



# EPI Surveillance Bulletin

## Validation of Neonatal Tetanus Elimination in Bangladesh: A Major Public Health Success in EPI

Bangladesh is a country with 146 million inhabitants and about 4 million births annually, had in the 1980s one of the highest neonatal tetanus (NT) mortality rates in the world. In 1985, survey finding revealed that, prior to introduction of TT vaccination; NT mortality rate was 41 per 1000 live births causing more than 100,000 neonatal deaths due to NT in a year. To save millions of lives, TT vaccination introduced in Bangladesh (EPI) in 1979 along with childhood vaccination. A woman needs a total of 5 TT doses for protecting herself and ensure the protection her newborn at birth from tetanus. To achieve the goal of neonatal tetanus elimination, Government of Bangladesh started WHO recommended TT 5 dose schedule in 1993 resulting sharp fall of NT incidence rates: The survey results showed that NT rates had fallen 6 per 1000 live births in 1994 to 2.3 per 1000 live births in 2000.

In order to achieve the elimination goal of **less than 1 NT case per 1000 live births**, the National EPI together with its partner organizations (UNICEF, WHO) initiated Tetanus Toxoid (TT) supplemental immunization activities (SIAs) in 1995 targeting all eligible women (15-49 years) in hard to reach and high risk areas. TT SIAs were also conducted in 1999, 2000, 2001, 2005 and 2006. In addition, efforts were made to the improve access to safe & clean deliveries through Emergency Obstetric Care (EOC), expanding Skill Birth Attendant Training and establishing Satellite Clinics at the peripheral health units and strengthened social mobilization. Hence the number of reported cases of neonatal tetanus dropped from 276 in 2001 to 162 in 2006 and 154 in 2007.

In May 2008, National EPI in collaboration with WHO and UNICEF, carried out an evaluation (Lot Quality Assurance- Cluster Survey) to determine whether Neonatal Tetanus had been eliminated in Bangladesh. Two surveys were performed in Sunamganj and Rangamati districts where children were considered to be at the highest risk from neonatal tetanus. Sunamganj was selected as the poorest performing high risk district based on selected key indicators for scoring the districts. Rangamati considered the worst performing among 3 hill districts was purposively selected. The eligibility period of live birth for the survey was in between 15 April 2007 and 14 April 2008. Total numbers of live births surveyed were 1003 in Sunamganj and 982 in Rangamati. 28 Neonatal Deaths recorded in each of the districts. The neonatal death rate estimated from the survey is 28.5 (15.8-41.1) in Rangamati and 27.9 (17.4-38.3) in Sunamganj, comparable to a national rate 37 (BDHS 2007). The survey also assessed TT vaccination coverage and delivery practices.

These surveys found that no deaths from Neonatal Tetanus occurred in Rangamati and Sunamganj districts between 15 April 2007 and 14 April 2008; **this suggests that neonatal tetanus has been eliminated in these two high risk districts. It is likely that the disease has also been eliminated in other districts in the country where infants are considered to be at a lower risk.** This conclusion is further supported by the findings that in each of the districts, over 80% of mothers had received a protective dose of TT, based on immunization card and history. TT immunization is essential to protect mothers and newborns as the vast majority of deliveries at home (>80%). These surveys also found that most of the causes of deaths are birth asphyxia, low birth weight, pneumonia and sepsis.

**Elimination of NT in Bangladesh is to be considered as a major public health success.** Maintaining NT elimination status, Bangladesh requires continued strengthening of routine TT immunization and SIAs in high risk areas. But more importantly, deliveries with trained birth attendants and or in health facilities should be a priority. Surveillance for NT should be strengthened; all NT cases should be investigated and Case Response Immunization (CRI) should be conducted in areas where a case is found. This success has been achieved through the joint efforts and steadfast commitment of all field workers and managers of Health and Family Planning departments, Partners, NGOs and other health service providers which needs to be continued for sustaining the achievement.

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	997	
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	817	
No. of cases pending classification	0	0	0	0	0	0	0	180	
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	2.63
02 Completeness of passive reporting from facilities	≥ 90%	65%	62%	67%	82%	91%	89%	90%	93%
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 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%	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) - Within 14 days after specimen receipt (new algorithm)	≥ 80%	99%	100%	100%	100%	100%	98%	100%	- 80% <sup>3</sup>
10 Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	29%	28%	23%	20%	20%	15%	15%	24%

<sup>1</sup> Data as of July 12, 2008; <sup>2</sup> among cases occurring up to April 27, 2008; <sup>3</sup> as of June 28, 2008; \* Prior to 2005 NPAFP rate calculated as 1/100,000 under 15 children

## AFP Surveillance Performance Indicators, 2007 - 2008

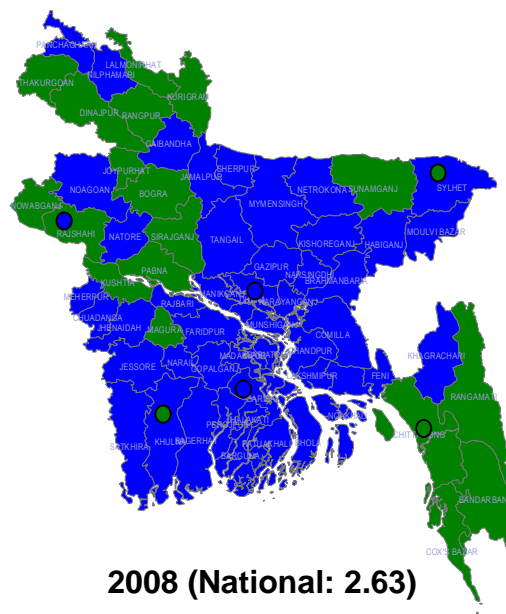
District	Minimum operational target of non-polio AFP		Total # AFP <sup>1</sup>		Wild polio-virus isolated		# Compatible cases		Non-Polio AFP cases <sup>1</sup>		Pending final classif. <sup>1</sup>		Annualized Non-Polio AFP Rate <sup>2</sup>		Notification within 10 d after paralysis onset <sup>1</sup>		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	8					23	7	0	1	6.25	3.50	100%	100%	100%	100%	87%	100%	100%	100%	100%	100%
Barisal (non BCC)	18	18	48	28					48	23	0	5	5.30	4.70	92%	93%	100%	100%	90%	93%	100%	100%	100%	100%
BCC only	2	2	4	4					4	2	0	2	3.87	3.53	100%	100%	100%	100%	100%	100%	100%	100%	NA	100%
Bhola	15	16	39	34					39	29	0	5	5.08	6.91	95%	97%	100%	100%	97%	100%	97%	100%	100%	100%
Jhalakati	6	6	12	6					12	6	0		4.10	3.79	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Patuakhali	13	13	35	13					35	10	0	3	5.30	2.77	97%	92%	100%	100%	97%	85%	97%	100%	100%	100%
Perojpur	10	10	18	12					18	9	0	3	3.79	3.48	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
<b>Total-BAR</b>	<b>71</b>	<b>72</b>	<b>179</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>179</b>	<b>86</b>	<b>0</b>	<b>19</b>	<b>5.01</b>	<b>4.42</b>	<b>96%</b>	<b>96%</b>	<b>100%</b>	<b>100%</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	2					4	1	0	1	2.78	1.26	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Brahmanbaria	21	21	40	17					40	15	0	2	3.81	2.62	90%	94%	98%	100%	90%	100%	100%	100%	100%	100%
Chandpur	22	22	34	16					34	13	0	3	3.14	2.16	94%	100%	100%	100%	94%	88%	100%	100%	100%	100%
Chittagong (non CCC)	39	39	53	23					53	17	0	6	2.74	1.61	92%	91%	100%	100%	91%	100%	100%	100%	100%	100%
CCC only	22	22	20	13					20	10	0	3	1.85	1.67	100%	92%	95%	100%	95%	92%	100%	100%	100%	0%
Comilla	41	42	81	30					81	29	0	1	3.94	2.58	98%	100%	100%	100%	94%	97%	100%	97%	100%	83%
Cox's Bazar	17	17	27	9					27	7	0	2	3.25	1.53	93%	89%	100%	93%	89%	100%	100%	100%	100%	100%
Feni	11	11	24	11					24	9	0	2	4.44	3.05	96%	100%	100%	100%	96%	91%	100%	100%	100%	100%
Khagrachari	6	6	12	6					12	5	0	1	4.30	3.18	92%	100%	100%	100%	100%	92%	100%	100%	100%	NA
Lakshmipur	13	13	34	11					34	9	0	2	5.13	2.49	97%	82%	100%	100%	100%	73%	100%	100%	100%	100%
Noakhali	23	24	27	16					27	14	0	2	2.32	2.20	96%	100%	96%	100%	89%	94%	100%	100%	100%	100%
Rangamati	5	5	7	3					7	2	0	1	2.73	1.41	100%	67%	86%	100%	100%	67%	100%	100%	50%	NA
<b>Total-CTG</b>	<b>223</b>	<b>225</b>	<b>363</b>	<b>157</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>363</b>	<b>131</b>	<b>0</b>	<b>26</b>	<b>3.27</b>	<b>2.15</b>	<b>95%</b>	<b>95%</b>	<b>99%</b>	<b>100%</b>	<b>94%</b>	<b>92%</b>	<b>100%</b>	<b>99%</b>	<b>95%</b>	<b>94%</b>
<b>Dhaka Division</b>																								
Dhaka (non DCC)	27	28	47	29					47	23	0	6	3.47	3.00	91%	90%	100%	100%	91%	86%	100%	100%	100%	100%
DCC only	67	71	77	44					77	38	0	6	2.29	2.00	91%	91%	100%	100%	94%	95%	100%	100%	100%	100%
Faridpur	16	16	44	19					44	15	0	4	5.58	3.48	95%	100%	100%	95%	93%	100%	100%	100%	100%	100%
Gazipur	18	19	23	15					23	14	0	1	2.52	2.81	96%	100%	100%	96%	100%	100%	100%	100%	100%	100%
Gopalganj	10	10	19	20					19	14	0	6	3.79	5.14	100%	75%	100%	100%	89%	75%	100%	100%	100%	100%
Jamalpur	19	19	49	30					49	28	0	2	5.17	5.41	96%	97%	98%	87%	94%	100%	100%	100%	100%	100%
Kishoreganj	23	23	34	22					34	19	0	3	3.02	3.10	85%	95%	100%	100%	88%	95%	100%	95%	100%	100%
Madaripur	10	10	22	14					22	14	0		4.52	5.31	100%	93%	100%	100%	100%	93%	100%	100%	100%	100%
Manikganj	11	12	17	9					17	8	0	1	2.97	2.57	100%	100%	100%	100%	94%	100%	100%	100%	100%	100%
Munshiganj	11	11	26	19					26	14	0	5	4.65	4.61	92%	100%	100%	96%	100%	100%	100%	100%	100%	100%
Mymensingh	40	40	49	30					49	26	0	4	2.47	2.40	90%	87%	100%	100%	90%	93%	100%	100%	100%	100%
Narayanganj	20	20	30	13					30	13	0		2.99	2.36	87%	100%	100%	100%	90%	100%	100%	100%	100%	100%
Narsingdhi	18	18	24	16					24	14	0	2	2.71	2.87	88%	100%	100%	100%	92%	94%	100%	100%	100%	100%
Netrokona	18	18	42	16					42	14	0	2	4.75	2.90	93%	94%	100%	100%	86%	100%	100%	100%	100%	100%
Rajbari	9	9	13	6					13	6	0		3.05	2.58	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
Sariatpur	10	10	21	12					21	11	0	1	4.34	4.17	100%	92%	100%	92%	95%	92%	100%	100%	100%	100%
Sherpur	11	11	21	13					21	8	0	5	3.75	2.63	81%	100%	100%	90%	100%	100%	100%	100%	100%	100%
Tangail	28	29	42	23					42	21	0	2	2.96	2.72	86%	78%	100%	100%	93%	91%	100%	100%	100%	100%
<b>Total-DHAKA</b>	<b>366</b>	<b>374</b>	<b>600</b>	<b>350</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>300</b>	<b>0</b>	<b>50</b>	<b>3.29</b>	<b>2.98</b>	<b>92%</b>	<b>93%</b>	<b>100%</b>	<b>98%</b>	<b>92%</b>	<b>95%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Khulna Division</b>																								
Bagerhat	13	13	19	17					19	10	0	7	2.92	2.84	100%	100%	100%	94%	95%	100%	100%	100%	100%	100%
Chuadanga	10	10	14	14					14	13	0	1	2.95	4.97	93%	100%	100%	100%	93%	86%	100%	100%	100%	100%
Jessore	22	23	38	20					38	13	0	7	3.38	2.12	95%	80%	97%	100%	95%	75%	100%	100%	100%	100%
Jhenaidah	14	14	23	11					23	8	0	3	3.25	2.07	100%	100%	100%	100%	87%	82%	100%	100%	100%	100%
Khulna (non KCC)	13	13	25	12					25	9	0	3	3.90	2.59	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%
KCC only	8	8	10	5					10	4	0	1	2.42	1.77	100%	80%	100%	100%	90%	100%	100%	100%	100%	100%
Kushtia	16	16	21	11					21	8	0	3	2.66	1.85	90%	91%	95%	91%	86%	82%	100%	100%	100%	100%
Magura	7	8	14	7					14	4	0	3	3.74	1.95	100%	86%	100%	100%	100%	86%	100%	100%	100%	100%
Meherpur	5	6	15	5					15	4	0	1	5.54	2.69	93%	80%	93%	100%	93%	100%	100%	100%	100%	NA
Narail	6	6	10	11					10	8	0	3	3.36	4.96	90%	91%	100%	100%	100%	91%	100%	100%	NA	100%
Satkhira	17	17	21	19					21	14	0	5	2.52	3.08	90%	100%	100%	100%	90%	89%	100%	100%	100%	67%
<b>Total-KHU</b>	<b>131</b>	<b>134</b>	<b>210</b>	<b>132</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>210</b>	<b>95</b>	<b>0</b>	<b>37</b>	<b>3.20</b>	<b>2.65</b>	<b>95%</b>	<b>93%</b>	<b>99%</b>	<b>98%</b>	<b>94%</b>	<b>89%</b>	<b>99%</b>	<b>100%</b>	<b>100%</b>	<b>95%</b>
<b>Raj Division</b>																								
Bogra	27	27	31	17					31	13	0	4	2.29	1.76	77%	82%	94%	100%	77%	82%	100%	100%	100%	100%
Dinajpur	24	24	35	14					35	10	0	4	2.91	1.52	86%	93%	97%	100%	91%	93%	100%	93%	100%	100%
Gaibandha	19	19	24	16					24	15	0	1	2.58	2.97	88%	81%	100%	88%	88%	94%	100%	100%	100%	100%
Joypurhat	8	8	13	5					13	4	0	1	3.45	1.95	85%	80%	100%	100%	92%	100%	100%	100%	100%	100%
Kurigram	15	16	26	11					26	7	0	4	3.36	1.66	85%	100%	100%	91%	88%	91%	100%	100%	100%	1

**Disease Surveillance, 2007 - 2008**

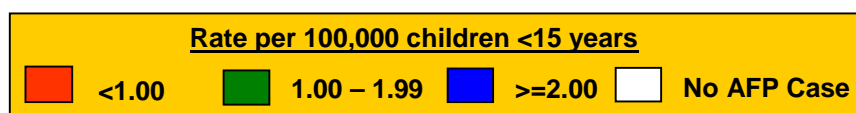
District	Neonatal Tetanus						Measles								AEFI	
	# of case reported by Active Surveillance		# of case reported by Passive Surveillance		# of case Investigated		# of case reported by Active Surveillance		# of case reported by Passive Surveillance		Outbreak*				# of case Reported	
	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	Number of Outbreak (% Investigated)		# of cases		2007	2008
<b>Barisal Division</b>																
Barguna	4		2	1			4	1	18	13					11	8
Barisal (non BCC)	1		1	1	3	1	4	2	8	7					27	25
BCC only	1				1		3								0	0
Bhola	4	2	6	3	5	2			13	3					16	8
Jhalakhati	1	2		1	1	2	3		5						10	3
Patuakhali	1		3				14	1	21	5					6	2
Pirojpur			1	1			1			1					24	5
<b>Total BAR</b>	<b>12</b>	<b>4</b>	<b>13</b>	<b>7</b>	<b>10</b>	<b>5</b>	<b>29</b>	<b>4</b>	<b>65</b>	<b>29</b>			<b>0</b>	<b>0</b>	<b>94</b>	<b>51</b>
<b>CTG Division</b>																
Bandarban									6						4	2
Brahmanbaria	9	2	12		10	2				15					6	16
Chandpur			1				1	3	52	23					21	24
Chittagong (non CCC)	2		5				1	3	6	9					3	9
CCC only	2		2		2		3	3	6						2	5
Comilla	1		2		1			1	31	5					5	7
Cox's Bazar	2		1		2		1		3						9	4
Feni	6		8		6				27	4					7	12
Khagrachari	1		1		1				2	1					7	1
Laxmipur	3	2	2	1	4	2			32	39					15	10
Noakhali	9		6		10		3	2	2	2					6	8
Rangamati							1		7						1	
<b>Total-CTG</b>	<b>35</b>	<b>4</b>	<b>40</b>	<b>1</b>	<b>36</b>	<b>4</b>	<b>10</b>	<b>12</b>	<b>174</b>	<b>98</b>			<b>0</b>	<b>0</b>	<b>86</b>	<b>98</b>
<b>Dhaka Division</b>																
Dhaka (non DCC)			4					1	81	47					38	31
DCC only	2	2	5	4		4	18	18	444	438	2(100%)		521		71	80
Faridpur	1		3		1				33	22					50	52
Gazipur	2	3	4	1	1	3	4	1	5	3	1(100%)		177		11	8
Gopalganj	1		3						19	15					10	20
Jamalpur	2	1	7	2	2	1			44	29					31	22
Kishoreganj	15	3	15	2	5	1	11	5	13	20					21	27
Madaripur	1	1	1	2	1		1		38	11					53	38
Manikganj			3				2		124	74					43	30
Munshiganj		1	3			1	3	2	158	154					40	40
Mymensingh	10	4	13	2	12	3	7		14	32					24	29
Narayanganj	1		2		1			1	47	46	1(100%)		80		23	17
Narsingdhi		1	1			1	1	2	2	1					20	8
Netrokona	3		5		5	1	3		57	19					29	17
Rajbari									21	16					9	48
Shariatpur	1		1					2	20	18					41	34
Sherpur	1		2						20	15					11	16
Tangail	3		1		3		18	7	21	9					16	29
<b>Total-DHAKA</b>	<b>43</b>	<b>16</b>	<b>73</b>	<b>13</b>	<b>31</b>	<b>15</b>	<b>68</b>	<b>39</b>	<b>1,161</b>	<b>969</b>	<b>4(100%)</b>		<b>778</b>	<b>0</b>	<b>541</b>	<b>546</b>
<b>Khulna Division</b>																
Bagerhat	3	1	5	2	2	1	1	1	17	36					43	23
Chuadanga			1				2	1	40	27					22	14
Jessore	4		6		4		2	9	5	40					21	10
Jhenaidah	1		1		1		2		7	6					18	13
Khulna (non KCC)	2				1			1	46	6					38	20
KCC only	1		2					1	1	4					7	8
Kushtia	5	2	4	1	5	2	4		82	36					26	11
Magura							3	3	21	41					9	12
Meherpur			1						20	10					9	2
Narail	4		2		5		1	1	9	2					5	6
Satkhira	2		2	1	2	1	1		18	5					28	17
<b>Total-KHU</b>	<b>22</b>	<b>3</b>	<b>24</b>	<b>4</b>	<b>20</b>	<b>4</b>	<b>16</b>	<b>17</b>	<b>266</b>	<b>213</b>			<b>0</b>	<b>0</b>	<b>226</b>	<b>136</b>
<b>Raj Division</b>																
Bogra	4	2	2	3	5	2	9	2	12	14					89	61
Dinajpur	4	2	7	2	4	2		1	10	12					29	32
Gaibandha	1		4	1	3	4									10	20
Joypurhat									7	11					15	12
Kurigram	1				1					2					3	9
Lalmonirhat	1	1							4						16	12
Natore	3		4		3		5	3	25	44					18	35
Nilphamari		1		1		1									18	9
Noagoan	3	1	2	2	3	1	4	4	29	65					22	29
Nowabganj	1		1		1		2	1	10	26					19	12
Pabna	1	2	3	2	1				9	23					19	19
Panchagarh	1		2		1				6	2					18	9
Rajshahi (non RCC)	2	1	1	2	2	1	7	6	20	8					29	25
RCC only								2	161	54	1(100%)		49		27	32
Rangpur	2							1		1					7	19
Sirajganj	1				1		2		12	3					7	11
Thakurgaon	2	1	5		2		1	2	3	2					38	20
<b>Total-RAJ</b>	<b>27</b>	<b>11</b>	<b>31</b>	<b>13</b>	<b>27</b>	<b>11</b>	<b>30</b>	<b>22</b>	<b>308</b>	<b>267</b>	<b>1(100%)</b>		<b>49</b>	<b>0</b>	<b>384</b>	<b>366</b>
<b>Sylhet Division</b>																
Habiganj	7	2	6	3	7	3			14	7					23	15
Maulvibazar	6	2	5	3	6	3	1		22	13					12	2
Sunamganj	11	3	11	1	14	4	31	23	46	34					13	17
Sylhet (non SCC)	3	5	3	5	3	5	2	5	35	22					8	3
SCC only		1					8	18	6	5					1	2
<b>Total-SYL</b>	<b>27</b>	<b>13</b>	<b>25</b>	<b>12</b>	<b>30</b>	<b>15</b>	<b>42</b>	<b>46</b>	<b>123</b>	<b>81</b>			<b>0</b>	<b>0</b>	<b>57</b>	<b>39</b>
<b>National</b>	<b>166</b>	<b>51</b>	<b>206</b>	<b>50</b>	<b>154</b>	<b>54</b>	<b>195</b>	<b>140</b>	<b>2,097</b>	<b>1,657</b>	<b>5(100%)</b>	<b>0</b>	<b>827</b>	<b>0</b>	<b>1,388</b>	<b>1,236</b>

Data as of 15 July 2008, \* Only Lab Confirmed Measles and Mixed Type outbreak Cases

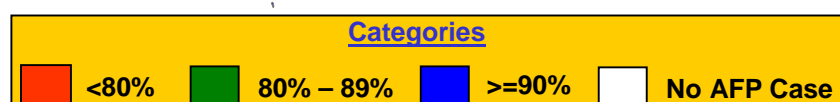
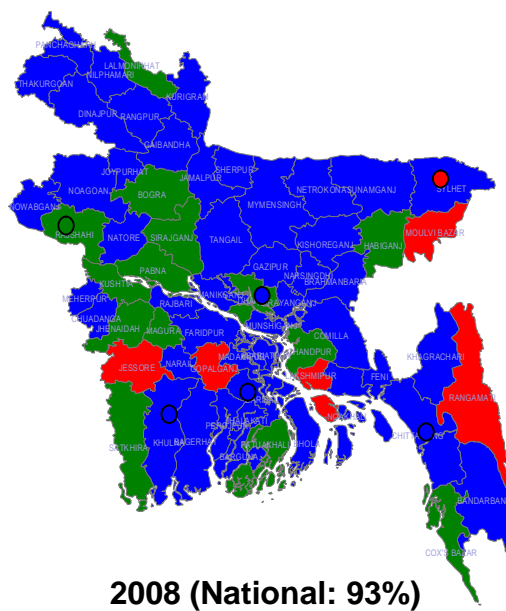
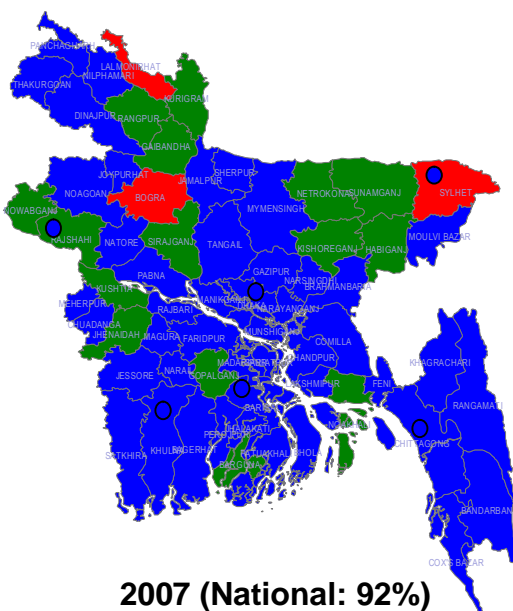
## Annualized Non-Polio AFP Rate, by District, Bangladesh 2007-2008\*



\*Data as of 12 July, 2008



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



\*Data as of 12 July, 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