



EPI Surveillance Bulletin

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Sensitization of Medical Professionals in Specialized and Medical College Hospitals on Expanded Programme on Immunization (EPI)

In the year 2004 it was decided in the National level Consultative Meeting that the Medical Professionals from both private and public Medical College & Hospitals, District Hospitals and Specialized Hospitals will be updated/oriented on national immunization program on a regular basis. The participants of these workshops will be the Professor/Consultant of different departments which include Paediatric, Medicine, Gynecology and Obstetric and Community Medicine.

The objectives of the workshop included:

- to provide updated program objectives; progress; challenges and future plan;
- seek advice and support from the professional bodies to improve the quality of the immunization services;
- consensus building on suggested activities and
- areas of collaboration to improve the vaccination coverage.

Based on the recommendation National EPI organized consultative workshop in all public Medical College Hospitals, District Hospitals and Specialized Hospitals in 2005 and 2006 with participation of the specialists/consultants of Paediatric, Medicine, Gynecology and Community medicine department.

Accordingly 16 consultative workshops were organized from 8 June to 9 July 2008 in all public Medical College Hospitals, BSMMU and Dhaka Shishu Hospital. A total number of 576 participants from Paediatric, Gynaecology and Obstetric, Medicine and Community Medicine department have been attended. Several power point presentations were prepared for the workshops. WHO and UNICEF provided their technical and financial support for organizing the workshops. The meetings were facilitated by the experts from national EPI, WHO and UNICEF. The major topics covered in those presentations were-

- Overview of routine EPI** which includes the revised strategies and objectives of immunization program, the vaccination schedule for children and women of child bearing age, effective maintenance of cold chain, current vaccination coverage and future challenges
- AFP (Acute Flaccid Paralysis) and VPDs (Vaccine Preventable Diseases) Surveillance including AEFI (Adverse Event Following Immunization)** includes global, regional and country specific status of polio eradication, plan for future NIDs, positive impact of measles catch up campaign, status of neo-natal tetanus elimination and strengthening the AEFI surveillance system
- Introduction of Hib vaccine** in the immunization program from 2009. The Hib introduction will be in the form of liquid pentavalent (DPT+HepB+Hib) single dose preparation
- The role of professionals** in national immunization program

The support provided by the medical professionals always appreciated by the national immunization programme. Their support in the immunization program not only increases the credibility among the beneficiaries but at the same time it helps to achieve the Millennium Development Goals (MDGs). For that reason national EPI will continue and increase the involvement of the medical professionals through organizing different workshops, seminar symposium etc. on a regular basis. With altogether we can protect our children from the vaccine preventable diseases.

Surveillance Summary

Description	2001	2002	2003	2004	2005	2006	2007	2008 ¹
Number of AFP cases	1287	1365	1128	1301	1458	1619	1844	1398
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	1224
No. of cases pending classification	0	0	0	0	0	0	0	174
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 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	2.98
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%	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%	95% 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%	94%
10 Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	29%	28%	23%	20%	20%	15%	15%	23%

¹ Data as of September 13, 2008; ² among cases occurring up to June 29, 2008; * Prior to 2005 NPAFP rate calculated as 1/100,000 under 15 children

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AFP Surveillance Performance Indicators, 2007 - 2008

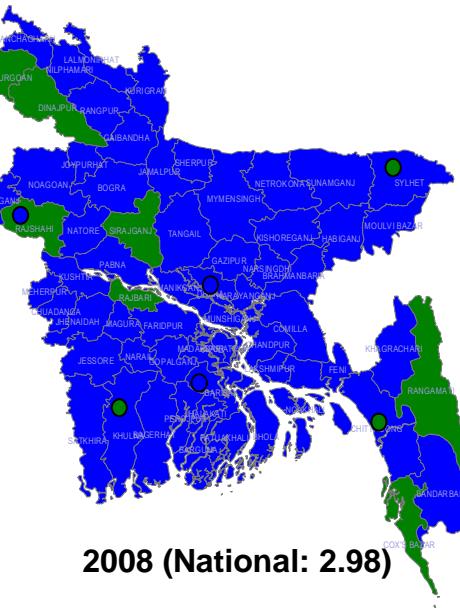
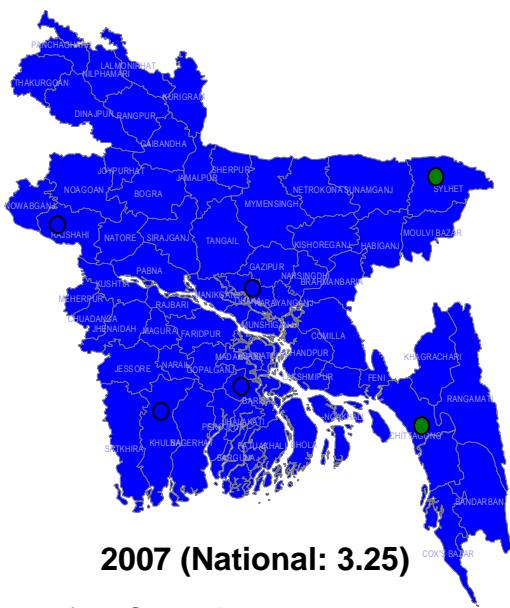
District	Minimum operational target of non-polio AFP		Total # AFP ¹		Wild polio-virus isolated		# Compatible cases ²	Non- Polio AFP cases ¹		Pending final classif. ¹		Annualized Non-polio AFP Rate ¹		Notification within 10 d after paralysis onset ¹		Investigation within 48 h after notification ¹		% with 2 stools within 14 days ¹		Stool sample arriving to lab within 72 hrs ¹		% with 60-day follow-up ²			
	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	11	0	0	6.25	4.16	100%	100%	100%	87%	100%	100%	100%	100%	100%	100%	100%	
Barisal (non BCC)	18	18	48	40				48	34	0	6	5.30	5.25	92%	95%	100%	98%	90%	95%	100%	100%	100%	100%	100%	89%
BCC only	2	2	4	4				4	4	0	0	3.87	5.34	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Bhola	15	16	39	44				39	41	0	3	5.08	7.39	95%	95%	100%	100%	97%	98%	97%	100%	100%	100%	100%	100%
Jhalakati	6	6	12	10				12	10	0	0	4.10	4.78	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Patuakhali	13	13	35	18				35	17	0	1	5.30	3.57	97%	89%	100%	100%	97%	89%	97%	100%	100%	100%	100%	100%
Perojpur	10	10	18	16				18	14	0	2	3.79	4.10	100%	88%	100%	100%	100%	94%	100%	100%	100%	100%	100%	100%
Total-BAR	71	72	179	143	0	0	0	179	131	0	12	5.01	5.10	96%	94%	100%	99%	94%	96%	99%	100%	100%	97%		
CTG Division																									
Bandarban	3	3	4	4				4	3	0	1	2.78	2.85	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Brahmanbaria	21	21	40	24				40	20	0	4	3.81	2.64	90%	96%	98%	90%	100%	100%	100%	100%	100%	100%	100%	100%
Chandpur	22	22	34	24				34	19	0	5	3.14	2.39	94%	100%	100%	94%	88%	100%	100%	100%	100%	100%	100%	100%
Chittagong (non CCC)	39	39	53	32				53	28	0	4	2.74	2.01	92%	94%	100%	100%	91%	91%	100%	100%	100%	100%	100%	100%
CCC only	22	22	20	16				20	14	0	2	1.85	1.77	100%	88%	95%	100%	95%	88%	100%	100%	100%	100%	100%	100%
Comilla	41	42	81	49				81	40	0	9	3.94	2.70	98%	100%	100%	94%	96%	100%	98%	100%	88%			
Cox's Bazar	17	17	27	12				27	12	0	0	3.25	1.99	93%	92%	100%	93%	92%	100%	100%	100%	100%	100%	100%	100%
Feni	11	11	24	14				24	13	0	1	4.44	3.33	96%	100%	100%	96%	93%	100%	100%	100%	100%	100%	100%	100%
Khagrachari	6	6	12	6				12	6	0	0	4.30	2.89	92%	100%	100%	100%	100%	92%	100%	100%	100%	100%	NA	
Lakshmpur	13	13	34	12				34	10	0	2	5.13	2.09	97%	83%	100%	100%	75%	100%	100%	100%	100%	100%	100%	100%
Noakhali	23	24	27	20				27	18	0	2	2.32	2.14	96%	95%	100%	89%	95%	100%	100%	100%	100%	100%	100%	100%
Rangamati	5	5	7	3				7	2	0	1	2.73	1.06	100%	67%	86%	100%	67%	100%	100%	50%	100%			
Total-CTG	223	225	363	216	0	0	0	363	185	0	31	3.27	2.30	95%	95%	99%	100%	94%	92%	100%	100%	99%	98%		
Dhaka Division																									
Dhaka (non DCC)	27	28	47	35				47	31	0	4	3.47	3.06	91%	86%	100%	100%	91%	83%	100%	100%	100%	100%	100%	100%
DCC only	67	71	77	67				77	57	0	10	2.29	2.27	91%	85%	100%	94%	90%	100%	100%	100%	100%	100%	100%	100%
Faridpur	16	16	44	24				44	22	0	2	5.58	3.86	95%	100%	96%	93%	96%	100%	100%	100%	100%	100%	100%	100%
Gazipur	18	19	23	21				23	20	0	1	2.52	3.04	96%	100%	96%	95%	100%	100%	100%	100%	100%	100%	100%	100%
Gopalganj	10	10	19	25				19	19	0	6	3.79	5.28	100%	76%	100%	96%	89%	76%	100%	100%	100%	89%		
Jamalpur	19	19	49	42				49	38	0	4	5.17	5.56	96%	98%	98%	90%	94%	100%	100%	100%	100%	100%	100%	100%
Kishoreganj	23	23	34	29				34	27	0	2	3.02	3.33	85%	97%	100%	100%	88%	97%	100%	96%	100%	100%	100%	100%
Madaripur	10	10	22	19				22	17	0	2	4.52	4.88	100%	100%	100%	100%	100%	100%	100%	95%	100%	100%	100%	100%
Manikganj	11	12	17	16				17	16	0	0	2.97	3.88	100%	94%	100%	94%	100%	100%	100%	100%	100%	100%	100%	100%
Munshiganj	11	11	26	20				26	20	0	0	4.65	4.99	92%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%	75%
Mymensingh	40	40	49	40				49	34	0	6	2.47	2.38	90%	90%	100%	98%	90%	95%	100%	100%	100%	100%	100%	100%
Narayanganj	20	20	30	20				30	17	0	3	2.99	2.33	87%	95%	100%	90%	95%	100%	100%	100%	100%	100%	100%	83%
Narsinghdi	18	18	24	21				24	20	0	1	2.71	3.11	88%	100%	100%	92%	100%	100%	100%	100%	100%	100%	100%	100%
Netrokona	18	18	42	19				42	18	0	1	4.75	2.82	93%	89%	100%	86%	100%	100%	100%	100%	100%	100%	100%	100%
Rajbari	9	9	13	9				13	6	0	3	3.05	1.95	100%	78%	100%	100%	78%	100%	100%	100%	100%	100%	100%	100%
Sariatpur	10	10	21	17				21	15	0	2	4.34	4.30	100%	82%	100%	94%	95%	88%	100%	100%	100%	100%	100%	100%
Sherpur	11	11	21	16				21	15	0	1	3.75	3.73	81%	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	57%
Tangail	28	29	42	41				42	34	0	7	2.96	3.34	86%	85%	100%	93%	90%	100%	100%	100%	100%	100%	100%	100%
Total-DHAKA	366	374	600	481	0	0	0	600	426	0	55	3.29	3.21	92%	91%	100%	98%	92%	93%	100%	100%	94%			
Khulna Division																									
Bagerhat	13	13	19	17				19	16	0	1	2.92	3.44	100%	100%	100%	95%	100%	100%	100%	100%	100%	100%	100%	50%
Chuadanga	10	10	14	21				14	15	0	6	2.95	4.34	93%	95%	100%	100%	86%	86%	100%	100%	100%	100%	100%	100%
Jessore	22	23	38	31				38	26	0	5	3.38	3.20	95%	87%	100%	95%	81%	100%	100%	100%	100%	100%	100%	100%
Jhenaidah	14	14	23	16				23	16	0	0	3.25	3.13	100%	100%	100%	87%	88%	100%	100%	100%	100%	100%	75%	
Khulna (non KCC)	13	13	25	20				25	17	0	3	3.90	3.70	96%	95%	100%	100%	95%	100%	100%	100%	100%	100%	100%	100%
KCC only	8	8	10	6				10	5	0	1	2.42	1.67	100%	83%	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%
Kushtia	16	16	21	21																					

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			
Barisal Division															
Barguna	4		2	1			4	1	18	15				11 9	
Barisal (non BCC)	1		1	2	3	1	4	2	8	10				27 33	
BCC only	1				1		3							0 1	
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	4	21	12				6 2	
Pirojpur			1	1			1			4				24 9	
Total BAR	12	4	13	8	10	5	29	8	65	46			0	0	94 70
CTG Division															
Bandarban	9								6					4 5	
Brahmanbaria		4	12	2	10	2				17				6 23	
Chandpur	2		1	2			2	1	3	52	38			21 36	
Chittagong (non CCC)	2		5					1	3	6	9			3 9	
CCC only	1	1	2		2	1	3	4	6					2 6	
Comilla	2		2		1			1	31	9				5 7	
Cox's Bazar	6		1	1	2		1		3					9 4	
Feni	1		8		6				27	13				7 12	
Khagrachari	3		1		1				2	1				7 1	
Laxmipur	9	3	2	3	4	3			32	42				15 17	
Noakhali		3	6	3	10	3	3	2	2	2				6 9	
Rangamati							1		7	1				1	
Total-CTG	35	11	40	11	36	11	10	13	174	132			0	0	86 129
Dhaka Division															
Dhaka (non DCC)		1	4				1		1	81	53			38 34	
DCC only	2	2	5	4			5	18	23	444	504	2(100%)		521	71 113
Faridpur	1		3	1	1				33	25				50 66	
Gazipur	2	3	4	1	1	3	4	1	5	3	1(100%)		177	11 15	
Gopalganj	1	2	3	2			1		19	15				10 26	
Jamalpur	2	1	7	4	2	1			44	42				31 27	
Kishoreganj	15	6	15	6	5	3	11	13	13	27				21 36	
Madaripur	1	1	1	2	1	1	1	1	38	22				53 57	
Manikganj	1	3	1				1	2	124	87				43 37	
Munshiganj	1	3					1	3	2	158	171			40 51	
Mymensingh	10	4	13	5	12	4	7		14	55				24 56	
Narayanganj	1		2		1			1	47	62	1(100%)		80	23 27	
Narsinghdi		1	1				1	1	3	2	3			20 9	
Netrokona	3	1	5	2	5	2	3		57	29				29 24	
Rajbari									21	23				9 90	
Shariatpur	1		1					2	20	19				41 48	
Sherpur	1		2	1					20	22				12 20	
Tangail	3	1	1	1	3	1	18	8	21	18				16 42	
Total-DHAKA	43	25	73	30	31	25	68	55	1,161	1,180	4(100%)		778	0	542 778
Khulna Division															
Bagerhat	3	1	5	2	2	1	1	1	17	48				43 30	
Chuadanga			1				2	2	40	29				22 16	
Jessore	4		6		4		2	11	5	43				21 14	
Jhenaidah	1		1		1		2		7	19				18 20	
Khulna (non KCC)	2				1			1	46	9				38 25	
KCC only	1		2					1	1	5				7 11	
Kushtia	5	2	4	1	5	2	4		82	40				26 20	
Magura							3	4	21	53				9 14	
Meherpur			1						20	11				9 3	
Narail	4	2	2	1	5	2	1	1	9	11				5 9	
Sathkhira	2	1	2	1	2	1	1		18	5				28 18	
Total-KHU	22	6	24	5	20	6	16	21	266	273			0	0	226 180
Raj Division															
Bogra	4	2	2	4	5	3	9	2	12	21				89 79	
Dinajpur	4	2	7	2	4	2		5	10	15				29 40	
Gaibandha	1	1	4	2	3	4				1				10 29	
Joypurhat				1				2	7	14				15 19	
Kurigram	1				1			1		2				3 10	
Lalmonirhat	1	2			1				4	1				16 15	
Natore	3	1	4		3	1	5	3	25	55				18 40	
Nilphamari	1		1		1		2							18 16	
Noagoan	3	2	2	3	3	2	4	6	29	83				22 35	
Nowabganj	1	1	1		1		2	1	10	29				19 19	
Pabna	1	2	3	2	1	1		4	9	38				19 28	
Panchagarh	1	1	2	1	1	1			6	2				18 11	
Rajshahi (non RCC)	2	2	1	2	2	2	7	7	20	18				29 32	
RCC only								3	161	59	1 (100%)		49		27 39
Rangpur	2							1		1				7 26	
Sirajganj	1				1		2		12	3				7 11	
Thakurgaon	2	1	5	1	2	1	1	2	3	2				38 24	
Total-RAJ	27	18	31	19	27	20	30	37	308	344	1 (100%)		49	0	384 473
Sylhet Division															
Habiganj	7	2	6	3	7	4			14	10				23 20	
Maulvibazar	6	4	5	4	6	4	1		22	15				12 7	
Sunamganj	11	6	11	3	14	6	31	27	46	40				13 19	
Sylhet (non SCC)	3	5	3	5	3	5	2	5	35	25				8 4	
SCC only		1					8	18	6	6				1 2	
Total-SYL	27	18	25	15	30	19	42	50	123	96			0	0	57 52
National	166	82	206	88	154	86	195	184	2,097	2,071	5 (100%)	0	827	0	1,389 1,682

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

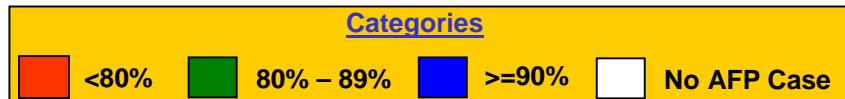
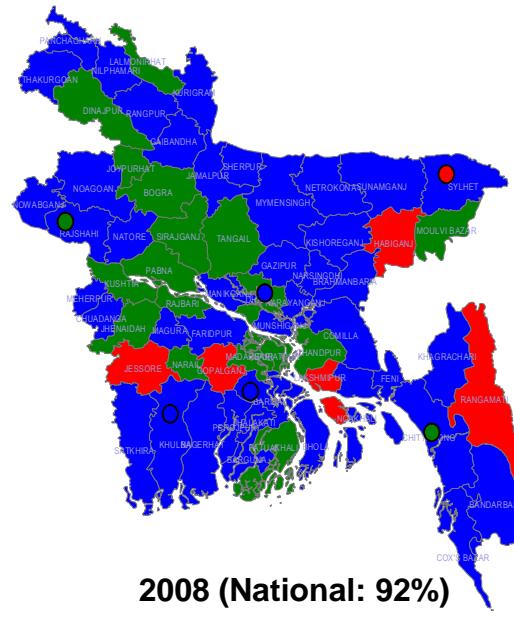
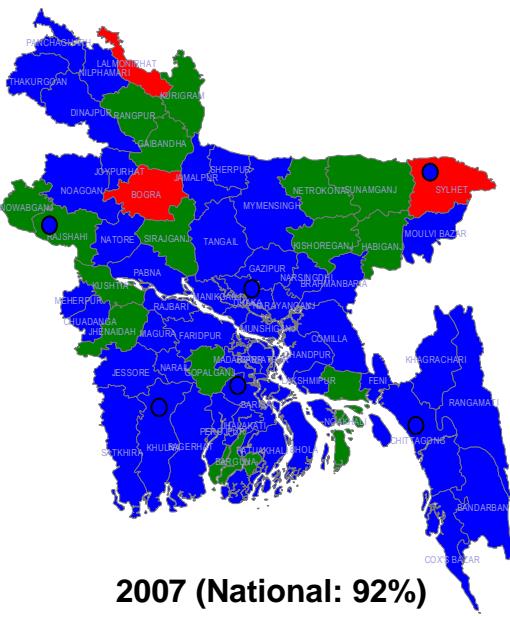
Annualized Non-Polio AFP Rate, by District, Bangladesh 2007-2008*



*Data as of 13 September 2008



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



*Data as of 13 September 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