



EPI Surveillance Bulletin

Epidemiologic Week 13: March 21 - 27, 2004



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New Challenges after Successful 12th NIDs: Sustain Surveillance, Improve Routine

Bangladesh has successfully completed the 2nd round of 12th NIDs. Analyses of data from the independent observers checklists show that high coverage in this round has also been achieved; 96.8% of the targeted 22 million children 0-59 months old were provided OPV. Of these children 84.4% were

general public, the parents of the children for their active role and support to make the 12th NIDs such an exemplary success.

Bangladesh is maintaining "0" status for polio for more than 3 years and the real challenge of the near future will be sustaining the high quality surveillance. We must ensure that all the AFP cases are detected and investigated timely, so that Bangladesh can be able to demonstrate its' ability to detect any case of polio that might occur. It is also essential to strengthen routine EPI services still further to minimize the number of susceptible children. A lower number susceptibles will minimize the chance of outbreak should wild virus be imported. EPI is currently adopting different approaches to strengthen its routine service, including uniform session planning, EPI review and micro-planning, introduction of RED strategies, training on injection safety for all vaccinators and introduction of AD syringes for all antigens.

EPI is currently planning for measles control plan of action, which will act as a guideline for future activities. Among other activities EPI is considering enlistment of all children 9-23 months old who missed the measles vaccine to periodically organize sessions to vaccinate them. It is also considering providing proper case management to measles cases during outbreak investigations.

Shishu Shishu Proti Shishu Khuje Fero Proti Shishu!

Surveillance Summary for 1998-2003 (through Epidemiologic Week 13, March 21 - 27, 2004)

	1998	1999	2000	2001	2002	2003 ¹
Number of AFP cases	475	761	1138	1287	1365	1129
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	1128
No. of cases pending classification	0	0	0	0	0	1
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	2.34	2.49	2.03 ¹
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 1/2 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%	100% ²
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100%	100% ³
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	28%	23%

¹ Data as of Mar 27, 2004; ²among cases with inadequate stools occurring up to Dec 27, 2003; ³as of Feb 27, 2004

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AFP Surveillance Performance Indicators -- 2003

Epiweek 13, 2004

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 (/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 ²	% with 60-day follow-up ²	
Dhaka Division														
DCC only	37	38			38	0	1.03	79%	97%	90%	100%	4	100%	
Dhaka (non DCC)	14	26			26	0	1.86	92%	100%	89%	100%	3	100%	
Faridpur	8	32			32	0	4.00	94%	100%	94%	100%	2	100%	
Gazipur	9	16			16	0	1.78	69%	100%	75%	100%	4	100%	
Gopalganj	5	21			21	0	4.20	95%	100%	95%	100%	1	100%	
Jamalpur	9	18			18	0	2.00	72%	94%	83%	100%	4	100%	
Kishoreganj	11	38			38	0	3.45	95%	97%	95%	100%	2	100%	
Madaripur	5	18			18	0	3.60	83%	100%	89%	100%	2	100%	
Manikganj	6	15			15	0	2.50	73%	100%	80%	100%	3	100%	
Munshiganj	6	26			26	0	4.33	100%	96%	96%	96%	1	100%	
Mymensingh	19	22			22	0	1.16	68%	96%	82%	100%	4	100%	
Narayanganj	9	14			14	0	1.56	86%	100%	86%	100%	2	100%	
Narsinghdi	8	15			15	0	1.88	87%	100%	93%	100%	1	100%	
Netrokona	8	15			15	0	1.88	67%	87%	87%	100%	2	100%	
Rajbari	4	10			10	0	2.50	70%	100%	80%	100%	2	100%	
Shariatpur	5	26			26	0	5.20	89%	100%	89%	96%	3	100%	
Sherpur	5	11			11	0	2.20	91%	100%	100%	100%	0	NA	
Tangail	14	32			32	0	2.29	88%	100%	91%	100%	3	100%	
Total-DHAKA	182	393	0	0	393	0	2.16	85%	98%	89%	100%	43	100%	
CTG Division														
CCC only	12	8			8	0	0.67	100%	100%	100%	100%	0	NA	
Chittagong (non CCC)	20	32			32	0	1.60	91%	97%	84%	100%	5	100%	
Bandarban	1	0			0	0	0.00	NA	NA	NA	NA	NA	NA	
Brahmanbaria	10	11			11	0	1.10	91%	82%	64%	100%	4	100%	
Chandpur	10	24			24	0	2.40	92%	96%	96%	96%	1	100%	
Comilla	20	47			47	0	2.35	94%	98%	98%	98%	1	100%	
Cox's Bazar	8	19			19	0	2.38	84%	100%	90%	100%	2	100%	
Feni	5	10			10	0	2.00	100%	100%	100%	100%	0	NA	
Khagrachari	2	7			7	0	3.50	57%	71%	57%	86%	3	100%	
Laxmipur	6	16			16	0	2.67	94%	100%	88%	100%	2	100%	
Noakhali	11	21			21	0	1.91	86%	95%	91%	100%	1	100%	
Rangamati	2	6			6	0	3.00	83%	83%	100%	100%	0	NA	
Total-CTG	107	201	0	0	201	0	1.88	90%	96%	90%	99%	19	100%	
Sylhet Division														
SCC	1	2			2	0	2.00	100%	100%	100%	100%	0	NA	
Sylhet (non SCC)	10	15			15	0	1.50	100%	100%	93%	100%	1	100%	
Habiganj	8	8			8	0	1.00	75%	88%	75%	100%	2	100%	
Maulvibazar	7	10			10	0	1.43	90%	90%	90%	100%	1	100%	
Sunamganj	9	14			14	0	1.56	93%	100%	86%	100%	2	100%	
Total-SYL	35	49	0	0	49	0	1.40	92%	96%	88%	100%	6	100%	
Raj Division														
RCC only	2	3			3	0	1.50	67%	100%	100%	100%	0	NA	
Rajshahi (non RCC)	8	12			12	0	1.50	92%	100%	67%	90%	4	100%	
Bogra	13	21			21	0	1.62	100%	100%	100%	100%	0	NA	
Dinajpur	11	20			20	0	1.82	85%	100%	95%	100%	1	100%	
Gaibandha	9	20			20	0	2.22	90%	95%	80%	94%	4	100%	
Joypurhat	4	12			12	0	3.00	83%	100%	75%	100%	3	100%	
Kurigram	8	17			17	0	2.13	88%	100%	77%	100%	4	100%	
Lalmonirhat	5	7			7	0	1.40	86%	100%	86%	100%	1	100%	
Natore	7	10			10	0	1.43	100%	100%	100%	100%	0	NA	
Nilphamari	7	14			14	0	2.00	79%	100%	86%	100%	2	100%	
Noagoan	10	24			24	0	2.40	96%	100%	92%	100%	2	100%	
Nowabganj	6	5			5	0	0.83	100%	100%	80%	100%	1	100%	
Pabna	9	18			18	0	2.00	89%	100%	83%	94%	3	100%	
Panchagarh	4	13			13	0	3.25	85%	100%	85%	100%	2	100%	
Rangpur	11	12			12	0	1.09	83%	100%	83%	100%	2	100%	
Sirajganj	12	17			17	0	1.42	94%	100%	94%	100%	1	100%	
Thakurgaon	5	17			17	0	3.40	88%	100%	82%	100%	3	100%	
Total-RAJ	131	242	0	0	242	0	1.85	90%	100%	86%	99%	33	100%	
Khulna Division														
KCC only	5	3			3	0	0.60	100%	100%	100%	100%	0	NA	
Khulna (non KCC)	7	10			10	0	1.43	80%	100%	80%	100%	2	100%	
Bagerhat	7	9			9	0	1.29	89%	100%	89%	100%	1	100%	
Chuadanga	4	9			9	0	2.25	89%	100%	100%	100%	0	NA	
Jessore	11	13			13	0	1.18	85%	92%	77%	100%	3	100%	
Jhenaidah	7	10			10	0	1.43	100%	100%	100%	100%	0	NA	
Kushtia	7	15			15	0	2.14	87%	100%	100%	100%	0	NA	
Magura	4	8			8	0	2.00	100%	100%	100%	100%	0	NA	
Meherpur	3	3			3	0	1.00	100%	100%	100%	100%	0	NA	
Narail	3	4			4	0	1.33	100%	100%	100%	100%	0	NA	
Satkhira	8	10			10	0	1.25	70%	100%	90%	100%	1	100%	
Total-KHU	66	94	0	0	94	0	1.42	88%	99%	93%	100%	7	100%	
Barisal Division														
BCC	1	3			3	0	3.00	100%	100%	100%	100%	0	NA	
Barisal (non BCC)	9	26			26	0	2.89	85%	92%	89%	100%	3	100%	
Barguna	4	24			24	0	6.00	100%	100%	100%	100%	0	NA	
Bhola	7	24			23	1	3.29	83%	100%	88%	100%	3	100%	
Jhalakhati	3	19			19	0	6.33	95%	95%	100%	100%	0	NA	
Patuakhali	6	22			22	0	3.67	86%	100%	86%	96%	3	100%	
Pirojpur	5	32			32	0	6.40	97%	97%	97%	100%	1	100%	
Total BAR	35	150	0	0	149	1	4.26	91%	97%	93%	99%	10	100%	
National	556	1129	0	0	1128	1	2.03	88%	98%	90%	99%	118	100%	

¹Data as of Epidemiologic Week 13, March 27, 2004; ² among cases with inadequate stools occurring up to Dec 27, 2003

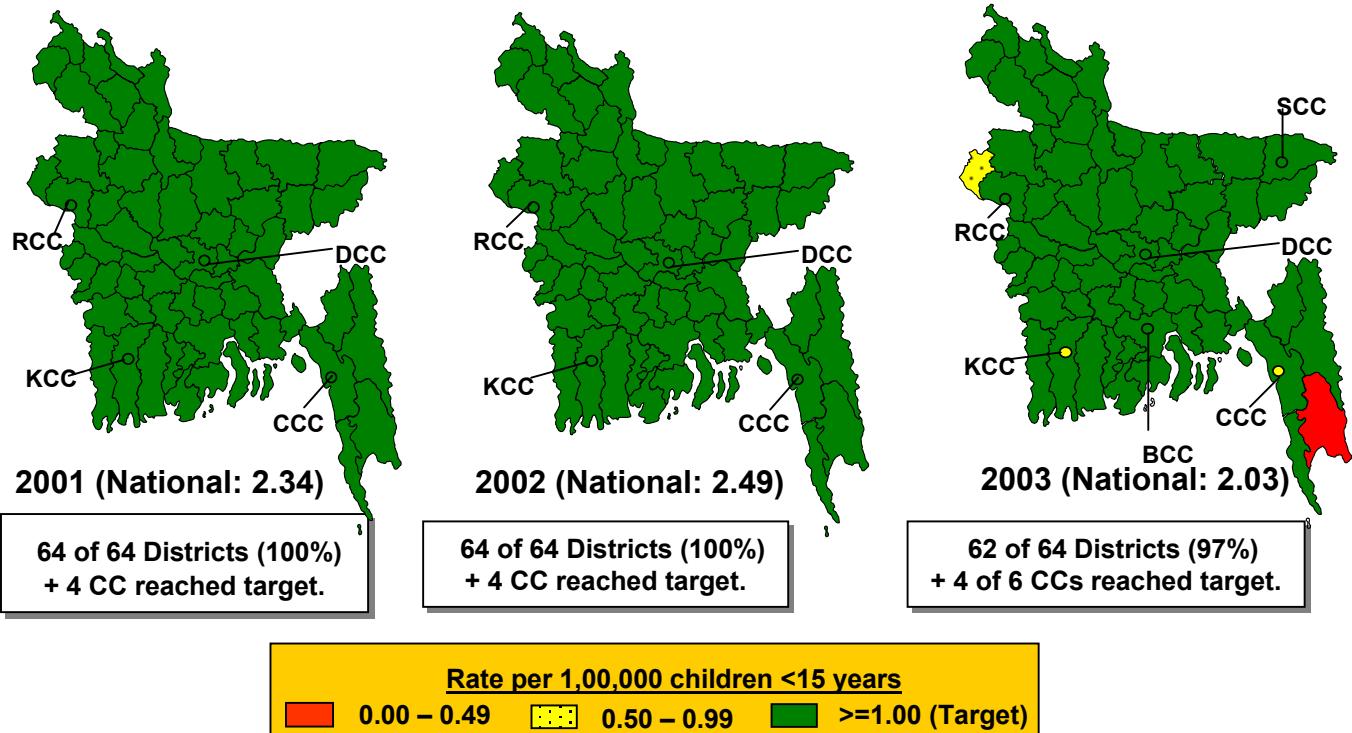
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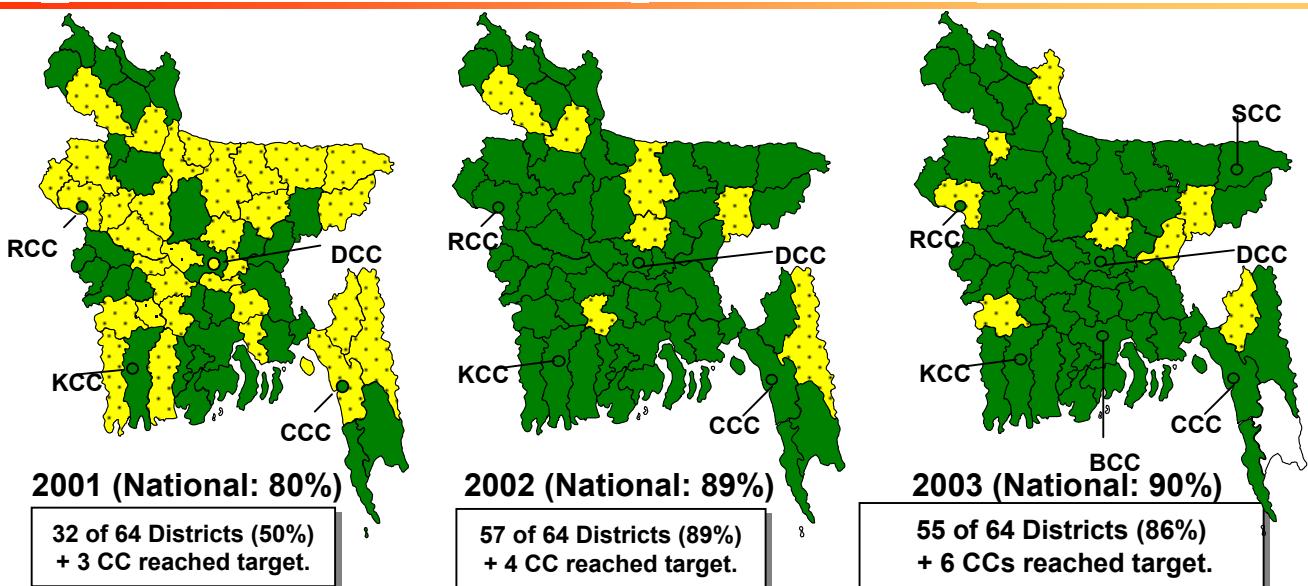
District	Neonatal Tetanus						Measles						AEFI	
	Case Reported by Active Surveillance		Case Reported by Passive Surveillance		Case Investigated		Reported by Hospital-based Active and Passive Surveillance		Outbreak		Case Investigated		Case Reported	
	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004		
Dhaka Division														
DCC only	12	4	9		7	1	822	19						0
Dhaka (non DCC)	3	3	4		4		96	3						0
Faridpur	9		11		6		61	7	1 (100%)		15			1
Gazipur	2	1	1		2		44							10
Gopalganj	11	2	11		12		39	1						12 2
Jamalpur	4		1		4	1	102	7						13 4
Kishoreganj	18	2	20	2	23		163	21						22 3
Madaripur	2		2		3		4							4
Manikganj	3	1	4		1		17	2		1 (100%)		262	0	
Munshiganj	3		3	1	2		19							0 1
Mymensingh	21	4	11		26	3	98	11	1 (100%)		21			3
Narayanganj	2	2	2		0		20							0
Narsinghdi	6		3		4		45							5
Netrokona	6		8		5		63	2						8
Rajbari	2		2		0		4	1						0
Shariatpur	1		0		1		10	1						8 1
Sherpur	14	1	9		15	1	14	1						5
Tangail	2	1	1		2	1	96	4						12
Total-DHAKA	121	21	102	3	117	7	1717	80	2 (100%)	1 (100%)	36	262	103	11
CTG Division														
CCC only	0	2	0		0		22	14		1 (100%)	9	15	0	
Chittagong (non CCC)	4	2	1	1	5		32	9						2 1
Bandarban	0		0		0		10	4	1 (100%)	1 (100%)	33	11	0	
Brahmanbaria	22	6	32	4	18	5	30	3		1 (100%)				11 19
Chandpur	1		1		1		27	2						23 4
Comilla	6		4	1	2		151	2						0
Cox's Bazar	5	1	3		3	1	74	18						9
Feni	4	1	4	1	2	1	25	2						8 2
Khagrachari	2		2		1		7	1						0
Laxmipur	9		12		9		99	1						10 1
Noakhali	5		7		5		61	2						1 1
Rangamati	1		0		0		11							0
Total-CTG	59	12	66	7	46	7	549	58	1 (100%)	3 (100%)	42	37	72	9
Sylhet Division														
SCC	0		0		0		2	36						0
Sylhet (non SCC)	5		2		4		118	61						0
Habiganj	19	1	23	2	8		24	5	1 (100%)		17			26
Maulvibazar	12	3	13	2	2		47	3						0
Sunamganj	27		23	1	33		113	3						28
Total-SYL	63	4	61	5	47	0	304	108	1 (100%)	0%	17	0	54	0
Raj Division														
RCC only	2		3		0		7	1						2
Rajshahi (non RCC)	4		4		2		10	2		1 (100%)	25	37	1	
Bogra	3		1		3		5							2
Dinajpur	3		5	2	5	1	32	8						17 2
Gaibandha	2	1	7	3	14	4	58	1	6 (100%)		136			3
Joypurhat	0		0		0		24	38		2 (100%)		27		7
Kurigram	0		1		0		38	4	1 (100%)		104			0
Lalmonirhat	0		0		0	1	29	2						0
Natore	10	1	13	2	9		8	1						4
Nilphamari	1		2		2		25	14		1 (100%)		13		1
Noagoan	1	1	3	1	4	1	28	1						2 1
Nowabganj	6		8		10		26	2	2 (100%)		221			1 1
Pabna	5	2	5	3	4		83	23						17 5
Panchagarh	0		0		0		21	6						2
Rangpur	7	3	6		8	2	41	5						0
Sirajganj	4		4		4		10	8						0
Thakurgaon	2		1		1		28	3						1
Total-RAJ	50	8	63	11	66	9	473	119	9 (100%)	4 (100%)	486	77	60	9
Khuna Division														
KCC only	1		0		1		6	2						4 1
Khulna (non KCC)	8		8		5		15	2						3 1
Bagerhat	6		6		7		89	1						4
Chuadanga	7		5		13		48	2						5
Jessore	19	1	13	1	9	1	42	9						35 4
Jhenaidah	8		7		11		14	3						6
Kushtia	8	1	9	1	17	1	18	3						20
Magura	9		9		12		46	15						7 1
Meherpur	4		3		4	1	33	2						2
Narail	11		9	1	14	1	13	8						12 3
Satkhira	7	1	4		5	1	27							14 3
Total-KHU	88	3	73	3	98	5	351	47	0	0	0	0	112	13
Barisal Division														
BCC	0		0		0		6							0
Barisal (non BCC)	2		0		0		139	5	1 (100%)		34			1
Barguna	1		1		1		93	7		1 (100%)		11		3
Bhola	0	1	1		2		67	1						1
Jhalakhati	3		2		3		40	2						2
Patuakhali	1		4		3		55	18	2 (100%)		83			3
Pirojpur	2		1		1	1	11							5
Total_BAR	9	1	9	0	10	1	411	33	3 (100%)	1 (100%)	117	11	15	0
National	390	49	374	29	384	29	3805	445	16 (100%)	9 (100%)	698	387	416	42

Data as of Epidemiologic Week 13, March 27, 2004

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



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



*Data as of Epidemiologic Week 13, March 27, 2004

Categories

