



EPI Surveillance Bulletin

Epidemiologic Week 22: May 23 - 29, 2004

Vol. 7 No. 5



May 2004

Emergency Preparedness Plan for Polio Importation finalized

A new case of polio (P1) has been recently identified in the block Mahesthali of South 24 Parganas district of Indian State of West Bengal. This was a child 18 months of age with "0" OPV. It is the first case detected in the state in 9 months and is believed to be a case of importation from Bihar as it is

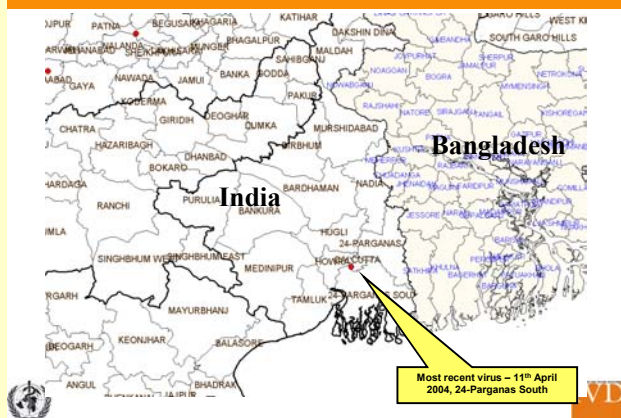
border in either direction through the border check-posts should be reinforced.

Bangladesh has finalized Plan for Emergency Response to Wild Polio Virus Importation and/or cVDPV Detection, which states that importation of polio virus should be treated as public health emergency of highest priority and the measures to be taken to limit further transmission should include enhanced surveillance with active search for cases, ensuring that all cases of AFP are reported and investigated in timely manner; strengthening of routine EPI; a two-round Mop-up campaign in each round of which, an additional dose OPV will be provided to all children 0-59 months old irrespective of their vaccination status. The first round of mop-up has to be done within 3-6 weeks of detection of importation or circulating vaccine derived poliovirus detection and the second round will commence at least 4 weeks after the 1st.

Circulating Vaccine Derived Poliovirus (cVDPV) is a relatively rare condition but should be guarded against as it may occur during the end stage of polio eradication, especially in the areas of low routine coverage. Strengthening routine EPI is a major factor not only as an immunity barrier to importation or development of cVDPV, but also is very important in preventing renewed transmission of the virus.

In the meantime, EPI has also finalized a new measles outbreak investigation guideline and an Action Plan for Measles Control Activities. The Government of Bangladesh has recently approved the National Policy on Injection Safety and EPI is soon going to switch over to Auto-Destruct (AD) syringes for all antigens in routine immunization. EPI is hopeful that it will help in reducing the AEFI related to the use of sterilizable syringes that are not properly sterilized.

Location of P1 Wild in WB, Bordering Area Map, 2004



genetically linked to a case detected there earlier this year. This latest case in West Bengal once again proves that risk of importation of wild poliovirus to Bangladesh is real and if Bangladesh needs to protect its status as a polio-free country it must continue to keep up its surveillance of the highest quality along with strengthening routine immunization activities. EPI has issued a directive to the district and upazila managers on this regard, in which it was also mentioned that program of providing additional dose of OPV to all children crossing the

Shishu Shishu Proti Shishu Khuje Fero Proti Shishu!

Surveillance Summary for 1998-2004 (through Epidemiologic Week 22, May 23-29, 2004)

	1998	1999	2000	2001	2002	2003	2004 ¹
Number of AFP cases	475	761	1138	1287	1365	1128	429
No. of clinically confirmed polio cases	298	322	197	NA	NA	NA	NA
No. of compatible cases according to virologic classification system	NA	NA	NA	36	0	0	0
No. of cases with isolation of wild poliovirus	10	29	1	0	0	0	0
No. of discarded polio cases (i.e., non-polio AFP)	165	439	941	1251	1365	1128	328
No. of cases pending classification	0	0	0	0	0	0	101
Expected annual number of non-polio AFP cases (1/100,000 children <15 yr)	495	505	515	533	549	556	563

AFP Surveillance Performance Indicators:

Indicator	Target	1998	1999	2000	2001	2002	2003	2004
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	1.43 ²
2. Completeness of passive reporting from facilities	≥ 90%	34%	66%	83%	65%	62%	67%	67%
3. Timeliness of passive reporting from facilities	≥ 80%	15%	30%	58%	38%	36%	62%	59%
4. Suspected AFP cases investigated within 48 hours of notification	≥ 80%	89%	83%	93%	96%	96%	98%	98%
5. Confirmed AFP cases with 2 stool specimens collected ≤ 14 days after paralysis onset	≥ 80%	59%	49%	68%	80%	89%	90%	91%
6. Stool specimens arriving at laboratory ≤ 3 days after collection	≥ 80%	88%	81%	92%	97%	98%	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%	92%	97%	100%	100%	99%	100%	100%
8. Confirmed AFP cases receiving a follow-up exam at least 60 days after paralysis onset	≥ 80%	80%	97%	95%	93%	99%	100%	75% ³
9. Stool specimens with laboratory results ≤ 28 days after specimen receipt	≥ 80%	16%	58%	94%	99%	100%	100%	98% ⁴
10. Stool specimens from which non-polio enterovirus (NPEV) was isolated	≥ 10%	5%	13%	21%	29%	28%	23%	23%

¹ Data as of May 29, 2004; ² NPAFP rate annualized for cases according to Mar 27, 2004; ³ among cases occurring up to Feb 29, 2004; ⁴ as of May 1, 2004

Please provide your feedback and comments to Dr. Sunil Kumar Das, DPM-EPI or Dr. Md. Lutfor Rahman, Program Manager,

Child Health & Limited Curative Care, EPI Bhawan, Mohakhali, Dhaka 1212 Telephone: 9880530 or 9898797

Chief Advisor to the Editorial Board: Dr. Mohd. Mahbubur Rahman, Director PHC & Line Director ESP, DGHS, Mohakhali Dhaka.

AFP Surveillance Performance Indicators -- 2004

Epiweek 22, 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 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	% with 60-day follow-up ³
Dhaka Division												
DCC only	36	16			13	3	0.78	94%	100%	94%	100%	57%
Dhaka (non DCC)	14	14			12	2	1.43	86%	100%	86%	100%	67%
Faridpur	8	10			6	4	2.00	90%	100%	100%	100%	100%
Gazipur	9	6			5	1	1.78	100%	100%	100%	100%	67%
Gopalganj	5	7			4	3	2.40	100%	100%	100%	100%	100%
Jamalpur	9	4			3	1	1.33	100%	100%	100%	100%	100%
Kishoreganj	11	9			9	0	2.91	100%	100%	100%	100%	100%
Madaripur	5	8			7	1	2.40	100%	100%	100%	100%	100%
Manikganj	6	7			7	0	1.33	86%	100%	86%	100%	100%
Munshiganj	6	4			3	1	1.33	75%	100%	75%	100%	100%
Mymensingh	20	16			12	4	1.80	75%	94%	81%	94%	20%
Narayanganj	9	6			6	0	2.67	100%	100%	100%	100%	25%
Narsingdhi	8	6			5	1	1.50	83%	100%	83%	100%	100%
Netrokona	9	5			2	3	0.00	100%	100%	100%	80%	NA
Rajbari	4	7			4	3	3.00	100%	100%	86%	100%	50%
Shariatpur	5	9			7	2	3.20	100%	100%	89%	100%	100%
Sherpur	6	2			1	1	0.00	100%	100%	100%	100%	NA
Tangail	14	12			11	1	1.43	100%	100%	100%	100%	60%
Total-DHAKA	184	148	0	0	117	31	1.54	93%	99%	93%	99%	72%
CTG Division												
CCC only	12	3			3	0	0.67	100%	100%	100%	100%	0%
Chittagong (non CCC)	20	15			12	3	1.40	93%	100%	93%	100%	50%
Bandarban	1	2			2	0	4.00	100%	100%	100%	100%	0%
Brahmanbaria	11	8			7	1	1.09	100%	100%	100%	88%	100%
Chandpur	10	5			4	1	0.40	100%	100%	100%	100%	0%
Comilla	20	17			11	6	0.80	94%	100%	88%	100%	0%
Cox's Bazar	8	4			3	1	1.00	75%	100%	100%	100%	NA
Feni	5	4			3	1	0.80	100%	100%	100%	100%	NA
Khagrachari	2	3			3	0	2.00	100%	100%	100%	67%	0%
Laxmipur	7	11			8	3	4.00	82%	82%	91%	100%	57%
Noakhali	11	11			7	4	2.18	82%	100%	64%	100%	80%
Rangamati	2	7			4	3	6.00	86%	86%	100%	100%	100%
Total-CTG	109	90	0	0	67	23	1.39	91%	97%	91%	98%	50%
Sylhet Division												
SCC	1	1			0	1	0.00	100%	100%	100%	100%	NA
Sylhet (non SCC)	10	8			6	2	2.00	75%	100%	88%	100%	67%
Habiganj	8	7			4	3	1.00	86%	100%	86%	100%	0%
Maulvibazar	7	6			5	1	1.14	83%	83%	67%	100%	100%
Sunamganj	9	12			10	2	3.11	92%	100%	92%	100%	71%
Total-SYL	35	34	0	0	25	9	1.83	85%	97%	85%	100%	64%
Raj Division												
RCC only	2	0			0	0	0.00	NA	NA	NA	NA	NA
Rajshahi (non RCC)	8	3			2	1	0.50	100%	100%	100%	100%	100%
Bogra	13	8			7	1	1.54	75%	100%	100%	100%	100%
Dinajpur	12	4			4	0	1.00	50%	100%	75%	100%	100%
Gaibandha	9	9			8	1	3.56	78%	100%	100%	100%	100%
Joypurhat	4	6			5	1	3.00	100%	100%	100%	100%	100%
Kurigram	8	4			1	3	0.00	25%	100%	50%	100%	100%
Lalmonirhat	5	5			5	0	3.20	100%	100%	100%	100%	100%
Natore	7	3			2	1	0.00	100%	100%	67%	100%	100%
Nilphamari	7	4			4	0	1.71	75%	100%	100%	100%	100%
Noagoan	11	1			1	0	0.36	100%	100%	100%	100%	100%
Nowabganj	6	1			0	1	0.00	0%	100%	0%	100%	NA
Pabna	10	7			6	1	1.60	100%	100%	100%	100%	0%
Panchagarh	4	4			2	2	2.00	100%	100%	100%	100%	100%
Rangpur	11	5			4	1	0.73	100%	100%	100%	100%	100%
Sirajganj	12	4			4	0	1.00	67%	67%	75%	100%	33%
Thakurgaon	5	6			5	1	1.60	100%	100%	100%	100%	NA
Total-RAJ	134	74	0	0	60	14	1.22	83%	99%	92%	100%	88%
Khulna Division												
KCC only	4	4			2	2	2.00	100%	100%	100%	100%	100%
Khulna (non KCC)	7	7			6	1	1.71	100%	86%	100%	100%	67%
Bagerhat	7	6			5	1	2.29	83%	100%	100%	100%	100%
Chuadanga	4	4			3	1	2.00	100%	100%	100%	100%	100%
Jessore	11	4			2	2	0.36	100%	100%	75%	100%	NA
Jhenaidah	7	3			1	2	0.57	100%	100%	67%	100%	NA
Kushtia	7	8			7	1	2.29	88%	100%	88%	100%	100%
Magura	4	1			1	0	1.00	100%	100%	100%	100%	100%
Meherpur	3	1			1	0	1.33	100%	100%	100%	100%	100%
Narail	3	2			0	2	0.00	50%	100%	0%	100%	0%
Satkhira	8	6			4	2	1.00	100%	100%	100%	100%	100%
Total-KHU	65	46	0	0	32	14	1.29	94%	98%	89%	100%	88%
Barisal Division												
BCC	1	4			4	0	8.00	100%	100%	100%	100%	50%
Barisal (non BCC)	10	9			6	3	1.60	100%	100%	100%	100%	100%
Barguna	4	3			3	0	1.00	100%	100%	100%	100%	100%
Bhola	7	8			4	4	1.14	75%	88%	75%	100%	100%
Jhalakhati	3	8			7	1	4.00	100%	88%	100%	100%	100%
Patuakhali	6	4			2	2	0.67	75%	100%	75%	100%	100%
Pirojpur	5	1			1	0	0.80	100%	100%	100%	100%	NA
Total-BAR	36	37	0	0	27	10	1.56	92%	95%	92%	100%	91%
National	563	429	0	0	328	101	1.43	90%	98%	91%	99%	75%

¹Data as of Epidemiologic Week 22, May 29, 2004; ² Non-Polio AFP rate is annualized for cases occurring up to Mar 27, 2004; ³ for cases occurring up to Feb 29, 2004

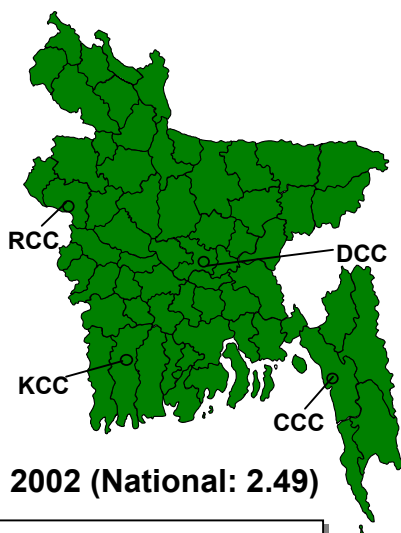
Disease Surveillance - 2004

Epiweek 22 2004

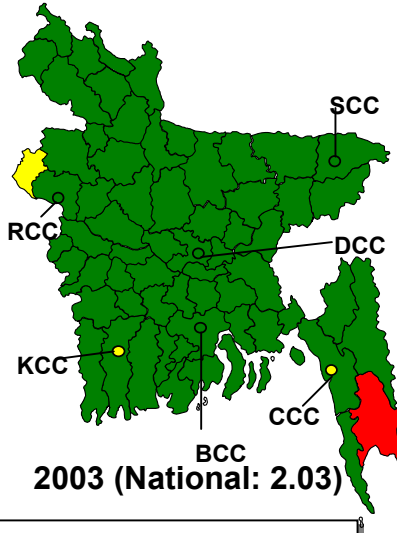
District	Neonatal Tetanus			Measles				AEFI
	# of case reported by Active Surveillance	# of case reported by Passive Surveillance	# of case Investigated	# of case reported by Active Surveillance	# of case reported by Passive Surveillance	Outbreak		# of case Reported
						Number of Outbreak (% Investigated)	# of cases	
Dhaka Division								
DCC only	8	4	7	69	53	2 (100%)	185	11
Dhaka (non DCC)	3	4		7	16			10
Faridpur	1			7	34	1 (100%)	27	1
Gazipur	1			4	10			1
Gopalganj	2	2	3	4	5			3
Jamalpur		1	1	7	7	1 (100%)	71	6
Kishoreganj	4	7	6	23	91	1 (100%)	17	15
Madaripur	1	1	1		2			1
Manikganj	1	1		6		2 (100%)	404	
Munshiganj		1			2			8
Mymensingh	6	5	5	19	42	3 (100%)	102	2
Narayanganj	2	2	2	3	2			3
Narsingdhi				1	1			2
Netrokona		1			40	1 (100%)	136	8
Rajbari					15			1
Shariatpur				2	9			10
Sherpur	2	1	2	1	2			1
Tangail	6	6	4	11	24			5
Total-DHAKA	37	36	31	164	355	11 (100%)	942	88
CTG Division								
CCC only	2	2		26	18	1 (100%)	15	1
Chittagong (non CCC)	2	2		6	26	1 (100%)	10	3
Bandarban				9		1 (100%)	11	1
Brahmanbaria	7	8	6	3	17	1 (100%)	11	3
Chandpur		1	1	7	48	5 (100%)	88	13
Comilla	1	2	2	1	17			3
Cox's Bazar	2	3	1	23	17			
Feni	1	1	1		20			4
Khagrachari				2	3			
Laxmipur	3	2	2	2	5			4
Noakhali				2	20			2
Rangamati				1	5			
Total-CTG	18	21	13	82	196	9 (100%)	135	34
Sylhet Division								
SCC	1		1	39	34			
Sylhet (non SCC)	3	4	3	47	163	2 (100%)	74	18
Habiganj	5	5	2	14	29			15
Maulvibazar	5	6	1	6	30			1
Sunamganj	2	4		8	11			4
Total-SYL	16	19	7	114	267	2 (100%)	74	38
Raj Division								
RCC only				1	1			
Rajshahi (non RCC)	1	2		6	11	1 (100%)	34	
Bogra				3	4			
Dinajpur		2	1	4	14	1 (100%)	49	9
Gaibandha	1	6	5	3	14	1 (100%)	33	16
Joypurhat				8	54	2 (100%)	27	
Kurigram				3	1			6
Lalmonirhat			1		3			
Natore	1	2		2	3			1
Nilphamari				2	19	1 (100%)	13	2
Noagoan	2	2	2	2	18	1 (100%)	13	1
Nowabganj				4	10			2
Pabna	2	4		9	35			11
Panchagarh				2	18			
Rangpur	4	3	2	11	6	1 (100%)	30	6
Sirajganj	1			7	13			6
Thakurgaon				3	6			
Total-RAJ	12	21	11	70	230	8 (100%)	199	60
Khulna Division								
KCC only				2	5			2
Khulna (non KCC)				3	8			12
Bagerhat				1	3			
Chuadanga				1	1			3
Jessore	2	2	2	3	34			10
Jhenaidah	1			2	13			5
Kushtia	1	2	2	2	4			1
Magura		2		7	42	1 (100%)	36	9
Meherpur			1	3	2			
Narail	1	2	1	6	6			10
Satkhira	2		1		2			8
Total-KHU	7	8	7	30	120	1 (100%)	36	60
Barisal Division								
BCC								
Barisal (non BCC)		1		6	16			1
Barguna				8	48	2 (100%)	48	1
Bhola	1	1			2			7
Jhalakhati	1		1	1	3			
Patuakhali	1	2	1	3	51			
Pirojpur	1	1			1			3
Total_BAR	4	5	2	18	121	2 (100%)	48	12
National	94	110	71	478	1289	33 (100%)	1434	292
Data as of Epidemiologic Week 22, May 29, 2004								

Data as of Epidemiologic Week 22, May 29, 2004

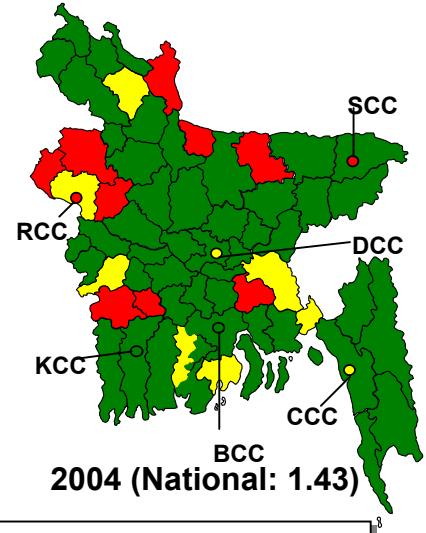
Annualized Non-Polio AFP Rate, by District, Bangladesh 2002-2004*



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

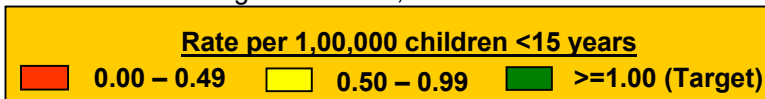


**62 of 64 Districts (97%)
+ 4 of 6 CCs reached target.**

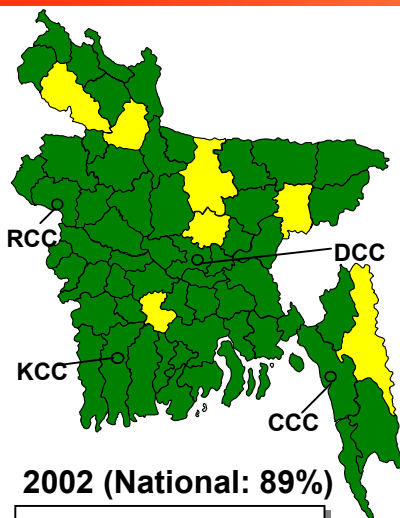


**48 of 64 Districts (75%)
+ 2 of 6 CCs reached target.**

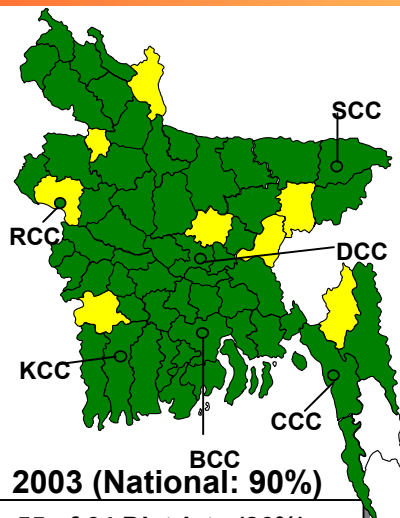
*NPAFP rate annualized for cases according to March 27, 2004



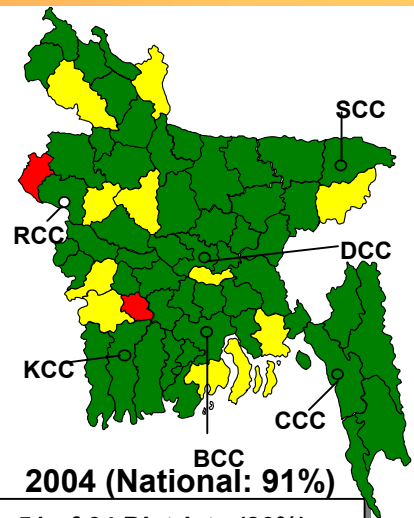
Percent of AFP Cases with Two Stool Samples Collected within 14 days of Paralysis Onset, by District, Bangladesh 2002-2004*



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



**55 of 64 Districts (86%)
+ 6 CCs reached target.**



**51 of 64 Districts (80%)
+ 5 CCs reached target.**

*Data as of Epidemiologic Week 22, May 29, 2004

