EPI Surveillance Bulletin

Epidemiologic Week 42: October 9 – 15, 2005

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The first phase of Measles Catch-up Campaign ends in a success

The first phase of Measles campaign was conducted successfully in Bogra and Rajshahi district and Rajshahi City Corporation (RCC) from 3 to 22 September 2005. In this phase 1,622 vaccinators and 15,500 volunteers were assigned to vaccinate approximately 1.5 million children in more than 10,000 sites in 3 weeks. In the 1st week about 50% of the target children were vaccinated in schools and the rest were vaccinated at routine EPI sites over the next two weeks. Administrative reports show that almost 93% of children between 9 months to 10 years were vaccinated.

This campaign has come out to be a testimony of excellent collaboration and partnership among all sectors of the society for a noble cause of saving lives of the children. Different government sectors like health, family planning, education, religious affairs, local government as well as non government organization like Red Crescent, national and local NGOs played the prime role in creating public awareness and implementation of the campaign. The contribution of the school teachers in this campaign is really praise worthy.

This campaign has some unique features. All divisional directors (Health & FP), Civil Surgeons, Deputy Directors-FP and Chief Health Officers of City Corporations from rest of the country observed the campaign for two days in batches. Representatives of National Steering Committee, senior officers from Ansar & VDP, Bangladesh Scouts, Islamic Foundation and Primary Education directorate observed the campaign. Besides this all officers from EPI HQ, Surveillance Medical Officers & Divisional Coordinators of WHO, District Immunization Medical Officers and other people from Red Crescent, NSDP, UNICEF and WHO monitored the campaign.

Moreover, 14 international observers observed school and outreach sites of the campaign in both districts. They were from WHO-SEARO, CDC, India and Maldives. They provided their feed back on the campaign and commented that this was one of the best measles campaigns ever conducted.

From the independent observers' findings, we came to know that all vaccination sites visited by them in RCC had adequate vaccine supply. In Bogra and Rajshahi, 96% of the sites had adequate vaccine supply. Adequate diluents were available in 98% sites of RCC and Rajshahi and 96% sites of Bogra. AD syringes were found adequate in 98% sites in RCC but 99% sites of both Rajshahi and Bogra had adequate AD syringe.

Adequate safety boxes were available in 91% sites of RCC, 94% sites of Bogra and 97% sites of Rajshahi. Vaccine, diluents and syringes were within date of expiry in all sites visited by the independent observers in all three places. Vaccine was stored in grey vaccine carriers in 100% sites of RCC and Rajshahi but in 96% sites of Bogra. Diluents were found wrapped in thick paper in 91% sites of RCC, 79% sites of Bogra and 77% sites of Rajshahi. Ice packs were properly handled in 95% sites of RCC, 93% sites of Rajshahi and 91% sites of Bogra. Reconstituted vials were kept properly in 100% sites of RCC, 98% sites of Rajshahi and 96% sites of Bogra.

Vaccine was administered through subcutaneous route in only 92% sites of RCC but in 98% sites of Rajshahi and 99% sites of Bogra. Mosque or other miking was used in only 66% sites of RCC, 86% sites of Rajshahi and 82% sites of Bogra.

Independent Observers' Rapid Convenience Assessment (RCA) findings reveal that 70% areas visited by them had at least 90% coverage. A total of 119 areas were assessed and 20 children were surveyed in each area. A total of 120 AEFI cases were reported during campaign. Traveling (38%) was found to be the major cause of non vaccination during the campaign followed by unawareness about the campaign (18%). Field workers visit (31%) was the main source of information about the campaign followed by mosque miking (15%) and mobile miking (13%).

The 1st phase is over now, the strengths and the weaknesses of this phase are known. We need to do more to make the second phase successful based on the experience of the 1st phase.

Surveillance Summary for 1999-2005 (through Epidemiologic Week 42, October 9-15, 2005)

	1999	2000	2001	2002	2003	2004	2005[1]
Number of AFP cases	761	1138	1287	1365	1128	1301	1184
No. of clinically confirmed polio cases	322	197	NA	NA	NA	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	36	0	0	2	0
No. of cases with isolation of wild poliovirus	29	1	0	0	0	0	0
No. of discarded polio cases (i.e., non-polio AFP)	439	941	1251	1365	1128	1299	1097
No. of cases pending classification	0	0	0	0	0	0	87
Expected annual number of non-polio AFP cases (2/100,000 children <15 yr)*	505	515	533	549	556	563	1094

AFP Surveillance Performance Indicators:

Indicator	Target	1999	2000	2001	2002	2003	2004	2005
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	2.71[2]
2. Completeness of passive reporting from facilities	≥ 90%	66%	83%	65%	62%	67%	82%	90%
3. Timeliness of passive reporting from facilities	≥ 80%	30%	58%	38%	36%	62%	75%	82%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	83%	93%	96%	96%	98%	98%	99%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	49%	68%	80%	89%	90%	90%	92%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	81%	92%	97%	98%	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%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	97%	95%	93%	99%	100%	98%	96%[3]
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	58%	94%	99%	100%	100%	100%	99%[4]
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	13%	21%	29%	28%	23%	20%	21%

*[1] Data as of Oct 15, 2005; [2] NPAFP rate annualized for cases according to Aug 13, 2005; [3] among cases occurring up to Aug 1, 2005; [4] as of Sep 17 , 2005, * Prior to 2005 NPAFP rate calculated as 1/100,000 children*

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AFP Surveillance Performance Indicators - 2005

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[2]	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[3]
Dhaka Division												
DCC only	61	47			44	3	1.91	96%	98%	92%	100%	81%
Dhaka (non DCC)	25	37			34	3	3.08	97%	100%	95%	97%	96%
Faridpur	15	21			21	0	3.71	95%	100%	95%	100%	89%
Gazipur	18	14			13	1	2.14	100%	100%	93%	100%	91%
Gopalganj	10	21			17	4	3.84	100%	100%	100%	100%	100%
Jamalpur	18	26			25	1	3.25	89%	100%	85%	100%	84%
Kishoreganj	22	25			23	2	2.72	92%	100%	92%	100%	100%
Madaripur	10	19			18	1	5.26	90%	100%	95%	100%	100%
Manikganj	11	13			13	0	3.09	85%	100%	85%	100%	100%
Munshiganj	11	25			23	2	6.30	96%	100%	96%	100%	100%
Mymensingh	39	37			31	6	2.04	84%	100%	87%	100%	100%
Narayanganj	19	11			10	1	1.47	100%	100%	100%	100%	100%
Narsingdhi	17	18			18	0	2.78	89%	100%	89%	100%	87%
Netrokona	17	18			18	0	2.93	100%	100%	94%	100%	100%
Rajbari	8	10			9	1	3.04	100%	100%	100%	100%	100%
Shariatpur	9	19			18	1	6.02	95%	95%	90%	100%	100%
Sherpur	11	12			11	1	3.17	100%	100%	100%	100%	100%
Tangail	28	23			19	4	1.81	87%	100%	87%	100%	93%
Total-DHAKA	*349*	*396*	*0*	*0*	*365*	*31*	2.78	93%	100%	92%	100%	94%
CTG Division												
CCC only	20	20			20	0	2.48	100%	100%	95%	100%	100%
Chittagong (non CCC)	38	39			35	4	2.50	100%	100%	95%	100%	100%
Bandarban	3	3			1	2	1.15	100%	100%	100%	100%	100%
Brahmanbaria	21	22			21	1	2.92	91%	91%	86%	100%	88%
Chandpur	20	14			11	3	1.54	100%	93%	86%	100%	89%
Comilla	40	39			31	8	1.57	97%	97%	87%	100%	95%
Cox's Bazar	16	14			12	2	2.18	93%	100%	93%	100%	100%
Feni	10	24			21	3	5.71	96%	100%	92%	100%	95%
Khagrachari	5	7			6	1	3.71	86%	100%	86%	100%	100%
Laxmipur	13	17			17	0	3.41	88%	100%	88%	100%	100%
Noakhali	23	35			33	2	4.33	97%	100%	97%	100%	87%
Rangamati	5	5			5	0	2.60	60%	100%	80%	100%	100%
Total-CTG	*214*	*239*	*0*	*0*	*213*	*26*	2.67	95%	98%	91%	100%	95%
Sylhet Division												
SCC	4	3			3	0	2.47	100%	100%	100%	100%	100%
Sylhet (non SCC)	19	19			19	0	2.92	95%	100%	95%	100%	100%
Habiganj	15	11			8	3	1.44	73%	100%	91%	100%	88%
Maulvibazar	14	9			7	2	1.33	100%	100%	100%	100%	100%
Sunamganj	18	12			12	0	1.44	100%	100%	92%	91%	86%
Total-SYL	*70*	*54*	*0*	*0*	*49*	*5*	1.88	93%	100%	94%	98%	95%
Raj Division												
RCC only	3	4			4	0	3.63	100%	100%	100%	100%	100%
Rajshahi (non RCC)	17	12			12	0	2.08	67%	100%	58%	100%	100%
Bogra	26	9			9	0	1.08	78%	100%	89%	100%	86%
Dinajpur	23	15			15	0	1.89	87%	100%	93%	100%	100%
Gaibandha	18	17			16	1	2.59	94%	100%	88%	88%	93%
Joypurhat	7	11			11	0	4.70	82%	100%	91%	100%	100%
Kurigram	15	15			12	3	2.08	80%	100%	87%	100%	100%
Lalmonirhat	10	13			10	3	2.93	85%	100%	77%	100%	100%
Natore	13	12			12	0	2.18	100%	100%	100%	100%	100%
Nilphamari	14	11			11	0	1.84	100%	100%	100%	100%	100%
Noagoan	21	25			24	1	3.52	100%	96%	88%	96%	100%
Nowabganj	13	18			15	3	2.98	89%	100%	83%	100%	100%
Pabna	19	20			19	1	2.68	100%	100%	100%	100%	93%
Panchagarh	7	8			8	0	2.98	100%	100%	100%	100%	100%
Rangpur	22	10			10	0	1.27	100%	100%	90%	89%	100%
Sirajganj	24	21			19	2	1.87	91%	100%	95%	100%	100%
Thakurgaon	11	7			7	0	1.76	100%	100%	100%	100%	100%
Total-RAJ	*263*	*228*	*0*	*0*	*214*	*14*	2.24	91%	100%	90%	98%	98%
Khulna Division												
KCC only	8	4			4	0	0.79	100%	100%	100%	75%	100%
Khulna (non KCC)	13	13			12	1	2.50	92%	100%	92%	100%	100%
Bagerhat	13	20			20	0	4.42	100%	95%	100%	100%	100%
Chuadanga	9	9			9	0	2.78	78%	100%	67%	100%	100%
Jessore	22	27			27	0	3.33	96%	100%	93%	100%	95%
Jhenaidah	14	16			15	1	2.98	94%	100%	94%	100%	100%
Kushtia	15	13			11	2	2.06	85%	100%	85%	100%	100%
Magura	7	8			8	0	3.05	100%	100%	100%	88%	100%
Meherpur	5	6			6	0	2.41	100%	100%	100%	100%	100%
Narail	6	8			8	0	3.75	88%	88%	75%	100%	100%
Satkhira	16	13			11	2	2.15	85%	92%	85%	100%	100%
Total-KHU	*128*	*137*	*0*	*0*	*131*	*6*	2.79	93%	98%	91%	99%	99%
Barisal Division												
BCC	2	4			4	0	4.74	100%	100%	100%	100%	100%
Barisal (non BCC)	18	30			29	1	4.58	90%	100%	97%	97%	73%
Barguna	7	23			22	1	7.41	100%	100%	100%	100%	100%
Bhola	15	24			23	1	4.86	88%	100%	96%	100%	100%
Jhalakhati	6	18			17	1	7.59	100%	100%	100%	100%	100%
Patuakhali	13	13			12	1	2.70	92%	100%	85%	100%	91%
Pirojpur	9	18			18	0	5.07	100%	100%	100%	100%	100%
Total_BAR	*70*	*130*	*0*	*0*	*125*	*5*	4.91	95%	100%	97%	99%	93%
National	*1094*	*1184*	*0*	*0*	*1097*	*87*	2.71	*93%*	*99%*	*92%*	*99%*	*96%*

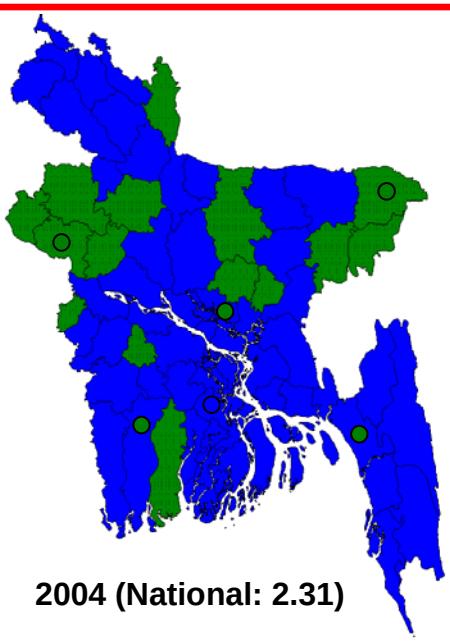
[1]Data as of Epidemiologic Week 42 October 15, 2005, [2] Non-Polio AFP Rate is annualized for cases occuring upto August 13, 2005, [3] for cases occuring upto August 1, 2005

Disease Surveillance - 2005

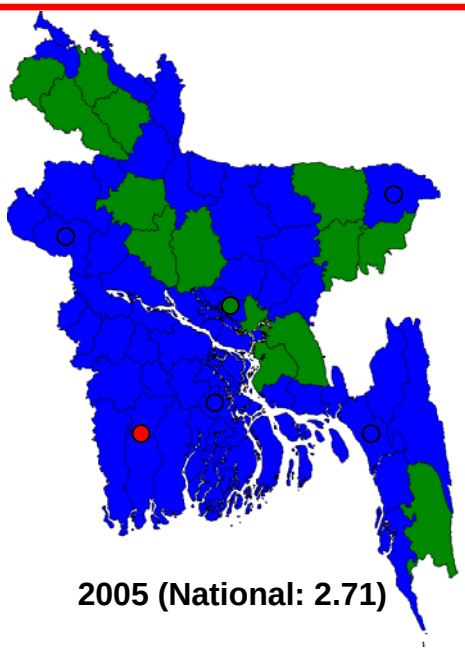
District	Neonatal Tetanus			Measles				AEFI
	# of case reported by Active Surveillance	# of case reported by Passive Surveillance	# of case Investigated	# of case reported by Active Surveillance	# of case reported by Passive Surveillance	Outbreak		# of case Reported
						Number of Outbreak (% Investigated)	# of cases	
Dhaka Division								
DCC only	6	8	6	176	179	24(100%)	3237	2
Dhaka (non DCC)	4	2	4	19	39	3(100%)	480	22
Faridpur	1	3	2	3	45	3(100%)	283	47
Gazipur	3	2	2	10	31	3(100%)	312	4
Gopalganj	4	3	4	1	133	3(100%)	144	35
Jamalpur				3	33	2(100%)	385	15
Kishoreganj	18	13	9	45	126	9(100%)	856	19
Madaripur		1		12	150	5(100%)	339	36
Manikganj	2	1		1	24	4(100%)	860	30
Munshiganj	2	3	2	2	279	9(100%)	920	15
Mymensingh	13	4	11	29	180	6(100%)	576	64
Narayanganj				66	61	2(100%)	102	17
Narsingdhi				16	38	2(100%)	102	7
Netrokona	2	4	2	6	165	8(100%)	946	19
Rajbari		1	1		40	1(100%)	18	4
Shariatpur	2	3	2	3	116	5(100%)	225	39
Sherpur	3	7	6		67	2(100%)	325	16
Tangail	3	3	4	11	24	2(100%)	283	21
Total-DHAKA	63	58	55	403	1730	93(100)%	10393	412
CTG Division								
CCC only	6	2	5	60	45	2(100%)	161	5
Chittagong (non CCC)		3		9	62	1(100%)	17	3
Bandarban				2	6			3
Brahmanbaria	7	10	9	2	27			6
Chandpur	4	4	3	3	80	3(100%)	34	34
Comilla	4	3	2	7	187	12(100%)	1405	4
Cox's Bazar	5	5	6	4	20	1(100%)	183	7
Feni	2	3	2	2	190	8(100%)	673	8
Khagrachari				1	25			
Laxmipur	6	6	6	3	62	1(100%)	14	43
Noakhali	4	3	4	10	60	5(100%)	320	15
Rangamati				1	45			3
Total-CTG	38	39	37	104	809	33(100%)	2807	131
Sylhet Division								
SCC	1		2	164	173			1
Sylhet (non SCC)	3	3		155	269			13
Habiganj	5	6		23	116	5(100%)	274	27
Maulvibazar	3	3	1	22	134	3(100%)	107	14
Sunamganj	6	8	4	277	318	2(100%)	720	23
Total-SYL	18	20	7	641	1010	10(100%)	1101	78
Raj Division								
RCC only				14	237	15(100%)	1085	39
Rajshahi (non RCC)	4	5	5	4	10	1(100%)	266	10
Bogra	1	1	1	6	22	2(100%)	75	95
Dinajpur	6	6	6	1	14	5(100%)	559	50
Gaibandha	1	4	5		27	3(100%)	272	37
Joypurhat	1	1	1	4	24			22
Kurigram		4	4		9	1(100%)	38	12
Lalmonirhat	1	1	1		15	1(100%)	50	2
Natore	4	4	4	15	176	8(100%)	701	19
Nilphamari	2			1	9			25
Noagoan	2	2	3	3	106	5(100%)	749	36
Nowabganj	4	3	4	6	8	1(100%)	61	8
Pabna		1		11	37			8
Panchagarh	1	3	2	2	72	5(100%)	1078	3
Rangpur	7	7	6	7	7	2(100%)	46	21
Sirajganj				4	17	1(100%)	127	12
Thakurgaon				18	22	7(100%)	810	5
Total-RAJ	34	42	42	96	812	57(100%)	5917	404
Khulna Division								
KCC only	1		1		120	21(100%)	1368	8
Khulna (non KCC)	1	2	1	5	625	16(100%)	648	41
Bagerhat	3	3	2	6	271	14(100%)	636	15
Chuadanga	3	3	4	1	20			27
Jessore	2	1	3	8	34			51
Jhenaidah	2	1	2	3	18	2(100%)	96	30
Kushtia	1		1	4	54	2(100%)	91	5
Magura	1	1	1	1	10			15
Meherpur	1	2		3	34	2(100%)	235	4
Narail	10	5	10	1	17	2(100%)	137	14
Satkhira	3		2		18	2(100%)	123	31
Total-KHU	28	18	27	32	1221	61(100%)	3334	241
Barisal Division								
BCC	1			20	17			
Barisal (non BCC)	3	4	2	29	58	1(100%)	48	7
Barguna		1		8	61			5
Bhola	4	4	5	3	67	1(100%)	108	21
Jhalakhati	2		1	17	14	1(100%)	68	11
Patuakhali	3	3	2	36	57	4(100%)	642	3
Pirojpur		1	1	14	26	5(100%)	665	23
Total_BAR	13	13	11	127	300	12(100%)	1531	70
National	194	190	179	1403	5882	266(100%)	25083	1336

Data as of Epidemiologic Week 42, October 15, 2005

Annualized Non-Polio AFP Rate, by District, Bangladesh 2004-2005*



2004 (National: 2.31)



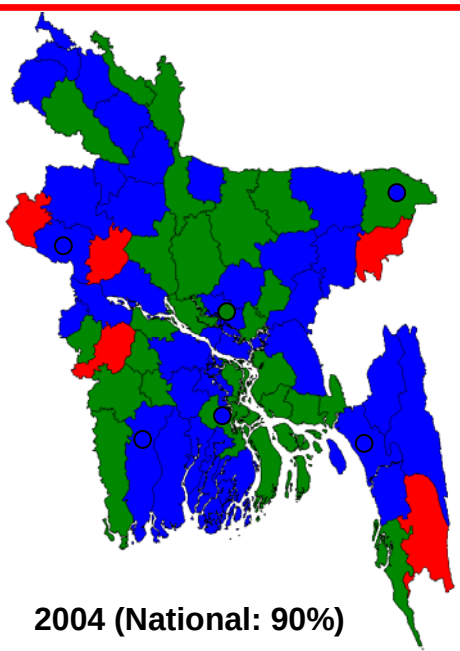
2005 (National: 2.71)

*NPAFP Rate annualized up to August 13, 2005

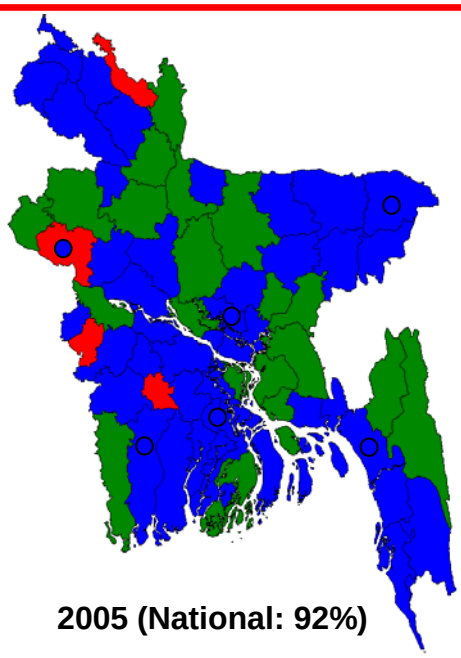
Rate per 100,000 children <15 years

<1.00 | 1.00 – 1.99 | >=2.00

Percentage of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2004-2005*



2004 (National: 90%)



2005 (National: 92%)

Categories

<80% | 80% – 89% | >=90% | No AFP Case

*Data as of Epidemiologic Week 42, October 15, 2005