

CURRENT EPIDEMIOLOGY OF POLIO IN PAKISTAN

As of 28th May 2014, 68 type-1 wild poliovirus (WPV) cases have been reported from nine districts/ towns/ tribal agencies/ FR areas (compared to 17 in 2013 from 10 districts/ towns/ tribal agencies/ FR areas). Moreover, WPV-1 has also been isolated from 31 environmental samples in 2014 (out of 108 samples for which results are available) from Karachi (Gaddap, Baldia and Gulshan-e-Iqbal towns) and Hyderabad in Sindh, Peshawar in Khyber Pakhtunkhwa, Lahore and Rawalpindi in Punjab and Quetta in Balochistan. Thirteen sabin-2 like poliovirus cases have been reported from FATA, (eight from North Waziristan agency and five from FR Bannu).

Following are the key epidemiological characteristics of polio cases reported in 2014 so far:

- 58 (85.3%) polio cases are younger than two years (median age: 14 months).
- Based on recall of parents, 56 (82.3%) cases did not receive any OPV dose (through routine vaccination and/ or campaigns).

It is worth mentioning that, 82% (76/93) polio cases in 2013 and all except five in 2014 have been reported together from Khyber Pakhtunkhwa and FATA, indicating that these regions remain the key polio reservoirs in the country. Situation in Karachi has also turned very concerning; all the three high risk towns (Gadap, Gulshan-e-Iqbal and Baldia) have the continuous presence of wild poliovirus during the last seven months (positive environmental samples and polio cases). This situation in Karachi correlates with deteriorating quality of supplementary immunization activities (SIAs) in 2013 and early 2014. Hyderabad district in Sindh also detected WPV-1 in recent environmental sample collected on 8th April after the seven consecutive negative samples since September 2013. Genetic analysis of the isolated virus indicates its linkage with the virus found in the environmental samples from Karachi. It is important to recall that, due the dynamic nature of its population; Karachi can act as an amplifier of the poliovirus.

No polio case have been detected so far in 2014 from Punjab. However, environmental samples (collected on 12th April) from three sites of Lahore has detected the wild poliovirus indicating a substantial immunity gap. In Rawalpindi; five consecutive environmental samples collected from two sites are negative for the presence of wild poliovirus after the first positive sample collected on 28th January this year. The initial two environmental sample collected from the capital territory of Islamabad on 21st March and 24th April were turned negative for wild poliovirus.

Balochistan province did not report any polio case during 2013, However, isolation of wild poliovirus from environmental sample collected on 28th December and two positive samples collected on 20th and 31st March this year from two

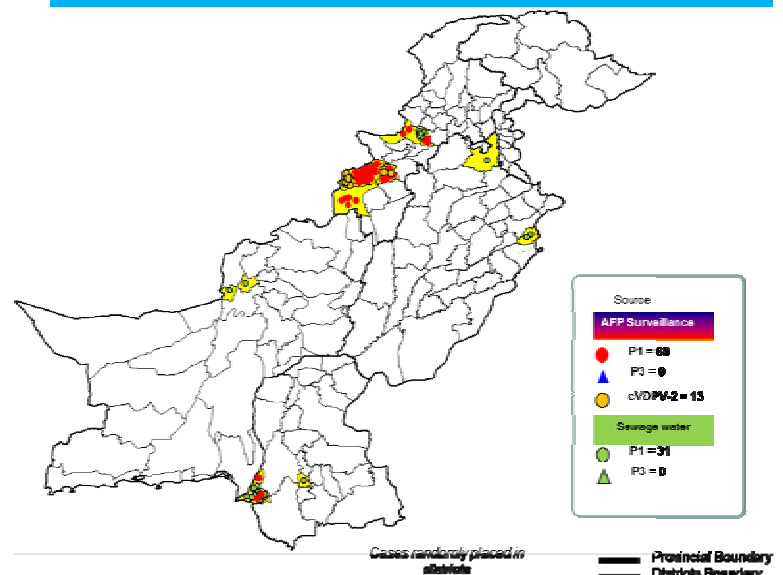
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different sites in Quetta is of great concern. The genetic analysis of the isolated virus indicates missed viral circulation for more than a year; which in turn indicates missed populations by the Supplementary Immunization Activities (SIAs) and AFP surveillance. The ongoing sub-optimal quality of SIAs in Quetta Block complements the findings of the genetic analysis. An impending polio outbreak cannot be ruled out in the region.

It is important to highlight that environmental samples from Faisalabad and Sukkur have been negative for over a year.

In conclusion; Pakistan is reporting more than 80% of the global polio cases in 2014 so far, and poliovirus circulation in the country can be seen over a wider geographically area (compared to the first half of 2013). Keeping in view that the country is currently entering the high transmission season; it is of utmost importance to immediately gain consistent access to all the children in North and South Waziristan agencies, FR Bannu, Bara and other unreached areas of FATA by taking on-board all the stakeholders and strengthening Civil Military Coordination. The population on the move from North & South Waziristan and Khyber agencies is to be tracked and vaccinated on the transit points and at their destination in the adjacent districts of Khyber Pakhtunkhwa. Furthermore, consistent access to all the children in reservoirs of central Khyber Pakhtunkhwa and Karachi by ensuring security arrangements to restore and maintain the confidence and sense of security among the frontline workers will act as key to stopping wild poliovirus circulation during the upcoming SIAs.

Map-1: Poliovirus Isolates 2014 (As of 28-05-2014)



News Briefs and Events

- Meeting of the Technical Advisory Group (TAG) on poliomyelitis eradication for Pakistan will be convened on 2-3 June 2014 at Islamabad
- Vaccination activities are in progress in response to positive environmental isolates in Hyderabad and Lahore; three vaccination passages in Lahore and one in Hyderabad have been completed.

Special SIAs with Enhanced Operational & Security Arrangements in selected Districts of KPK

Pakistan has been confronted by an unprecedented targeted violence against the polio program since December²2012, when the country was about to step-up its efforts for what was expected to be the "last low season". Unfortunately, there has been an upsurge in the number of polio cases since then, but mainly restricted to the areas where there are significant barriers between the vaccinators and the children. While North Waziristan, South Waziristan and Bara in FATA have absolute access limitations for vaccination, Peshawar in Khyber Pakhtunkhwa and Karachi in Sindh have serious limitations despite being generally accessible for vaccinators. After continued killing of vaccinators and guarding security personnel during the campaigns, the security planning became an innate segment of the SIAs arrangements, in addition to operations and communications. The police and other law enforcement agencies being new to the SIAs setting, could not adjust immediately. This led to cancellation of multiple SIAs and the implemented SIAs were conducted over a period of 8-20 days, almost losing their efficacy. A substantial number of children were being missed as indicated by the reported and monitoring data.

A proactive approach of conducting SIAs in one day was successfully utilized in the selected districts of central Khyber Pakhtunkhwa (Peshawar, Swabi, Mardan and Charsadda) and the high risk UCs of Karachi in Sindh using enhanced operational and security arrangements.

It is important to note that a substantial scale vaccination rounds are conducted in selected districts of central Khyber Pakhtunkhwa for the first time in 2014 (More than 10 million OPV doses have been given since 2nd February) without any significant security incident due to comprehensive arrangements led by the Police and Law Enforcement Agencies. High commitment from the political and administrative leadership was also witnessed. The table below indicates the scale of the vaccination rounds and the number of children reached in districts of central Khyber Pakhtunkhwa.

Vaccination round	Union Councils targeted for Vaccination	Estimated target children < 5 years	Children vaccinated		Registered children remained un-vaccinated at the end of the vaccination round	
			Number	Percentage	Number	Percentage
PESHAWAR						
Feb 02	45	438,286	365,625	83	22,327	5.1
Feb 09	60	519,843	447,189	86	26,468	5.1
Feb 16	77	635,675	546,099	86	37,915	6.0
Feb 22	77	635,675	560,881	88	37,289	5.9
Mar 01	95	741,259	650,405	88	44,837	6.0
Mar 09	95	741,259	642,217	87	49,265	6.6
Mar 15	95	741,259	640,572	86	50,250	6.8
Mar 22	96	745,163	651,501	87	52,314	7.0
Mar 30	96	754,383	649,887	87	50,633	6.8
April 06	96	754,383	648,964	87	49,354	6.6
April 13	96	754,383	645,716	87	48,948	6.6
April 20	96	746,163	643,645	86	49,927	6.7
SWABI						
April 06	56	258,432	221,716	86	17,509	6.8
April 13	56	258,432	204,050	80	19,019	7.4
April 19	56	258,432	213,235	84	20,468	8.1
April 27	56	258,432	232,071	90	11,608	4.5
MARDAN						
April 06	79	381,307	299,752	79	19,832	5.2
April 13	79	381,307	304,921	80	23,519	6.2
April 19	79	381,307	320,601	84	26,162	6.9
April 27	79	381,307	310,258	81	28,401	7.4
CHARSADDA						
April 06	51	273,848	225,444	82	19,700	7.2
April 13	50	272,099	220,432	80	22,182	8.1
April 19	51	273,848	230,630	85	24,248	8.9
April 27	51	273,848	250,728	92	10,918	4.0

Global Update (as of 28th May 2014)

85 polio cases have been reported in 2014, 75 from endemic countries (Pakistan-68, Afghanistan-04, Nigeria-03) and 10 from non-endemic countries (Cameroon-03, Equatorial Guinea-03, Iraq-02, Ethiopia-01, Syria-01)

416 polio cases were reported in 2013 as compared to 223 in 2012, 160 from endemic countries and 256 from non-endemic countries. The case count by country is: Pakistan-93, Afghanistan-14, Nigeria-53, Somalia-194, Kenya-14, Ethiopia-09, Cameroon-04, Syria-35.

For details, please visit: www.polioeradication.org

Key AFP Surveillance Indicators 2014

Overall AFP surveillance indicators in year 2014 so far are above the international standards at the national level as well as in major provinces and majority of districts, towns and tribal agencies (data on pages 3-8).

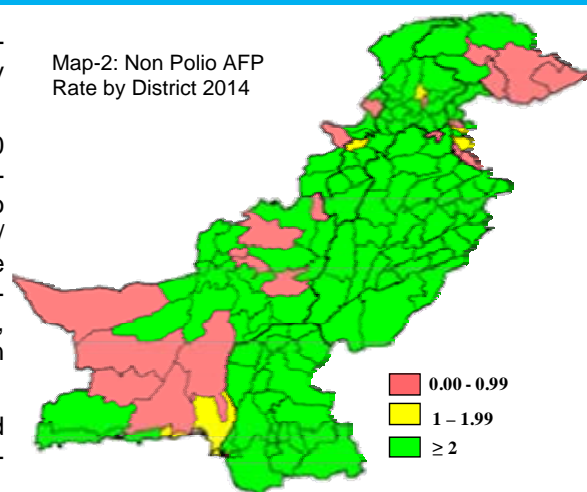
At the national level the annualized non polio AFP rate is 4.63 per 100,000 children below 15 years of age. All provinces and regions except Gilgit Baltistan and AJK have the required rate of 2 or above. The indicator is also above the international standards in 78.5% (128/163) of the districts/towns/agencies (map-2). Majority of districts with sub-optimal non-polio AFP rate have small populations and hence low number of expected AFP cases. However, Saddar, Site, Kemari, Korangi, Landhi, Lyari and Malir towns in Karachi, Kurram agency in FATA, Kotli and Poonch in AJK and Khuzdar in Balochistan have significant number of expected cases.

Eighty three percent of the districts/towns/agencies (114/137) which reported AFP cases had adequate stool specimen collection rate above the international standard of 80%.

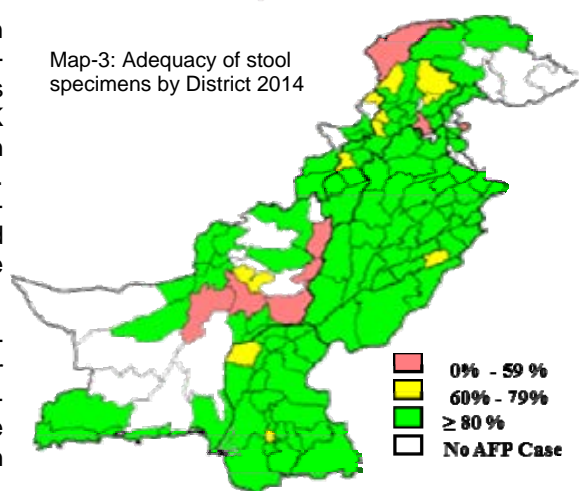
Isolation of non-polio enterovirus (NPEV) is an indicator of reverse cold chain management. At the national level the NPEV isolation rate from stool specimens of AFP cases as well as their close contacts is 16% with all provinces and regions having NPEV isolation rate of at least 10% or above except AJK (4%) and GBaltistan (0%). Seventy two percent of districts had NPEV isolation rate of 10% or above (among those with at least 10 stool samples collected). Majority of the districts with no NPEV isolation have few AFP cases and specimens. Of concern are districts Tharparkar, Noshero Feroz and S Benazirabad in Sindh and Khushab in Punjab where there is no isolation of NPEV, vaccine virus or wild poliovirus despite good number of stool specimens collected.

All the districts/ towns/ agencies/ areas with sub-optimal surveillance indicators especially those which have persistent low indicators need to review their AFP surveillance system for the causes of low performance and take corrective actions accordingly. Actions to improve the situation and maintaining the status in well performing districts should be part of the district specific plan and should be regularly reviewed.

Map-2: Non Polio AFP Rate by District 2014



Map-3: Adequacy of stool specimens by District 2014



Province-wise AFP Surveillance Data for 2013 & 2014

Province/Region	AFP Surveillance Data 2013						AFP Surveillance Data 2014 [§]									
	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	842	2300	7	5.44	92	100	857	653	0	4.25	93	100	2010	100	94	100
SINDH	359	967	10	5.30	91	100	366	325	5	4.89	94	95	1507	92	88	88
FATA	35	312	65	10.80	81	51	35	112	47	8.65	89	***	231	32	30	97
BALUCHISTAN	76	198	0	5.11	85	100	77	57	0	4.11	86	63	563	87	77	79
AJK	33	52	0	3.13	92	100	34	10	0	1.65	90	100	124	100	100	100
ISLAMABAD	13	17	0	2.68	100	***	13	***	***	***	***	***	42	***	***	***
GBALTISTAN	14	8	0	1.12	88	100	15	3	0	1.15	100	100	42	100	100	100
KHYBER PAKH-TUNKHWA	211	927	11	8.67	83	98	214	248	9	6.22	86	56	1212	15	11	71
TOTAL	1583	4781	93	5.83	89	96	1611	1408	59	4.63	91	79	5731	¥75	¥71	¥91

* 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. 18 ended on 3rd May 2014 *** Data not Available ‡ Zero reports and active surveillance averaged for last 4 weeks † Target ≥80% O Indicator below target § Population data source: Federal EPI ¥ For received reports only

FEEDBACK

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DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - PUNJAB

District	AFP Surveillance Data 2013						AFP Surveillance Data 2014 ⁴									
	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 (%)†‡	
ATTOCK	14	33	0	4.76	97	100	14	7	0	2.77	86	100	77	100	96	100
BAHAWALPUR	29	68	0	4.66	94	100	30	18	0	3.38	100	100	73	100	95	100
BAHWLNAGAR	23	83	0	7.25	93	100	23	18	0	4.31	100	100	90	100	95	100
BHAKKAR	12	42	0	6.94	100	100	12	11	0	4.98	100	100	14	100	98	100
CHAKWAL	11	38	0	6.64	100	100	12	11	0	5.26	100	100	18	100	100	100
CHINIOT	10	32	0	6.16	91	100	11	7	0	3.69	100	100	12	100	100	100
DGKHAN	20	123	0	12.14	89	99	21	40	0	10.81	95	100	56	100	88	100
FAISALABAD	61	106	0	3.48	82	100	62	28	0	2.51	93	100	37	100	100	100
GUJRANWALA	40	107	0	5.38	94	100	40	34	0	4.69	94	100	47	100	87	100
GUJRAT	22	64	0	5.76	97	100	23	12	0	2.96	92	100	118	100	95	100
HAFIZABAD	9	31	0	6.81	97	100	9	9	0	5.41	100	100	54	100	84	100
JHANG	20	60	0	5.95	83	100	21	8	0	2.17	100	100	20	100	100	100
JHELUM	10	39	0	7.78	97	100	10	12	0	6.56	100	100	72	100	100	100
KASUR	27	66	0	4.88	97	100	28	20	0	4.05	100	100	82	100	100	100
KHANEWAL	23	73	0	6.33	88	100	23	24	0	5.70	88	100	30	100	93	100
KHUSHAB	10	17	0	3.53	94	100	10	5	0	2.84	100	100	16	100	100	100
LAHORE	79	129	0	3.25	94	100	81	45	0	3.11	91	100	42	100	87	100
LAYYAH	13	36	0	5.34	89	100	14	8	0	3.25	88	100	37	100	100	100
LODHRAN	14	52	0	7.69	96	100	14	14	0	5.67	100	100	44	100	100	100
MBDIN	12	41	1	6.61	95	100	12	12	0	5.44	100	100	61	100	100	100
MIANWALI	12	50	1	8.41	94	100	12	12	0	5.64	100	100	17	96	90	100
MULTAN	36	104	0	5.79	92	100	37	37	0	5.64	89	100	46	98	98	100
MUZFARGARH	33	121	0	7.38	90	100	33	26	0	4.35	81	100	48	100	82	100
NANKANASAHIB	15	32	0	4.38	97	100	15	10	0	3.75	90	100	29	100	96	100
NAROWAL	13	37	0	5.55	97	100	14	8	0	3.29	100	100	84	100	90	100
OKARA	25	72	0	5.80	90	100	25	21	0	4.63	90	100	39	100	83	100
PAKPATTEN	14	32	0	4.43	81	100	15	11	0	4.17	73	100	50	100	100	100
RAJANPUR	14	74	0	10.92	89	100	14	32	0	12.94	97	100	39	100	85	100
RAWALPINDI	39	71	0	3.65	87	100	40	21	0	2.96	76	100	120	100	95	100
RYKHAN	38	81	0	4.24	93	100	39	35	0	5.02	94	100	80	100	84	100
SAHIWAL	20	52	1	5.13	88	100	20	8	0	2.21	88	100	39	100	88	100
SARGODHA	28	54	0	3.84	93	100	29	21	0	4.09	95	100	159	100	100	100
SHEIKUPURA	24	69	1	5.78	91	100	24	19	0	4.42	89	100	89	100	95	100
SIALKOT	30	67	0	4.41	97	100	31	17	0	3.06	100	100	131	100	90	100
TTSINGH	17	61	3	6.55	85	100	18	16	0	5.04	94	100	14	100	99	100
VEHARI	24	83	0	6.91	94	100	24	16	0	3.65	94	100	26	100	100	100
PUNJAB	842	2300	7	5.44	92	100	857	653	0	4.25	93	100	2010	¥100	¥94	¥100

⁴ 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
 * Minimum Expected AFP Cases (Annual) is annualized up to week No. 18 ended on 3rd May 2014
 ** Non Polio rate is annualized up to week No. 18 ended on 3rd May 2014
 *** Data not Available
 † Zero reports and active surveillance averaged for last 4 weeks
 ‡ Target ≥80% ○ Indicator below target \$ Population data source: Federal EPI ¥ For received reports only

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - SINDH

Town/District	AFP Surveillance Data 2013						AFP Surveillance Data 2014 ⁵										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 (%) † ‡		
Town Wise Summary — Karachi																	
BALDIA	6	12	2	3.27	58	100	6	4	1	2.68	100	100	20	***	***	***	
BINQASIM	5	13	2	4.54	85	100	5	2	0	2.26	100	***	22	100	88	***	
GADAP	4	34	2	12.92	71	97	4	10	2	10.1	90	75	12	100	100	100	
GULSHAN-E-IQBAL	8	17	1	3.81	100	100	9	6	0	3.91	83	100	20	100	91	71	
GULBERG	5	6	0	2.20	100	100	6	4	0	4.01	100	100	14	100	100	100	
JAMSHEED	9	10	0	2.22	80	90	9	5	0	3.05	80	***	18	100	80	80	
KAMARI	6	8	0	2.71	63	100	6	1	0	0.93	100	***	11	100	100	100	
KORANGI	8	10	0	2.66	80	100	8	1	0	0.73	0	100	13	***	***	***	
LANDHI	9	12	1	2.35	100	100	10	2	0	1.17	100	***	22	***	***	***	
LAYARI	6	7	0	2.19	57	100	7	2	0	1.71	100	***	15	***	***	***	
LIAQATABAD	8	10	0	2.56	100	100	8	7	0	4.91	100	100	17	***	***	***	
MALIR	6	13	0	4.26	100	100	6	1	0	0.90	100	***	13	100	85	75	
N NAZIMABAD	6	7	0	2.34	100	100	6	5	0	4.59	80	100	14	100	100	***	
NORTH KARACHI	8	16	0	3.89	100	100	8	3	0	2.00	100	100	16	***	***	***	
ORANGI	11	25	0	4.58	92	96	11	6	1	2.51	100	100	21	100	100	100	
SADDAR	9	9	0	1.92	89	100	10	1	0	0.58	100	***	21	100	100	100	
SHAHFAISAL	5	11	0	4.31	100	100	5	2	0	2.15	100	***	11	100	100	***	
SITE	7	13	0	3.69	92	100	7	1	0	0.78	100	***	16	100	100	100	
District Wise Summary— Sindh																	
KARACHI	128	233	8	3.46	87	99	130	63	4	2.53	92	86	296	100	95	92	
BADIN	12	45	0	7.25	98	100	13	11	0	4.86	100	100	54	***	***	57	
DADU	13	27	1	4.11	93	100	13	18	0	7.79	100	100	64	***	***	100	
GHOTKI	12	73	0	12.25	92	100	12	14	0	6.44	100	100	50	***	***	***	
HYDERABAD	16	36	0	4.54	86	100	16	14	0	4.83	86	100	30	***	***	***	
JACOBABAD	8	30	0	7.60	90	100	8	9	0	6.24	89	100	45	***	***	***	
JAMSHORO	7	24	0	7.21	79	100	7	11	0	9.05	82	100	37	***	***	***	
KAMBAR	11	32	0	5.72	91	100	11	12	0	5.87	75	100	52	***	***	***	
KASHMORE	7	14	1	3.57	86	100	7	4	0	3.01	75	100	39	***	***	***	
KHAIRPUR	18	60	0	6.74	98	100	18	22	0	6.77	95	86	102	***	***	***	
LARKANA	12	28	0	4.61	100	96	12	13	0	5.87	100	100	52	***	***	***	
MATIARI	5	21	0	8.00	100	100	5	6	0	6.26	100	100	40	***	***	***	
MIRPURKHAS	10	68	0	13.08	99	100	11	30	0	15.8	93	100	104	94	91	80	
NFEROZ	11	22	0	4.00	91	100	11	7	0	3.48	100	100	60	***	***	***	
SANGHAR	17	32	0	3.81	84	100	17	11	0	3.59	91	100	55	87	84	91	
SBENAZIRABAD	11	14	0	2.58	100	100	11	5	0	2.52	100	50	61	100	100	100	
SHIKARPUR	10	25	0	5.16	92	100	10	16	0	9.05	94	100	54	***	***	***	
SUKKUR	11	26	0	4.87	92	96	11	13	0	6.68	100	100	70	96	94	100	
T.ALLAHYAR	5	21	0	8.01	81	100	5	6	0	6.27	83	100	34	100	100	***	
THARPARKAR	11	27	0	4.88	93	100	11	9	0	4.46	100	100	98	100	85	***	
THATTA	12	54	0	8.88	91	100	12	13	0	5.86	100	100	58	57	57	84	
TMKHAN	4	25	0	11.51	96	100	4	7	0	8.83	100	100	12	***	***	***	
UMERKOT	8	30	0	7.35	93	100	8	11	0	7.39	91	100	40	***	***	***	
SINDH	359	967	10	5.30	91	99	366	325	4	4.89	94	95	1507	¥92	¥88	¥88	

* 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. 18 ended on 3rd May 2014 *** Data not Available ‡ Zero reports and active surveillance averaged for last 4 weeks † Target ≥80% O Indicator below target \$ Population data source: Federal EPI ¥ For received reports only

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - KHYBER PAKHTUNKHWA & FATA

District /Agency	AFP Surveillance Data 2013						AFP Surveillance Data 2014 [§]										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 Speci-	60 Day Follow Up (%) †				Non-Polio AFP Rate **	Cases with Ade- quate Speci-	60 Day Follow Up (%) †	Number of Sites	Completeness (%) † ‡	Timeliness (%)		
District Wise Summary — Khyber-Pakhtunkhwa																	
ABOTABAD	9	34	0	7.40	79	94	9	16	0	9.55	94	80	93	64	60	***	
BANNU	8	25	1	6.07	92	100	8	12	5	4.85	75	67	43	***	***	***	
BATAGRAM	3	10	0	7.23	100	50	3	4	0	7.92	75	***	31	***	***	***	
BUNIR	7	47	0	14.04	85	100	7	11	0	9.00	100	100	42	50	50	***	
CHARSADA	12	76	0	12.59	87	100	12	12	0	5.45	67	***	49	***	***	***	
CHITRAL	4	10	0	5.54	100	50	4	3	0	4.56	67	***	27	***	***	***	
DIKHAN	11	38	0	7.22	89	100	11	6	0	3.12	83	100	54	100	7	58	
DIRLOWER	9	43	0	9.53	81	100	9	7	0	4.25	86	100	62	***	***	***	
DIRUPPER	7	15	0	4.47	80	93	7	3	0	2.45	67	***	30	***	***	***	
HANGU	4	16	0	8.25	63	88	4	2	0	2.83	100	***	23	***	***	***	
HARIPUR	8	30	0	7.96	83	100	8	7	0	5.09	43	100	66	84	81	***	
KARAK	5	26	0	9.78	85	100	5	2	0	2.06	100	***	28	***	***	***	
KOHAT	7	33	1	9.23	85	76	7	10	0	7.90	90	***	40	***	***	***	
KOHISTAN	4	5	0	2.49	60	80	4	5	0	6.83	80	***	31	***	***	***	
LAKKIMRWT	6	58	0	19.40	86	98	6	8	0	7.33	88	88	57	***	***	***	
MALAKAND	6	27	1	9.21	100	100	6	7	0	6.79	100	83	46	***	***	***	
MANSEHRA	11	44	0	8.31	86	93	11	11	0	5.69	91	***	69	***	***	***	
MARDAN	18	104	2	11.65	88	100	18	35	0	10.95	94	100	77	***	***	***	
NOWSHERA	10	48	0	9.28	88	48	11	17	0	9.00	94	40	47	***	***	***	
PESHAWAR	26	125	5	9.30	67	95	26	42	4	8.07	79	94	124	82	82	84	
SHANGLA	5	13	0	4.84	85	85	5	2	0	2.04	100	***	35	***	***	***	
SWABI	12	56	1	8.99	86	66	12	16	0	7.16	100	***	63	***	***	***	
SWAT	16	29	0	3.69	79	86	16	8	0	2.79	75	100	48	***	***	***	
TANK	3	13	0	8.98	62	92	3	2	0	3.78	100	100	27	***	***	***	
TORGHAR	2	2	0	1.75	0	100	2	0	0	0.00	-	-	***	***	***	***	
K- PAKHTUNKHWA	211	927	11	8.67	83	98	214	248	9	6.22	86	56	1212	¥15	¥11	¥71	
Agency Wise Summary — FATA																	
BAJOUR	7	42	0	11.49	64	100	7	7	0	5.25	71	***	28	***	***	***	
FR Bannu	0	24	7	90.83	88	8	0	9	1	43.91	56	***	***	***	***	***	
FR DIKhan	1	2	1	3.70	100	0	1	0	0	0.00	-	-	***	***	***	***	
FR Kohat	0	2	0	8.91	50	100	0	0	0	0.00	-	-	***	94	94	100	
FR Lakki	0	2	0	31.37	100	0	0	1	0	42.97	100	***	***	***	***	***	
FR Peshawar	1	3	0	8.83	100	100	1	0	0	0.00	-	-	***	91	94	***	
FR Tank	0	1	0	5.09	100	0	0	0	0	0.00	-	-	***	***	***	***	
KHYBER	6	58	20	9.98	64	100	7	9	1	6.84	89	***	72	36	36	***	
KURRAM	4	6	0	2.69	100	33	5	0	0	0.00	-	-	30	***	***	***	
MOHMAND	4	14	0	6.33	71	57	4	2	0	2.67	50	***	26	***	***	100	
ORAKZAI	2	5	0	4.30	100	100	2	2	0	4.71	100	***	33	100	82	86	
WAZIR-N	4	136	35	33.33	91	13	4	75	40	44.13	95	***	24	100	82	***	
WAZIR-S	4	17	2	7.43	76	6	4	7	4	4.07	100	***	18	***	***	100	
FATA	6	35	312	65	10.80	81	51	35	112	46	8.65	89	***	231	¥32	¥30	¥97

* 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. 18 ended on 3rd May 2014 *** Data not Available † Zero reports and active surveillance averaged for last 4 weeks ‡ Target ≥80% O Indicator below target § Population data source: Federal EPI ¥ For received reports only

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA - BALOCHISTAN / GILGIT BALTISTAN

District	AFP Surveillance Data 2013						AFP Surveillance Data 2014 ^{\$}									
	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 (%)+ † ‡	
AWARAN	1	1	0	1.92	100	100	1	0	0	0.00	-	-	12	***	***	***
BARKHAN	1	3	0	4.78	67	100	1	1	0	4.37	0	100	9	89	67	100
BOLAN	3	5	0	3.60	100	100	3	2	0	3.94	50	50	23	***	***	***
CHAGHAI	1	3	0	5.34	67	100	1	0	0	0.00	-	-	19	***	***	***
DBUGTI	2	5	0	4.43	80	80	2	1	0	2.43	0	***	9	***	***	***
GWADUR	2	6	0	5.40	83	100	2	2	0	4.93	100	***	11	83	83	100
HARNAI	1	1	0	2.11	100	0	1	0	0	0.00	-	-	10	***	***	***
JAFARABAD	5	25	0	9.34	84	100	5	10	0	10.66	90	43	38	100	58	50
JHALMAGSI	1	1	0	1.54	100	100	1	1	0	4.22	100	***	21	100	68	100
KABDULAH	5	10	0	3.81	70	100	5	3	0	3.13	100	100	26	81	81	80
KALAT	2	2	0	1.83	100	0	2	1	0	2.50	0	***	15	***	***	***
KECH	4	11	0	5.96	91	100	4	3	0	4.46	100	100	19	79	79	100
KHARAN	1	3	0	5.73	100	100	1	1	0	5.23	100	***	6	***	***	***
KHUZDAR	5	3	0	1.28	67	100	5	0	0	0.00	-	-	31	***	***	***
KOHLU	1	***	0	***	***	***	1	0	0	0.00	-	-	6	***	***	***
KSAIFULAH	2	3	0	3.05	67	100	2	0	0	0.00	-	-	14	88	78	38
LASBELA	4	8	0	4.25	100	100	4	1	0	1.46	100	***	40	***	***	***
LORALAI	2	6	0	5.52	100	100	2	2	0	5.04	100	100	19	***	***	100
MASTUNG	2	6	0	4.94	67	17	2	1	0	3.39	100	***	18	***	***	***
MUSAKHEL	1	3	0	4.06	100	100	2	1	0	3.70	0	100	10	***	***	100
NOSHKI	1	1	0	2.23	100	100	1	1	0	6.10	100	100	13	***	***	100
NSIRABAD	3	20	0	12.28	80	100	3	10	0	16.82	90	100	28	***	***	50
PANJGOUR	3	5	0	3.90	100	100	3	0	0	0.00	-	-	13	58	58	100
PISHIN	5	16	0	6.87	100	100	5	3	0	3.53	100	100	33	97	97	100
QUETTA	11	28	0	5.33	86	96	11	7	0	3.65	100	25	62	***	***	58
SHERANI	1	4	0	9.36	50	100	1	0	0	0.00	-	-	4	100	100	25
SIBI	2	4	0	4.63	100	100	2	4	0	12.70	75	100	20	***	***	50
WASHUK	1		0	0.00	***	***	1	0	0	0.00	-	-	9	***	***	***
ZHOB	2	12	0	9.26	83	100	2	2	0	4.61	100	***	15	80	78	100
ZIARAT	1	3	0	5.52	33	67	1	0	0	0.00	-	-	10	***	***	***
BALOCHISTAN	76	198	0	5.11	85	94	77	57	0	4.11	86	63	563	¥87	¥77	¥79

District Wise Summary of Surveillance Data - Gilgit-Baltistan																
ASTORE	1	1	0	1.78	100	100	1	0	0	0.00	-	-	5	100	100	100
DIAMIR	3	1	0	0.70	100	100	3	1	0	1.92	100	100	5	100	100	100
GHANCHE	1	0	0	0.00	-	-	1	0	0	0.00	-	-	7	100	100	100
GHIZER	2	5	0	5.55	80	100	2	1	0	3.04	100	***	7	100	100	100
GILGIT	2	0	0	0.00	-	-	2	0	0	0.00	-	-	12	100	100	100
HUNZANAGAR	1	1	0	1.36	100	100	1	1	0	3.72	100	100	***	100	100	100
SKARDU	3	0	0	0.00	-	-	4	0	0	0.00	-	-	6	100	100	100
G-BALTISTAN	14	8	0	1.12	88	100	15	3	0	1.15	100	100	42	¥100	¥100	¥100

* 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. 18 ended on 3rd May 2014
 ‡ Zero reports and active surveillance averaged for last 4 weeks
 † Target ≥80% O Indicator below target \$ Population data source: Federal EPI ¥ For received reports only

DISTRICT WISE SUMMARY OF SURVEILLANCE DATA AJK & ISLAMABAD

District	AFP Surveillance Data 2013						AFP Surveillance Data 2014 [§]										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 (%) † ‡		
District Wise Summary of Surveillance Data - AJK																	
BAGH	3	12	0	7.48	83	100	3	0	0	0.00	-	-	15	100	100	100	
BHIMBER	3	6	0	3.55	100	100	3	0	0	0.00	-	-	11	100	100	100	
HATTIAN	2	2	0	2.21	100	100	2	0	0	0.00	-	-	8	100	100	100	
HAVELI	1	1	0	1.62	0	100	1	2	0	8.86	50	100	6	100	100	100	
KOTLI	6	4	0	1.27	100	100	6	1	0	0.87	100	***	18	100	100	100	
MIRPUR	4	7	0	3.86	100	100	4	0	0	0.00	-	-	26	100	100	100	
MUZAFFAR ABAD	5	10	0	3.73	100	100	5	4	0	4.08	100	100	16	100	100	100	
NEELUM	1	2	0	2.73	100	100	1	1	0	3.74	100	100	6	100	100	100	
POONCH	4	5	0	2.26	80	100	5	1	0	1.24	100	100	11	100	100	100	
SUDNUTI	2	3	0	2.49	100	100	2	1	0	2.27	100	100	7	100	100	100	
AJK	33	52	0	3.13	92	100	34	10	0	1.65	90	100	124	¥100	¥100	¥100	
District Wise Summary of Surveillance Data - Islamabad																	
ISLAMABAD	13	17	0	2.68	100	***	13	0	0	0.00	-	-	42	***	***	***	

* 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. 18 ended on 3rd May 2014 *** Data not Available † Zero reports and active surveillance averaged for last 4 weeks
 † Target ≥80% ‡ Indicator below target § Population data source: Federal EPI ¶ For received reports only

REPORTED AFP CASES BY WEEK OF ONSET — (Source RRL REC file 03/05/2014)

Province	Total AFP 2013	Total AFP 2014	W 04 25-Jan-14	W 05 1-Feb-14	W 06 8-Feb-14	W 07 15-Feb-14	W 08 22-Feb-14	W 09 1-Mar-13	W 10 8-Mar-14	W 11 15-Mar-14	W 12 22-Mar-14	W 13 29-Mar-14	W 14 5-April-14	W 15 12-April-14	W 16 19-April-14	W 17 26-April-14
Punjab	2299	450	52	37	39	42	34	46	39	32	50	40	35	32	58	47
Sindh	967	209	19	8	20	23	17	20	23	19	26	27	24	23	18	19
Khyber Pakhtunkhwa	927	168	19	19	24	12	23	18	17	19	19	15	15	15	20	19
FATA	309	83	6	10	11	12	6	6	8	5	7	7	7	6	4	4
Balochistan	198	47	7	9	2	5	5	1	3	1	2	4	0	1	0	6
AJK	52	9	1	0	2	1	2	1	1	0	0	0	0	0	0	0
Gilgit-Baltistan	8	2	0	0	0	0	2	0	0	0	0	0	0	0	1	0
Islamabad	17	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Pakistan	4777	968	104	83	99	95	89	92	91	76	104	93	81	77	101	95

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

Province	2012	2013	2014	Last 12 months												
				May	June	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr [¶]	
Punjab	2	7		1	-	-	-	1	3	-	1	-				
Sindh	4	10	2	-	-	1	-	1	2	1	3	-	1	2	2	
Khyber Pakhtunkhwa	27	11	7	-	1	-	2	2	1	-	1	2	2	4	1	
FATA	20	65	38	8	3	3	6	15	8	9	12	15	15	8	9	
Balochistan	4	-		-	-	-	-	-	-	-	-	-	-			
AJK/ Gilgit- Baltistan	1	-		-	-	-	-	-	-	-	-	-	-			
Islamabad [§]	-	-		-	-	-	-	-	-	-	-	-	-			
Pakistan	58	93	47	9	4	4	8	19	14	10	17	17	18	14	12	

¶ Data not complete

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - PUNJAB

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
APRIL 2014 SNIDs									
JHANG	82,957	86,315	104	8,090	0	8,090	218	0	218
KHANEWAL	185,585	193,864	104	21,088	4	21,092	2,214	0	2,214
LAHORE	1,493,499	1,639,519	110	180,312	545	180,857	14,804	72	14,876
MIANWALI	213,107	239,655	112	24,303	38	24,341	2,927	35	2,962
MULTAN	721,871	823,600	114	112,514	256	112,770	8,046	138	8,184
RAWALPINDI	711,354	789,062	111	84,990	1,566	86,556	3,210	838	4,048
SAHIWAL	393,141	434,384	110	53,890	0	53,890	1,009	0	1,009
TTSINGH	326,122	372,133	114	46,356	6	46,362	1,299	4	1,303
PUNJAB	4,127,636	4,578,532	111	531,543	2,415	533,958	33,727	1,087	34,814

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - 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
APRIL 2014 SNIDs									
BAJOUR	229,103	210,179	92	20,005	0	20,005	3,595	0	3,595
FR BANNU	44,009	33,067	75	2,344	689	3,033	404	554	958
FR DIKHAN	14,639	12,433	85	1,258	45	1,303	138	15	153
FR KOHAT	20,257	18,611	92	699	0	699	87	0	87
FR LAKKI	8,182	7,000	86	696	59	755	56	35	91
FR PESHAWAR	12,719	11,232	88	770	16	786	178	5	183
FR TANK	10,568	10,162	96	599	2	601	30	0	30
KHYBER	228,980	118,380	52	8,913	330	9,243	3,896	197	4,093
KURRAM	138,689	98,491	71	15,347	32	15,379	4,508	14	4,522
MOHMAND	87,445	86,582	99	6,634	19	6,653	1,254	0	1,254
ORAKZI	66,268	32,286	49	1,673	0	1,673	240	0	240
WAZIR-N	162,177	0	0	0	0	0	0	0	0
WAZIR-S	118,827	8,120	7	212	0	212	0	0	0
FATA	1,141,863	646,543	57	59,150	1,192	60,342	14,386	820	15,206
APRIL 2014 SIADS									
FR BANNU	40858	33255	76	2297	463	2760	284	345	629
KHYBER	124813	117068	51	8911	404	9315	3970	266	4236
WAZIR-N	-	0	0	0	0	0	0	0	0
WAZIR-S	8000	0	0	0	0	0	0	0	0
FATA ⁹	173671	150323	27	11208	867	12075	4254	611	4865

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - KPK

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
APRIL 2014 SNIDs									
BANNU	155,076	132,258	85	11,843	10,305	22,148	1,593	8,589	10,182
CHARSADA	293,837	220,432	75	22,853	3,669	26,522	18,825	3,357	22,182
DIKHAN	269,775	269,954	100	33,968	1,851	35,819	5,005	1,264	6,269
HANGU	115,850	112,807	97	8,797	571	9,368	1,548	186	1,734
KARAK	112,904	118,035	105	10,970	2,006	12,976	363	1,180	1,543
KOHAT	190,762	196,276	103	19,710	1,800	21,510	2,629	528	3,157
LAKKIMRWT	146,509	151,608	103	17,304	5,243	22,547	2,223	3,211	5,434
MARDAN	360,990	304,921	84	23,845	7,032	30,877	16,928	6,591	23,519
PESHAWAR	754,383	645,716	86	48,925	19,465	68,390	32,248	16,700	48,948
SWABI	258,432	232,011	90	16,203	6,345	22,548	12,932	6,087	19,019
TANK	76,966	78,154	102	4,205	375	4,580	553	307	860
KPK	2,735,484	2,462,172	90	218,623	58,662	277,285	94,847	48,000	142,847
APRIL 2014 SIADS									
BANNU	155,076	139,905	90	12,105	11,032	23,137	1,606	8,767	10,373
DIKHAN	269,775	250,396	93	32,446	1,857	34,303	8,901	1,400	10,301
HANGU	115,850	100,401	87	7,886	459	8,345	813	137	950
KARAK	112,904	117,631	104	10,986	2,565	13,551	488	1,605	2,093
KOHAT	190,762	191,977	101	17,808	1,971	19,779	2,357	847	3,204
LAKKIMRWT	146,509	148,606	101	16,312	5,554	21,866	3,636	3,628	7,264
NOWSHERA	134,000	127,503	95	12,819	3,107	15,926	2,575	1,856	4,431
TANK	76,966	76,573	99	5,202	305	5,507	1,706	281	1,987
KPK	1,201,842	1,152,992	96	115,564	26,850	142,414	22,082	18,521	40,603

SUMMARY OF CONTROL / OPERATIONS ROOM DATA - ISLAMABAD

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
APRIL 2014 SNIDs									
CDA	59,000	71,383	121	5,428	168	5,596	865	72	937
ICT	50,000	55,331	111	4,210	44	4,254	655	28	683
ISLAMABAD	109,000	126,714	116	9,638	212	9,850	1,520	100	1,620
APRIL 2014 SIADS									
CDA	26,123	22,703	87	2,291	159	2,450	363	68	431
ICT	20,883	19,373	93	2,086	28	2,114	374	18	392
ISLAMABAD	47,006	42,076	90	4,377	187	4,564	737	86	823

SUMMARY OF CONTROL/ OPERATIONS ROOM DATA - BALOCHISTAN

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
APRIL 2014 SNIDs									
KABDULAH	132,639	124,506	94	4,544	4,919	9,463	1,600	1,636	3,236
LASBELA	43,573	43,124	99	1,826	200	2,026	112	86	198
PISHIN	111,040	109,831	99	3,215	5,563	8,778	1,846	1,424	3,270
QUETTA	475,166	464,132	98	15,865	8,449	24,314	4,174	185	4,359
SHARANI	16,878	16,694	99	272	92	364	74	0	74
ZHOB	53,692	62,157	116	1,288	1,751	3,039	363	1,020	1,383
BALOCHISTAN	832,988	820,444	98	27,010	20,974	47,984	8,169	4,351	12,520
APRIL 2014 SIADS									
KABDULAH	67,139	90,144	134	3,441	2,907	6,348	1,169	472	1,641
PISHIN	63,146	50,718	80	1,435	4,024	5,459	1,007	1,299	2,306
QUETTA	293,796	301,409	103	8,642	7,196	15,838	2,252	1,014	3,266
SHARANI	16,878	4,981	30	63	26	89	51	0	51
ZHOB	53,692	61,594	115	1,170	1,675	2,845	341	990	1,331
BALOCHISTAN	494,651	508,846	103	14,751	15,828	30,579	4,820	3,775	8,595

SUMMARY OF CONTROL/ OPERATIONS ROOM DATA - PROVINCE WISE

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
APRIL 2014 SNIDs									
BALOCHISTAN	832,988	820,444	98	27,010	20,974	47,984	8,169	4,351	12,520
FATA	1,141,863	646,543	57	59,150	1,192	60,342	14,386	820	15,206
ISLAMABAD	109,000	126,714	116	9,638	212	9,850	1,520	100	1,620
KPK	2,735,484	2,462,172	90	218,623	58,662	277,285	94,847	48,000	142,847
PUNJAB	4,127,636	4,578,532	111	531,543	2,415	533,958	33,727	1,087	34,814
PAKISTAN	8,946,971	8,634,405	97	845,964	83,455	929,419	152,649	54,358	207,007
APRIL 2014 SIADS									
BALOCHISTAN	494,651	508,846	103	14,751	15,828	30,579	4,820	3,775	8,595
FATA	553,993	150,323	27	11,208	867	12,075	4,254	611	4,865
ISLAMABAD	47,006	42,076	90	4,377	187	4,564	737	86	823
KPK	1,201,842	1,152,992	96	115,564	26,850	142,414	22,082	18,521	40,603
PAKISTAN ¹¹	2,297,492	1,854,237	81	145,900	43,732	189,632	31,893	22,993	54,886

April 2014 SIAs

SNIDs: A round of Sub National Immunization Days (SNIDs) was conducted in the third week of April 2014, using bivalent Oral Polio Vaccine (bOPV). As per available reports a total of 8.6 million children were vaccinated in 52 selected districts / agencies / towns / FR areas of the country. The SNIDs could not be conducted in Khyber agency (Tehsil Bara) and three areas of FR Bannu due to insecurity, while in North and South Waziristan due to ban on vaccination (since June 2012).

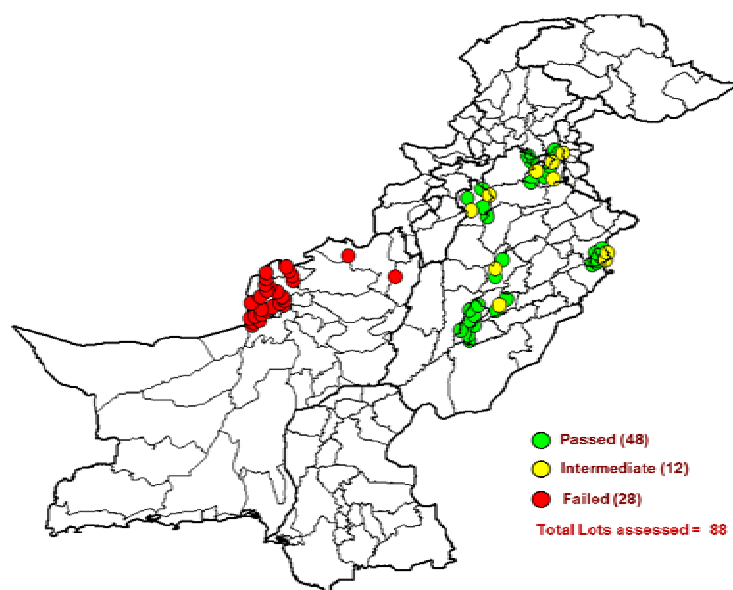
A total of 88 lots were assessed through Lot Quality Assurance Sampling (LQAS) following April SNIDs; of which 48 (54.5%) were of passed quality (all from Punjab). Twelve (13.6%) lots were of intermediate quality from six districts including one in Baluchistan and five in Punjab. All 28 lots of failed quality were from Balochistan including 12 conducted in Quetta, eight in Killa Abdullah, six in Pishin and two in Zhob.

Market Survey results for April SNIDs showed sub optimal performance in Quetta (73%), Zhob (76%), Killa Abdullah and Pishin (88%) in Balochistan; FR Peshawar (81%), FR Bannu (83%) and Mohamand agency (89%) in FATA.

SIADS: A round of Short Interval Additional Dose Strategy (SIADS) was conducted from 28 to 30 April 2014. As per available reports a total of 1.85 million children were vaccinated in 19 selected districts / agencies / towns / FR areas of Balochistan, Khyber Pakhtunkhwa, Islamabad and FATA. A total of 30 lots were assessed through Lot Quality Assurance Sampling (LQAS) in five districts of Balochistan; of which two each were of passed and intermediate quality from Sherani and Quetta districts respectively. Twenty six lots were of failed quality; of which 11 were conducted in Quatta, seven in Pishin, six in Killa Abdulla and two in Zhob. Market Survey results showed sub optimal performance in FR Bannu (83%) in FATA and Bannu (82%), Tank and Lakki Marwat (89%) in Khyber Pakhtunkhwa.

The ongoing sub-optimal vaccination quality in critical districts/agencies of FATA, Khyber Pakhtunkhwa and Quetta block (Quetta, Pishin, Killa Abdullah) is of serious concern. It is important to recall that the highest campaign quality is required in the polio reservoirs to stop the viral circulation. At the same time quality maintenance is important in the areas without polio cases and endemic poliovirus circulation to avert the risk of viral introduction and establishment.

Lot Quality Assurance Sampling (LQAS) April (14-16) 2014, SNIDs



Province	Lot Quality Assurance Sampling (LQAS)				% Children found vaccinated during Spot Survey
	Lots Assessed (Sample size per lot = 60 children)	Passed (0-3 unvaccinated children)	Intermediate (4-8 unvaccinated children)	Failed (≥9 unvaccinated children)	
April 2014 SNIDs					
BALUCHISTAN	30	-	2	28	81
FATA	-	-	-	-	92
PUNJAB	58	48	10	-	97
TOTAL	88	48	12	28	94
April 2014 SIADS					
BALUCHISTAN	30	2	2	26	-
FATA	-	-	-	-	80
KPK	-	-	-	-	93
TOTAL ₁₂	30	2	2	26	93