

National Polio Eradication BULLETIN

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CURRENT EPIDEMIOLOGY OF POLIO IN PAKISTAN

As of the 28th September, a total of thirty nine wild poliovirus (WPV) cases (36 type-1, 2 type-3 and 1 mixed type-1 & type-3) have been reported from twenty three districts/tribal agencies in 2012. Moreover WPV-1 has also been isolated from 59 out of 146 environmental samples (*of the available results*) collected from large urban populations in four major provinces indicating the continued widespread circulation of wild poliovirus in year 2012.

Eleven polio cases in 2012 had date of onset of paralysis in January, three in February, one each in March and April, six in May, two in June, five in July, eight in August and two in September.

The genetic data of the polio cases in 2012 so far indicates that **one genetic cluster of WPV-1 (A3D2B) is present in all the 4 major provinces and most dominant both in AFP and environmental samples. Maximum biodiversity of the WPV-1 is in FATA and KP.**

Key characteristics of polio cases in 2012 so far:

- Twenty five polio cases are younger than two years. Median age of confirmed polio cases is 13 months.
- Based on recall of parents: a) median number of OPV doses received by the polio cases is 3 in the areas with no access issues and zero (0) for areas with major access issues in FATA; b) fourteen did not receive *any OPV dose (through routine vaccination and / or campaigns)*; c) *three cases received 1-3 OPV doses*; d) four cases received 4-6 OPV doses; e) nine received seven or more OPV doses; and f) Twenty three did not receive any *routine OPV dose*. Three cases missed OPV doses due to refusal of the family.

The available epidemiological and genetic data reflect an association of the recent cases with the wild poliovirus transmission in FATA and that this virus is straddling in tribal areas bordering with Afghanistan.

- There are three places in Pakistan where the polio virus has sanctuaries most firmly established: Gaddap in Karachi (particularly Union Council 4); Khyber Agency in

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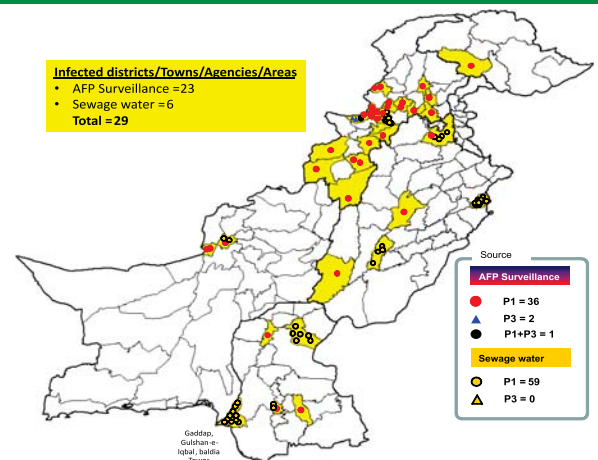
FATA; and Pishin, in Balochistan. The virus is surviving in these sanctuaries because a large number of children are repeatedly missed in several campaigns. Stopping transmission requires a sharp focus on reaching these missed children.

The recent floods in Sindh and Balochistan have increased the risk of WPV outbreaks in the affected areas and high quality vaccination campaigns is the only solution to minimize this risk.



Dr Hussain A Jezairy meeting Maulana Sami ul Haq

Map-1: Wild Poliovirus Isolates (as of 28-09-2012)



NEWS BRIEFS & UPCOMING EVENTS

- ◆ Special Advisor to the DG WHO Dr. Gezairy met PM's Polio focal person, Chief Minister Khyber Pakhtunkhwa, Governor Khyber Pakhtunkhwa & FATA, renowned religious leaders Maulana Sami ul Haq and Maulna Shirani & Imam of Faisal Mosque.
- ◆ Case response in Punjab (Rawalpindi) and KP planned from 27-29 Sep.
- ◆ Next NIDs planned to start on 15th October
- ◆ Additional passage with mOPV-1 planned in Sindh after the SNIDs.

September 2012 SNIDs

The Third Sub-National Immunization Days (SNIDs) have been conducted so far in 85 out of the 89 planned districts. While SNIDs in Jaffarabad and Nasirabad districts in Balochistan (target children: 0.28 million) are postponed due to heavy rains and floods and are yet to be conducted. Moreover, the campaign has not been conducted in North Waziristan and most areas of the South Waziristan (target children: 0.2 million) in FATA due to ban on vaccination by some local elements.



Senator Ms. Rubina Khalid (KP) inaugurating SNIDs September



Speaker Assembly Balochistan inaugurating SNIDs September 2012

Senator Ms. Robina Khalid kicked off the campaign in Peshawar district of Khyber Pakhtunkhwa. In Punjab the SNIDs were inaugurated in Lahore by the Special Assistant to Chief Minister on Health Mr. Khawaja Salman Rafiq. The Speaker Balochistan Assembly inaugurated the campaign in Lasbela.

Lot Quality Assurance Sampling (LQAS) and Market Survey has been conducted following the September SNIDs 2012. LQAS results indicate that among the total 57 lots assessed, 34 (60%) were not rejected for 95%, 12 (21%) were rejected for 95% each in districts Faisalabad in Punjab; Kohat, Lakki Marwat and Nowshera in KP; ICT in Islamabad; Chaghi, Kalat, Lasbela, Nushki and Pishin while two lots in Quetta. 6 (11%) were rejected for 90% in district Lakki Marwat in KP, Mohmand Agency in FATA; each in Killa Saifullah and Pishin while two lots in Killa Abdullah. 5 (9%) were rejected for 80% in Agency Bajour in FATA; two lots each in district Killa Abdullah and Pishin in Balochistan.

Market Survey Results of September SNIDs 2012*

Province	Children checked age <5 years n	Children vaccinated age <5 years n	Children vaccinated age <5 years %
PUNJAB	2,672	2,566	96%
SINDH	3,136	2,880	92%
KP	1,193	1,137	95%
FATA	291	269	92%
B'tan	1,033	837	81%
ISLAMABAD	310	285	92%
Grand Total	8,635	7,974	92%

Final results of Market Survey and LQAS are still awaited

LQAS Results of September SNIDs 2012*

Province	No. of Lots taken	Not rejected at 95%		Rejected only at 95%		Rejected only at 90%		Rejected only at 80%	
		n	%	n	%	n	%	n	%
PUNJAB	13	12	92%	1	8%	0	0%	0	0%
KP	16	12	75%	3	19%	1	6%	0	0%
FATA	5	3	60%	0	0%	1	20%	1	20%
B'tan	21	6	29%	7	33%	4	19%	4	19%
ISLAMABAD	2	1	50%	1	50%	0	0%	0	0%
Grand Total	57	34	60%	12	21%	6	11%	5	9%

Global Update (as of 29th September 2012)

152 polio cases were reported compared to 401 in 2011 in same time period including 147 from endemic countries and 5 from non-endemic countries. The case count by country is: Pakistan-39, Afghanistan-18, Nigeria-90 and Chad-5.

For details, please visit: www.polioeradication.org

Contact specimen completeness and timeliness year 2012

The proportion of AFP cases with adequate stool specimens is one of the key indicators representing the sensitivity and quality of a surveillance system. Contact sampling is recommended for every AFP case with inadequate stool specimens and notified within two months of the onset of paralysis. Three contact samples are collected from healthy children who are close contacts under 5 years of age (preferably siblings) of the index AFP case. Since 2007, thirty five (5.75%) confirmed polio cases, have been detected by virtue of isolation of wild poliovirus from contact specimens while the stool samples of the index AFP case were negative for poliovirus, which reinforces its usefulness for the program in detection of WPV circulation. Completeness and Timeliness of the contact specimens collection are the two critical indicators to assess the quality of the process.

Completeness: In 2012, the contact specimens completeness at the national level is 89% which is above the target of 80%. All the provinces also met the target except FATA (64%), Balochistan (47%), and AJK (50%). Moreover, 79% of the districts in Pakistan achieved the target of 80% for contact specimens completeness.

Timeliness: Timely collection (within 7 days of the notification of the index AFP case) of contact specimens is essential to enhance the chances of wild poliovirus isolation, if any. At the national level, 66% of the contact specimens were timely collected in 2012 (target=80%). The target timeliness could not be achieved at the provincial level except Punjab (83%). Overall, 48% of the districts in the country could meet the target of 80% timeliness.

Table-2 features the high risk districts which could not achieve the target for either or both contact specimens completeness and timeliness.

Provincial and district health leadership must take serious measures to ensure timely collection of 3 contact specimens for every AFP case eligible for contact specimens collection.

Table 2: High Risk districts with suboptimal completeness and timeliness

Province	District	Cases eligible for contact specimens	Completeness of contact samples	Timeliness of contact samples
Punjab	Muzafargarh	8	100%	75%
Sindh	Ghotki	4	100%	0%
Sindh	Jacobabad	6	83%	10%
Sindh	Kambar	10	60%	9%
Sindh	Kashmore	2	100%	50%
Sindh	Khairpur	7	86%	22%
Sindh	Karachi Gadap	2	100%	50%
Sindh	Karachi G Iqbal	2	100%	33%
Sindh	Larkana	2	100%	0%
Sindh	Shikarpur	3	100%	50%
KP	Charsada	2	100%	33%
KP	Peshawar	7	100%	71%
FATA	Kurram	1	100%	0%
FATA	Orakzai	1	0%	
Balochistan	Nasirabad	1	0%	
Balochistan	Pishin	4	100%	50%

Table (2): Province-wise AFP Surveillance Data for 2011 & 2012

Province/Region	AFP Surveillance Data 2011						AFP Surveillance Data 2012 ^{AS}									
	Minimum Expected AFP Cases (Annual)*	Total Reported AFP Cases	Wild Polio Cases	Non-Polio AFP Rate	Indicators Cases with Adequate Specimens (%) [†]	60 Day Follow Up (%) [†]	Minimum Expected AFP Cases (Annual)*	Total Reported AFP Cases	Wild Polio virus Cases	Non-Polio AFP Rate**	Indicators Cases with Adequate Specimens (%) [†]	60 Day Follow Up (%) [†]	Zero Reporting [‡]		Active Surveillance (%) [†]	
Punjab	813	2632	9	6.45	90	100	813	1570	3	5.7	92	100	No. Zero Reporting Sites	99	96	100
Sindh	347	1415	33	7.92	87	100	347	801	3	6.7	89	96	1507	***	***	***
K-Pakhtoonkhwa ^u	206	1031	30	9.70	86	84	206	501	15	7.0	86	(68)	1212	***	***	***
FATA ^μ	31	207	52	9.63	89	(72)	31	63	14	4.7	(79)	(52)	231	***	***	***
Balochistan	73	341	73	7.25	(78)	100	73	123	3	4.8	85	(76)	563	93	85	98
AJK	32	45	0	2.80	91	91	32	22	0	2.0	91	89	124	100	100	100
Gilgit-Baltistan	14	26	1	3.64	92	100	14	13	1	2.8	92	(13)	42	100	100	100
Islamabad	12	15	0	2.45	93	100	12	14	0	3.4	93	91	42	100	96	100
Pakistan	1528	5712	198	7.19	88	96	1528	3107	39	5.9	90	91	5731	98[¥]	96[¥]	100[¥]

Expected number of AFP cases calculated @ 2/100,000 children below 15 years of age; number expected cases by province may not add up to the total because of rounding off
^uNon Polio rate annualized up to week No. 35 ended 01st September 2012. [†] Zero reports and active surveillance averaged for last 4 weeks [‡] Target ≥80% ^{***} Data not received ^μ Data as per REC file of 07th September 2012. [§] Population data source: Federal EPI [¶] Cases from FR areas are included in FATA [¥] For received reports only

FEEDBACK

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Table (3): DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - PUNJAB

District	2011						2012 ^{^^}									
	Minimum Expected AFP Cases (Annual)*	Total Reported AFP Cases	Wild Polio Cases	Indicators			Minimum Expected AFP Cases (Annual)*	Total Reported AFP Cases	Wild Polio Cases	Indicators			Zero Reporting†			Active Surveillance (%)‡
				Non-Polio AFP Rate	Cases with Adequate Specimens (%)†	60 Day Follow Up (%)‡				Non-Polio AFP Rate **	Cases with Adequate Specimens (%)†	60 Day Follow Up (%)‡	Number of Sites	Completeness (%)‡	Timeliness (%)‡	
ATTOCK	13	39	0	5.83	90	100	13	32	0	7.02	91	100	77	92	92	100
BAHAWALPUR	28	61	1	4.25	92	100	28	37	0	3.85	95	100	73	100	93	100
BAHWLNAGAR	22	64	0	5.79	86	100	22	37	0	4.91	97	100	90	99	92	100
BHAKKAR	12	44	0	7.53	86	100	12	35	0	8.79	97	100	14	100	100	100
CHAKWAL	11	41	0	7.42	85	100	11	30	0	7.96	87	100	18	100	97	100
CHINIOT	10	35	0	6.97	86	100	10	18	0	5.26	89	100	12	100	100	100
DGKHAN	20	150	1	15.23	87	100	20	81	0	12.15	88	100	56	100	83	100
FAISALABAD	59	140	0	4.76	84	100	59	84	0	4.18	92	100	37	99	97	100
GUJRANWALA	38	139	0	7.24	93	100	38	82	0	6.27	99	100	47	100	93	100
GUJRAT	21	55	0	5.12	89	100	21	44	0	6.01	93	100	118	100	100	100
HAFIZABAD	9	32	0	7.28	97	100	9	18	0	6.01	89	100	54	100	100	100
JHANG	19	44	0	4.52	95	100	19	46	1	6.78	89	100	20	99	99	100
JHELUM	10	55	0	11.37	96	96	10	18	0	5.46	100	100	72	100	97	100
KASUR	26	69	0	5.28	97	100	26	40	0	4.49	98	100	82	100	87	100
KHANEWAL	22	87	0	7.81	92	100	22	47	0	6.19	94	100	30	97	97	100
KHUSHAB	9	27	0	5.80	100	100	9	13	0	4.10	100	100	16	100	100	100
LAHORE	77	128	1	3.32	91	100	77	102	0	3.91	94	100	42	100	98	100
LAYYAH	13	52	0	7.99	92	100	13	28	0	6.31	86	100	37	100	100	100
LODHAN	13	53	1	7.97	87	100	13	39	0	8.76	92	100	44	100	92	100
MBDIN	12	43	0	7.37	95	100	12	23	0	5.78	100	100	61	100	91	100
MIANWALI	11	48	0	8.54	94	100	11	27	0	7.04	96	100	17	100	100	100
MULTAN	35	132	0	7.61	87	100	35	70	0	5.92	91	100	46	97	97	100
MUZFARGARH	32	174	1	10.94	87	100	32	82	0	7.60	88	100	48	100	82	100
NANKANASAHIB	14	52	0	7.37	94	100	14	31	0	6.44	90	100	29	100	98	100
NAROWAL	13	41	0	6.38	95	100	13	25	0	5.70	96	100	84	100	100	100
OKARA	24	83	1	6.84	92	100	24	37	0	4.53	86	100	39	100	100	100
PAKPATTEN	14	47	0	6.74	94	100	14	22	0	4.63	95	100	50	100	100	100
RAJANPUR	13	102	0	15.60	87	100	13	58	1	12.79	88	100	39	100	84	100
RAWALPINDI	38	61	0	3.25	93	100	38	56	1	4.38	89	100	120	93	93	99
RYKHAN	37	100	1	5.37	88	100	37	64	0	5.09	86	100	80	100	82	100
SAHIWAL	19	66	0	6.88	85	100	19	26	0	3.98	88	100	39	100	100	100
SARGODHA	27	71	0	5.23	96	100	27	39	0	4.22	95	100	159	100	100	100
SHEIKUPURA	23	65	0	5.72	94	100	23	38	0	4.91	97	100	89	100	98	100
SIALKOT	29	80	0	5.45	86	100	29	41	0	4.10	100	100	131	100	100	100
TTSINGH	17	81	0	9.64	81	100	17	49	0	8.56	84	100	14	100	100	100
VEHARI	23	64	2	5.35	94	100	23	51	0	6.45	90	100	26	100	100	100
PUNJAB	813	2625	9	6.44	90	100	813	1570	3	5.66	92	100	2010	99	96	100

* The expected number of AFP cases calculated @ 2/100,000 children below 15 years of age; number expected cases by district may not add up to the

total because of rounding off. ^^ Population data source: Federal EPI ** Non Polio rate is annualized up to Week No.35 ended on 01st September 2012

‡ Zero reports and active surveillance averaged for last 4 weeks † For received reports only *** Data not Available ○ Indicator below target † Target ≥80%

Table (4): DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - SINDH

Town/District	2011						2012 ^{^^}									Active Surveillance (%) ††
	Minimum Expected AFP Cases (Annual)*	Total Reported AFP Cases	Wild Polio Cases	Indicators			Minimum Expected AFP Cases (Annual)*	Total Reported AFP Cases	Wild Polio Cases	Indicators			Zero Reporting†			
				Non-Polio AFP Rate	Cases with Ade-quate Specimens (%)†	60 Day Follow Up (%) †				Non-Polio AFP Rate**	Cases with Ade-quate Specimens (%)†	60 Day Follow Up (%) †	Number of Sites	Completeness (%) ††	Timeliness (%) ††	
Town Wise Summary — Karachi																
BALDIA	6	21	2	6.43	76	100	6	13	0	6.45	77	90	20	***	***	***
BINQASIM	5	16	0	6.84	75	100	5	12	0	7.52	75	100	22	***	***	***
GADAP	4	36	2	15.30	75	97	4	12	0	8.41	83	92	12	***	***	***
GULSHAN-E-IQBAL	8	23	1	5.42	91	100	8	13	0	4.70	85	100	20	***	***	***
GULBERG	5	8	0	3.04	75	100	5	4	0	2.23	100	100	14	***	***	***
JAMSHEED	9	14	0	3.23	71	100	9	12	0	4.06	92	83	18	***	***	***
KAMARI	6	10	0	3.51	90	89	6	4	0	2.06	75	100	11	***	***	***
KORANGI	7	19	0	5.23	95	100	7	11	0	4.44	91	90	13	***	***	***
LANDHI	9	25	0	5.54	88	100	9	13	0	4.22	77	92	22	***	***	***
LAYARI	6	10	0	3.24	70	100	6	5	0	2.38	80	100	15	***	***	***
LIAQATABAD	8	14	0	3.71	100	100	8	8	0	3.11	100	100	17	***	***	***
MALIR	6	19	0	6.45	84	94	6	9	0	4.48	100	100	13	***	***	***
N NAZIMABAD	6	9	0	3.12	78	100	6	7	0	3.56	86	100	14	***	***	***
NORTH KARACHI	8	15	0	3.77	87	100	8	12	0	4.43	92	100	16	***	***	***
ORANGI	11	22	1	3.80	82	91	11	14	0	3.90	93	100	21	***	***	***
SADDAR	9	14	1	2.87	93	100	9	7	0	2.26	100	100	21	***	***	***
SHAHFAISAL	5	10	0	4.06	100	100	5	10	0	5.96	100	100	11	***	***	***
SITE	7	20	2	5.00	80	100	7	12	0	5.17	75	100	16	***	***	***
District Wise Summary— Sindh																
KARACHI	123	305	9	4.73	84	98	123	178	0	4.23	87	96	296	***	***	***
BADIN	12	61	4	9.52	89	100	12	34	0	8.33	100	100	54	***	***	***
DADU	12	63	0	10.31	94	100	12	19	0	4.56	84	100	64	***	***	***
GHOTKI	12	81	0	13.91	88	97	12	49	0	12.5	92	100	50	***	***	***
HYDERABAD	15	50	1	6.39	92	100	15	36	1	6.70	89	100	30	***	***	***
JACOBABAD	8	66	1	17.05	80	97	8	32	0	12.3	75	100	45	***	***	***
JAMSHORO	6	30	1	9.03	83	100	6	17	0	7.76	88	86	37	***	***	***
KAMBAR	11	36	2	6.29	83	97	11	34	0	9.23	71	100	52	***	***	***
KASHMORE	7	34	1	9.39	88	100	7	15	0	6.26	87	29	39	***	***	***
KHAIRPUR	17	87	0	10.12	87	100	17	67	0	11.4	90	100	102	***	***	***
LARKANA	12	55	0	9.39	89	100	12	33	1	8.01	91	100	52	***	***	***
MATIARI	5	28	0	11.05	89	100	5	11	0	6.37	91	60	40	***	***	***
MIRPURKHAS	10	73	0	14.55	96	100	10	37	1	10.5	95	100	104	***	***	***
NFEROZ	11	46	0	8.47	89	93	11	20	0	5.52	75	92	60	***	***	***
SANGHAR	16	49	2	5.80	80	98	16	28	0	5.07	93	100	55	***	***	***
SBENAZIRABAD	10	20	0	3.62	85	100	10	12	0	3.36	92	100	61	***	***	***
SHIKARPUR	9	55	0	11.76	89	100	9	32	0	10.0	91	100	54	***	***	***
SUKKUR	10	27	0	5.24	85	100	10	17	0	4.84	100	100	70	***	***	***
T.ALLAHYAR	5	40	1	15.42	90	98	5	18	0	10.4	94	100	34	***	***	***
THARPARKAR	11	45	0	8.43	87	100	11	35	0	9.62	94	100	98	***	***	***
THATTA	12	90	8	13.97	84	100	12	46	0	11.5	91	100	58	***	***	***
TMKHAN	4	27	2	11.93	100	100	4	10	0	7.00	90	100	12	***	***	***
UMERKOT	8	46	1	11.43	87	100	8	21	0	7.82	90	100	40	***	***	***
SINDH	347	1414	33	7.92	87	99	347	801	3	6.75	89	96	1507	***	***	***

* The expected number of AFP cases calculated @ 2/100,000 children below 15 years of age; number expected cases by district may not add up to the total because of rounding off. ^^ Population data source: Federal EPI **Non Polio rate is annualized up to Week No.35 ended on 01st September 2012
 † Zero reports and active surveillance averaged for last 4 weeks ‡ For received reports only *** Data not Available ○ Indicator below target † Target ≥80%

Table(5): DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - K. PAKHTUNKHWA & FATA

District /Agency	2011						2012^^									
	Minimum Expected AFP Cases (Annual) *	Total Reported AFP Cases	Wild Polio Cases	Indicators			Minimum Expected AFP Cases (Annual) *	Total Reported AFP Cases	Wild Polio Cases	Indicators			Zero Reporting‡			Active Surveillance (%) †
				Non-Polio AFP Rate **	Cases with Ade-quate Specimens	60 Day Follow Up (%) †				Non-Polio AFP Rate **	Cases with Ade-quate Specimens	60 Day Follow Up (%) †	Number of Sites	Completeness (%) †	Timeliness (%) ††	
District Wise Summary — Khyber-Pakhtunkhwa																
ABOTABAD	9	31	0	6.99	87	67	9	24	0	7.94	88	76	93	***	***	***
BANNU	8	45	2	10.98	91	96	8	18	0	6.74	89	85	43	***	***	***
BATAGRAM	3	15	0	11.23	87	93	3	13	0	14.28	54	77	31	***	***	***
BUNIR	6	48	3	13.62	90	94	6	27	0	12.26	89	65	42	***	***	***
CHARSADA	12	64	1	10.81	84	35	12	29	2	7.05	93	65	49	***	***	***
CHITRAL	3	9	0	5.17	100	67	3	1	0	0.84	100	0	27	***	***	***
DI KHAN	11	28	0	5.30	93	89	11	14	1	3.61	93	54	54	***	***	***
DIR LOWER	9	49	0	11.25	84	94	9	25	0	8.42	92	100	62	***	***	***
DIR UPPER	6	21	1	6.18	100	80	6	19	0	8.61	79	94	30	***	***	***
HANGU	4	13	0	6.95	92	77	4	11	0	8.62	73	0	23	***	***	***
HARIPUR	7	19	0	5.22	89	79	7	11	1	4.43	64	70	66	***	***	***
KARAK	5	32	0	12.47	88	97	5	11	1	6.29	91	50	28	***	***	***
KOHAT	8	55	6	12.85	85	69	8	18	1	6.54	89	50	40	***	***	***
KOHISTAN	4	6	0	3.10	67	83	4	6	0	4.54	83	40	31	***	***	***
LAKKI MARWAT	6	74	3	24.30	89	80	6	27	2	12.55	81	61	57	***	***	***
MALAKAND	5	33	0	12.11	70	76	5	13	0	7.00	85	67	46	***	***	***
MANSEHRA	10	42	0	8.02	93	95	10	22	0	6.31	86	84	69	***	***	***
MARDAN	17	103	0	12.19	85	100	17	70	2	11.98	90	100	77	***	***	***
NOWSHERA	10	41	2	7.81	76	80	10	24	0	7.05	92	43	47	***	***	***
PESHAWAR	25	141	6	10.59	79	76	25	54	2	5.98	87	62	124	***	***	***
SHANGLA	5	22	0	8.49	82	100	5	4	1	2.26	50	67	35	***	***	***
SWABI	12	79	1	13.20	94	79	12	38	1	9.44	97	77	63	***	***	***
SWAT	15	30	0	3.95	90	77	15	6	0	1.16	83	0	48	***	***	***
TANK	3	20	3	11.05	85	68	3	8	0	7.63	88	38	27	***	***	***
TORGHAR	2	7	2	3.64	86	86	2	8	1	10.69	63	0	***	***	***	***
K-Pakhtukhwa ^	206	1027	30	9.66	86	81	206	501	15	7.03	86	68	1212	***	***	***
Agency Wise Summary — FATA																
BAJOUR	7	49	2	13.32	90	22	7	11	2	4.16	100	0	28	***	***	***
KHYBER	6	63	25	11.31	87	85	6	26	10	7.58	69	73	72	***	***	***
KURRAM	4	7	1	2.78	100	40	4	4	0	2.72	75	0	30	***	***	***
MOHMAND	4	25	4	9.58	76	72	4	5	0	3.70	80	25	26	***	***	***
ORAKZAI	2	5	2	2.67	100	100	2	2	0	2.61	50	50	33	***	***	***
WAZIR-N	3	36	14	12.66	97	97	3	11	1	8.44	82	100	24	***	***	***
WAZIR-S	4	19	4	7.69	95	74	4	4	1	2.26	100	0	18	***	***	***
FATA ^	31	204	52	9.44	90	68	31	63	14	4.71	79	52	231	***	***	***
K-PAKHTUNKHWA & FATA	237	1231	82	9.63	87	79	237	564	29	6.72	86	66	1443	***	***	***

* The expected number of AFP cases calculated @ 2/100,000 children below 15 years of age; number expected cases by district may not add up to the total because of rounding off. ^^ Population data source: Federal EPI **Non Polio rate is annualized up to Week No.35 ended on 1st September 2012

6 ‡ Zero reports and active surveillance averaged for last 4 weeks † For received reports only *** Data not Available ○ Indicator below target † Target ≥80%

Table (6): DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - BALOCHISTAN

District	2011						2012 ^{^^}									
	Minimum Expected AFP* Cases (Annual)*	Total Reported AFP Cases	Wild Polio Cases	Indicators			Minimum Expected AFP Cases (Annual)*	Total Reported AFP Cases	Wild Polio Cases	Indicators			Zero Reporting			Active Surveillance (%)† ‡
				Non-Polio AFP Rate	Cases with Adequate Specimens (%)†	60 Day Follow Up (%) †				Non-Polio AFP Rate**	Cases with Adequate Specimens (%)†	60 Day Follow Up (%) †	Number of Sites	Completeness (%)† ‡	Timeliness (%)† ‡ ‡	
AWARAN	1	1	0	1.99	0	100	1	0	0	0.00			12	100	95	***
BARKHAN	1	9	1	13.21	100	100	1	5	0	12.11	80	75	9	***	***	***
BOLAN	3	12	0	8.95	83	83	3	0	0	0.00			23	79	75	***
CHAGHAI	1	2	0	3.69	50	100	1	2	0	5.41	100	100	19	***	***	100
DBUGTI	2	2	1	0.92	50	100	2	2	0	2.69	100	50	9	100	100	***
GWADUR	2	5	0	4.66	80	80	2	2	0	2.74	100	100	11	100	100	100
HARNAI	1	4	1	6.56	75	100	1	1	0	3.21	100	0	10	90	80	***
JAFARABAD	5	27	0	10.88	85	95	5	21	0	12.41	90	81	38	100	87	***
JHALMAGSI	1	7	0	11.18	57	100	1	2	0	4.69	100	0	21	90	87	***
KABDULAH	5	47	22	9.85	74	80	5	9	0	5.20	78	60	26	***	***	100
KALAT	2	3	1	1.89	33	100	2	2	0	2.78	100	100	15	100	86	63
KECH	4	9	0	5.05	89	100	4	4	0	3.30	100	100	19	96	92	***
KHARAN	1	2	0	3.96	100	100	1	4	0	11.61	50	0	6	100	100	***
KHUZDAR	5	19	5	6.18	79	100	5	7	0	4.53	100	67	31	100	97	***
KOHLU	1	3	1	3.89	67	100	1	0	0	0.00			6	87	70	***
KSAIFULAH	2	7	2	5.27	43	86	2	0	0	0.00			14	***	***	***
LASBELA	4	15	0	8.26	73	100	4	8	0	6.46	100	100	40	99	80	***
LORALAI	2	11	3	7.63	91	100	2	3	0	4.20	67	100	19	95	95	100
MASTUNG	2	6	2	5.12	33	100	2	2	0	3.76	50	100	18	87	87	100
MUSAKHEL	1	3	0	4.20	67	100	1	4	0	8.22	75	100	10	100	90	100
NOSHKI	1	9	3	13.83	100	100	1	3	0	10.15	67	67	13	100	93	***
NSIRABAD	3	22	0	13.99	73	100	3	10	0	9.33	90	86	28	71	49	***
PANJGOUR	2	1	0	0.81	100	100	2	0	0	0.00			13	***	***	***
PISHIN	4	42	16	10.67	74	98	4	11	0	7.17	64	88	33	45	30	100
QUETTA	10	62	15	9.27	89	100	10	16	3	3.76	100	100	62	100	97	***
SHARANI	1	1	0	2.42	0	100	1	0	0	0.00			4	***	***	***
SIBI	2	7	0	8.40	86	86	2	5	0	8.80	40	0	20	99	99	***
WASHUK	1		0	0.00			1	0	0	0.00			9	98	78	***
ZHOB	2	2	0	1.74	100	100	2	0	0	0.00			15	***	***	***
ZIARAT	1	1	0	1.91	100	100	1	0	0	0.00			10	***	***	***
BALOCHISTAN	73	341	73	7.25	78	95	73	123	3	4.80	85	76	563	93	85	98

* The expected number of AFP cases calculated @ 2/100,000 children below 15 years of age; number expected cases by district may not add up to the total because of rounding off. ^^ Population data source: Federal EPI **Non Polio rate is annualized up to Week No.35 ended on 01st September 2012
‡ Zero reports and active surveillance averaged for last 4 weeks † For received reports only *** Data not Available ○ Indicator below target † Target ≥80%

Table (7): DISTRICT WISE SUMMARY OF SURVEILLANCE DATA AJK G-BALTISTAN & ISLAMABAD

District	AFP Surveillance Data 2011						AFP Surveillance Data 2012 ^{^^}									
	Minimum Expected AFP Cases (Annual) *	Total Reported AFP Cases	Wild Polio Cases	Indicators			Minimum Expected AFP Cases (Annual) *	Total Reported AFP Cases	Wild Polio Cases	Indicators			Zero Reporting †		Active Surveillance (%) ††	
				Non-Polio AFP Rate	Cases with Adequate Specimens (%) [†]	60 Day Follow Up (%) [†]				Non-Polio AFP Rate **	Cases with Adequate Specimens (%) [†]	60 Day Follow Up (%) [†]	Number of Sites	Completeness (%) [†]		Timeliness (%) [†]
District Wise Summary of Surveillance Data - AJK																
BAGH	3	6	0	3.88	100	100	3	2	0	1.90	100	100	15	100	100	100
BHIMBER	3	7	0	4.29	100	100	3	5	0	4.49	100	80	11	100	100	100
HATTIAN BALA	2	3	0	3.43	100	100	2	0	0	0.00			8	100	100	100
HAVELI	1	0	0	0.00			1	0	0	0.00			6	100	100	100
KOTLI	6	6	0	1.97	100	100	6	3	0	1.45	100	67	18	100	100	100
MIRPUR	4	8	0	4.57	100	100	4	4	0	3.35	100	100	26	100	100	100
MUZAFFARABAD	5	6	0	2.32	67	100	5	4	0	2.26	75	100	16	100	100	100
NEELUM	1	2	0	2.83	50	100	1	1	0	2.07	100	100	6	100	100	100
POONCH	4	5	0	2.34	100	60	4	2	0	1.37	50	100	11	100	100	100
SUDNUTI	2	2	0	1.72	50	100	2	1	0	1.00	100	100	07	100	100	100
AJK	32	45	0	2.80	91	95	32	22	0	2.01	91	89	124	100	100	100
District Wise Summary of Surveillance Data - Gilgit-Baltistan																
ASTORE	1	4	0	7.36	100	100	1	0	0	0.00			5	100	100	100
DIAMIR	3	6	1	3.64	100	50	3	4	1	3.27	75	0	5	100	100	100
GHANCHE	1	1	0	1.46	100	100	1	2	0	4.28	100	0	7	100	100	100
GHIZER	2	6	0	6.90	83	100	2	1	0	1.69	100	0	7	100	100	100
GILGIT	2	6	0	5.94	83	83	2	1	0	1.45	100		12	100	100	100
HUNZA	1	1	0	1.41	100	100	1	1	0	2.06	100			100	100	100
SKARDU	3	2	0	1.19	100	100	3	4	0	3.49	100	50	6	100	100	100
GILGIT-BALTISTAN	14	26	1	3.64	92	85	14	13	1	2.77	92	13	42	100	100	100
District Wise Summary of Surveillance Data - Islamabad																
<i>Islamabad</i>	12	15	0	2.45	93	100	12	14	0	3.36	93	91	42	100	96	100

* The expected number of AFP cases calculated @ 2/100,000 children below 15 years of age; number expected cases by district may not add up to the total because of rounding off.

^^ Population data source: Federal EPI **Non Polio rate is annualized up to week No. 35 ended on 01 September 2012 † Tar ≥80% ‡ Zero reports and active surveillance averaged for last 4 weeks

Table (8): REPORTED AFP CASES BY WEEK OF ONSET[†] — (Source RRL REC file 07/09/2012)

Province	Total AFP	Total AFP 2012	W 22	W 23	W 24	W 25	W 26	W 27	W 28	W 29	W 30	W 31	W 32	W 33	W 34	W 35
			02 Jun	09 Jun	16 Jun	27 Jun	30 Jun	07 Jul	14 Jul	21 Jul	28 Jul	04 Aug	11 Aug	18 Aug	25 Aug	01 Sep
Punjab	2632	1570	50	51	43	48	36	39	55	56	42	39	36	37	50	15
Sindh	1415	801	22	32	16	22	19	18	23	25	26	20	18	11	14	7
K-Pakhtunkhwa	207	501	12	20	20	25	20	15	21	20	17	15	19	14	23	6
FATA	341	63	1	1	2	1	3	2	4	1	1	0	3	1	3	2
Balochistan	45	123	6	4	3	3	5	2	2	3	1	6	5	1	2	2
AJK	15	22	2	0	0	0	2	1	0	0	0	0	0	0	1	0
Gilgit-Baltistan	26	13	0	0	1	0	0	1	1	0	1	1	1	0	0	0
Islamabad	1031	14	0	1	0	0	1	0	0	0	2	1	0	0	0	0
Pakistan	5712	3107	93	109	85	99	86	78	106	105	90	82	82	64	93	32

Table (9): CONFIRMED POLIO CASES BY MONTH OF ONSET — (Source AFP REC file)

Province	2010	2011	2012	September 2011 - August 2012											
				Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug [†]	Sep [†]
Punjab	7	9	3	2	1	4	1	-	-	-	1	-	-	1	-
Sindh	27	33	3	9	1	2	2	-	-	-	1	-	-	-	-
K-Pakhtunkhwa	26	23 [^]	15	3	5	3	4	-	-	-	-	1	3	6	1
FATA	72	59 [^]	14	12	6	8	2	3	1	1	4	-	2	-	1
Balochistan	12	73	3	11	5	4	2	-	-	-	-	1	-	-	-
AJK/ Gilgit-Baltistan	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-
Islamabad	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pakistan	144	198	39	37	18	21	11	3	1	1	6	2	5	8	2