



EPI Surveillance Bulletin

“Consultative Meeting on Expanded Programme on Immunization (EPI) held at Medical College Hospitals and Specialized Hospitals”

In 2009 (7th July to 10th October) Expanded Programme on Immunization (EPI) conducted consultative meetings in 55 Medical Institutions, out of which they were 16 Public Medical Colleges, Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka Shishu Hospital, Institute of Mother and Child health and other different Private Medical Colleges and Hospitals. The total number of participants from Paediatric, Medicine, Gynecology & Obstetric, Community Medicine and Surgery departments were about 4,850. EPI sponsored the meeting with GAVI financial support and WHO and UNICEF provided technical assistance. The facilitators were from EPI HQ, WHO and UNICEF. The Director General of Health Services, Line Director-ESD, Programme Manager Child Health and Limited Curative Care, Deputy Programme Manager-EPI, Principal and Director of different medical colleges and hospitals were present as the Chief Guest.

Objectives of the Meetings:

1. To update EPI Program objectives, vaccination schedule, cold chain and quality of vaccine, EPI surveillance system, progress and challenges.
2. To seek advice and support for further improvement of immunization services and consensus building on suggested activities.
3. Areas of collaboration to improve vaccination coverage.

The key points of presentation:

• Vaccination Coverage Target:

- At least 90% children are to be fully vaccinated with all antigens at the national level by the end of 2010.

• Disease Reduction Targets:

- To maintain polio free status until certification;
- To sustain neonatal tetanus (NT) elimination validation status (<1 NT per 1000 live birth) in all districts and nationally;
- To reduce measles morbidity by 90% and mortality by 95% by 2010 compared to 2000 estimate;
- To reduce the prevalence of HepB chronic infection (HBsAg) among 3-5-years children by 80% by 2010;
- To reduce 90% mortality under 5 children due to Hib diseases (meningitis & pneumonia) by 2015.

• EPI Vaccination Schedules:

- Vaccination schedule for less than one year children and 15-49 years child bearing age women.

• Cold Chain System:

- Maintenance of cold chain at different levels and quality of vaccine.

• Role of Medical Professionals:

- Facilitate and coordinate reporting of Acute Flaccid Paralysis (AFP) and Vaccine Preventable Diseases (VPDs) and carryout investigations in hospitals and private chambers; disseminate EPI messages to parents in hospitals as missed opportunity and adopt national EPI vaccination schedules.

Conclusion:

All the medical professionals committed to provide support for further improvement of immunization services through creating mass awareness during their services to communities and to the patients. They also committed to continue their heartfelt support in reporting of Vaccine Preventable Diseases (VPDs) to sustain Polio eradication status, NT elimination and other diseases reduction goals. The support provided by the medical professionals is always precious for the success of the Expanded Programme on Immunization (EPI).

Surveillance Summary										
Description	2001	2002	2003	2004	2005	2006	2007	2008	2009 ¹	
Number of AFP cases	1287	1365	1128	1301	1458	1619	1844	1790	1316	
No. of compatible cases according to virologic classification system	36	0	0	2	0	2	0	0	0	
No. of cases with isolation of wild poliovirus	0	0	0	0	0	18	0	0	0	
No. of discarded polio cases (i.e., non-polio AFP)	1251	1365	1128	1299	1458	1599	1844	1790	1238	
No. of cases pending classification	0	0	0	0	0	0	0	0	78	
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)*	533	549	556	563	1094	1114	1135	1153	1178	
AFP Surveillance Performance Indicators										
Indicators	Target	2001	2002	2003	2004	2005	2006	2007	2008	2009 ¹
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	3.10	2.38
02 Completeness of passive reporting from facilities	≥ 90%	65%	62%	67%	82%	91%	89%	90%	93%	91%
03 Timeliness of passive reporting from facilities	≥ 80%	38%	36%	62%	75%	84%	83%	85%	87%	86%
04 Suspected AFP cases investigated within 48 hours of notification	≥ 80%	96%	96%	98%	98%	99%	100%	99%	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%	94%
06 Stool specimens arriving at laboratory within 3 days after collection	≥ 80%	97%	98%	99%	99%	98%	99%	100%	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%	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%	99%	91% ²
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%	93%	96%
10 Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	29%	28%	23%	20%	20%	15%	15%	23%	20%

¹ Data as of November 14, 2009; ² among cases occurring up to August 30, 2009; * Prior to 2005 NPAFP rate calculated as 1/100,000 under 15 children

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Chief Advisor to the Editorial Board: Dr. Barendra Nath Mandal, Director (in Charge)-PHC & Line Director-ESD, DGHS, Mohakhali Dhaka.

AFP Surveillance Performance Indicators, 2008 - 2009

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	
	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009
Barisal Division																								
Barguna	7	7	12	7					12	7	0	0	3.23	2.11	100%	86%	100%	100%	100%	86%	100%	100%	100%	100%
Barisal (non BCC)	18	18	51	27					51	27	0	0	5.61	3.34	94%	100%	98%	100%	92%	100%	100%	100%	100%	100%
BCC only	2	2	4	3					4	3	0	0	3.80	3.17	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%
Bhola	16	16	62	37					62	36	0	1	7.95	5.14	94%	100%	100%	100%	97%	97%	100%	100%	100%	100%
Jhalakati	6	6	13	11					13	10	0	1	4.42	3.83	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Patuakhali	13	14	25	14					25	13	0	1	3.73	2.16	88%	86%	100%	100%	88%	93%	100%	100%	100%	100%
Perojpur	10	10	21	24					21	24	0	0	4.38	5.60	90%	96%	100%	100%	90%	96%	100%	100%	100%	100%
Total-BAR	72	73	188	123	0	0	0	0	188	120	0	3	5.21	3.72	94%	97%	99%	100%	94%	97%	100%	100%	100%	97%
CTG Division																								
Bandarban	3	3	4	4					4	3	0	1	2.71	2.24	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Brahmanbaria	21	22	35	23					35	22	0	1	3.29	2.31	94%	91%	97%	91%	97%	96%	100%	100%	100%	100%
Chandpur	22	23	34	21					34	19	0	2	3.04	1.86	94%	90%	100%	100%	88%	81%	100%	100%	100%	100%
Chittagong (non CCC)	39	40	43	33					43	29	0	4	2.19	1.65	86%	97%	100%	100%	84%	100%	100%	100%	100%	38%
CCC only	22	23	23	15					23	15	0	0	2.07	1.48	87%	100%	100%	100%	87%	100%	100%	100%	80%	80%
Comilla	42	42	61	44					61	41	0	3	2.93	2.19	100%	98%	100%	98%	98%	95%	98%	100%	93%	67%
Cox's Bazar	17	17	20	18					20	18	0	0	2.35	2.34	95%	100%	100%	100%	95%	100%	100%	100%	100%	100%
Feni	11	11	18	9					18	9	0	0	3.28	1.82	100%	89%	100%	100%	94%	100%	100%	100%	100%	100%
Khagrachari	6	6	7	10					7	10	0	0	2.40	3.70	100%	90%	100%	100%	86%	100%	100%	100%	NA	100%
Lakshmipur	13	14	20	15					20	15	0	0	2.98	2.49	90%	100%	100%	100%	85%	100%	100%	100%	100%	100%
Noakhali	24	24	27	16					27	14	0	2	2.28	1.32	96%	81%	96%	100%	85%	81%	100%	100%	100%	100%
Rangamati	5	5	3	4					3	3	0	1	1.13	1.25	67%	75%	100%	100%	67%	75%	100%	100%	100%	100%
Total-CTG	225	230	295	212	0	0	0	0	295	198	0	14	2.61	1.94	94%	94%	99%	99%	91%	95%	100%	100%	98%	82%
Dhaka Division																								
Dhaka (non DCC)	28	30	46	38					46	36	0	2	3.23	2.72	89%	100%	100%	100%	87%	92%	100%	100%	100%	75%
DCC only	71	74	88	59					88	55	0	4	2.50	1.68	86%	92%	100%	100%	90%	93%	100%	100%	100%	80%
Faridpur	16	16	34	17					34	16	0	1	4.25	2.23	88%	88%	97%	100%	88%	88%	100%	100%	100%	100%
Gazipur	19	19	27	17					27	15	0	2	2.92	1.80	93%	88%	100%	100%	93%	88%	100%	97%	100%	100%
Gopalganj	10	10	31	24					31	20	0	4	6.13	4.43	74%	83%	94%	100%	74%	88%	100%	100%	100%	100%
Jamalpur	19	20	53	51					53	50	0	1	5.51	5.79	96%	98%	92%	98%	98%	94%	100%	99%	100%	86%
Kishoreganj	23	23	40	28					40	27	0	1	3.51	2.65	93%	96%	100%	96%	95%	96%	100%	100%	100%	100%
Madaripur	10	10	20	15					20	15	0	0	4.08	3.44	100%	87%	100%	80%	95%	87%	100%	100%	100%	100%
Manikganj	12	12	18	20					18	20	0	0	3.11	3.86	94%	95%	100%	100%	100%	95%	100%	100%	100%	100%
Munshiganj	11	11	28	16					28	15	0	1	4.97	2.98	100%	100%	96%	94%	100%	100%	100%	100%	100%	100%
Mymensingh	40	41	47	31					47	28	0	3	2.34	1.56	83%	87%	98%	100%	87%	87%	100%	100%	100%	100%
Narayanganj	20	21	27	14					27	14	0	0	2.64	1.52	93%	100%	100%	93%	93%	100%	100%	100%	100%	100%
Narsingdhi	18	18	25	16					25	15	0	1	2.76	1.84	100%	100%	100%	100%	100%	94%	100%	100%	100%	75%
Netrokona	18	18	28	18					28	15	0	3	3.13	1.87	89%	83%	100%	100%	96%	89%	100%	100%	100%	75%
Rajbari	9	9	14	7					14	6	0	1	3.24	1.55	86%	86%	93%	100%	86%	86%	100%	100%	100%	100%
Sariatpur	10	10	29	15					29	14	0	1	5.91	3.18	86%	87%	97%	100%	93%	87%	100%	100%	100%	100%
Sherpur	11	11	18	21					18	20	0	1	3.18	3.95	100%	95%	100%	100%	100%	95%	100%	100%	100%	88%
Tangail	29	29	46	34					46	33	0	1	3.21	2.58	87%	79%	100%	100%	91%	94%	100%	100%	100%	50%
Total-DHAKA	374	382	619	441	0	0	0	0	619	414	0	27	3.32	2.45	90%	92%	98%	98%	92%	92%	100%	100%	100%	88%
Khulna Division																								
Bagerhat	13	13	19	18					19	15	0	3	2.90	2.57	100%	89%	100%	100%	100%	89%	100%	100%	100%	75%
Chuadanga	10	10	23	12					23	11	0	1	4.73	2.50	96%	100%	100%	100%	87%	100%	100%	100%	100%	100%
Jessore	23	23	34	23					34	21	0	2	2.98	2.05	88%	100%	100%	100%	82%	91%	100%	100%	100%	100%
Jhenaidah	14	15	20	16					20	15	0	1	2.79	2.33	95%	94%	100%	100%	85%	100%	100%	100%	100%	100%
Khulna (non KCC)	13	13	22	14					22	14	0	0	3.40	2.43	95%	100%	100%	100%	95%	100%	100%	100%	100%	100%
KCC only	8	9	8	5					8	5	0	0	1.90	1.32	88%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Kushtia	16	16	27	19					27	17	0	2	3.37	2.36	96%	95%	89%	89%	93%	95%	100%	100%	100%	100%
Magura	8	8	14	7					14	5	0	2	3.67	1.46	86%	86%	100%	100%	86%	86%	100%	100%	100%	100%
Meherpur	6	6	13	6					13	5	0	1	4.71	2.01	92%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Narail	6	6	19	7					19	7	0	0	6.35	2.63	84%	86%	100%	100%	89%	100%	100%	100%	100%	100%
Satkhira	17	17	28	28					28	27	0	1	3.32	3.56	100%	96%	100%	100%	93%	96%	100%	100%	100%	100%
Total-KHU	134	136	227	155	0	0	0	0	227	142	0	13	3.40	2.37	93%	95%	99%	99%	91%	95%	100%	100%	100%	97%
Raj Division																								
Bogra	27	28	32	28					32	27	0	1	2.33	2.20	88%	89%	100%	100%	84%	89%	100%	100%	100%	100%
Dinajpur	24	25	24	24					24	24	0	0	1.96	2.18	88%	92%	100%	100%	83%	100%	100%	100%	100%	88%
Gaibandha	19	19	30	20					30	20	0	0	3.20	2.39	83%	100%	93%	100%	90%	100%	100%	100%	100%	100%
Joypurhat	8	8	11	9					11	8	0	1	2.89	2.35	82%	100%	100%	100%	91%	100%	100%	100%	100%	100%
Kurigram	16	16	20	17					20	17	0	0	2.55	2.43	100%	94%	90%	100%	95%	100%	100%	100%	100%	100%
Lalmonirhat	10	10	12	14					12	14	0	0	2.37	3.08	83%	100%	100%	100%	92%	100%	100%	100%	100%	100%
Natore	13	14	27	15					27	15	0	0	4.03	2.50	96%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Nilphamari	14	15	27	16					27	14	0	2	3.75	2.17	100%	94%	100%	100%	100%	94%				

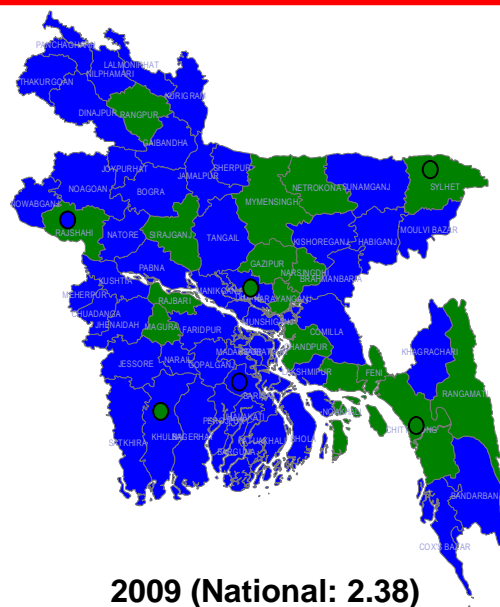
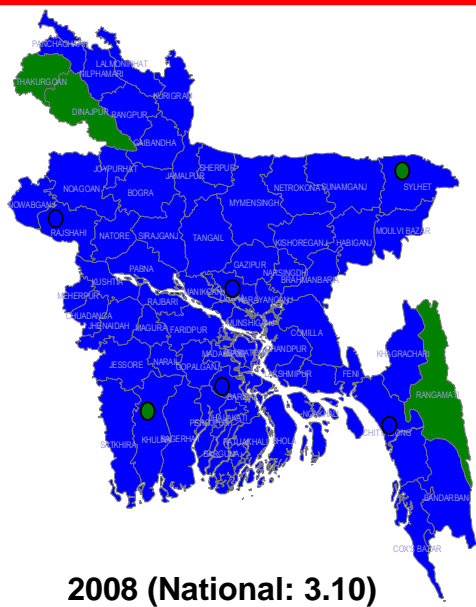
Disease Surveillance, 2008 - 2009

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 cases		# of case Reported	
	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009				
Barisal Division																
Barguna		1	1	1		2	1		18	16					15	5
Barisal (non BCC)	2	2	7	3	2	2	2		22	3					46	23
BCC only																2
Bhola	3	1	8	3	6	3			5	2					14	2
Jhalakhati	3	3	2	4	3		2		2	1					7	9
Patuakhali		2		2			4	3	15	3					6	1
Pirojpur			1			1			9	1					17	12
Total BAR	8	9	19	13	11	8	9	3	71	26			0	0	105	54
CTG Division																
Bandarban										1					6	4
Brahmanbaria	5	4	5	6	7	1		1	18	17					25	10
Chandpur			2		2		3	6	46	42					53	30
Chittagong (non CCC)	1	1		3		1	4		10	2					10	11
CCC only	2	2	3	2	2	2	8	2	6	3					7	3
Comilla	1	1		1	1		1		12	6					10	7
Cox's Bazar		2	1	2		2				1					5	4
Feni								1	19	14					17	5
Khagrachari	1	1	1					1	1	6					5	2
Laxmipur	3	4	3	4	3	5		1	46	10					22	18
Noakhali	4	6	3	7	4	6	2	2	9	26					12	3
Rangamati									1							5
Total-CTG	17	21	18	25	19	17	18	14	168	128			0	0	172	102
Dhaka Division																
Dhaka (non DCC)	2	2	2	1	1	2	1		63	9					41	20
DCC only	2	4	4		5	4	25	11	594	246	1 (100%)		76		176	102
Faridpur	1	1	1	2	1				29	7					85	56
Gazipur	3		1	2	3		3		3	3					17	19
Gopalganj	2	2	5	1	3	2	1		22	5					26	4
Jamalpur	2		5	2	2				58	137					41	26
Kishoreganj	7	5	9	4	3	4	13	13	31	16					46	25
Madaripur	4		3		4		3	7	48	18					79	38
Manikganj	2		1		1			2	89	9					45	25
Munshiganj	2		1		1		2		176	43					69	45
Mymensingh	4	6	5	6	5	9	1	3	73	65					83	41
Narayanganj	1	1				1	1		68	11					39	18
Narsingdhi	4		2		3		3		3	2					11	22
Netrokona	1		5	1	2				33	35					36	21
Rajbari									40	50					109	40
Shariatpur	1	3	1	1		3	2	3	23	13					63	32
Sherpur		1	2	2		1			30	18					26	12
Tangail	4	1	8		6	1	9	4	19	23					68	67
Total-DHAKA	42	26	55	22	40	27	64	43	1,402	710	1 (100%)	0	76		1,060	613
Khulna Division																
Bagerhat	3	2	5	2	2	1	2		51	2					41	24
Chuadanga	1	2	1	2	1	2	2	2	31	2					22	20
Jessore		4		4		2	14	3	63	15					23	24
Jhenaidah								2	22	17					26	19
Khulna (non KCC)	1	3	1	3	1	3	1		11	2					34	22
KCC only	1				1		3		8						16	11
Kushtia	3	2	1	1	3	2			45	10					26	15
Magura		1				1	5		76	16					21	18
Meherpur								6	11	24					6	9
Narail	3	2	3	1	4	2	1	1	14	8					13	13
Satkhira	2		1		3				7						26	18
Total-KHU	14	16	12	13	15	13	28	14	339	96			0	0	254	193
Raj Division																
Bogra	2	3	3	1	3	3	2	4	24	21					121	82
Dinajpur	4	1	4	1	4		6		19	12					56	48
Gaibandha	1	2	2	3	4	1		1	3	2					44	31
Joypurhat							2		14	4					25	15
Kurigram		4		1		3	3	2	7	10					16	11
Lalmonirhat	2	1		2	1	1	1	2	1						24	16
Natore	4		3	1	4		5	3	74	47	1(100%)		132	0	51	14
Nilphamari	1		1	1	2			2		3					25	12
Noagoan	2	1	3		2	1	7	4	90	47					43	24
Nowabganj	2		2		2		4	5	38	15					24	18
Pabna	3		2		1		20	18	65	69					44	26
Panchagarh	1		2		1		2		5	2					19	13
Rajshahi (non RCC)	3		3		3		8		31	28					43	32
RCC only							3	3	64	68					48	45
Rangpur	3	2		1	3	2	1		2	8					32	15
Sirajganj		2				2			3	7					15	9
Thakurgaon	1	2	1	4	1	2	4	1	5	4					35	27
Total-RAJ	29	18	26	15	31	15	68	45	445	347	1(100%)		132	0	665	438
Sylhet Division																
Habiganj	3	3	4	3	6	2			10	4					25	14
Maulvibazar	7	4	6	4	5	4		4	15	14	1(100%)		48		10	7
Sunamganj	8	7	7	6	8	1	28	3	40	7					20	12
Sylhet (non SCC)	5	3	5	2	7	2	6	1	32	17					7	6
SCC only	1	1		2		1	19	13	6	12					4	1
Total-SYL	24	18	22	17	26	10	53	21	103	54		1(100%)	0	48	66	40
National	134	108	152	105	142	90	240	140	2,528	1,361	1(100%)	1(100%)	132	124	2,322	1,440

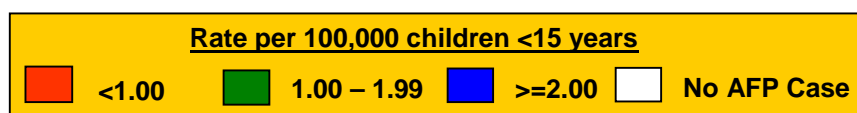
Data as of 15 November 2009, * Only Lab Confirmed Measles and Mixed Type outbreak Cases

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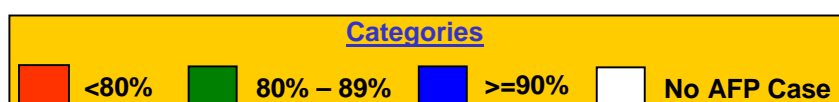
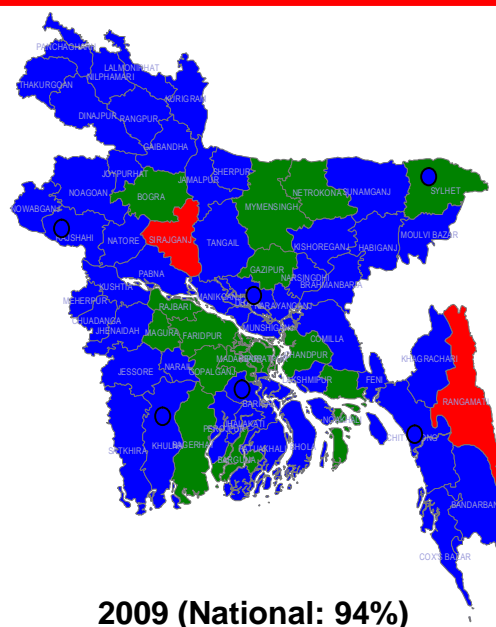
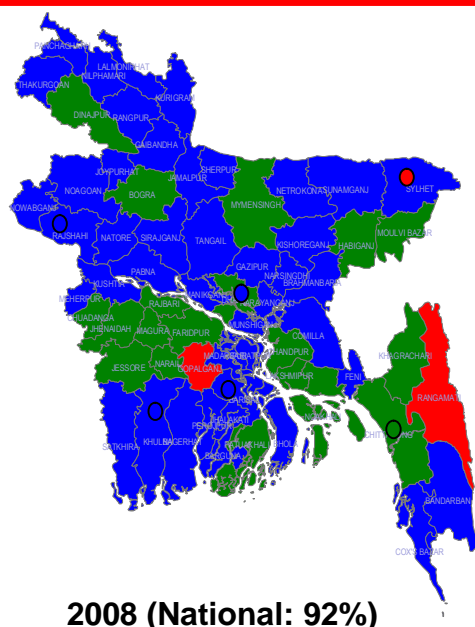
Annualized Non-Polio AFP Rate, by District, Bangladesh 2008-2009*



*Data as of 14 November 2009



Percentage of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2008-2009*



*Data as of 14 November 2009

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