



EPI Surveillance Bulletin

Epidemiologic Week 52: December 19 - 25, 2003



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High Quality 12th NIDs to Prevent Polio Importation

The first round of 12th NIDs will be held on 18th January 2004 throughout Bangladesh. The preparations are going on to cover each and every child 0-59 months old with two drops of oral polio vaccine (OPV) in both rounds of the NIDs. The 2nd round will be held on 29th February, on which day all children 12-59 months of age will also get a high potency vitamin A capsule. Both the rounds will be followed by a 4 day house to house campaign to detect and vaccinate any children left out from vaccination at the fixed sites.

Meanwhile the preparations are going in full swing in both urban and rural areas of Bangladesh. Orientation and planning meetings in connection with the NIDs are being held at all levels, in which the importance of attaining highest quality of 12th NIDs to prevent importation of wild poliovirus is being underlined. Although Bangladesh does not have cases of wild poliovirus since August 2000, it is at a very high risk of importation due to close proximity of the cases occurring in India and due to the presence of a very porous border between the two countries. India has obtained a remarkable progress in polio eradication; number of cases has come down from 1600 in 2002 to 214 in 2003, but there are still cases in Indian states of West Bengal, Bihar and Assam. Moreover, some states of India (Karnataka, Tamilnadu, Andhra, Assam) previously free from poliomyelitis for 3-4 years have fresh cases thought to be caused by importation from UP and Bihar. This is a cause of real concern for Bangladesh and gives added emphasis to the 12th NIDs.

NIDs are massive operational activities; vaccines will be provided at more than 120,000 fixed sites by more than 600,000 volunteers and field workers. Special NID centers will be

organized to provide vaccines to traveling children at launch and ferry ghats and bus and train stations. They will also be organized at toll plazas at the foot of large bridges. It may be noted that a significant number of children are missed due to traveling during the NIDs.

Honorable Prime Minister Begum Khaleda Zia inaugurated the 11th NIDs by providing OPV to some children,



Honorable Prime Minister inaugurating the 11th NIDs

which has become a tradition in this country and which underlines the commitment of the government of Bangladesh as well as her personal commitment towards the cause of children of Bangladesh. This commitment is visibly being continued in all activities related to 12th NIDs.

Shishu Shishu Proti Shishu Khuje Fero Proti Shishu !

Surveillance Summary for 1998-2003 (through Epidemiologic Week 52, December 19 - 25, 2003)

	1998	1999	2000	2001	2002	2003 ¹
Number of AFP cases	475	761	1138	1287	1365	1109
No. of clinically confirmed polio cases	298	322	197	NA	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	NA	36	0	0
No. of cases with isolation of wild poliovirus	10	29	1	0	0	0
No. of discarded polio cases (i.e., non-polio AFP)	165	439	941	1251	1365	1076
No. of cases pending classification	0	0	0	0	0	33
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)	495	505	515	533	549	556

AFP Surveillance Performance Indicators:

Indicator	Target	1998	1999	2000	2001	2002	2003
1. Annual Non-Polio AFP rate in children < 15 years old	≥ 1/100,000	0.33	0.87	1.82	2.35	2.49	2.18 ²
2. Completeness of active reporting from hospitals	≥ 90%	46%	73%	95%	100%	100%	100%
3. Timeliness of active reporting from hospitals	≥ 80%	15%	44%	72%	88%	100%	99%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	89%	83%	93%	96%	96%	98%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	59%	49%	68%	80%	89%	90%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	88%	81%	92%	97%	98%	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%	92%	97%	100%	100%	99%	100%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	80%	97%	95%	93%	99%	96% ³
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100%	100% ⁴
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	28%	23%

¹ Data as of Dec 25, 2003; ² NPAFP rate annualized for cases according to Oct 23, 2003; ³ among cases with inadequate stools occurring up to Sep 26, 2003; ⁴ as of Nov 27, 2003:

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AFP Surveillance Performance Indicators -- 2003

Epiweek 52, 2003

District	# Expected 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 (/1,00,000)	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	# eligible for 60-day follow-up ³	% with 60-day follow-up ³
Dhaka Division													
DCC ONLY	37	38			35	3	1.08	79%	97%	87%	100%	4	100%
DHAKA (NON DCC)	14	26			25	1	2.16	92%	100%	89%	100%	4	75%
FARIDPUR	8	32			31	1	4.38	94%	100%	94%	100%	2	100%
GAZIPUR	9	15			14	1	1.88	73%	100%	80%	100%	2	100%
GOPALGANJ	5	21			21	0	4.60	95%	100%	95%	100%	1	100%
JAMALPUR	9	18			18	0	2.28	72%	94%	83%	100%	4	100%
KISHOREGANJ	11	38			36	2	3.74	95%	97%	95%	100%	1	100%
MADARIPUR	5	18			18	0	4.35	83%	100%	89%	100%	2	100%
MANIKGANJ	6	15			15	0	2.62	73%	100%	80%	100%	3	100%
MUNSHIGANJ	6	27			24	3	4.43	100%	96%	93%	96%	1	100%
MYMENSINGH	19	23			23	0	1.40	70%	96%	83%	100%	4	100%
NARAYANGANJ	9	13			12	1	1.48	85%	100%	85%	100%	2	100%
NARSINGDHI	8	14			13	1	1.81	93%	100%	100%	100%	0	NA
NETROKONA	8	15			15	0	1.97	67%	87%	87%	100%	2	100%
RAJBARI	4	9			8	1	2.12	67%	100%	78%	100%	2	100%
SHARIATPUR	5	25			24	1	5.56	88%	100%	88%	96%	2	100%
SHERPUR	5	11			11	0	2.42	91%	100%	100%	100%	0	NA
TANGAIL	14	32			32	0	2.76	88%	100%	91%	100%	3	100%
Total-DHAKA	182	390	0	0	375	15	2.35	85%	98%	89%	100%	39	97%
CTG Division													
CCC ONLY	12	8			8	0	0.81	100%	100%	100%	100%	0	NA
CHITTAGONG (NON CCC)	20	33			32	1	1.87	88%	97%	82%	100%	5	100%
BANDARBAN	1	0			0	0	0.00	NA	NA	NA	NA	0	NA
BRAHMANBARIA	10	11			10	1	1.09	91%	82%	64%	100%	4	100%
CHANDPUR	10	24			24	0	2.90	92%	96%	96%	96%	1	100%
COMILLA	20	45			44	1	2.48	93%	98%	98%	100%	1	100%
COX'S BAZAR	8	18			17	1	2.42	89%	100%	94%	100%	2	100%
FENI	5	10			10	0	2.18	100%	100%	100%	100%	0	NA
KHAGRACHARI	2	7			7	0	4.23	57%	71%	57%	86%	3	100%
LAXMIPUR	6	16			14	2	2.62	94%	100%	88%	100%	1	100%
NOAKHALI	11	18			17	1	1.87	89%	94%	94%	100%	1	100%
RANGAMATI	2	6			6	0	3.02	83%	83%	100%	100%	0	NA
Total-CTG	107	196	0	0	189	7	2.03	90%	95%	90%	99%	18	100%
Sylhet Division													
SCC	1	2			1	1	1.21	100%	100%	100%	100%	0	NA
SYLHET (NON SCC)	10	15			14	1	1.45	100%	100%	93%	100%	0	NA
HABIGANJ	8	8			8	0	1.06	75%	88%	75%	100%	1	100%
MAULVIBAZAR	7	10			10	0	1.73	90%	90%	90%	100%	1	0%
SUNAMGANJ	9	14			13	1	1.61	93%	100%	86%	100%	2	100%
Total-SYL	35	49	0	0	46	3	1.45	92%	96%	88%	100%	4	75%
Raj Division													
RCC ONLY	2	3			3	0	1.81	67%	100%	100%	100%	0	NA
RAJSHAHI (NON RCC)	8	11			10	1	1.51	91%	100%	73%	90%	3	100%
BOGRA	13	20			20	0	1.86	100%	100%	100%	100%	1	0%
DINAJPUR	11	21			21	0	1.87	86%	100%	95%	100%	1	100%
GAIBANDHA	9	19			17	2	2.15	90%	95%	79%	94%	4	100%
JOYPURHAT	4	11			11	0	3.02	82%	100%	73%	100%	3	100%
KURIGRAM	8	17			17	0	1.97	88%	100%	77%	100%	4	100%
LALMONIRHAT	5	7			7	0	1.45	86%	100%	86%	100%	1	100%
NATORE	7	8			8	0	1.38	100%	100%	100%	100%	0	NA
NILPHAMARI	7	13			13	0	2.25	77%	100%	85%	100%	3	67%
NOAGHAN	10	24			24	0	2.78	96%	100%	92%	100%	2	100%
NOWABGANJ	6	4			4	0	0.81	100%	100%	100%	100%	0	NA
PABNA	9	17			17	0	1.88	88%	100%	82%	100%	4	75%
PANCHAGARH	4	13			13	0	3.63	85%	100%	85%	100%	2	100%
RANGPUR	11	12			12	0	1.10	82%	100%	83%	100%	2	100%
SIRAJGANJ	12	17			17	0	1.31	94%	100%	94%	100%	1	100%
THAKURGAON	5	17			17	0	3.63	88%	94%	82%	100%	3	100%
Total-RAJ	131	234	0	0	231	3	1.91	89%	99%	87%	99%	34	91%
Khulna Division													
KCC ONLY	5	3			3	0	0.24	100%	100%	100%	100%	0	NA
KHULNA (NON KCC)	7	10			10	0	1.55	80%	100%	80%	100%	2	100%
BAGERHAT	7	9			8	1	1.21	89%	100%	89%	100%	1	100%
CHUADANGA	4	9			9	0	2.72	89%	100%	100%	100%	0	NA
JESSORE	11	13			13	0	1.21	83%	92%	77%	100%	3	100%
JHENAI DAH	7	10			10	0	1.55	100%	100%	100%	100%	0	NA
KUSHTIA	7	15			14	1	2.42	87%	100%	100%	100%	0	NA
MAGURA	4	7			7	0	1.81	100%	100%	100%	100%	0	NA
MEHERPUR	3	3			3	0	1.21	100%	100%	100%	100%	0	NA
NARAIL	3	3			3	0	1.21	100%	100%	100%	100%	0	NA
SATKHIRA	8	10			10	0	1.36	70%	100%	90%	100%	1	100%
Total-KHU	66	92	0	0	90	2	1.48	88%	99%	92%	100%	7	100%
Barisal Division													
BCC	1	3			3	0	3.63	100%	100%	100%	100%	0	NA
BARISAL (NON BCC)	9	25			24	1	2.96	88%	88%	88%	100%	2	100%
BARGUNA	4	24			23	1	6.65	100%	100%	100%	100%	0	NA
BHOLA	7	24			24	0	3.97	83%	100%	88%	100%	3	100%
JHALAKHATI	3	19			19	0	6.85	95%	95%	100%	100%	0	NA
PATUAKHALI	6	22			22	0	3.83	86%	100%	86%	96%	3	100%
PIROJPUR	5	31			30	1	7.26	100%	97%	100%	100%	0	NA
Total_BAR	35	148	0	0	145	3	4.70	93%	97%	94%	99%	8	100%
National	556	1109	0	0	1076	33	2.18	89%	98%	90%	99%	110	96%

¹Data as of Epidemiologic Week 52, Dec 25, 2003; ² Non-Polio AFP rate is annualized for cases occurring up to Oct 23, 2003; ³ among cases with inadequate stools occurring up to Sep 26, 2003

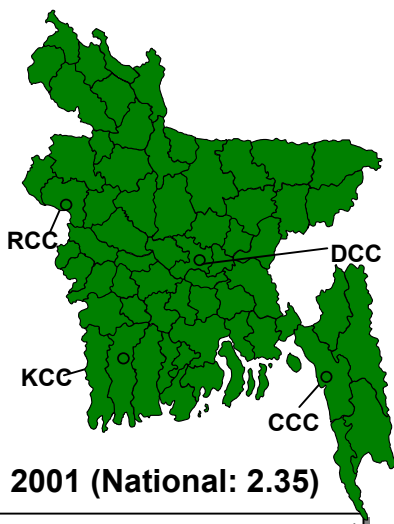
Disease Surveillance -- 2003

Epiweek 52, 2003

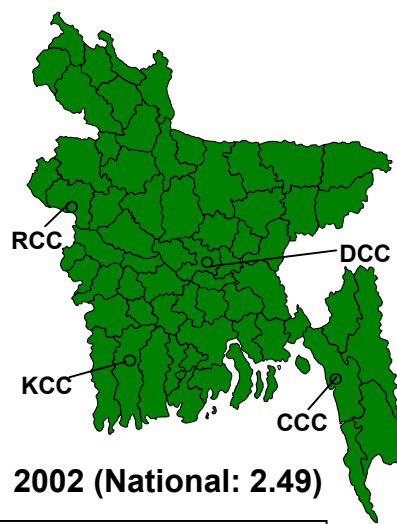
District	Neonatal Tetanus			Measles			AEFI
	Total Reported by Active Surveillance	Total reported by Passive Surveillance	Total Case Investigated	Total Reported by Surveillance Network	Total Reported by EPI 6 Disease Surveillance	Number of Outbreak* (% Investigated)	
Dhaka Division							
DCC ONLY	12	0	7	520			0
DHAKA (NON DCC)	3	0	4	42	46		0
FARIDPUR	9	11	6	76	25	1 (100%)	1
GAZIPUR	2	0	2	32	9		10
GOPALGANJ	10	10	12	37	29		8
JAMALPUR	4	1	4	102	190		12
KISHOREGANJ	18	18	23	160	162		8
MADARIPUR	2	2	3	3	3		4
MANIKGANJ	3	1	1	10	311		0
MUNSHIGANJ	3	0	2	15	4		0
MYMENSINGH	21	10	26	107	3	1 (100%)	0
NARAYANGANJ	2	0	0	15	2		0
NARSINGDI	6	1	4	41	61		1
NETROKONA	5	8	5	61	56		4
RAJBARI	2	2	0	4	64		0
SHARIATPUR	1	0	1	10	4		8
SHERPUR	14	9	15	14	95		4
TANGAIL	2	0	2	95	211		6
Total-DHAKA	119	73	117	1344	1275	2 (100%)	66
CTG Division							
CCC ONLY		0	0	22			0
CHITTAGONG (NON CCC)	4	1	5	29	23		2
BANDARBAN	0	0	0	25	205	1 (100%)	0
BRAHMANBARIA	22	32	18	30	18		8
CHANDPUR	0	0	1	24	10		17
COMILLA	6	2	2	149	74		0
COX'S BAZAR	5	3	3	67	109		2
FENI	4	4	2	25	107		7
KHAGRACHARI	2	2	1	7	73		0
LAXMIPUR	9	12	9	99	2		9
NOAKHALI	5	7	5	62	38		1
RANGAMATI	1	0	0	11	13		0
Total-CTG	58	63	46	550	672	1 (100%)	46
Sylhet Division							
SCC	0	0	0	2	0		0
SYLHET (NON SCC)	5	2	4	108	2		0
HABIGANJ	19	23	8	41	24	1 (100%)	13
MAULVIBAZAR	12	13	2	45	29		28
SUNAMGANJ	27	22	32	109	67		0
Total-SYL	63	60	46	305	122	1 (100%)	41
Raj Division							
RCC ONLY	2	3	0	7	0		2
RAJSHAHI (NON RCC)	4	4	2	9	6		1
BOGRA	3	1	3	5	0		1
DINAJPUR	3	5	5	29	21		10
GAIBANDHA	2	7	14	194	187	6 (100%)	0
JOYPURHAT	0	0	0	22	2		7
KURIGRAM	0	1	0	142	32	1 (100%)	0
LALMONIRHAT	0	0	0	29	0		0
NATORE	10	12	9	8	0		4
NILPHAMARI	1	2	1	23	21		1
NOAGHAN	1	2	3	28	17		0
NOWABGANJ	4	8	10	245	184	2 (100%)	0
PABNA	5	5	4	82	54		11
PANCHAGARH	0	0	0	20	1		2
RANGPUR	7	6	8	41	41		0
SIRAJGANJ	4	4	4	9	58		0
THAKURGAON	2	1	1	27	46		1
Total-RAJ	48	61	64	920	670	9 (100%)	40
Khulna Division							
KCC ONLY	1	0	1	6	0		4
KHULNA (NON KCC)	8	8	5	15	103		2
BAGERHAT	6	6	7	89	44		3
CHUADANGA	7	5	13	48	52		1
JESSORE	19	12	9	36	69		32
JHENAI DAH	8	7	11	14	16		5
KUSHTIA	8	9	17	18	38		12
MAGURA	9	9	12	43	40		7
MEHERPUR	3	3	4	33	28		2
NARAIL	10	9	14	11	21		10
SATKHIRA	7	4	5	27	29		14
Total-KHU	86	72	98	340	440	0	92
Barisal Division							
BCC	0	0	0	6	0		0
BARISAL (NON BCC)	2	0	0	170	127	1 (100%)	1
BARGUNA	0	1	1	88	44		1
BHOLA	1	1	2	67	41		1
JHALAKHATI	3	1	2	40	5		1
PATUAKHALI	1	4	3	137	103	2 (100%)	2
PIROJPUR	2	1	2	11	10		0
Total_BAR	9	8	10	519	330	3 (100%)	6
National	383	337	381	3978	3509	16 (100%)	291

Data as of Epidemiologic Week 51, Dec 18, 2003; *16 Measles Outbreak were Identified

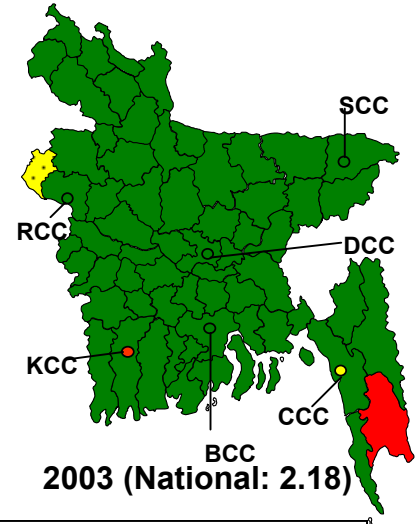
Non-Polio AFP Rate, by District, Bangladesh 2001-2003*



64 of 64 Districts (100%)
+ 4 CC reached target.

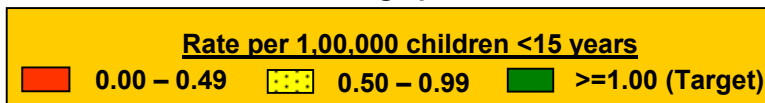


64 of 64 Districts (100%)
+ 4 CC reached target.

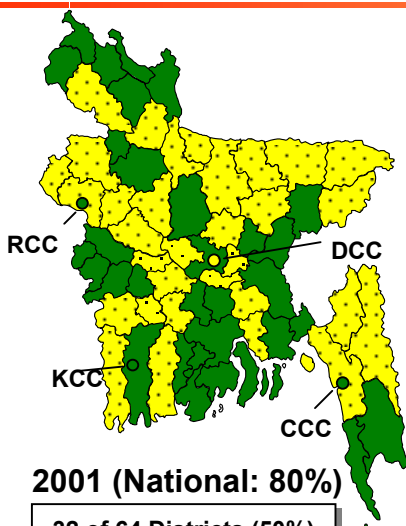


62 of 64 Districts (97%)
+ 4 of 6 CCs reached target.

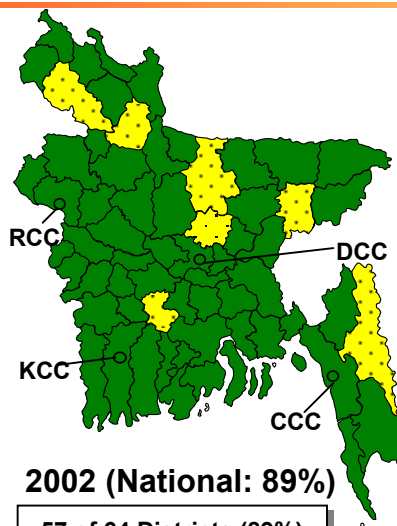
*Non-polio AFP rate annualized for cases occurring up to October 23, 2003



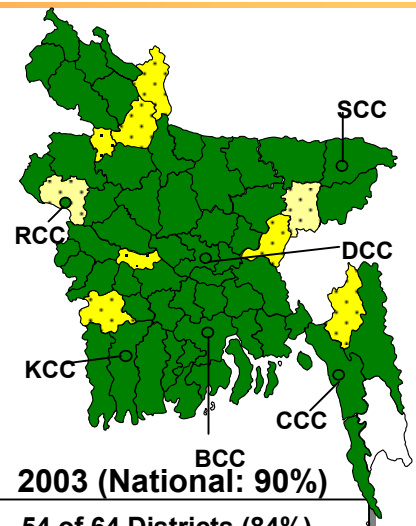
Percent of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2001-2003*



32 of 64 Districts (50%)
+ 3 CC reached target.



57 of 64 Districts (89%)
+ 4 CC reached target.



54 of 64 Districts (84%)
+ 6 CCs reached target.

*Data as of Epidemiologic Week 52, December 25, 2003

