



EPI Surveillance Bulletin

GAVI Honored 15 Countries for Excelling in Immunization and Child Survival

The Expanded Programme on Immunization (EPI) in Bangladesh has been recognized for its sustained high coverage level and its contribution to the reduction in childhood morbidity and mortality rates. The Government of Bangladesh in collaboration with WHO, UNICEF and Partner Agencies is making every effort to reach the un-reached children using the WHO RED strategy.

The GAVI Fourth Partners Forum meeting was held from 18-20 November 2009 in Hanoi, Vietnam. More than 500 participants from 42 countries were participated in this meeting. GAVI awarded Bangladesh during this Fourth Partnership meeting. Dr. A.F.M. Ruhal Haque, M.P, Hon'ble Minister, Ministry of Health and Family Welfare led 03 members delegation of Bangladesh. The other members of the delegate were Dr. Md. Abdul Jalil Mondal, Programme Manager, Child Health & LCC and Deputy Director EPI & Surveillance and Md. Raisul Alam Mondal, Deputy Secretary WHO, Ministry of Health & Family Welfare.

In a grand ceremony, GAVI Board Chairman Mary Robinson, GAVI Immunize Every Child Board member Princess Cristina of Spain, and GAVI CEO Julian Lob-Levyt presented the Ministers of 15 Countries with an engraved plaque to recognize their success. The Hon'ble Minister received the GAVI Alliance Award 2009 for Bangladesh's outstanding performance in improving child health immunization. The awards were given to those countries that have highest co-financing for vaccines and for best performance in routine immunization. Bangladesh was recognized for best immunization performance out of 6 countries as a large country. Amongst all the large populous countries which are eligible for GAVI support, Bangladesh has shown leadership in reducing the number of un-immunized children by 52% in these past 4 years.

With this Award the GAVI acknowledge the great work in extremely challenging circumstances to provide immunization services to mothers and children in Bangladesh. EPI Bangladesh also acknowledge that this success has been achieved through the joint efforts and steadfast commitment of all field workers and managers of Health and Family Planning Departments, Development Partners, NGOs and other health service providers which need to be continued for sustaining the achievement.



Surveillance Summary

Description	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 ¹
Number of AFP cases	1287	1365	1128	1301	1458	1619	1844	1790	1502	697
No. of compatible cases according to virologic classification system	36	0	0	2	0	2	0	0	0	0
No. of cases with isolation of wild poliovirus	0	0	0	0	0	18	0	0	0	0
No. of discarded polio cases (i.e., non-polio AFP)	1251	1365	1128	1299	1458	1599	1844	1790	1502	609
No. of cases pending classification	0	0	0	0	0	0	0	0	0	88
Expected annual number of non-polio AFP cases (2/100,000 children <15 yr)*	533	549	556	563	1094	1114	1135	1153	1151	1203

AFP Surveillance Performance Indicators

Indicators	Target	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 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	2.61	2.09
02 Completeness of passive reporting from facilities	≥ 90%	65%	62%	67%	82%	91%	89%	90%	93%	91%	91%
03 Timeliness of passive reporting from facilities	≥ 80%	38%	36%	62%	75%	84%	83%	85%	87%	86%	84%
04 Suspected AFP cases investigated within 48 hours of notification	≥ 80%	96%	96%	98%	98%	99%	100%	99%	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%	96%
06 Stool specimens arriving at laboratory within 3 days after collection	≥ 80%	97%	98%	99%	99%	98%	99%	100%	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%	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%	99%	90% ²
09 Stool specimens with laboratory results: - Within 28 days after specimen receipt (old algorithm)	≥ 80%	99%	100%	100%	100%	100%	100%	100%	-	-	-
- Within 14 days after specimen receipt (new algorithm)	≥ 80%							80%	93%	95%	97%
10 Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	29%	28%	23%	20%	20%	15%	15%	23%	19%	16%

¹ Data as of June 26, 2010; ² among cases occurring up to April 11, 2010; * Prior to 2005 NPAFP rate calculated as 1/100,000 under 15 children

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Chief Advisor to the Editorial Board: Dr. A.B.M. Jahangir Alam, Director, PHC & Line Director-ESD, DGHS, Mohakhali Dhaka.

AFP Surveillance Performance Indicators, 2009 - 2010

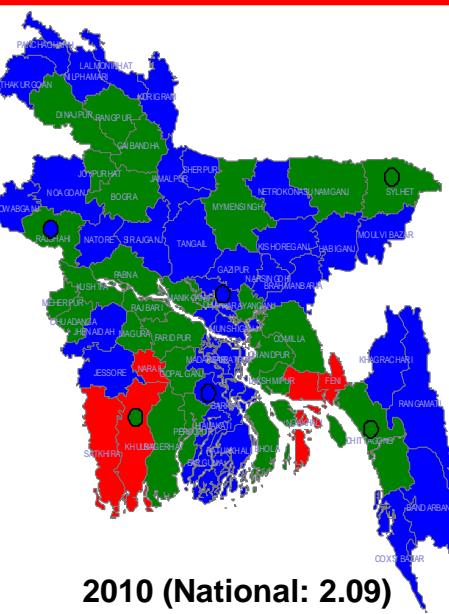
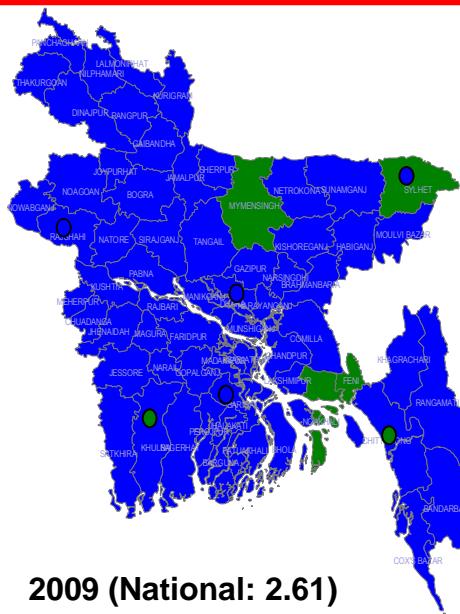
District	Minimum operational target of non-polio AFP		Total # AFP ¹		Wild polio-virus isolated		# Compatible cases ¹	Non- Polio AFP cases ¹		Pending final classif. ¹		Annualized Non-polio AFP Rate ¹		Notification within 10 d after paralysis onset ¹		Investigation within 48 h after notification ¹		% with 2 stools within 14 days ¹		Stool sample arriving to lab within 72 hrs ¹		% with 60-day follow-up ²			
	2009	2010	2009	2010	2009	2010		2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010		
Barisal Division																									
Barguna	8	8	10	5				10	5	0	0	2.55	2.51	90%	100%	100%	100%	90%	100%	100%	100%	100%	100%	NA	
Barisal (non BCC)	20	21	29	13				29	11	0	2	2.94	2.20	100%	100%	100%	100%	100%	92%	100%	100%	100%	100%	100%	NA
BCC only	2	3	3	4				3	4	0	0	2.88	7.56	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Bhola	16	17	39	8				39	8	0	0	4.93	1.99	100%	100%	100%	100%	97%	100%	100%	100%	100%	100%	100%	100%
Jhalakati	6	7	14	7				14	6	0	1	4.35	3.68	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Patuakhali	14	14	18	10				18	10	0	0	2.65	2.90	89%	100%	100%	100%	94%	100%	100%	100%	100%	100%	100%	100%
Perojpur	10	11	24	5				24	5	0	0	4.70	1.93	96%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	NA
Total_BAR	76	81	137	52	0	0	0	137	49	0	3	3.62	2.55	97%	100%	100%	100%	97%	98%	100%	100%	100%	100%	100%	
CTG Division																									
Bandarban	3	3	5	3				5	3	0	0	3.58	4.23	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
Brahmanbaria	22	23	25	13				25	12	0	1	2.26	2.14	92%	100%	92%	100%	96%	100%	96%	100%	96%	100%	100%	100%
Chandpur	21	22	23	8				23	7	0	1	2.21	1.33	91%	75%	100%	100%	83%	75%	100%	100%	100%	100%	100%	100%
Chittagong (non CCC)	41	42	42	20				42	16	0	4	2.07	1.55	88%	100%	98%	100%	90%	100%	100%	100%	100%	100%	100%	50%
CCC only	20	21	18	8				18	7	0	1	1.79	1.37	100%	100%	100%	100%	88%	100%	88%	100%	100%	100%	100%	NA
Comilla	43	44	52	22				52	19	0	3	2.44	1.76	98%	95%	98%	100%	98%	100%	100%	100%	100%	100%	100%	80%
Cox's Bazar	16	17	20	14				20	13	0	1	2.45	3.14	100%	100%	100%	100%	95%	100%	100%	100%	100%	100%	100%	100%
Feni	11	12	10	1				10	1	0	0	1.79	0.35	90%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
Khagrachari	5	5	10	6				10	5	0	1	4.17	4.11	90%	83%	100%	100%	100%	83%	100%	100%	100%	100%	100%	100%
Lakshmipur	14	15	17	7				17	6	0	1	2.46	1.71	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Noakhali	24	25	20	6				20	6	0	0	1.68	0.99	80%	100%	90%	100%	70%	100%	100%	100%	100%	100%	100%	NA
Rangamati	5	5	10	5				10	4	0	1	4.10	3.23	80%	100%	100%	100%	80%	100%	100%	100%	100%	100%	100%	NA
Total-CTG	225	234	252	113	0	0	0	252	99	0	14	2.25	1.74	93%	96%	98%	100%	92%	96%	100%	100%	100%	100%	90%	
Dhaka Division																									
Dhaka (non DCC)	23	24	40	24				40	24	0	0	3.47	4.10	100%	96%	100%	100%	93%	100%	100%	100%	100%	100%	100%	100%
DCC only	57	58	71	40				71	35	0	5	2.49	2.42	93%	95%	100%	100%	94%	93%	100%	100%	90%	88%		
Faridpur	16	17	17	8				17	8	0	0	2.10	1.95	94%	100%	100%	100%	94%	100%	100%	100%	100%	100%	100%	NA
Gazipur	19	20	21	13				21	11	0	2	2.24	2.31	86%	100%	100%	100%	86%	100%	98%	100%	100%	100%	100%	100%
Gopalganj	11	11	26	5				26	5	0	0	4.86	1.84	81%	100%	100%	100%	88%	100%	100%	100%	100%	100%	100%	NA
Jamalpur	20	20	51	24				51	23	0	1	5.21	4.64	98%	100%	98%	100%	94%	100%	99%	100%	100%	100%	100%	100%
Kishoreganj	24	25	38	18				38	17	0	1	3.20	2.82	97%	83%	95%	94%	97%	83%	100%	100%	100%	100%	100%	100%
Madaripur	10	11	17	7				17	7	0	0	3.24	2.63	88%	100%	82%	86%	88%	100%	100%	100%	96%	100%	100%	NA
Manikganj	12	13	23	6				23	6	0	0	3.80	1.96	96%	100%	100%	100%	96%	100%	100%	100%	92%	100%	100%	100%
Munshiganj	12	13	18	10				18	7	0	3	3.01	2.31	100%	100%	94%	100%	100%	100%	100%	100%	100%	100%	50%	
Mymensingh	41	43	41	18				41	14	0	4	1.98	1.33	83%	89%	100%	100%	85%	94%	99%	100%	100%	100%	100%	100%
Narayanganj	20	21	24	9				24	8	0	1	2.38	1.56	100%	100%	96%	100%	96%	89%	100%	100%	100%	100%	100%	NA
Narsingdi	18	18	20	12				20	11	0	1	2.26	2.46	95%	92%	100%	100%	95%	100%	100%	100%	100%	100%	100%	NA
Netrokona	18	19	21	10				21	10	0	0	2.29	2.15	86%	80%	100%	100%	90%	100%	100%	100%	100%	100%	100%	0%
Rajbari	9	9	9	4				9	4	0	0	2.04	1.78	89%	100%	100%	100%	89%	100%	100%	100%	100%	100%	100%	100%
Sariatpur	10	11	16	8				16	6	0	2	3.19	2.36	81%	88%	100%	100%	88%	88%	100%	100%	100%	100%	50%	
Sherpur	12	12	25	11				25	8	0	3	4.25	2.68	96%	82%	100%	100%	96%	91%	100%	100%	100%	100%	100%	NA
Tangail	30	31	40	17				40	16	0	1	2.64	2.08	83%	100%	100%	100%	95%	100%	100%	100%	100%	100%	100%	100%
Total-DHAKA	362	376	518	244	0	0	0	518	220	0	24	2.86	2.40	92%	94%	98%	99%	93%	95%	100%	100%	98%	84%		
Khulna Division																									
Bagerhat	14	15	20	6				20	5	0	1	2.84	1.40	90%	100%	83%	90%	100%	100%	100%	100%	100%	100%	100%	100%
Chuadanga	9	10	15	5				15	4	0	1	3.21	1.69	100%	100%	93%	100%	100%	90%	100%	100%	100%	100%	100%	0%
Jessore	23	24	23	20				23	17	0	3	2.01	2.92	100%	95%	100%	100%	91%	95%	100%	100%	100%	100%	100%	75%
Jhenaidah	15	15	17	15				17	11	0	4	2.33	2.98	94%	93%	100%	100%	93%	100%	100%	100%	100%	100%	100%	NA
Khulna (non KCC)	14	14	16	4				16	3	0	1	2.34	0.87	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	NA
KCC only	8	9	6	3				6	3	0	0	1.45	1.43	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Kushtia	16	17	22	8				2																	

Disease Surveillance, 2009 - 2010

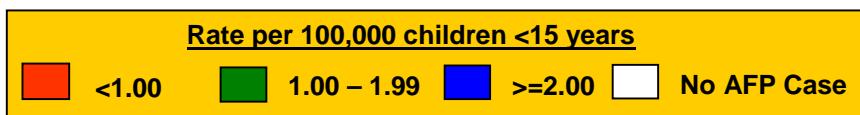
District	Neonatal Tetanus						Measles						AEFI				
	# of case reported by Active Surveillance		# of case reported by Passive Surveillance		# of case Investigated		# of case reported by Active Surveillance		# of case reported by Passive Surveillance		Outbreak*		# of case Reported				
	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	Number of Outbreak (% Investigated)	# of cases	2009	2010			
Barisal Division																	
Barguna	1		1		2				21	1				1			
Barisal (non BCC)	2		3	1	2				6					35 13			
BCC only								2		2				2 3			
Bhola	1		3		3				1	2							
Jhalakhali	2		4		2				1					10 7			
Patuakhali	3		3		2 1	3	1		3	3				1			
Pirojpur					1			1	1	12				15 3			
Total_BAR	9	0	14	1	12	1	3	4	33	20			0	0	63	27	
CTG Division																	
Bandarban									1						4		
Brahmanbaria	6	1	8	1	8	1	1		20	8				10	3		
Chandpur					1			6	3	46	34		1(100%)	18	32	6	
Chittagong (non CCC)	1		3		1				2	3				9	5		
CCC only	2	1	1	2	2	3	2	7	3	2				4	1		
Comilla	1	3	1		1	4			1	9	20			8	9		
Cox's Bazar			2		2				1	1				6	1		
Feni								1		14				6	4		
Khagrachari	2		2		1			1	1	6	9			4	2		
Laxmipur	5	1	4	3	5	3	2	1	10	35				14	2		
Noakhali	8		9	1	7	3	2		27	2				10	5		
Rangamati								3		12				8	2		
Total-CTG	27	6	30	8	27	14	15	16	139	126			1(100%)	0	18	115	40
Dhaka Division																	
Dhaka (non DCC)	2	1	1		2	1			11	36					20	8	
DCC only	5		1		5	1	12	9	269	191	1 (100%)		76	112	10		
Faridpur	1	1	2	1	3	1			8	3				65	22		
Gazipur			2		1			1	6	15				21	4		
Gopalganj	3		2		3			1	9					4	9		
Jamalpur		1	2	1		1			150	73				29	4		
Kishoreganj	7	1	7	2	5	1	13	1	17	33				30	7		
Madaripur							7		19	5				55	15		
Manikganj					1			2	8	3				31	4		
Munshiganj								47	82		1(100%)		46	51	6		
Mymensingh	7		6	1	9	1	3	2	67	16				53	17		
Narayanganj	1				1			1	11	10				18	18		
Narsingdhi									4	5				30	13		
Netrokona					1				37	21				21	1		
Rajbari									50					45	4		
Shariatpur	3		1		3		3		16	15				45	10		
Sherpur	1		2	3	1				24	16				12	6		
Tangail	1	2			2	2	7	1	29	9				68	12		
Total-DHAKA	31	6	29	8	35	8	47	16	782	533	1 (100%)	1(100%)	76	46	710	170	
Khulna Division																	
Bagerhat	2		2		1				7		1(100%)		12	38	33		
Chuadanga	2		2		2		2		2					22	1		
Jessore	4		4		3		3	4	16	6				31	14		
Jhenaidah						2	1	21	4					20	6		
Khulna (non KCC)	3		3		3				4	16				28	27		
KCC only									1					11	10		
Kushtia	2		1		2		2	1	11	2				23	4		
Magura	1		1		1				19	3				20	4		
Meherpur							7		26	11				9			
Narail	2		1		2		1		9	13				17			
Satkhira								1		9				23	18		
Total-KHU	16	0	14	0	14	0	17	7	116	64		1(100%)	0	12	242	117	
Raj Division																	
Bogra	3		2		3		4	2	21	19				89	39		
Dinajpur	1		1		1			1	12	16				76	21		
Gaibandha	3	4		2	1	1			2	1				36	9		
Joypurhat									4	1				16	10		
Kurigram	4		1		3		2		11	1				13			
Lalmonirhat	1	2		1		2			1					21	14		
Natore					1		3	1	50	28				16	13		
Nilphamari							3		4					14	11		
Noagoan	1				1		4	4	48	25				31	6		
Nowabganj							5		19	13				17	4		
Pabna							18	1	90	45				33	9		
Panchagarh								1	1	2				17	8		
Rajshahi (non RCC)						1		2	30	11				43	18		
RCC only								3	1	68	13	1(100%)		40	50	21	
Rangpur	2		1		2	1			8					19	3		
Sirajganj	2				2			1	8	1				9	2		
Thakurgaon	2		3		2		1	3	4	9				31	11		
Total-RAJ	19	0	15	0	17	3	46	17	380	186		1(100%)	0	40	531	199	
Sylhet Division																	
Habiganj	3	1	2	2	2	3			4	5				16	2		
Maulvibazar	4		5		4	1	4	9	14	12	1(100%)		48	8	2		
Sunamganj	7	3	8	3	1	2	4	1	8	1				13	11		
Sylhet (non SCC)	4		2		3		1	19	19	22				8	2		
SCC only	1		2		1		13	15	12	9				1			
Total-SYL	19	4	19	5	11	6	22	44	57	49	1(100%)		48	0	46	17	
National	121	16	121	22	116	32	150	104	1,507	978	2(100%)	4(100%)	124	116	1,707	570	

Data as of 26 June 2010, * Only Lab Confirmed Measles and Mixed Type outbreak Cases

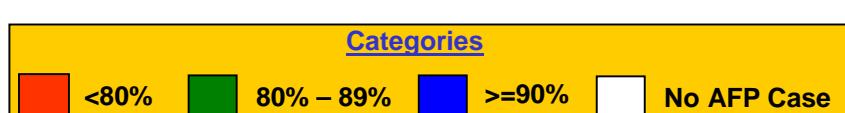
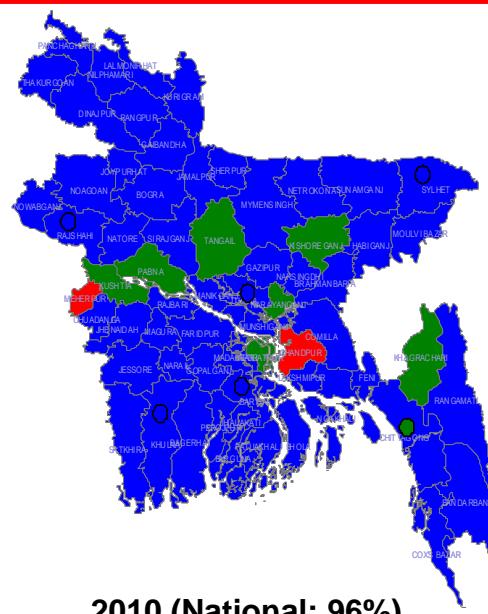
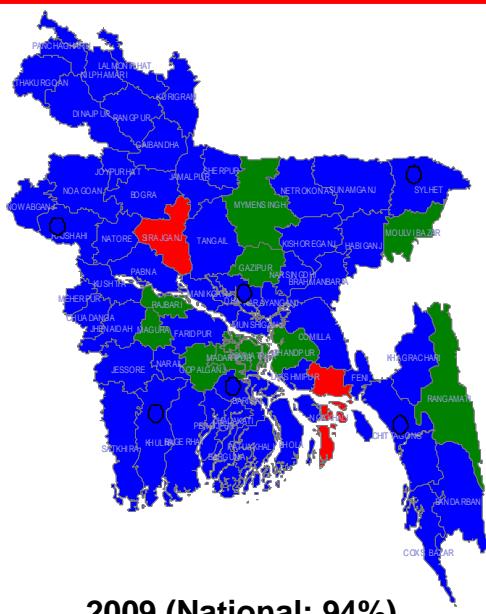
Annualized Non-Polio AFP Rate, by District, Bangladesh 2009-2010*



*Data as of 26 June 2010



Percentage of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2009-2010*



*Data as of 26 June 2010

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