

CURRENT EPIDEMIOLOGY OF POLIO IN PAKISTAN

As of 18th November 2013, 63 type-1 wild poliovirus (WPV) cases from 19 districts/towns/tribal agencies/FR areas have been reported (compared to 56 in the same time period in 2012 from 28 districts/towns/tribal agencies/FR areas). Moreover, WPV-1 has also been isolated from 43 environmental samples this year (out of 280 samples for which results are available) from Peshawar, Rawalpindi, Multan, Faisalabad, Gaddap and Gulshan-e-Iqbal towns in Karachi, Hyderabad and Quetta. Furthermore, 41 Sabin-2 like poliovirus cases have also been reported, 34 from North Waziristan agency (FATA), four from Gaddap town Karachi (Sindh) and one each from Jaffarabad and Mastung (Balochistan) and Mohmand agency (FATA).

Following are the key epidemiological characteristics of polio cases reported in 2013 so far:

- 54 (85.7%) polio cases are younger than two years (median age: 12 months).
- Based on recall of parents, 34 (53.9%) cases did not receive any OPV dose (through routine vaccination and/or campaigns); eight (12.7%) cases received 1-3 OPV doses, nine (14.3%) received 4-6 doses; while 12 (19%) polio cases received 7 or more OPV doses.
- Two polio cases had date of onset of paralysis in January, three in February, one in March, two in April, nine in May, four each in June and July, eight in August, 19 in September and 11 polio cases had date of onset of paralysis in October.

It is worth mentioning that, 82.5% (52/63) polio cases have been reported together from Khyber Pakhtunkhwa (14.3%; 9/63) and FATA (68.2%; 43/63), indicating that these regions remain the key polio reservoirs in the country. Five wild polio cases have been reported from Sindh (two from Gaddap town Karachi and one each from Kashmore, Dadu and Bin Qasim town Karachi) and six from Punjab (two from Toba Tek Singh and one each from Mianwali, Mandi Bahauddin, Sheikhpura and Sahiwal).

FATA and central Khyber Pakhtunkhwa currently have the most intense wild poliovirus circulation evident by: a) the persistent WPV isolation in the environmental samples from Peshawar; b) continued reporting of polio cases from central Khyber Pakhtunkhwa; and c) ongoing polio outbreaks in North Waziristan agency, FR Bannu and Khyber agency. The outbreaks in FATA can be attributed to the ban on vaccination by the local elements in North and South Waziristan agencies since June 2012, inconsistent vaccination activities in Bara tehsil of Khyber agency since late 2009 with pockets of persistently missed children. Continued security threat to polio workers and management issues remain the key factors in Khyber Pakhtunkhwa. Explosive polio outbreak in North Waziristan constitutes a serious risk for the adjoining southern Khyber Pakhtunkhwa.

Gaddap town Karachi (Sindh), especially its union council (UC) 4 is also an area of serious concern and constitutes major risk evi-

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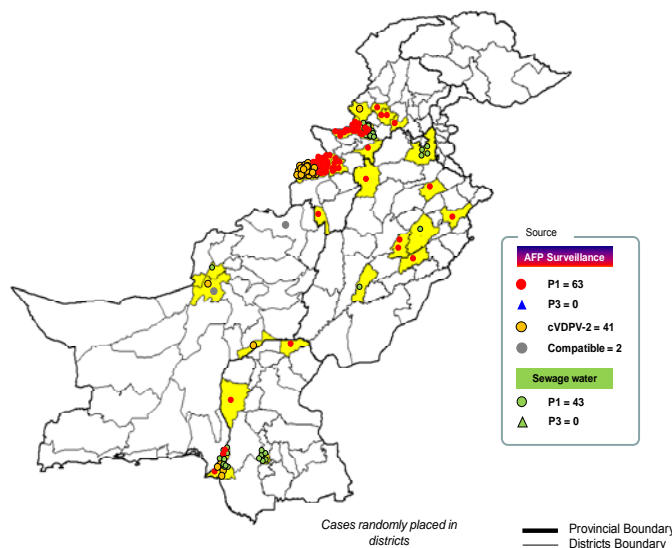
denced by the two wild polio cases, four Sabin-2 like poliovirus cases and ongoing WPV isolation in the environmental samples. Due to the dynamicity of population, Karachi can potentially act as WPV amplifier and source of spread to other areas of the country.

Balochistan province did not report any wild poliovirus case in 2013 however, one Sabin-2 like poliovirus case each has been reported from Jafarabad and Mastung districts. WPV has not been isolated from 24 environmental samples collected after February 2013 from Quetta.

Key recent epidemiological developments can be summarized as follows:

- Recent two environmental samples from Hyderabad were negative for poliovirus; indicating potential improvement as a result of intensified vaccination activities
- Persistent poliovirus isolation from Gulshan-e-Iqbal town Karachi (three positive samples of the last four) indicates possible viral re-establishment
- Following positive environmental sample in Multan (collected on 18th Sep. 2013), two polio cases in Toba Tek Singh and one in neighboring Sahiwal indicates a concerning outbreak in the region with significant potential to further spread. This warrants urgent intensified vaccination activities to arrest the poliovirus circulation in Punjab.

Map-1: Poliovirus Isolates 2013 (As of 18-11-2013)



News Briefs and Events

- Meeting of the Technical Advisory Group (TAG) is scheduled on 27th - 29th November at Islamabad to discuss the current polio situation in Pakistan.
- Next National Immunization Days (NIDs) have been planned to start from 18th November 2013

Environmental Surveillance: Trends of Positive Isolates

Pakistan initiated environmental sampling in July 2009 and there has been significant expansion since then, from seven sites in two cities to 27 sites in nine cities. Environmental surveillance has proven to be a very useful complementary strategy to AFP surveillance that has helped better understanding the poliovirus circulation patterns.

Figure 1-a and 1-b illustrate the trends of environmental sampling results since 2010, at the national and provincial levels respectively. It is evident that poliovirus isolation peaked during the months of August to December (high poliovirus transmission season) during 2010 and 2011, following the expected trend. The wild poliovirus circulation was quite intense during 2011, when almost all the environmental samples collected during the months of September to December, tested positive. It is pertinent to mention that Pakistan reported 198 polio cases in 2011, the highest globally by any country.

While observing the result trends in 2012, it is clear that the seasonal surge in the proportion of positive environmental samples was reversed compared to previous years. This can be attributed to vaccination activities reaching more children during the low transmission season in late 2011 and early 2012 under the flag of Augmented NEAP. This reiterates the fact that good quality vaccination activities, especially during the low transmission can make a difference in interrupting wild poliovirus transmission. It is important to mention that the country also substantially utilized the Short Interval Additional Dose Strategy (SIADS) during this time.

The provincial level results also indicate the direct impact of better implemented vaccination activities. Balochistan and Punjab province for instance, made the most significant progress. Only one sample from Quetta turned positive since January 2013, which was new introduction from Gaddap Town Karachi as indicated by the genetic analysis. Similarly, large urban populations of Lahore and Multan in Punjab remained without local poliovirus circulation for significant time. On the other hand, Khyber Pakhtunkhwa (Peshawar) reported continued isolation of wild poliovirus that correlates with the sub-optimal vaccination activities as well as lower numbers of SIADS campaigns in early 2012. Gaddap Town Karachi in Sindh also had continued WPV isolation due to sub-optimal reach to the children for vaccination. Sukkur in northern Sindh has not reported any WPV isolates since September 2012 after the northern Sindh region implemented intensified SIAs as per SIAD strategy. Recently, Hyderabad has reported two consecutive negative samples after persistent WPV isolation for several months. This development also precedes intensified vaccination activities in Hyderabad.

The country is currently passing through the high transmission season and witnessing surge in the WPV isolation in the environmental samples, even from the areas that remained without WPV for substantial time, e.g. Multan, Gulshan-e-Iqbal town Karachi. There is need to implement intensified SIAs strategy with highest possible quality during the next low transmission season (December 2012-May 2014); which will be critical if Pakistan has to stop WPV circulation by the end of 2014.

Fig 1-a: Environmental surveillance; Negative vs Positive isolates by month 2010-2013

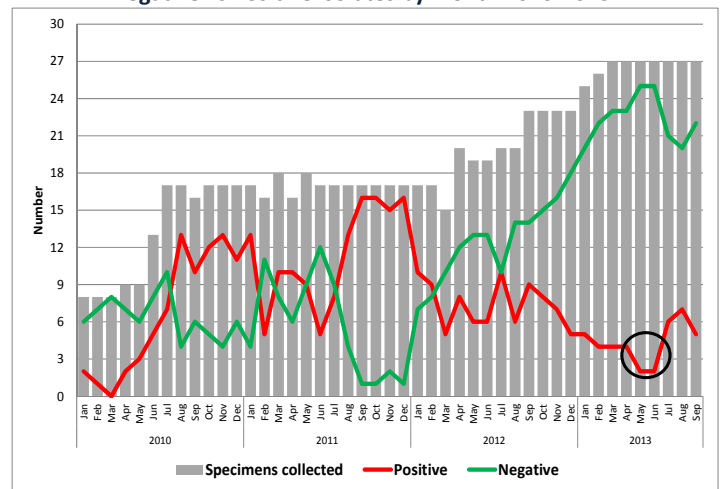
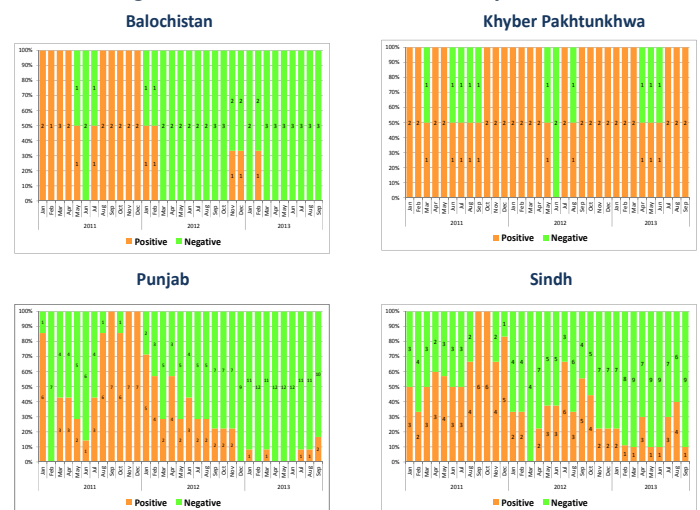


Fig 1-b; Environmental Surveillance by Province



Global Update (as of 18th November 2013)

338 polio cases were reported compared to 187 in 2012 in same time period, 123 from endemic countries and 215 from non-endemic countries. The case count by country is: Pakistan-63, Afghanistan-09, Nigeria-51, Somalia-180, Kenya-14, Ethiopia 06, Cameroon 02 and Syria 13.

For details, please visit: www.polioeradication.org

The Prime Minister's desire to make Polio Free Pakistan

The Prime Minister Mian Muhammad Nawaz Sharif expressed his earnest desire to make Pakistan a country where no parents see their child crippled by polio. The Prime Minister said this on Sep 20, 2013 while chairing the sixth National Task Force (NTF) meeting on Polio Eradication at the Prime Minister's office. The meeting was attended by Governor Khyber Pakhtunkhwa (KPK) Engineer Shaukatullah, Chief Minister Sindh Syed Qaim Ali Shah, Chief Minister KPK Pervez Khattak and the Prime Minister Azad Jammu & Kashmir (AJK) Chaudhry Abdul Majeed. Dr. Ala Alwan, the Regional Director WHO, Mrs. Saira Afzal Tarrar, Minister of State for National Health Services, Regulation and Coordination (NHSRC), Parliamentarians and senior government officials were also present in the meeting.

"I am aware of the challenges that face us today and also cognizant of diversity of these challenges from Khyber Pakhtunkhwa to Sindh", said the Prime Minister. He noted the importance for demonstrating mutual resolve and collective will to achieve the cherished goal of complete eradication of polio from the country. The Prime Minister stressed that the success of the National Emergency Action Plan, developed in consultation with all stakeholders, depends on its proper implementation. He added that civil-military coordination mechanism will help a great deal in eradicating polio from FATA. Assuring complete support from the federal government, the Prime Minister expressed the hope that the provincial governments will further enhance their efforts and target the specified areas for optimal results. He asked for nominating senior government officials as provincial polio focal persons and establishing Provincial Monitoring Control Rooms in Chief Minister (CM) or Chief Secretary (CS) offices.



Prime Minister Muhammad Nawaz Sharif chairing a meeting of the National Task Force on Polio Eradication in Islamabad on September 20, 2013

Earlier, Dr. Ala Alwan, the Regional Director, WHO called on Prime Minister at PM's office. The Prime Minister said that Pakistan values the support extended by WHO in different areas of health sector including Polio Eradication. Dr. Ala Alwan, appreciated the decline in polio cases in Pakistan and stressed that coordinated efforts must continue till the complete eradication of polio from the country. He urged that combined endeavors by political and religious leadership and the local administration would substantially help in achieving the shared goal.

Mrs. Saira Afzal Tarrar, Minister of State for NHSRC briefed the meeting on strategies evolved for polio eradication from the country. She proposed that the Task Force must meet on quarterly basis to overview the progress made.

Province-wise AFP Surveillance Data for 2012 & 2013

Province/Region	AFP Surveillance Data 2012						AFP Surveillance Data 2013 [§]									
	Minimum Expected AFP* Cases (Annual)*	Total Reported AFP Cases	Wild Polio Cases	Indicators			Minimum Expected AFP* Cases (Annual)*	Total Reported AFP Cases	Wild Polio virus 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 (%)†	No. Zero Reporting Sites	Completeness (%)† ±	Timeliness (%)† ±	
PUNJAB	827	2407	2	5.81	91	100	827	1708	2	5.36	93	100	2010	83.9	79.7	97.2
SINDH	353	1212	4	6.84	90	100	353	682	3	4.97	92	98	1507	***	***	***
FATA	32	149	21	7.95	72	100	32	164	27	9.84	80	38	1212	***	***	***
BALUCHISTAN	75	205	4	4.98	83	100	75	128	0	4.32	84	82	231	79	76	85
AJK	33	34	0	2.08	94	91	33	40	0	3.18	93	100	563	***	***	***
ISLAMABAD	12	19	0	3.05	89	100	12	17	0	3.55	100	0	124	***	***	***
GBALTISTAN	14	21	1	2.71	90	100	14	3	0	0.56	67	100	42	***	***	***
KPAKH-TUNKHWA	212	991	27	9.09	85	100	212	597	7	7.25	84	92	42	***	***	***
TOTAL	1558	5038	59	6.37	89	100	1558	3339	39	5.47	90	95	5731	81.5	77.9	91.1

* The 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

** Non Polio rate is annualized up to week No. 40 ended on 05th October 2013 ‡ Zero reports and active surveillance averaged for last 4 weeks † Target ≥80%

§ Population data source: Federal EPI

μ Cases from FR areas are included in FATA ¥ For received reports only

FEEDBACK

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Website: www.whopak.org

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - PUNJAB

District	AFP Surveillance Data 2012						AFP Surveillance Data 2013 ^{^^}									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 Adequate Specimens (%) [†]	60 Day Follow Up (%) [†]				Non-Polio AFP Rate ^{**}	Cases with Adequate Specimens (%) [†]	60 Day Follow Up (%) [†]	Number of Sites	Completeness (%) ^{†‡}	Timeliness (%) ^{†‡}	
ATTOCK	14	40	0	5.87	93	100	14	27	0	5.15	96	100	77	100	96.8	100
BAHAWALPUR	29	59	0	4.11	97	100	29	44	0	3.98	93	100	73	100	93	100
BAHWLNAGAR	22	64	0	5.69	95	100	22	65	0	7.51	95	100	90	100	98	100
BHAKKAR	12	54	0	9.08	94	100	12	32	0	6.99	100	100	14	100	100	100
CHAKWAL	11	44	0	7.82	89	100	11	32	0	7.39	100	100	18	100	100	100
CHINIOT	10	29	0	5.68	90	100	10	23	0	5.85	96	100	12	100	100	100
DGKHAN	20	145	0	14.57	88	100	20	87	0	11.36	92	100	56	100	82.7	100
FAISALABAD	60	132	0	4.40	83	100	60	70	0	3.04	87	100	37	100	100	100
GUJRANWALA	39	131	0	6.71	98	100	39	83	0	5.52	96	100	47	100	100	100
GUJRAT	22	58	0	5.31	93	100	22	45	0	5.35	96	100	118	100	91.5	100
HAFIZABAD	9	33	0	7.37	91	100	9	25	0	7.26	96	100	54	98.8	89	100
JHANG	20	54	1	5.35	89	100	20	46	0	6.04	83	100	20	100	100	100
JHELUM	10	28	0	5.69	96	100	10	31	0	8.19	97	100	72	100	100	100
KASUR	27	64	0	4.81	97	100	27	47	0	4.59	96	100	82	100	95.3	100
KHANEWAL	23	74	0	6.53	93	100	23	56	0	6.42	88	100	30	97.3	93	100
KHUSHAB	9	21	0	4.43	95	100	9	15	0	4.12	93	100	16	100	100	100
LAHORE	78	147	0	3.77	95	100	78	96	0	3.20	96	100	42	100	84.3	100
LAYYAH	13	42	0	6.34	81	100	13	30	0	5.88	87	100	37	100	96	100
LODHRAN	13	59	0	8.88	95	100	13	45	0	8.80	96	100	44	100	91	100
MBDIN	12	33	0	5.55	100	100	12	32	1	6.78	94	100	61	100	90	100
MIANWALI	11	42	0	7.34	93	100	11	36	1	7.95	100	100	17	***	***	***
MULTAN	35	112	0	6.35	88	100	35	80	0	5.89	94	100	46	100	97.3	100
MUZFARGARH	32	134	0	8.32	83	100	32	83	0	6.70	92	100	48	100	91.3	100
NANKANSAHIB	14	45	0	6.27	96	100	14	25	0	4.52	100	100	29	100	97.8	100
NAROWAL	13	36	0	5.50	97	100	13	29	0	5.76	97	100	84	100	84.3	100
OKARA	24	60	0	4.92	88	100	24	51	0	5.44	88	100	39	100	95.7	100
PAKPATTEN	14	33	0	4.65	82	100	14	22	0	4.03	82	100	50	100	90	100
RAJANPUR	13	83	1	12.32	88	100	13	55	0	10.74	89	100	39	100	85	100
RAWALPINDI	38	79	0	4.14	91	100	38	56	0	3.81	89	100	120	100	96	100
RYKHAN	38	101	0	5.38	88	100	38	60	0	4.16	93	100	80	100	83.3	100
SAHIWAL	20	38	0	3.89	89	100	20	38	0	5.06	87	100	39	100	100	100
SARGODHA	28	63	0	4.56	94	100	28	38	0	3.58	95	100	159	100	100	100
SHEIKUPURA	23	56	0	4.84	95	100	23	56	0	6.30	91	100	89	100	100	100
SIALKOT	30	64	0	4.28	97	100	30	46	0	4.00	100	100	131	100	91.3	100
TTSINGH	17	72	0	8.42	82	100	17	39	0	5.93	90	100	14	100	100	100
VEHARI	24	78	0	6.61	90	100	24	63	0	6.94	95	100	26	100	100	100
PUNJAB	4	827	2	5.81	91	100	827	1708	2	5.36	93	100	2010	83.9	79.7	97.2

* 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

** Non Polio rate is annualized up to week No. 40 ended on 05th October 2013 † Target ≥80%

‡ Zero reports and active surveillance averaged for last 4 weeks

^{^^} Population data source: Federal EPI

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - SINDH

Town/District	AFP Surveillance Data 2012						AFP Surveillance Data 2013 ^{^^}									
	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 Specifications (%) [†]	60 Day Follow Up (%) [†]				Non-Polio AFP Rate ^{**}	Cases with Adequate Specifications (%) [†]	60 Day Follow Up (%) [†]	Number of Sites	Completeness (%) ^{††}		Timeliness (%) ^{††}
Town Wise Summary — Karachi																
BALDIA	6	16	0	5.32	81	100	6	8	0	3.46	75	100	20	***	***	***
BINQASIM	5	15	0	6.30	80	100	5	8	1	3.82	100	100	22	***	***	***
GADDAP	4	18	0	7.98	78	100	4	22	1	10.3	73	87	12	***	***	***
GULSHAN-E-IQBAL	8	20	0	4.84	90	100	8	9	0	2.83	100	100	20	***	***	***
GULBERG	5	7	0	2.61	100	100	5	4	0	1.94	100	100	14	***	***	***
JAMSHEED	9	17	0	3.85	94	100	9	9	0	2.65	78	100	18	***	***	***
KAMARI	6	9	0	3.10	89	100	6	7	0	3.14	57	100	11	***	***	***
KORANGI	7	12	0	3.24	92	100	7	10	0	3.51	80	100	13	***	***	***
LANDHI	9	21	0	4.57	86	100	9	9	0	2.55	100	100	22	***	***	***
LAYARI	6	8	0	2.55	75	100	6	6	0	2.48	67	80	15	***	***	***
LIAQATABAD	8	11	0	2.87	100	100	8	8	0	2.71	100	100	17	***	***	***
MALIR	6	10	0	3.34	100	100	6	11	0	4.77	100	100	13	***	***	***
N NAZIMABAD	6	10	0	3.41	90	100	6	4	0	1.77	100	100	14	***	***	***
NORTH KARACHI	8	16	0	3.95	88	100	8	14	0	4.50	100	100	16	***	***	***
ORANGI	11	19	0	3.55	100	100	11	15	0	3.64	87	91	21	***	***	***
SADDAR	9	10	0	2.17	100	100	9	8	0	2.25	88	88	21	***	***	***
SHAHFAISAL	5	10	0	3.99	100	100	5	10	0	5.19	100	100	11	***	***	***
SITE	7	14	0	4.04	79	100	7	9	0	3.38	89	100	16	***	***	***
District Wise Summary— Sindh																
KARACHI	126	243	0	3.85	89	100	126	171	2	3.41	88	96	296	***	***	***
BADIN	12	58	0	9.51	100	100	12	31	0	6.61	97	100	54	***	***	***
DADU	12	32	0	5.15	88	100	12	19	1	3.76	89	100	64	***	***	***
GHOTKI	12	78	0	13.32	94	100	12	54	0	11.9	91	95	50	***	***	***
HYDERABAD	16	64	1	8.08	92	98	16	20	0	3.33	90	100	30	***	***	***
JACOBABAD	8	41	0	10.57	76	100	8	24	0	8.04	88	100	45	***	***	***
JAMSHORO	7	28	0	8.56	86	100	7	14	0	5.57	79	100	37	***	***	***
KAMBAR	11	51	0	9.28	76	100	11	21	0	4.97	90	100	52	***	***	***
KASHMORE	7	30	0	8.39	77	97	7	7	0	2.54	86	100	39	***	***	***
KHAIRPUR	17	86	0	9.83	91	100	17	40	0	5.94	100	100	102	***	***	***
LARKANA	12	54	1	8.89	94	100	12	19	0	4.14	100	100	52	***	***	***
MATIARI	5	21	0	8.14	90	100	5	14	0	7.06	100	100	40	***	***	***
MIRPURKHAS	10	52	1	9.99	96	100	10	45	0	11.4	98	100	104	***	***	***
NFEROZ	11	32	1	5.73	78	100	11	17	0	4.09	88	100	60	***	***	***
SANGHAR	16	44	0	5.33	86	95	16	23	0	3.62	96	94	55	***	***	***
SBENAZIRABAD	11	18	0	3.37	94	100	11	9	0	2.19	100	100	61	***	***	***
SHIKARPUR	10	50	0	10.51	92	100	10	16	0	4.37	94	100	54	***	***	***
SUKKUR	10	30	0	5.72	93	100	10	22	0	5.46	91	100	70	***	***	***
T.ALLAHYAR	5	27	0	10.49	89	100	5	17	0	8.58	76	100	34	***	***	***
THARPARKAR	11	46	0	8.47	91	100	11	17	0	4.07	94	100	98	***	***	***
THATTA	12	72	0	12.05	92	100	12	40	0	8.70	90	100	58	***	***	***
TMKHAN	4	20	0	9.38	90	100	4	17	0	10.3	94	100	12	***	***	***
UMERKOT	8	35	0	8.73	91	100	8	25	0	8.11	100	100	40	***	***	***
SINDH	5	353	4	6.84	90	100	353	682	3	4.97	92	98	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.

*** Data not Available ^^ Population data source: Federal EPI ** Non Polio rate is annualized up to week No. 40 ended on 05th October 2013

† Target ≥80%

‡ Zero reports and active surveillance averaged for last 4 weeks

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - K. PAKHTUNKHWA & FATA

District /Agency	AFP Surveillance Data 2012						AFP Surveillance Data 2013 ^{^^}									
	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	42	0	9.31	88	100	9	24	0	6.91	83	80	93	***	***	***
BANNU	8	36	0	9.03	92	100	8	15	1	4.56	93	100	43	***	***	***
BATAGRAM	3	16	0	11.77	63	100	3	5	0	4.78	100	75	31	***	***	***
BUNIR	7	52	1	15.51	87	100	7	29	0	11.46	83	100	42	***	***	***
CHARSADA	12	61	2	9.95	87	100	12	55	0	12.05	87	95	49	***	***	***
CHITRAL	4	13	0	7.33	92	100	4	5	0	3.67	100	60	27	***	***	***
DIKHAN	11	32	1	5.76	94	100	11	24	0	5.80	88	100	54	***	***	***
DIRLOWER	9	45	0	10.15	84	100	9	36	0	10.56	83	93	62	***	***	***
DIRUPPER	7	26	1	7.59	85	100	7	7	0	2.76	86	100	30	***	***	***
HANGU	4	12	0	6.30	67	100	4	7	0	4.78	57	57	23	***	***	***
HARIPUR	7	23	1	5.94	57	100	7	22	0	7.72	82	84	66	***	***	***
KARAK	5	25	1	9.19	80	100	5	15	0	7.46	87	92	28	***	***	***
KOHAT	8	38	1	9.53	87	100	8	17	1	5.36	82	87	40	***	***	***
KOHISTAN	4	8	0	3.55	75	100	4	2	0	1.32	100	50	31	***	***	***
LAKKIMRWT	6	62	3	19.84	79	100	6	29	0	12.68	90	100	57	***	***	***
MALAKAND	6	33	0	11.89	91	100	6	21	1	9.37	100	100	46	***	***	***
MANSEHRA	13	42	0	6.64	86	100	13	25	0	5.14	88	95	69	***	***	***
MARDAN	17	121	4	13.61	88	100	17	78	2	11.49	85	100	77	***	***	***
NOWSHERA	10	34	0	6.69	94	100	10	32	0	8.18	88	81	47	***	***	***
PESHAWAR	26	96	6	6.94	84	100	26	71	2	6.91	75	90	124	***	***	***
SHANGLA	5	15	1	5.31	87	100	5	10	0	4.93	80	100	35	***	***	***
SWABI	12	91	3	14.47	93	100	12	36	0	7.78	86	89	63	***	***	***
SWAT	15	43	0	5.57	84	100	15	22	0	3.70	82	100	48	***	***	***
TANK	3	15	0	9.58	67	100	3	9	0	7.47	56	86	27	***	***	***
TORGHAR	2	10	2	7.15	60	100	2	1	0	1.16	0	100	***	***	***	***
K- PAKHTUNKHWA	212	991	27	9.09	85	100	212	597	7	7.25	84	92	1212	***	***	***
Agency Wise Summary — FATA																
BAJOUR	7	40	5	9.75	73	100	7	25	0	9.05	60	56	28	***	***	***
FR Bannu	***	***	0	^	0	0	***	13	3		77	67	***	***	***	***
FR DIKhan	***	***	0	^	0	0	***	1	1		100		***	***	***	***
FR Kohat	***	***	0	^	0	0	***	1	0		0	100	***	***	***	***
FR Lakki	***	***	0	^	0	0	***	1	0		100	0	***	***	***	***
FR Peshawar	***	***	0	^	0	0	***	1	0		100	100	***	***	***	***
FR Tank	***	***	0	^	0	0	***	1	0		100		***	***	***	***
KHYBER	6	46	12	10.16	61	100	6	26	12	6.60	69	0	72	***	***	***
KURRAM	4	19	1	8.20	79	100	4	6	0	3.55	100	33	30	***	***	***
MOHMAND	4	19	1	8.92	84	100	4	11	0	6.44	64	10	26	***	***	***
ORAKZAI	2	5	0	4.37	60	100	2	3	0	3.41	100	100	33	***	***	***
WAZIR-N	4	15	1	7.92	87	100	4	68	11	28.66	91	67	24	***	***	***
WAZIR-S	4	5	1	2.02	80	100	4	7	0	4.58	86	20	18	***	***	***
FATA	6	32	149	7.95	72	100	32	164	27	9.84	80	38	231	***	***	***

* 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.

*** Data not Available ^^ Population data source: Federal EPI ** Non Polio rate is annualized up to week No. 40 ended on 05th October 2013 † Target ≥80%

‡ Zero reports and active surveillance averaged for last 4 weeks ¥ For received reports only

^ Target population not available ¥ For received reports only

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - BALOCHISTAN

District	AFP Surveillance Data 2012						AFP Surveillance Data 2013^^									
	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	1.95	0	100	1		0	0.00			12	***	***	***
BARKHAN	1	6	0	9.74	83	100	1	1	0	2.11	100	100	9	***	***	***
BOLAN	3	2	0	1.47	100	100	3	3	0	2.86	100	100	23	***	***	***
CHAGHAI	1	4	0	7.25	75	100	1	3	0	7.07	67	100	19	***	***	***
DBGUTI	2	5	0	4.51	80	100	2	2	0	2.34	100	100	9	***	***	***
GWADUR	2	4	0	3.67	100	100	2	5	0	5.96	80	100	11	75	75	100
HARNAI	1	1	0	2.15	100	100	1		0	0.00			10	***	***	***
JAFARABAD	5	29	0	11.48	93	100	5	18	0	8.75	83	87	38	***	***	50
JHALMAGSI	1	2	0	3.14	100	100	1	1	0	2.04	100		21	***	***	***
KABDULAH	5	32	0	6.58	72	100	5	7	0	3.52	86	100	26	73	73	75
KALAT	2	3	0	2.79	100	100	2		0	0.00			15	***	***	***
KECH	4	7	0	3.86	100	100	4	10	0	7.17	90	100	19	74	74	100
KHARAN	1	4	0	7.78	50	100	1	2	0	5.06	100		6	***	***	***
KHUZDAR	5	8	0	3.47	100	100	5	2	0	1.13	50	100	31	***	***	***
KOHLU	1	1	0	1.91	100	100	1		0	0.00			6	***	***	***
KSAIFULAH	2	2	0	2.07	100	100	2	1	0	1.35	100	100	14	***	***	***
LASBELA	4	13	0	7.03	92	100	4	6	0	4.22	100	100	40	89	78	67
LORALAI	2	3	0	2.81	67	100	2	3	0	3.65	100	50	19	100	72	100
MASTUNG	2	4	0	5.03	25	100	2	4	0	3.27	75	33	18	***	***	***
MUSAKHEL	1	4	0	5.50	75	100	1	3	0	5.37	100	50	10	***	***	***
NOSHKI	1	5	0	11.33	60	100	1	1	0	2.94	100	100	13	***	***	***
NSIRABAD	3	14	0	8.75	93	100	3	11	0	8.94	64	43	28	***	***	***
PANJGOUR	3		0	0.00			3	4	0	4.13	100	100	13	58	58	100
PISHIN	5	18	0	7.86	72	100	5	10	0	5.68	100	100	33	96	96	100
QUETTA	10	21	3	3.49	100	100	10	17	0	4.28	82	79	62	***	***	***
SHARANI	1	2	1	2.38	100	100	1	2	0	6.19	50	0	4	***	***	***
SIBI	2	6	0	7.08	50	100	2	2	0	3.07	100	100	20	***	***	***
WASHUK	1		0	0.00			1		0	0.00			9	***	***	***
ZHOB	2	4	0	3.43	75	100	2	8	0	7.79	75	50	15	***	***	***
ZIARAT	1		0	0.00			1	2	0	4.87	50	100	10	***	***	***
BALOCHISTAN	75	205	4	4.98	83	100	75	128	0	4.32	84	82	563	79	76	85

* 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.

*** Data not Available ^^ Population data source: Federal EPI ** Non Polio rate is annualized up to week No. 40 ended on 05th October 2013 † Target ≥80%

‡ Zero reports and active surveillance averaged for last 4 weeks † For received reports only

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA AJK, G-BALTISTAN & ISLAMABAD

District	AFP Surveillance Data 2012						AFP Surveillance Data 2013 ⁸									
	Minimum Ex-pected AFP Cases (Annual) *	Total Reported AFP Cases	Wild Polio Cases	Indicators			Minimum Ex-pected AFP Cases (Annual) *	Total Reported AFP Cases	Wild Polio Cases	Indicators			Zero Reporting †			Active Surveil-lance(%) † †
				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	Complete-ness (%) † †	Timeliness (%) † †	
District Wise Summary of Surveillance Data - AJK																
BAGH	3	3	0	1.90	100	100	3	9	0	7.42	89	100	15	***	***	***
BHIMBER	3	7	0	4.21	100	100	3	4	0	3.13	100	100	11	***	***	***
HATTIAN	2	1	0	1.12	100	0	2	1	0	1.46	100		8	***	***	***
HAVELI	1		0	0.00			1	1	0	2.14	0	100	6	***	***	***
KOTLI	6	5	0	1.62	100	100	6	4	0	1.68	100	100	18	***	***	***
MIRPUR	4	7	0	3.92	100	100	4	6	0	4.37	100	100	26	***	***	***
MUZAFFARABAD	5	5	0	1.90	80	80	5	6	0	2.96	100	100	16	***	***	***
NEELUM	1	1	0	1.39	100	100	1	2	0	3.61	100	100	6	***	***	***
POONCH	4	3	0	1.38	67	67	4	5	0	2.99	80	100	11	***	***	***
SUDNUTI	2	2	0	1.69	100	100	2	2	0	2.19	100	100	07	***	***	***
AJK	33	34	0	2.08	94	91	33	40	0	3.18	93	100	124	***	***	***
District Wise Summary of Surveillance Data - Gilgit-Baltistan																
ASTORE	1		0	0.00			1		0	0.00			5	***	***	***
DIAMIR	3	9	1	5.00	78	100	3	1	0	0.93	100	100	5	***	***	***
GHANCHE	1	2	0	2.86	100	100	1		0	0.00			7	***	***	***
GHIZER	2	2	0	2.26	100	100	2	1	0	1.47	0		7	***	***	***
GILGIT	2	3	0	2.92	100	100	2		0	0.00			12	***	***	***
HUNZANAGAR	1	1	0	1.38	100	100	1	1	0	1.80	100	100		***	***	***
SKARDU	3	4	0	2.34	100	100	3		0	0.00			6	***	***	***
G-BALTISTAN	14	21	1	2.71	90	100	14	3	0	0.56	67	100	42	***	***	***
District Wise Summary of Surveillance Data - Islamabad																
<i>Islamabad</i>	12	19	0	3.05	89	100	12	17	0	3.55	100	0	42	***	***	***

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 ** Non Polio rate is annualized up to week No. 40 ended on 05th October 2013 † Target >80% ‡ Zero reports and active surveillance averaged for last 4 weeks

REPORTED AFP CASES BY WEEK OF ONSET¹ — (Source RRL REC file 12/09/2013)

Province	Total AFP 2011	Total AFP	W 26 29 June 2013	W 27 06 July 2013	W 28 13 July 2013	W 29 20 July 2013	W 30 27 July 2013	W 31 03 Aug 2013	W 32 10 Aug 2013	W 33 17 Aug 2013	W 34 24 Aug 2013	W 35 31 Aug 2013	W 36 07 Sep 2013	W 37 14 Sep 2013	W 38 21 Sep 2013	W 39 28 Sep 2013
Punjab	2632	2407	41	45	47	44	37	53	30	51	51	41	48	49	49	26
Sindh	1415	1212	18	20	23	14	19	11	18	27	26	19	20	27	17	7
K-Pakhtunkhwa	207	968	4	8	8	2	5	4	14	6	12	8	12	18	9	7
FATA	341	128	5	3	3	6	3	2	3	8	9	2	1	5	2	1
Balochistan	45	196	1	2	0	1	2	0	0	2	2	2	0	1	0	0
AJK	15	34	0	1	0	0	0	0	0	0	0	0	1	0	0	0
Gilgit-Baltistan	26	21	0	1	0	0	1	0	0	1	0	1	0	0	0	0
Islamabad	1031	19	13	18	19	18	22	20	14	25	18	26	21	15	16	10
Pakistan	5712	4985	82	98	100	85	89	90	79	120	118	99	103	115	93	51

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

Province	2011	2012	2013	Last 12 months												
				Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	Jul	Aug [¶]	Sep [¶]	
Punjab	9	2	2	-	-	-	-	1	-	-	1	-	-	-	-	-
Sindh	33	4	3	-	-	-	1	-	1	-	-	-	-	1	-	-
K-Pakhtunkhwa	23	27	7	5	3	-	1	2	-	1	-	-	1	-	2	-
FATA	59 [^]	20	27	2	1	-	-	-	-	1	8	3	3	3	6	6
Balochistan	73	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-
AJK/ Gilgit-Baltistan	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Islamabad	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pakistan	198	58	39	8	4	-	2	3	1	2	9	4	4	8	6	6

[¶] Epidemiological week calendar, ^{¶¶} Data not complete

[^] Cases FR areas are included in FATA

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - AUGUST 2013 NIDs - SINDH

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District / town	Total target population for the campaign	Reported Coverage		Reported unvaccinated children					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
BADIN	322,313	326,734	101	22,552	68	22,620	145	16	161
DADU	320,363	329,993	103	15,651	30	15,681	231	24	255
GHOTKI	333,094	331,274	99	33,060	378	33,438	1,163	1	1,164
HYDERABAD	297,844	301,388	101	31,495	2,410	33,905	6,654	1,120	7,774
JACOBABAD	236,759	214,686	91	14,741	802	15,543	435	68	503
JAMSHORO	192,021	176,561	92	15,293	178	15,471	7,939	104	8,043
KAMBAR	284,410	277,277	97	23,438	26	23,464	3,807	18	3,825
KASHMORE	223,317	224,922	101	32,822	58	32,880	257	1	258
KHAIRPUR	439,463	452,641	103	35,386	252	35,638	939	7	946
KHIBALDIA	119,862	114,380	95	6,648	1,179	7,827	1,010	778	1,788
KHIBINQASIM	110,864	105,414	95	6,159	1,485	7,644	634	1,132	1,766
KHIGADDAP	220,401	185,064	84	5,017	993	6,010	1,981	727	2,708
KHIGIQBAL	164,855	162,170	98	14,881	2,459	17,340	2,124	507	2,631
KHIGULBERG	72,104	72,801	101	4,433	2,104	6,537	50	769	819
KHIJAMSHEED	137,878	132,963	96	5,140	2,351	7,491	883	1,243	2,126
KHIKAMARI	111,454	105,768	95	4,648	305	4,953	141	36	177
KHIKORANGI	145,435	144,587	99	12,685	867	13,552	180	385	565
KHILANDHI	193,004	188,852	98	10,051	1,555	11,606	1,632	1,232	2,864
KHILAYARI	91,749	89,149	97	8,309	824	9,133	762	335	1,097
KHILIAQAT	83,535	83,697	100	7,327	2,305	9,632	219	1,749	1,968
KHIMALIR	76,740	76,379	100	5,730	798	6,528	1,619	281	1,900
KHINNAZIM	72,605	73,602	101	5,890	2,766	8,656	302	1,319	1,621
KHINORTH	117,242	114,285	97	12,877	2,129	15,006	753	1,198	1,951
KHIORANGI	165,733	75,425	46	2,259	2,063	4,322	1,050	1,313	2,363
KHISADDAR	135,224	110,270	82	5,885	906	6,791	520	486	1,006
KHISHAHFAISAL	74,088	73,544	99	3,085	673	3,758	446	209	655
KHISITE	133,114	128,220	96	7,063	1,159	8,222	1,462	627	2,089
LARKANA	295,939	294,568	100	28,056	48	28,104	648	30	678
MATIARI	141,265	135,173	96	13,961	147	14,108	51	5	56
MIRPURKHAS	272,599	279,608	103	39,213	490	39,703	7,184	258	7,442
NFEROZ	268,954	265,602	99	15,827	36	15,863	1,382	9	1,391
SANGHAR	362,964	366,616	101	37,086	734	37,820	2,724	417	3,141
SBENAZIRABAD	303,691	304,905	100	19,480	116	19,596	168	-	168
SHIKARPUR	242,392	241,728	100	18,233	158	18,391	776	42	818
SUKKUR	262,412	265,809	101	19,132	87	19,219	250	14	264
T.ALLAHYAR	145,225	147,849	102	19,073	151	19,224	417	14	431
THARPARKAR	213,516	214,266	100	16,762	12	16,774	550	1	551
THATTA	277,401	291,056	105	17,891	121	18,012	2,033	64	2,097
TMKHAN	115,944	118,010	102	7,628	25	7,653	784	1	785
UMERKOT	197,037	198,977	101	22,032	80	22,112	2,541	19	2,560
SINDH	7,974,810	7,796,213	98	626,899	33,328	660,227	56,846	16,559	73,405

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - AUGUST 2013 NIDs - PUNJAB

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District	Total target population for the campaign	Reported Coverage		Reported unvaccinated children					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
ATTOCK	253,819	255,849	101	20,892	20	20,912	174	5	179
BAHAWALPUR	545,198	600,037	110	53,304	35	53,339	1,622	-	1,622
BAHWLNAGAR	436,062	465,822	107	38,615	93	38,708	4,674	-	4,674
BHAKKAR	233,639	251,024	107	19,003	37	19,040	3,888	23	3,911
CHAKWAL	183,169	188,286	103	10,936	50	10,986	442	5	447
CHINIOT	222,113	229,278	103	24,967	19	24,986	1,738	-	1,738
DGKHAN	502,867	511,689	102	41,080	164	41,244	3,436	71	3,507
FAISALABAD	1,188,067	1,261,721	106	122,370	135	122,505	23,858	35	23,893
GUJRANWALA	773,338	829,534	107	103,482	305	103,787	14,089	100	14,189
GUJRAT	396,235	411,814	104	34,056	6	34,062	1,813	4	1,817
HAFIZABAD	185,606	190,442	103	23,687	60	23,747	3,697	31	3,728
JHANG	408,652	422,390	103	39,650	98	39,748	3,785	62	3,847
JHELUM	168,175	169,574	101	14,117	-	14,117	334	-	334
KASUR	519,081	534,825	103	39,837	18	39,855	3,976	4	3,980
KHANEWAL	440,081	458,103	104	45,105	95	45,200	11,131	50	11,181
KHUSHAB	171,390	174,933	102	12,925	-	12,925	8,157	-	8,157
LAHORE	1,493,499	1,565,416	105	131,621	500	132,121	7,411	109	7,520
LAYYAH	263,332	268,753	102	21,471	9	21,480	1,294	-	1,294
LODHRAN	278,064	286,689	103	29,396	21	29,417	2,760	-	2,760
MBDIN	226,960	240,627	106	19,874	-	19,874	1,381	-	1,381
MIANWALI	213,107	230,123	108	17,231	50	17,281	1,404	36	1,440
MULTAN	721,871	758,984	105	90,652	131	90,783	6,704	21	6,725
MUZFARGARH	720,800	764,794	106	71,628	25	71,653	6,031	5	6,036
NANKANASAHIB	219,405	225,038	103	18,720	28	18,748	998	-	998
NAROWAL	267,430	291,319	109	30,605	29	30,634	5,866	2	5,868
OKARA	511,336	531,591	104	62,657	84	62,741	6,819	-	6,819
PAKPATTEN	280,189	290,544	104	29,699	8	29,707	1,725	8	1,733
RAJANPUR	355,176	340,397	96	31,952	56	32,008	1,322	-	1,322
RAWALPINDI	711,354	742,939	104	67,196	551	67,747	3,556	109	3,665
RYKHAN	797,557	837,877	105	70,121	142	70,263	1,589	3	1,592
SAHIWAL	393,141	409,131	104	44,809	-	44,809	1,628	-	1,628
SARGODHA	538,197	569,893	106	36,356	-	36,356	2,665	-	2,665
SHEIKHUPURA	540,222	304,163	56	25,007	4	25,011	5,090	4	5,094
SIALKOT	571,297	610,818	107	51,146	87	51,233	9,894	45	9,939
TTSINGH	326,122	368,392	113	34,955	18	34,973	3,076	3	3,079
VEHARI	465,104	494,802	106	49,286	23	49,309	5,639	15	5,654
PUNJAB	16,521,654	17,087,611	103	1,578,408	2,901	1,581,309	163,666	750	164,416

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - AUGUST 2013 NIDs - BALOCHISTAN/ GB

District	Total target population for the campaign	Reported Coverage		Reported unvaccinated children ¹¹					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
AWARAN	29,712	28,118	95	597	-	597	18	-	18
BARKHAN	25,593	24,816	97	766	16	782	21	2	23
BOLAN	69,742	60,902	87	2,651	-	2,651	80	-	80
CHAGHAI	52,393	35,451	68	775	130	905	5	35	40
DBUGTI	40,753	12,034	30	386	43	429	36	3	39
GWADUR	41,389	39,149	95	1,275	-	1,275	822	-	822
HARNAI	19,700	21,654	110	1,137	43	1,180	45	24	69
JAFARABAD	166,113	163,776	99	11,817	27	11,844	662	9	671
JHALMAGSI	25,867	23,478	91	516	8	524	9	8	17
KABDULAH	132,639	132,694	100	2,222	4,354	6,576	906	1,744	2,650
KALAT	71,817	68,260	95	3,186	105	3,291	194	9	203
KECH	147,489	126,465	86	3,741	11	3,752	30	11	41
KHARAN	24,008	26,328	110	156	-	156	60	-	60
KHUZDAR	115,475	120,364	104	5,609	-	5,609	93	-	93
KOHLU	22,090	20,049	91	124	-	124	4	-	4
KSAIFULAH	55,564	59,748	108	1,345	919	2,264	204	240	444
LASBELA	95,449	97,868	103	4,005	195	4,200	485	172	657
LORALAI	62,244	62,415	100	1,894	610	2,504	681	414	1,095
MASTUNG	53,617	47,813	89	813	264	1,077	355	197	552
MUSAKHEL	28,123	24,703	88	335	98	433	13	9	22
NOSHKI	33,986	34,220	101	814	100	914	107	11	118
NSIRABAD	116,547	122,646	105	8,433	185	8,618	455	31	486
PANJGOUR	52,804	22,112	42	736	-	736	7	-	7
PISHIN	111,040	103,630	93	2,315	3,445	5,760	1,770	1,249	3,019
QUETTA	475,166	481,007	101	15,001	5,389	20,390	3,886	1,764	5,650
SHARANI	16,878	16,465	98	348	260	608	102	79	181
SIBI	41,586	39,327	95	2,311	27	2,338	30	25	55
WASHUK	19,205	27,103	141	43	-	43	-	-	-
ZHOB	53,692	55,086	103	1,163	1,098	2,261	213	482	695
ZIARAT	23,442	22,776	97	1,132	355	1,487	285	162	447
BALOCHISTAN	2,224,123	2,120,457	95	75,646	17,682	93,328	11,578	6,680	18,258

Region	Total target population for the campaign	Reported Coverage		Reported unvaccinated children					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
ASTORE	16,409	17,184	105	441	5	446	-	-	-
DIAMER	45,323	45,891	101	440	-	440	3	-	3
GHANCHE	16,808	17,588	105	638	-	638	-	-	-
GHIZER	27,091	27,474	101	615	4	619	127	-	127
GILGIT	38,837	41,186	106	1,455	11	1,466	20	4	24
HUNZANAGAR ₁	16,278	16,580	102	1,001	10	1,011	181	10	191
SKARDU	54,340	54,826	101	316	1	317	-	-	-
G.BALTISTAN	215,086	220,729	103	4,906	31	4,937	331	14	345

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - AUGUST 2013 NIDs - KP / FATA

District	Total target population for the campaign	Reported Coverage		Reported unvaccinated children					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
ABOTABAD	198,281	195,726	99	17,167	601	17,768	10,631	558	11,189
BANNU	155,076	139,366	90	11,916	6,262	18,178	617	3,001	3,618
BATAGRAM	79,399	80,208	101	6,540	51	6,591	457	8	465
BUNER	176,890	181,601	103	17,033	63	17,096	1,710	-	1,710
CHARSADA	293,837	233,067	79	22,712	2,947	25,659	6,433	1,842	8,275
CHITRAL	69,940	67,552	97	4,541	-	4,541	1,746	-	1,746
DIKHAN	269,775	236,897	88	24,438	881	25,319	4,731	721	5,452
DIRLOWER	253,070	264,640	105	23,137	64	23,201	1,161	-	1,161
DIRUPPER	151,458	189,882	125	10,451	19	10,470	1,299	6	1,305
HANGU	115,850	108,673	94	7,307	333	7,640	1,249	251	1,500
HARIPUR	156,872	186,089	119	16,425	499	16,924	4,267	381	4,648
KARAK	112,904	117,549	104	11,267	1,275	12,542	8,145	753	8,898
KOHAT	190,762	192,716	101	14,705	1,429	16,134	1,591	379	1,970
KOHISTAN	78,456	78,400	100	3,045	33	3,078	47	28	75
LAKKIMRWT	146,509	145,666	99	14,258	4,634	18,892	958	2,496	3,454
MALAKAND	115,056	115,332	100	12,971	363	13,334	1,674	-	1,674
MANSEHRA	282,153	279,780	99	27,717	809	28,526	7,968	716	8,684
MARDAN	360,990	308,559	85	25,625	11,878	37,503	17,054	10,044	27,098
NOWSHERA	272,815	237,447	87	22,099	5,504	27,603	4,906	3,499	8,405
PESHAWAR	769,388	708,348	92	61,695	9,148	70,843	25,582	6,624	32,206
SHANGLA	128,777	147,071	114	6,642	8	6,650	703	3	706
SWABI	258,432	171,078	66	12,832	5,849	18,681	751	5,090	5,841
SWAT	410,830	411,524	100	30,371	62	30,433	4,402	14	4,416
TANK	76,966	75,890	99	3,841	110	3,951	523	93	616
TORGHAR	39,948	36,687	92	1,216	12	1,228	147	-	147
KP	5,164,434	4,909,748	95	409,951	52,834	462,785	108,752	36,507	145,259

Agency	Total target population for the campaign	Reported Coverage		Reported unvaccinated children					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
BAJOUR	229,103	208,146	91	21,234	71	21,305	3,478	-	3,478
FR BANNU	44,009	33,674	77	2,256	301	2,557	430	186	616
FR DIKHAN	14,639	12,204	83	1,015	73	1,088	101	11	112
FR KOHAT	20,257	19,830	98	966	-	966	220	-	220
FR LAKKI	8,182	7,086	87	642	124	766	71	30	101
FR PESHAWAR	12,719	3,784	30	123	15	138	123	5	128
FR TANK	10,568	10,202	97	596	-	596	70	-	70
KHYBER	228,980	127,513	56	15,176	680	15,856	4,126	213	4,339
KURRAM	138,689	106,507	77	14,754	30	14,784	4,828	16	4,844
MOHMAND	87,445	85,323	98	5,144	196	5,340	956	-	956
ORAKZI	66,268	30,836	47	1,798	2	1,800	183	-	183
WAZIR-N	162,177	-	0	-	-	-	-	-	-
WAZIR-S	118,827	9,621	8	154	6	160	1	-	1
FATA	1,141,863	654,726	57	63,858	1,498	65,356	14,587	461	15,048

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - AUGUST 2013 NIDs - AJK/ ISLAMABAD

Region	Total target population for the campaign	Reported Coverage		Reported unvaccinated children					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
BAGH	61,525	61,013	99	1,389	4	1,393	78	2	80
BHIMBER	70,615	70,837	100	2,811	14	2,825	82	14	96
HATTIAN	39,697	40,593	102	989	-	989	11	-	11
HAVELI	24,448	24,605	101	1,106	-	1,106	44	-	44
KOTLI	131,557	133,063	101	3,293	-	3,293	59	-	59
MIRPUR	73,551	75,258	102	3,457	-	3,457	-	-	-
MUZAFFARABAD	108,607	108,575	100	2,251	1	2,252	20	1	21
NEELUM	30,643	30,819	101	1,281	-	1,281	-	-	-
POONCH	92,111	92,046	100	1,812	16	1,828	-	-	-
SUDNUTI	48,802	48,413	99	1,112	19	1,131	28	12	40
AJK	681,556	685,222	101	19,501	54	19,555	322	29	351

Region	Total target population for the campaign	Reported Coverage		Reported unvaccinated children					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
CDA	131,737	116,199	88	8,438	277	8,715	1,431	152	1,583
ICT	120,495	115,756	96	9,575	167	9,742	1,549	90	1,639
ISLAMABAD	252,232	231,955	92	18,013	444	18,457	2,980	242	3,222

District	Total target population for the campaign	Reported Coverage		Reported unvaccinated children					
		Children vaccinated (n)	% Children vaccinated among total target population	Children recorded as unvaccinated			Children still unvaccinated from recorded unvaccinated		
				Not Available	Refusal	Total	Not Available	Refusal	Total
AJK	681,556	685,222	101	19,501	54	19,555	322	29	351
BALUCHISTAN	2,224,123	2,120,457	95	75,646	17,682	93,328	11,578	6,680	18,258
FATA	1,141,863	654,726	57	63,858	1,498	65,356	14,587	461	15,048
G.BALTISTAN	215,086	220,729	103	4,906	31	4,937	331	14	345
ISLAMABAD	252,232	231,955	92	18,013	444	18,457	2,980	242	3,222
KP	5,164,434	4,909,748	95	409,951	52,834	462,785	108,752	36,507	145,259
PUNJAB	16,521,654	17,087,611	103	1,578,408	2,901	1,581,309	163,666	750	164,416
SINDH ¹³	7,974,810	7,796,213	98	626,899	33,328	660,227	56,846	16,559	73,405
Grand Total	34,175,758	33,706,661	99	2,797,182	108,772	2,905,954	359,062	61,242	420,304

Enhanced Utilization of Market/Spot Surveys for Tracking Missed Children

Pakistan Polio Eradication Program conducts post campaign assessment after implementation of the national and sub-national immunization days. The objective of the post campaign assessment is to assess the quality of the vaccination during the supplementary immunization activities (SIAs) and find out the missed (unvaccinated) children and inadequately covered areas. Three methods are being used primarily for post campaign assessment, including Lot quality Assurance Sampling (LQAS), Market/ Spot Survey and 28 household survey (four clusters of seven households each in every assessed Union Council). The LQAS and Market surveys are performed by the WHO and UNICEF personnel while the 28 household survey by the independent monitors (hence termed as independent monitoring). It is important to mention that Independent Monitoring (IM) is not being done since December 2012 due to insecurity.

Since August 2013, the market/spot surveys were scaled up across the country with the intent of enhancing the number children to be assessed for vaccination status and making appropriate response in case missed children are found. For this purpose, additional surveyors were taken on board other than the WHO and UNICEF personnel. After the National Immunization Days (NIDs) implemented in August 2013, a total of 47,165 children were monitored in 366 tehsils and 145 districts of the country. This compares to 20,168 children monitored after the NIDs conducted April 2013, indicating more than two fold increase in the number of monitored children. Subsequently, 49,878 children were monitored in 363 tehsils and 139 districts during the NIDs conducted on 30th September to 2nd October.

Enhancing the scale of the market/spot survey has assisted better tracking of missed children through post campaign monitoring. The response activities include, tracking the areas with missed children, verifying and confirming the cause of missing every missed child and addressing the reasons. Response vaccination is also performed in the inadequately covered areas.

Results of the market/spot Survey for the Sep-Oct NIDs is summarized in the table below. The results indicate that Balochistan campaign was not of good quality as the province could not achieve 90% vaccination by finger marking and ratio of no team is also very high; 51% among missed children.

Province / Region	Total number of children monitored	Children found vaccinated		Number of Missed Children found	Reasons for Missed Children N (%)			
		N	%		No Team*	Not Available**	Refusal by parents/ family	Other
Punjab	14,380	13,939	97	441	112 (25)	205 (46)	9 (2)	115 (26)
Sindh	14,812	13,619	92	1,193	324 (33)	362 (37)	63 (6)	444 (37)
Balochistan	2,232	1,856	83	376	190 (51)	111 (30)	21 (6)	54 (14)
Khyber Pakhtunkhwa	10,907	10,189	93	718	225 (31)	209 (29)	33 (5)	251 (35)
FATA	3,146	2,880	92	266	126 (48)	65 (25)	2 (1)	73 (27)
Azad Jammu & Kashmir	3,037	2,918	96	119	49 (41)	41 (34)	3 (3)	26 (22)
Gilgit Baltistan	641	589	92	52	15 (29)	5 (10)	0 (0)	32 (62)
Islamabad	723	704	97	19	10 (53)	8 (42)	1 (5)	0 (0)
PAKISTAN	49,878	46,694	94	3,184	1051 (35)	1006 (34)	132 (4)	995 (31)

*Either the team did not reach the household or reached the household and missed due to performance reason

**Child not available during the campaign and missed children catch up day