

**Stop Polio Once Again: Make NIDs a success**

Bangladesh has not had a wild poliovirus case since August 2000. On 8 March 2006 the Global Specialized Polio Laboratory (GSPL) in Mumbai, India, which tests all polio virus isolates from Bangladesh, reported a wild polio virus type 1 isolate, from an AFP case identified by the national surveillance system in Chandpur district, in Chittagong division. The case, a 9 year old child who was reported to have received 2 doses of routine oral polio vaccine, had onset of paralysis on 23 January 2006. On 10 March, the GSPL reported that the genetic analysis traced the wild polio virus to Western Uttar Pradesh, India, thus confirming that this wild poliovirus was an importation and not native to Bangladesh.

Rahima Akhter, the polio case, was investigated as a case of AFP by the Surveillance Medical Officer and the Pediatric Consultant of Chandpur district on 26 January. Two stool samples were collected on 28 and 29 January and sent to the National polio and Measles Laboratory (NPML) on 30 January. On 2 February, outbreak response immunization was done among 215 children under five living in close proximity to Rahima. Active case search for any AFP case was also done in the area and no more AFP cases were found. The NPML detected polio virus in the stool on 20 February and in next two days sent the virus isolate for intra-typic differentiation to Global Specialized Polio Laboratory.

Prior to onset of paralysis Rahima traveled to her grand father's house at Nazirpur upazila of Pirojpur district where she stayed between 12 to 20 January, returning home only two days prior to illness. During her stay at Nazirpur she traveled to nearby village of Char dakatia of Chitolmari upazila of Bagerhat district. While she stayed at her grand father's house, there was a wedding ceremony of her aunt which was also attended by relatives from Mymensingh, Dhaka, Chittagong and Bagerhat.

Following the outbreak, a GOB-WHO joint team led by the Director, Primary Health Care rushed to the affected district to conduct an initial outbreak response investigation. The team immediately intensified acute flaccid paralysis surveillance in the district and in areas the child had visited prior to contracting polio. Soon thereafter an International Rapid Response Team (IRRT), comprising experts from WHO Country Office, Regional Office and WHO headquarters in Geneva along with UNICEF experts supported and guided the investigation and response. The IRRT met with the National Certification Committee and the Expert Review Committee for Polio Eradication to assess the situation. On 13 March the IRRT along with high level GOB officials also visited the areas where Rahima had been residing prior to the onset of her paralysis. They concluded that the

surveillance and immunizations systems are functioning well, but the whole country is at risk of polio spreading from this importation. On 16 March, the Honorable Minister, the Ministry of Health and Family Welfare was briefed by the International Rapid Response Team and the national experts from GOB, WHO and UNICEF. The same day the Minister announced nation-wide immunization campaign to reach Bangladesh's over 20 million children under the age of five with oral polio vaccine. Government of Bangladesh plans to hold three rounds of 13th Special National Immunization Day, in line with the polio resolution endorsed by the Executive Board of WHO in January 2006 in order to stop spread of polio virus. The first round will kick off on 16 April. The other two rounds will be on 13 May and 11 June. Each round will have one day fixed site operation followed by 4 days Child to Child search as usual. There will be no routine EPI on the first day but during Child to Child search routine EPI will be conducted as per annual session plan.

It is notable here that Importation of Wild Poliovirus is a fact of life in polio eradication. During 2003-2006, 22 countries experienced polio virus importation from two traditional reservoirs of polio of the world namely Nigeria and India. In 2005 two countries of South East Asia regions, Indonesia and Nepal experienced importations from Sudan and India respectively. Globally 4 countries are polio endemic: India, Pakistan, Afghanistan and Nigeria.

In order to make the first round a success, all preparations are underway. The national advocacy meeting was conducted on 27 March followed by District orientation and planning meeting. During first week of April, Field workers and Supervisors orientation will be completed. Micro planning, IPC and volunteers orientations will be completed by 12 April. NID logistics have already been sent to the field and the vaccine will be available at the HQ in the end of 1st week of April. Extensive mass media campaigns have been chalked out to build up people's awareness and to ensure their active participation. Bangladesh Television, Bangladesh Betar, Private TV Channels, news papers, Department of Mass Communication, Press Information Department and renowned personalities are going to contribute a lot in this regards. Like any national campaign, Health and Family Planning field level workers are sincerely working with NGO workers and volunteers from all walks of the community to sensitize people and implement the NIDs successfully.

The Government of Bangladesh has taken appropriate response to contain further spread of polio virus in the country in a very timely fashion. Let us join hands together to stamp out polio for ever.

Surveillance Summary for 1999-2006 (through Epidemiologic Week 13, 26 March – 1 April, 2006)

	1999	2000	2001	2002	2003	2004	2005	2006 ¹
Number of AFP cases	761	1138	1287	1365	1128	1301	1458	299
No. of clinically confirmed polio cases	322	197	NA	NA	NA	NA	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	36	0	0	2	0	0
No. of cases with isolation of wild poliovirus	29	1	0	0	0	0	0	1
No. of discarded polio cases (i.e., non-polio AFP)	439	941	1251	1365	1128	1299	1449	190
No. of cases pending classification	0	0	0	0	0	0	9	108
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)*	505	515	533	549	556	563	1094	1114

AFP Surveillance Performance Indicators:

Indicator	Target	1999	2000	2001	2002	2003	2004	2005	2006
1. Annual Non-Polio AFP rate in children < 15 years old	≥ 2.0	0.87	1.82	2.34	2.49	2.03	2.31	2.65	1.36
2. Completeness of passive reporting from facilities	≥ 90%	66%	83%	65%	62%	67%	82%	92%	86%
3. Timeliness of passive reporting from facilities	≥ 80%	30%	58%	38%	36%	62%	75%	84%	80%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	83%	93%	96%	96%	98%	98%	99%	99%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	49%	68%	80%	89%	90%	90%	92%	91%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	81%	92%	97%	98%	99%	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%	100%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	97%	95%	93%	99%	100%	98%	97%	54% ²
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	58%	94%	99%	100%	100%	100%	100%	96% ³
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	13%	21%	29%	28%	23%	20%	20%	17%

¹ Data as of April 1, 2006; ² among cases occurring up to January 16, 2006; ³ as of March 4, 2006, * Prior to 2005 NPAFP rate calculated as 1/100,000 children.

AFP Surveillance Performance Indicators, 2005 - 2006

Epiweek 13, 2006

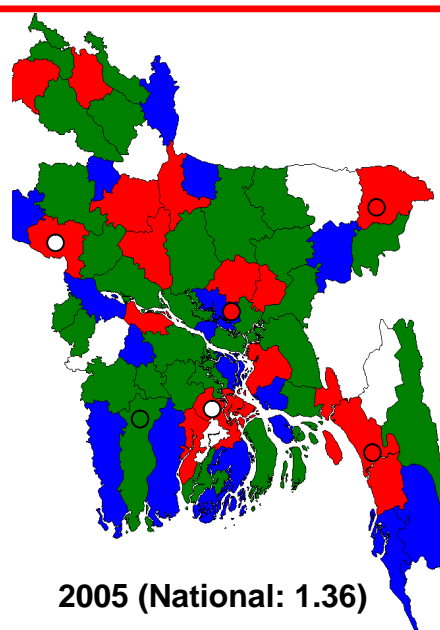
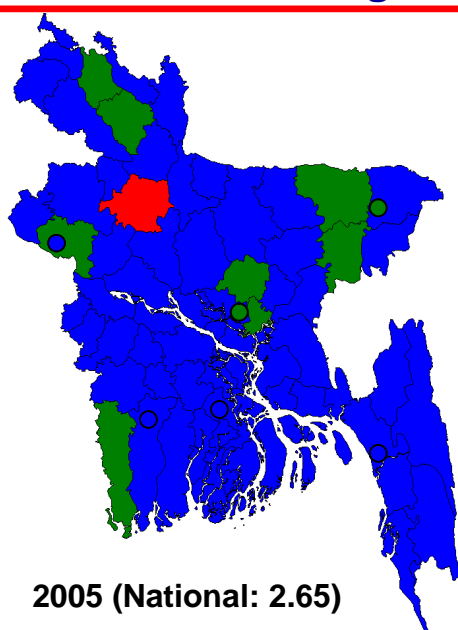
District	Minimum operational target of non-polio AFP		Total # AFP ¹		Wild polio-virus isolated		# Compatible cases		Non- Polio AFP cases ¹		Pending final classif. ¹		Annualized Non-polio AFP Rate ¹		Notification within 10 d after paralysis onset ¹		Investigation within 48 h after notification ¹		% with 2 stools within 14 days ¹		Stool sample arriving to lab within 72 hrs ¹		% with 60-day follow-up ²	
	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006
Dhaka Division																								
Dhaka (non DCC)	25	26	47	10					45	7	2	3	3.66	2.17	89%	100%	100%	100%	87%	100%	98%	90%	94%	100%
DCC only	61	64	54	8					53	4	1	4	1.73	0.50	96%	100%	98%	100%	93%	100%	100%	100%	76%	0%
Faridpur	15	16	23	4					23	3	0	1	3.01	1.55	96%	100%	100%	100%	96%	100%	100%	100%	91%	NA
Gazipur	18	18	15	3					15	2	0	1	1.70	0.89	100%	100%	100%	100%	93%	100%	100%	100%	100%	100%
Gopalganj	10	10	24	2					24	2	0	0	4.87	1.61	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
Jamalpur	18	19	32	4					32	2	0	2	3.48	0.86	88%	75%	97%	100%	88%	75%	100%	100%	97%	0%
Kishoreganj	22	22	33	9					33	5	0	4	2.99	1.79	88%	100%	100%	100%	94%	100%	100%	100%	94%	0%
Madaripur	10	10	22	3					22	2	0	1	4.59	1.66	91%	100%	100%	100%	96%	100%	100%	100%	100%	NA
Manikganj	11	11	17	2					17	2	0	0	3.03	1.41	82%	100%	100%	100%	88%	100%	100%	100%	100%	NA
Munshiganj	11	11	31	4					31	2	0	2	5.64	1.44	97%	75%	100%	100%	97%	75%	100%	100%	100%	NA
Mymensingh	39	39	51	12					50	8	1	4	2.58	1.63	80%	92%	98%	100%	84%	100%	100%	100%	100%	0%
Narayanganj	19	20	16	5					16	4	0	1	1.66	1.63	94%	60%	100%	100%	100%	80%	100%	100%	100%	50%
Narsingdhi	17	17	19	3					19	2	0	1	2.24	0.92	90%	100%	100%	100%	89%	100%	100%	100%	100%	100%
Netrokona	17	17	26	3					26	3	0	0	3.03	1.38	100%	100%	100%	100%	96%	100%	100%	100%	92%	100%
Rajbari	8	8	11	1					11	1	0	0	2.65	0.95	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
Shariatpur	9	10	26	8					26	4	0	4	5.52	3.35	96%	88%	100%	100%	92%	88%	100%	100%	100%	100%
Sherpur	11	11	15	7					15	6	0	1	2.74	4.34	100%	86%	93%	100%	100%	86%	100%	100%	100%	100%
Tangail	28	28	32	8					31	6	1	2	2.22	1.71	91%	100%	100%	100%	91%	100%	100%	100%	94%	0%
Total-DHAKA	349	357	494	96	0	0	0	0	489	65	5	31	2.80	1.46	92%	93%	99%	100%	92%	95%	100%	99%	95%	61%
CTG Division																								
Bandarban	3	3	3	1					3	1	0	0	2.19	2.85	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%
Brahmanbaria	21	21	25	9					25	5	0	4	2.43	1.93	92%	78%	92%	100%	88%	78%	100%	100%	100%	100%
Chandpur	20	21	21	3		1			21	2	0	1	2.06	0.76	95%	100%	95%	100%	86%	75%	100%	100%	95%	NA
Chittagong (non CCC)	38	38	46	6					46	4	0	2	2.43	0.84	98%	100%	100%	100%	96%	83%	100%	100%	98%	0%
CCC only	20	21	22	2					22	1	0	1	2.17	0.38	100%	100%	100%	100%	96%	100%	100%	100%	100%	NA
Comilla	40	41	50	13					50	7	0	6	2.50	1.38	98%	100%	98%	100%	90%	100%	100%	100%	98%	0%
Cox's Bazar	16	16	19	7					19	5	0	2	2.39	2.46	90%	100%	100%	100%	89%	86%	100%	100%	100%	100%
Feni	10	11	26	2					26	1	0	1	4.96	0.75	96%	100%	100%	100%	92%	100%	100%	100%	100%	NA
Khagrachari	5	5	7	0					7	0	0	0	2.75	0.00	86%	NA	100%	NA	86%	NA	100%	NA	100%	NA
Laxmipur	13	13	24	4					24	4	0	0	3.71	2.44	88%	100%	100%	100%	88%	100%	100%	100%	96%	50%
Noakhali	23	23	43	5					42	4	1	1	3.72	1.40	95%	100%	98%	100%	95%	100%	100%	100%	98%	NA
Rangamati	5	5	7	1					6	1	1	0	2.47	1.60	57%	100%	100%	100%	71%	100%	100%	100%	71%	0%
Total-CTG	214	218	293	54	0	1	0	0	291	35	2	18	2.72	1.29	94%	96%	98%	100%	91%	91%	100%	100%	98%	33%
Sylhet Division																								
Habiganj	15	16	14	8					14	7	0	1	1.83	3.61	79%	100%	100%	100%	86%	100%	100%	100%	86%	NA
Maulvibazar	14	14	15	3					15	3	0	0	2.11	1.66	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%
Sunamganj	18	18	14	3					14	0	0	3	1.60	0.00	100%	100%	100%	100%	93%	67%	92%	100%	93%	NA
Sylhet (non SCC)	19	20	25	4					25	2	0	2	2.57	0.81	92%	100%	100%	100%	88%	100%	100%	100%	96%	NA
SCC only	4	4	3	1					3	0	0	1	1.57	0.00	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
Total-SYL	70	72	71	19	0	0	0	0	71	12	0	7	2.02	1.34	93%	100%	100%	100%	92%	95%	99%	100%	90%	100%
Raj Division																								
Bogra	26	27	13	4					13	2	0	2	0.99	0.60	85%	100%	100%	100%	92%	100%	100%	100%	100%	NA
Dinajpur	23	24	27	6					26	3	1	3	2.23	1.01	78%	50%	100%	100%	89%	83%	100%	100%	100%	100%
Gaibandha	18	18	20	4					20	0	0	4	2.19	0.00	90%	75%	100%	100%	90%	75%	90%	100%	100%	NA
Joypurhat	7	7	13	2					13	2	0	0	3.52	2.14	85%	100%	100%	100%	85%	100%	100%	100%	100%	100%
Kurigram	15	15	16	7					16	5	0	2	2.11	2.61	81%	57%	100%	86%	94%	86%	100%	100%	100%	75%
Lalmonirhat	10	10	13	3					13	2	0	1	2.68	1.63	85%	100%	100%	100%	77%	100%	100%	100%	100%	NA
Natore	13	13	13	4					13	2	0	2	2.00	1.22	100%	100%	100%	100%	100%	75%	100%	100%	100%	0%
Nilphamari	14	14	12	3					12	1	0	2	1.75	0.57	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Noagoan	21	21	31	6					31	3	0	3	3.01	1.15	100%	67%	97%	83%	87%	50%	96%	80%	100%	25%
Nowabganj	13	13	19	6					19	4	0	2	2.99	2.47	90%	83%	100%	100%	84%	83%	100%	100%	100%	0%
Pabna	19	19	25	4					25	3	0	1	2.66	1.26	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
Panchagarh	7	8	11	2					11	1	0	1	2.97	1.06	100%	100%	100%	100%	100%	100%	100%	100%	91%	100%
Rajshahi (non RCC)	17	17	16	3					16	1	0	2	1.92	0.47	75%	100%	100%	100%	69%	100%	100%	100%	94%	NA
RCC only	3	4	5	0					5	0	0	0	2.88	0.00	100%	NA	100%	NA	100%	NA	100%	NA	100%	NA
Rangpur	22	23	15	4					15	4	0	0	1.35	1.41	100%	100%	100%	100%	93%	100%	93%	100%	100%	100%
Sirajganj	24	24	25	2					25	1	0	1	2.12	0.33	88%	100%	100%	100%	96%	100%	100%	100%	92%	NA
Thakurgaon	11	11	12	2					12	1	0	1	2.24	0.73	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%
Total-RAJ	263	268	286	62	0	0	0	0	285	35	1	27	2.17	1.05	91%	84%	100%	97%	91%	87%	99%	98%	99%	55%
Khulna Division																								
Bagerhat	13	13	25	6					25	4	0	2	3.89	2.48	100%	100%	96%	100%	100%	83%	100%	100%	92%	NA
Chuadanga	9	9	11	3					11	2	0	1	2.42	1.72	82%	100%	100%	100%	73%	100%	100%	100%	100%	NA
Jessore	22	22	31	8					31	3	0	5	2.85	1.09	97%	63%	100%	100%	94%					

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*						
											Number of Outbreak (% Investigated)		# of cases		# of case Reported		
2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005			2006
Dhaka Division																	
Dhaka (non DCC)	4	1	4	1	4	1	28	9	62	1	3(100%)		480		29	3	
DCC only	11	1	15		11		204	59	241	2	20(100%)		2791		3	1	
Faridpur	2		5		5		5	2	58	11	1(100%)		79		80	23	
Gazipur	3		3		2		15	17	44	19	1(100%)		79		7		
Gopalganj	7		8		7		5	14	157	23	3(100%)	1(100%)	144	30	51	10	
Jamalpur			2	1			4	2	36	4					17	18	
Kishoreganj	26	1	28		16		58	12	153	6	8(100%)		431		28	4	
Madaripur		1	1				16	10	183	27	7(100%)	4(100%)	510	83	61	12	
Manikganj	2		1				3	2	46	15	7(100%)	1(100%)	1211	38	40	1	
Munshiganj	2		5		2		4	1	291	2	3(100%)		175		18	4	
Mymensingh	21	2	12		20	3	41	19	206	9	6(100%)		582		82	17	
Narayanganj			1				83	14	84	10	1(100%)		73		30	36	
Narsingdhi	1						22	9	46	9	1(100%)		53		10	11	
Netrokona	2	1	8	2	8	2	6	2	199	31	8(100%)		986		28	10	
Rajbari	1		3		2			1	50	4					8	16	
Shariatpur	3		5		3		6		152	12	5(100%)		314		50	5	
Sherpur	3	3	8	2	7	3		1	75	9	1(100%)		146		31	11	
Tangail	4	2	3		5		15	4	27	10					26	10	
Total-DHAKA	92	12	112	6	92	9	515	178	2110	204	75(100%)	6(100)%	8054	151	599	192	
CTG Division																	
Bandarban							2		8						19	7	
Brahmanbaria	9	1	18	1	11	1	2	2	61	7	3(100%)		269		7	6	
Chandpur	4		3		3		7	6	91	9	4(100%)	2(100%)	103	18	44	18	
Chittagong (non CCC)	1	1	7		1		17	13	76	13	1(100%)		17		7	4	
CCC only	8		4	1	7		78	33	60	17	2(100%)		161		6	7	
Comilla	8	3	6		2		9	15	219	39	9(100%)	1(100%)	1045	11	6	8	
Cox's Bazar	7	1	8	4	7	1	7	8	24	14	1(100%)		183		8	3	
Feni	2		4		2		5	1	211	19	5(100%)	1(100%)	412	20	11	7	
Khagrachari							2		29						2		
Laxmipur	6	4	10	1	6	3	4	7	78	18	2(100%)		41		54	8	
Noakhali	7		11		8		27	16	86	10	1(100%)		80		20	2	
Rangamati							1	1	53	4					3	1	
Total-CTG	52	10	71	7	47	5	161	102	996	150	28(100%)	4(100%)	2311	49	187	71	
Sylhet Division																	
Habiganj	9	1	12	1	2		23		131	15	5(100%)		399		38	5	
Maulvibazar	7	2	7	1	1		27	4	174	6	3(100%)		317		16	30	
Sunamganj	8	3	12		6	1	285	10	354	17	2(100%)		730		28	18	
Sylhet (non SCC)	4		4		6		162	16	326	28	4(100%)		204		20	6	
SCC only	1		1		2		165	14	182	8					1	1	
Total-SYL	29	6	36	2	17	1	662	44	1167	74	14(100%)	0	1650	0	103	60	
Raj Division																	
Bogra	2		6	1	3		7		28	2	2(100%)		75		169	19	
Dinajpur	7		8		7		3		18	6	1(100%)		63		59	19	
Gaibandha	2		5		8				28	3	1(100%)		61		44	21	
Joypurhat	1		1		1		4	1	28	4					27	11	
Kurigram			5		7			1	14						21	1	
Lalmonirhat	1		1		1				21	2					2	3	
Natore	4		4		4		16		180	2	7(100%)		703		27	34	
Nilphamari	3		1	1	2		2		10	4					44	3	
Noagoan	4		4		5		3	1	114	1	3(100%)		273		42	14	
Nowabganj	6		3		6		6		8	1					10	3	
Pabna	2		2		2		11		42	2					13	4	
Panchagarh	1		3		2	1	2		75						10	2	
Rajshahi (non RCC)	4		6		5		5	2	12		1(100%)		266		14	11	
RCC only							14		242	20	5(100%)		329		47	4	
Rangpur	10	2	8	1	9	1	7		7		2(100%)		47		31	7	
Sirajganj	1	2	2	2	1	1	4		18		1(100%)		127		17	4	
Thakurgaon							18	2	22		3(100%)		453		7	13	
Total-RAJ	48	4	59	5	63	3	102	7	867	47	26(100%)	0	2397	0	584	173	
Khulna Division																	
Bagerhat	4		4		2		8	5	305	19	13(100%)		674		24	23	
Chuadanga	4		6		5		1		24			2(100%)		136		38	10
Jessore	5		4		3		10	20	44	14					62	9	
Jhenaidah	2	1	2	1	2		3	2	20	8	2(100%)		99		37	5	
Khulna (non KCC)	2		4		2		6	1	717	48	14(100%)	10(100%)	918	80	62	21	
KCC only	1		1		1		3	4	127	16	14(100%)		1161		11	7	
Kushtia	1				1		4	1	74	4	2(100%)		176		16	1	
Magura	1		2		1	1	2	1	18	6					20	4	
Meherpur	2		3		2		3	2	34	1	1(100%)		108		9		
Narail	10		9	1	10		1	1	22	1	1(100%)		66		15	8	
Satkhira	3		3		2			1	20		2(100%)		176		39	30	
Total-KHU	35	1	38	2	31	1	41	38	1405	117	49(100%)	12(100%)	3378	216	333	118	
Barisal Division																	
Barguna			1				9	3	84	15					5	3	
Barisal (non BCC)	4		6	1	2		33	16	72	6	1(100%)		48		18	5	
BCC only	2	1	1		2		29	10	21	7					1	1	
Bhola	4		8		6		3	2	72	8	1(100%)		108		29	12	
Jhalakhati	3	1	3		1		24	10	29	6	1(100%)		68		19	2	
Patuakhali	3	1	3	1	2	1	41	16	70	21	3(100%)		331		6	8	
Pirojpur			3		2		15	1	32	4	5(100%)		665		33	13	
Total-BAR	16	3	25	2	15	1	154	58	380	67	11(100%)	0	1220	0	111	44	
National	272	36	341	24	265	20	1635	427	6925	659	203(100%)	22(100%)	19010	416	1917	658	

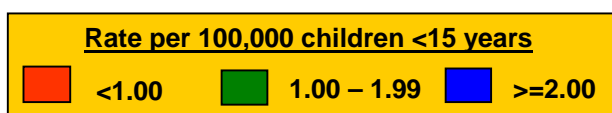
Data as of Epidemiologic Week 13, April 1, 2006, * Only lab confirmed measles and mixed outbreaks

Data as of Epidemiologic Week 13, April 1, 2006, * Only lab confirmed measles and mixed outbreaks

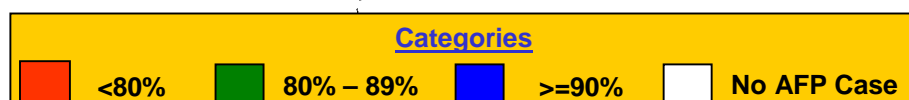
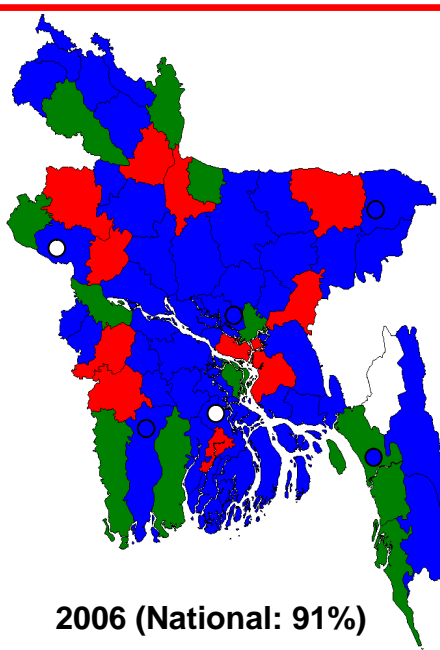
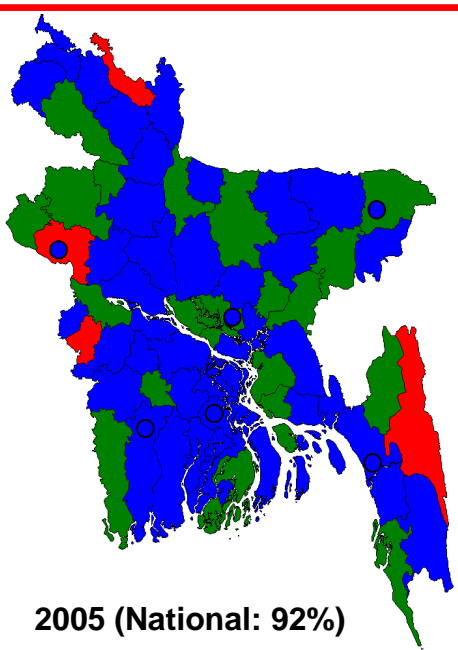
Annualized Non-Polio AFP Rate, by District, Bangladesh 2005-2006*



*Data as of Epidemiologic Week 13, April 1, 2006



Percentage of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2005-2006*



*Data as of Epidemiologic Week 13, April 1, 2006

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