



# EPI Surveillance Bulletin

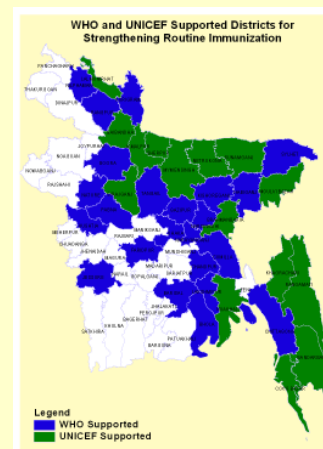
## Operational support for increasing DPT3 coverage in areas with Large number of Un-immunized Children under LAUNCH initiative

Bangladesh's Immunization Programme has achieved a tremendous success in the era of preventive health care. Although the vaccination coverage is high but due to large population Bangladesh became one of the top ten countries with Large number of Un-immunized Children (LAUNCH) with DPT3. From the Coverage Evaluation Survey (CES) 2006 it revealed that nationally 71% children were fully vaccinated with all antigens within the recommended time. The crude coverage was 97% for DPT1 and 84% for DPT3. That means out of 3,798,525 target children the number of children vaccinated with DTP3 was 3,175,567. So the number of missed children with DPT3 was 622,958 which belongs to all 64 Districts and 6 City Corporations (CC). It was difficult for national EPI to address all the 64 Districts and 6 CCs to vaccinate the children missed with DPT3. For that reason national EPI prioritized 35 Districts and 3 CCs which composed of 76% of the total missed children (475,664 out of 622,958). Out of this 35 Districts UNICEF already providing financial support in 12 low performing Districts and WHO is providing financial support in rest 23 Districts and 3 CCs from October 2007 through national EPI.

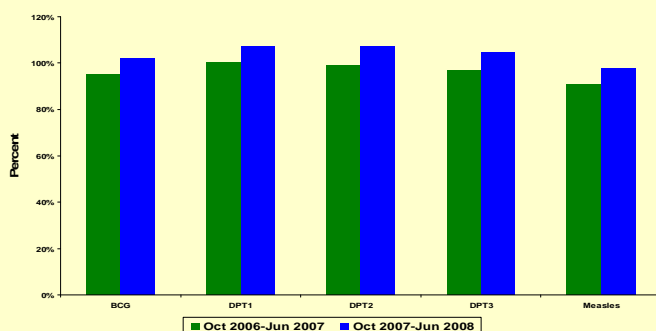
### The objectives of the LAUNCH initiative were:

1. To find out all left out and drop out children to vaccinate them as per vaccination schedule
2. To vaccinate maximum number of children with three doses of DPT
3. To ensure regular holding of routine EPI sessions and to organize special crush programme where needed
4. To ensure supply of vaccine in hard-to-reach areas
5. To organize quarterly meetings with field workers and supervisors to monitor the progress
6. To ensure regular supportive supervision from district and upazila

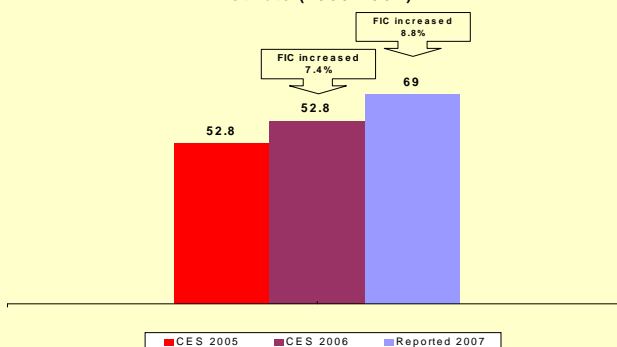
To find out the appropriate activities and additional financial support district level workshops were organized with the participation of Civil Surgeon, UH&FPOs, UFPOs, SMO, DIMO, EPI supervisors, MT-EPI and HIs. The participants reviewed the micro-plan 2007 and prepared the future action-plan which includes the activities and the financial support. The SMOs and DIMOs are regularly monitoring the progress and providing technical support.



Coverage Comparison in the LAUNCH Districts  
Oct 2006-Jun 2007 Vs Oct 2007-Jun 2008



Comparison of Coverage in 15 Low Performing Districts (2005-2007)



The above graphs show the progress rate of vaccination coverage of WHO supported 23 Districts and 3 CCs and coverage progress of FIC (Fully Immunized Children) in UNICEF supported Districts.

## 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	1211
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	995
No. of cases pending classification	0	0	0	0	0	0	0	216
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	2.80
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%	92%
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%	93% <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% 93%
10 Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	29%	28%	23%	20%	20%	15%	15%	25%

<sup>1</sup> Data as of August 9, 2008; <sup>2</sup> among cases occurring up to May 25, 2008; \* Prior to 2005 NPAPF 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>		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
Barisal Division																						
Barguna	7	7	23	11					23	8	0	3	100%	100%	100%	100%	87%	100%	100%	100%	100%	100%
Barisal (non BCC)	18	18	48	34					48	29	0	5	92%	94%	100%	100%	90%	94%	100%	100%	100%	100%
BCC only	2	2	4	4					4	4	0	0	100%	100%	100%	100%	100%	100%	100%	100%	NA	100%
Bhola	15	16	39	40					39	35	0	5	95%	95%	100%	100%	97%	98%	97%	100%	100%	100%
Jhalakati	6	6	12	8					12	6	0	2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Patuakhali	13	13	35	16					35	13	0	3	97%	88%	100%	100%	97%	88%	97%	100%	100%	100%
Perojpur	10	10	18	15					18	12	0	3	100%	87%	100%	100%	100%	93%	100%	100%	100%	100%
Total BAR	71	72	179	128	0	0	0	0	179	107	0	21	96%	94%	100%	100%	94%	95%	99%	100%	100%	100%
CTG Division																						
Bandarban	3	3	4	3					4	2	0	1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Brahmanbaria	21	21	40	18					40	17	0	1	90%	94%	98%	100%	90%	100%	100%	100%	100%	100%
Chandpur	22	22	34	17					34	16	0	1	94%	100%	100%	100%	94%	88%	100%	100%	100%	100%
Chittagong (non CCC)	39	39	53	31					53	21	0	10	92%	94%	100%	100%	91%	90%	100%	100%	100%	100%
CCC only	22	22	20	16					20	12	0	4	100%	88%	95%	100%	95%	88%	100%	100%	100%	50%
Comilla	41	42	81	39					81	31	0	8	98%	100%	100%	100%	94%	97%	100%	97%	100%	86%
Cox's Bazar	17	17	27	11					27	9	0	2	93%	91%	100%	100%	93%	91%	100%	100%	100%	100%
Feni	11	11	24	14					24	10	0	4	96%	100%	100%	100%	96%	93%	100%	100%	100%	100%
Khagrachari	6	6	12	6					12	6	0	0	92%	100%	100%	100%	100%	100%	92%	100%	100%	NA
Lakshmipur	13	13	34	11					34	10	0	1	97%	82%	100%	100%	100%	73%	100%	100%	100%	100%
Noakhali	23	24	27	17					27	15	0	2	96%	100%	96%	100%	89%	94%	100%	100%	100%	100%
Rangamati	5	5	7	3					7	2	0	1	100%	67%	86%	100%	100%	67%	100%	100%	50%	0%
Total-CTG	223	225	363	186	0	0	0	0	363	151	0	35	95%	95%	99%	100%	94%	92%	100%	99%	99%	91%
Dhaka Division																						
Dhaka (non DCC)	27	28	47	33					47	28	0	5	91%	88%	100%	100%	91%	85%	100%	100%	100%	90%
DCC only	67	71	77	58					77	47	0	11	91%	90%	100%	100%	94%	95%	100%	100%	100%	100%
Faridpur	16	16	44	23					44	19	0	4	95%	100%	100%	96%	93%	96%	100%	100%	100%	0%
Gazipur	18	19	23	20					23	16	0	4	96%	100%	100%	100%	96%	100%	100%	100%	100%	100%
Gopalganj	10	10	19	23					19	16	0	7	100%	78%	100%	100%	89%	78%	100%	100%	100%	100%
Jamalpur	19	19	49	37					49	33	0	4	96%	97%	98%	89%	94%	100%	100%	100%	100%	50%
Kishoreganj	23	23	34	26					34	21	0	5	85%	96%	100%	100%	88%	96%	100%	96%	100%	100%
Madaripur	10	10	22	15					22	14	0	1	100%	93%	100%	100%	100%	87%	100%	100%	100%	100%
Manikganj	11	12	17	13					17	9	0	4	100%	92%	100%	100%	94%	100%	100%	100%	100%	100%
Munshiganj	11	11	26	20					26	20	0	0	92%	100%	100%	100%	96%	100%	100%	100%	100%	67%
Mymensingh	40	40	49	33					49	32	0	1	90%	88%	100%	100%	90%	94%	100%	100%	100%	100%
Narayanganj	20	20	30	17					30	13	0	4	87%	94%	100%	100%	90%	94%	100%	100%	100%	100%
Narsingdhi	18	18	24	19					24	19	0	0	88%	100%	100%	100%	92%	100%	100%	100%	100%	100%
Netrokona	18	18	42	17					42	16	0	1	93%	94%	100%	100%	86%	100%	100%	100%	100%	100%
Rajbari	9	9	13	7					13	6	0	1	100%	86%	100%	100%	100%	86%	100%	100%	100%	NA
Sariatpur	10	10	21	16					21	12	0	4	100%	81%	100%	94%	95%	88%	100%	100%	100%	100%
Sherpur	11	11	21	15					21	13	0	2	81%	100%	100%	100%	90%	100%	100%	100%	100%	100%
Tangail	28	29	42	34					42	23	0	11	86%	82%	100%	100%	93%	88%	100%	100%	100%	90%
Total-DHAKA	366	374	600	426	0	0	0	0	600	357	0	69	92%	92%	100%	99%	92%	94%	100%	100%	100%	91%
Khulna Division																						
Bagerhat	13	13	19	16					19	16	0	0	100%	100%	100%	100%	95%	100%	100%	100%	100%	100%
Chuadanga	10	10	14	15					14	14	0	1	93%	100%	100%	100%	100%	93%	86%	100%	100%	100%
Jessore	22	23	38	25					38	18	0	7	95%	84%	97%	100%	95%	76%	100%	100%	100%	100%
Jhenaidah	14	14	23	13					23	11	0	2	100%	100%	100%	100%	87%	85%	100%	100%	100%	100%
Khulna (non KCC)	13	13	25	16					25	13	0	3	96%	100%	100%	100%	100%	94%	100%	100%	100%	100%
KCC only	8	8	10	5					10	5	0	0	100%	80%	100%	100%	90%	100%	100%	100%	100%	50%
Kushtia	16	16	21	19					21	12	0	7	90%	89%	95%	89%	86%	84%	100%	100%	100%	100%
Magura	7	8	14	11					14	8	0	3	100%	91%	100%	100%	100%	91%	100%	100%	100%	100%
Meherpur	5	6	15	7					15	5	0	2	93%	86%	93%	100%	93%	100%	100%	100%	100%	NA
Narail	6	6	10	13					10	10	0	3	90%	77%	100%	100%	100%	85%	100%	100%	NA	75%
Satkira	17	17	21	24					21	18	0	6	90%	100%	100%	100%	90%	92%	100%	100%	100%	75%
Total-KHU	131	134	210	164	0	0	0	0	210	130	0	34	95%	93%	99%	99%	94%	89%	99%	100%	100%	90%
Raj Division																						
Bogra	27	27	31	21					31	17	0	4	77%	86%	94%	100%	77%	86%	100%	100%	100%	100%
Dinajpur	24	24	35	15					35	13	0	2	86%	87%	97%	100%	91%	87%	100%	100%	100%	100%
Gaibandha	19	19	24	19					24	17	0	2	88%	84%	100%	89%	88%	95%	100%	100%	100%	100%
Joypurhat	8	8	13	8					13	5	0	3	85%	75%	100%	100%	92%	88%	100%	100%	100%	100%
Kurigram	15	16	26	12					26	11	0	1	85%	100%	100%	92%	88%	92%	100%	100%	100%	100%
Lalmonirhat	10	10	13	8					13	6	0	2	92%	88%	92%	100%	77%	88%	100%	100%	100%	100%
Natore	13	13	17	23					17	21	0	2	94%	96%	100%	100%	100%	100%	100%	100%	100%	71%
Nilphamari	14	14	21	21					21	16	0	5	100%	100%	90%	100%	95%	100%	100%	100%	100%	100%
Noagoan	21	21	24	16					24	14	0	2	92%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Nowabganj	13	13	26	15					26	11	0	4	96%	87%	100%	100%	85%	100%	100%	100%	100%	100%
Pabna	19	20	24																			

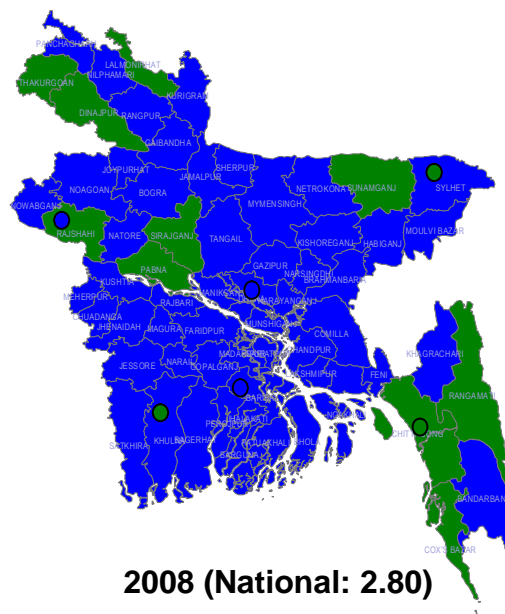
# Disease Surveillance, 2007 - 2008

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
Barisal Division																
Barguna	4		2	1			4	1	18	13					11	8
Barisal (non BCC)	1		1	1	3	1	4	2	8	9					27	27
BCC only	1				1		3								0	0
Bhola	4	2	6	3	5	2			13	4					16	10
Jhalakhati	1	2		1	1	2	3	1	5	1					10	6
Patuakhali	1		3				14	3	21	8					6	2
Pirojpur			1	1			1			2					24	6
Total BAR	12	4	13	7	10	5	29	7	65	37			0	0	94	59
CTG Division																
Bandarban	9	2							6						4	3
Brahmanbaria			12		10	2				17					6	21
Chandpur	2		1	1		1	1	3	52	35					21	34
Chittagong (non CCC)	2	1	5				1	3	6	9					3	9
CCC only	1		2		2	1	3	4	6						2	6
Comilla	2		2		1			1	31	6					5	7
Cox's Bazar	6		1		2		1		3						9	4
Feni	1		8		6				27	11					7	12
Khagrachari	3	3	1		1				2	1					7	1
Laxmipur	9	1	2	3	4	3			32	39					15	14
Noakhali			6	1	10	1	3	2	2	2					6	8
Rangamati							1		7	1					1	
Total-CTG	35	7	40	5	36	8	10	13	174	121			0	0	86	119
Dhaka Division																
Dhaka (non DCC)			4					1	81	49					38	33
DCC only	2	2	5	4		4	18	22	444	452	2(100%)		521		71	85
Faridpur	1		3	1	1				33	23					50	60
Gazipur	2	3	4	1	1	3	4	1	5	3	1(100%)		177		11	9
Gopalganj	1		3	1					19	15					10	26
Jamalpur	2	1	7	4	2	1			44	37					31	25
Kishoreganj	15	4	15	2	5	2	11	7	13	21					21	31
Madaripur	1	1	1	2	1	1	1	1	38	13					53	47
Manikganj		1	3	1		1	2		124	87					43	33
Munshiganj		1	3			1	3	2	158	160					40	46
Mymensingh	10	4	13	5	12	4	7		14	46					24	45
Narayanganj	1		2		1			1	47	60	1(100%)		80		23	19
Narsingdhi		1	1			1	1	3	2	3					20	8
Netrokona	3	1	5	2	5	1	3		57	29					29	23
Rajbari									21	22					9	61
Shariatpur	1		1					2	20	19					41	39
Sherpur	1		2						20	16					12	17
Tangail	3		1		3		18	7	21	14					16	34
Total-DHAKA	43	19	73	23	31	19	68	47	1,161	1,069	4(100%)		778	0	542	641
Khulna Division																
Bagerhat	3	1	5	2	2	1	1	1	17	43					43	26
Chuadanga			1				2	1	40	28					22	14
Jessore	4		6		4		2	10	5	40					21	12
Jhenaidah	1		1		1		2		7	16					18	17
Khulna (non KCC)	2				1				46	6					38	24
KCC only	1		2					1	1	5					7	9
Kushtia	5	2	4	1	5	2	4		82	37					26	15
Magura							3	4	21	52					9	12
Meherpur			1						20	10					9	2
Narail	4		2		5	1	1	1	9	9					5	6
Satkhira	2		2	1	2	1	1		18	5					28	18
Total-KHU	22	3	24	4	20	5	16	19	266	251			0	0	226	155
Raj Division																
Bogra	4	2	2	3	5	3	9	2	12	15					89	74
Dinajpur	4	2	7	2	4	2		3	10	14					29	35
Gaibandha	1	1	4	2	3	4									10	25
Joypurhat								1	7	11					15	15
Kurigram	1				1					2					3	10
Lalmonirhat	1	2				1			4						16	12
Natore	3		4		3	1	5	3	25	50					18	40
Nilphamari		1		1		2									18	14
Noagoan	3	2	2	2	3	2	4	4	29	73					22	32
Nowabganj	1		1		1		2	1	10	27					19	17
Pabna	1	2	3	2	1				9	24					19	22
Panchagarh	1		2		1				6	2					18	10
Rajshahi (non RCC)	2	1	1	2	2	2	7	6	20	14					29	30
RCC only								3	161	58	1(100%)		49		27	38
Rangpur	2							1							7	23
Sirajganj	1				1		2		12	3					7	11
Thakurgaon	2	1	5		2		1	2	3	2					38	23
Total-RAJ	27	14	31	14	27	17	30	26	308	296	1(100%)		49	0	384	431
Sylhet Division																
Habiganj	7	2	6	3	7	3			14	8					23	15
Maulvibazar	6	4	5	4	6	4	1		22	13					12	5
Sunamganj	11	4	11	2	14	4	31	25	46	40					13	18
Sylhet (non SCC)	3	5	3	5	3	5	2	5	35	23					8	4
SCC only		1					8	18	6	5					1	2
Total-SYL	27	16	25	14	30	16	42	48	123	89			0	0	57	44
National	166	63	206	67	154	70	195	160	2,097	1,863	5(100%)	0	827	0	1,389	1,449

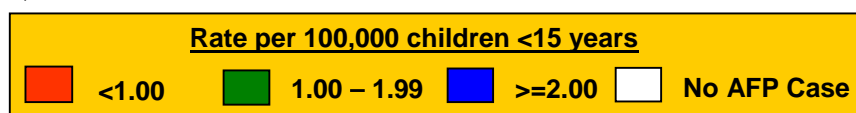
Data as of 12 August 2008, \* Only Lab Confirmed Measles and Mixed Type outbreak Cases

Data as of 12 August 2008, \* Only Lab Confirmed Measles and Mixed Type outbreak Cases

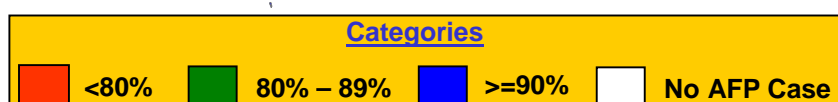
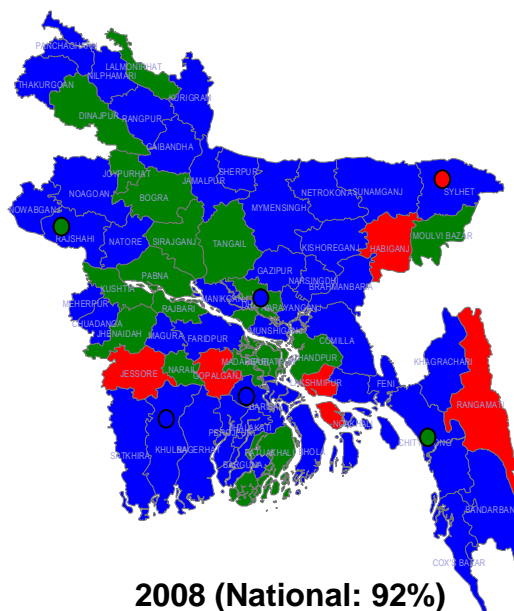
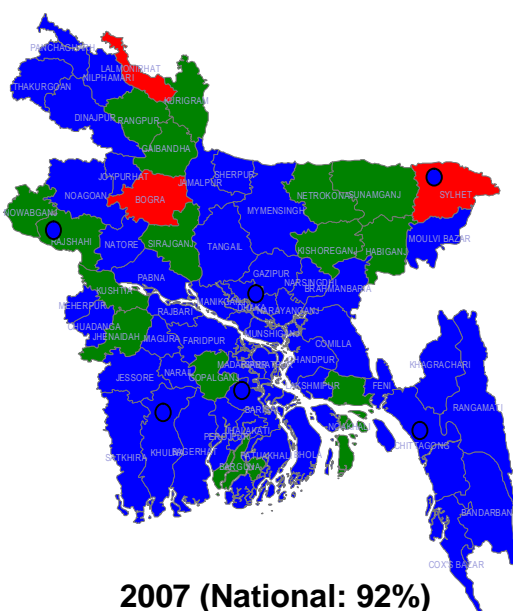
## Annualized Non-Polio AFP Rate, by District, Bangladesh 2007-2008\*



\*Data as of 9 August, 2008



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



\*Data as of 9 August, 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