18	16
Rajshahi (non RCC)	2	3	1	3	2	3	7	8	20	31					29	39
RCC only								3	161	62	1 (100%)		49		27	45
Rangpur	2	1				1		1		2					7	29
Sirajganj	1				1		2		12	3					7	13
Thakurgaon	2	1	5	1	2	1	1	4	3	5					38	32
<b>Total-RAJ</b>	<b>27</b>	<b>26</b>	<b>31</b>	<b>23</b>	<b>27</b>	<b>27</b>	<b>30</b>	<b>66</b>	<b>308</b>	<b>423</b>	<b>1 (100%)</b>		<b>49</b>	<b>0</b>	<b>384</b>	<b>605</b>
<b>Sylhet Division</b>																
Habiganj	7	3	6	4	7	6			14	10					23	22
Maulvibazar	6	7	5	6	6	5	1		22	15					12	9
Sunamganj	11	8	11	6	14	8	31	28	46	40					13	19
Sylhet (non SCC)	3	5	3	5	3	7	2	6	35	30					8	7
SCC only		1					8	18	6	6					1	3
<b>Total-SYL</b>	<b>27</b>	<b>24</b>	<b>25</b>	<b>21</b>	<b>30</b>	<b>26</b>	<b>42</b>	<b>52</b>	<b>123</b>	<b>101</b>			<b>0</b>	<b>0</b>	<b>57</b>	<b>60</b>
<b>National</b>	<b>166</b>	<b>122</b>	<b>206</b>	<b>131</b>	<b>154</b>	<b>126</b>	<b>195</b>	<b>236</b>	<b>2,097</b>	<b>2,449</b>	<b>5 (100%)</b>	<b>0</b>	<b>827</b>	<b>0</b>	<b>1,389</b>	<b>2,137</b>

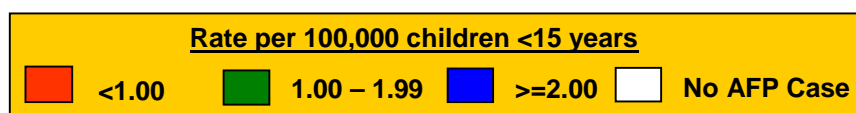
Data as of 18 December 2008, \* Only Lab Confirmed Measles and Mixed Type outbreak Cases

Data as of 18 December 2008, \* Only Lab Confirmed Measles and Mixed Type outbreak Cases

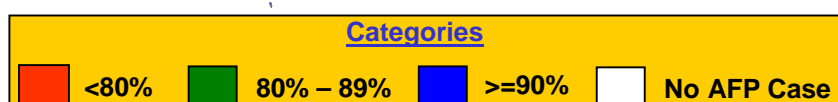
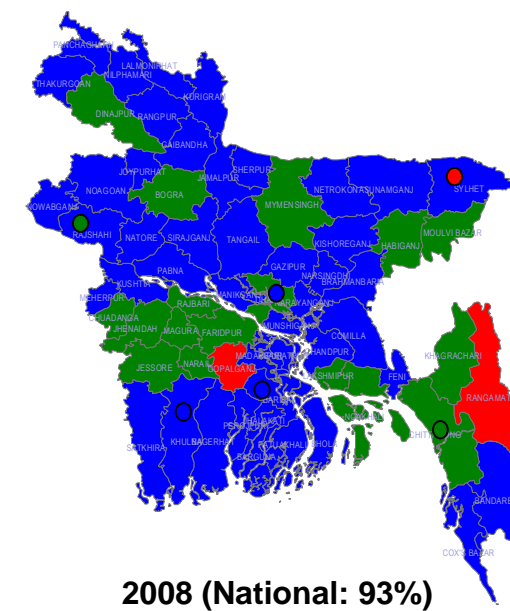
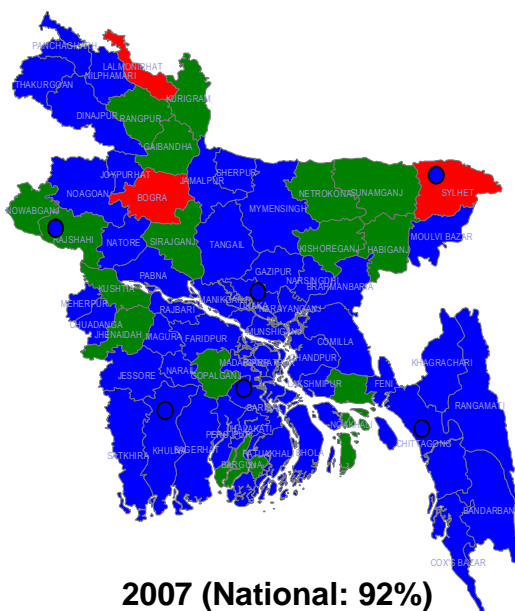
## Annualized Non-Polio AFP Rate, by District, Bangladesh 2007-2008\*



\*Data as of 13 December 2008



## Percentage of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2007-2008\*



\*Data as of 13 December 2008

International Developmental Partners for Polio Eradication in Bangladesh include Centers for Disease Control and Prevention, Atlanta, Governments of Japan, the Netherlands, USAID, Rotary International, U.K. DFID, UN Foundation, UNICEF and WHO