

## CURRENT EPIDEMIOLOGY OF POLIO IN PAKISTAN

As of 8<sup>th</sup> May 2014, 59 type-1 wild poliovirus (WPV) cases have been reported from nine districts/ towns/ tribal agencies/ FR areas (compared to eight in 2013 from seven districts/ towns/ tribal agencies/ FR areas). Moreover, WPV-1 has also been isolated from 29 environmental samples in 2014 (out of 102 samples for which results are available) from Gaddap, Baldia and Gulshan-e-Iqbal towns in Karachi Sindh, Peshawar in Khyber Pakhtunkhwa, Lahore and Rawalpindi in Punjab and Quetta in Balochistan. Eleven sabin-2 like poliovirus cases have been reported from FATA, (six from North Waziristan agency and five from FR Bannu).

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

- 52 (88%) polio cases are younger than two years (median age: 14 months).
- Based on recall of parents, 49 (83%) 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 four 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, considering the fact that all the three high risk towns (Gadap, Gulshan-e-Iqbal and Baldia) have the continuous presence of wild poliovirus during the last six 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.

In Punjab, environmental samples collected from Lahore (12<sup>th</sup> April) and Rawalpindi (28<sup>th</sup> Jan) has detected wild poliovirus in 2014; however, in Rawalpindi the last two consecutive environmental samples collected from the existing site (Safdar Abad) and the first sample from the new site (Dhok Dalal) are negative for the presence of wild poliovirus. The first environmental sample collected from the capital territory of Islamabad on 21<sup>st</sup> March was also 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 28<sup>th</sup> December and the latest two positive samples collected on 20 and 31 March 2014 from two 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

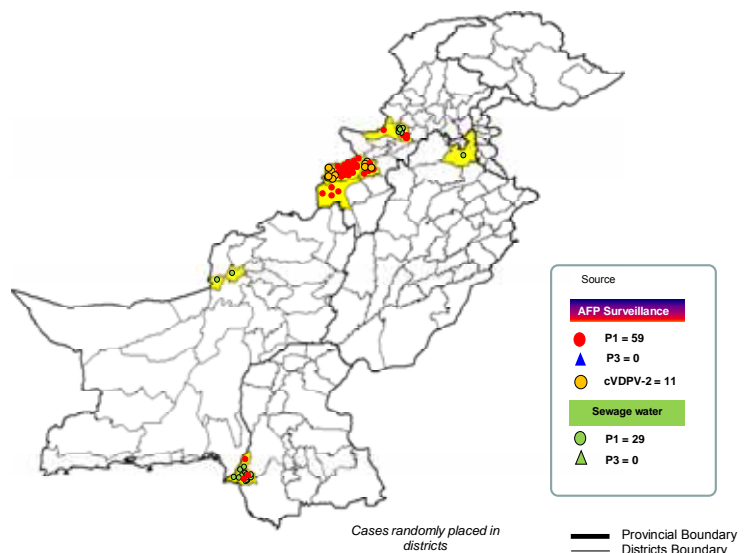
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and in Hyderabad for the last six months.

In conclusion, poliovirus circulation in the country can be seen over a wider geographically area (compared to first half of 2013). Keeping in view that the country is currently entering the high transmission season; the following is to re-emphasize as key to stopping wild poliovirus circulation during upcoming SIAs:

- Immediately gaining 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.
- Consistent access to all the children in reservoirs of central Khyber Pakhtunkhwa and Karachi ensuring security arrangements for vaccinators to restore and maintain the confidence and sense of security among the frontline workers.
- Highest quality SIAs in Punjab, interior Sindh and Balochistan (specially Quetta block) to avert the risk of introduction and establishment of wild poliovirus
- Ensuring strong oversight and accountability mechanisms for polio eradication activities at all levels.

Map-1: Poliovirus Isolates 2014 (As of 08-05-2014)



### News Briefs and Events

- Meeting of the International Monitoring Board (IMB) convened on 6-7<sup>th</sup> May 2014 at London
- Twelve rounds of special polio supplementary immunization activities (SIAs), utilizing enhanced operational and security arrangements have been completed on 20<sup>th</sup> April 2014 in Peshawar district of Khyber Pakhtunkhwa.

## An overview of the Environmental Surveillance in Pakistan

Pakistan initiated environmental sampling in July 2009 and since then, there has been significant expansion from seven sites in two cities to 29 sites in ten cities. Environmental surveillance has proven to be a very useful complementary strategy to AFP surveillance that has helped better understanding the poliovirus circulation patterns.

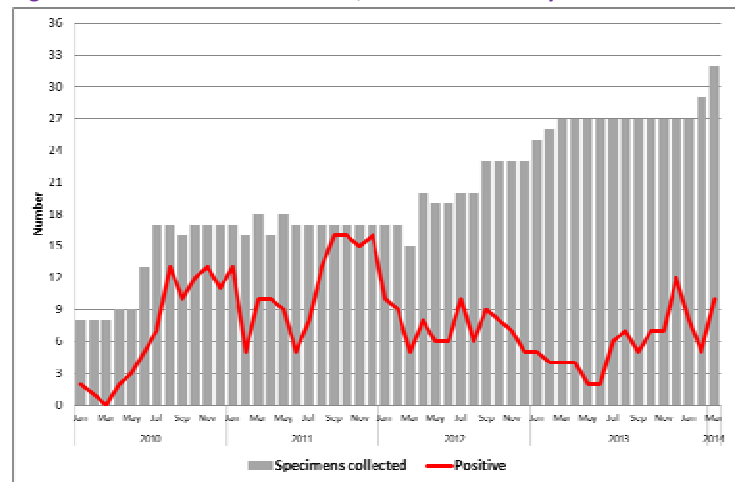
Figures 1-a and b illustrate the monthly number and percentages of positive environmental samples in Pakistan. During 2010 and 2011; the wild poliovirus isolation peaked in the high poliovirus transmission season (August to December) following the expected trend. The wild poliovirus circulation was quite 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.

In 2012, the seasonal surge in the proportion of positive environmental samples was reversed as 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 (Fig 1-c) also indicate the direct impact of better implemented vaccination activities. Balochistan and Punjab province for instance, made the most significant progress. Large urban populations of Lahore and Multan in Punjab and Quetta in Balochistan remained without local poliovirus circulation for significant time during 2012 and 2013. 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 and 2014. Gaddap, Baldia and Gulshan e Iqbal towns in Karachi, 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. Since September 2013, Hyderabad has reported consecutive negative samples after persistent WPV isolation for several months. This development also precedes intensified vaccination activities in Hyderabad.

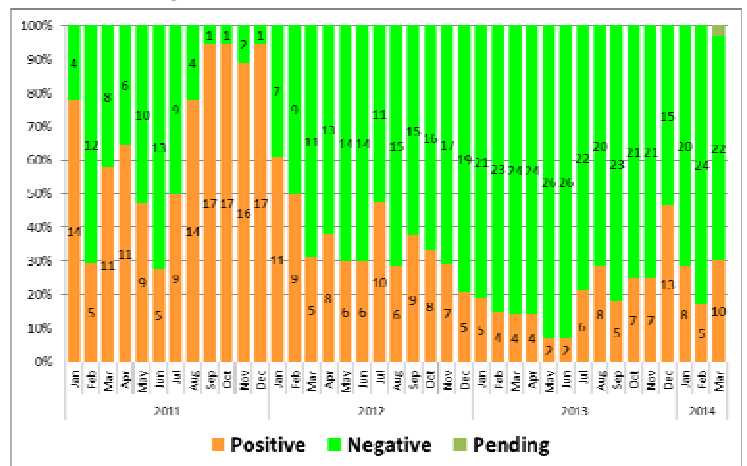
The country is currently entering the high transmission season and witnessing surge in the WPV isolation in the environmental samples, even from the areas that remained without WPV for substantial time, e.g. Lahore and Quetta. There is need to implement intensified SIAs strategy with highest possible quality to avert the risk of introduction and establishment of wild poliovirus.

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



\* Data as of 19th April, 2014

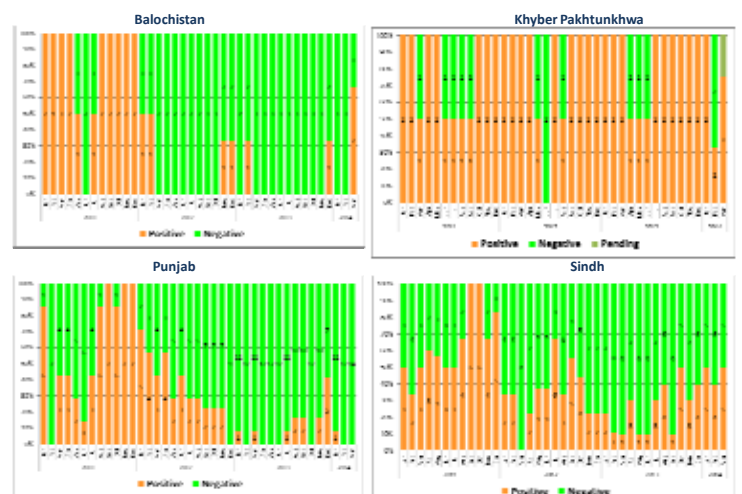
Fig 1-b: Environmental Surveillance, Pakistan



\* Data source AFP/LAB 27/08/2013

\* Data as of 19th April, 2014

Fig 1-c: Environmental Surveillance by Province



\* Data as of 19th April, 2014

### Global Update (as of 8th May 2014)

74 polio cases have been reported in 2014, 65 from endemic countries (Pakistan-59, Afghanistan-04, Nigeria-02) and nine from non-endemic countries (Cameroon-03, Equatorial Guinea-03, Ethiopia-01, Iraq-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](http://www.polioeradication.org)

## Karachi Special SIAs with Enhanced Operational & Security Arrangements

Karachi has had peculiar epidemiological and security situation since December 2012. There has been persistent isolation of wild poliovirus type-1 in the environmental samples for substantial period. Moreover, Karachi has reported 12 wild poliovirus cases since Jan 2013. Keeping in view the concerning situation particularly after the Jan 2014 security incident in Karachi; the Provincial Government of Sindh planned the special SIAs initiative similar to Peshawar for reaching maximum children for polio vaccination as well as to ensure the safety of the polio eradication workers. The Supplementary Immunization Activities (SIAs) are to be completed in one day on weekends. This is in view of direct security threat to the polio field workers and reducing the time of their field exposure. This also allow availing the services of all the line departments and catching most of the children at houses.

Operationally, the 188 Union Councils in 18 towns of Karachi were categorized into highest, high, medium and low risk areas on the basis of presence of poliovirus infection, high risk population, inaccessibility due to insecurity and previous SIAs quality. Initially, six vaccination rounds have been conducted in 24 highest risk UCs from 23<sup>rd</sup> February to 6<sup>th</sup> April 2014 using the four category scheme. However, the categories are thereafter revised into three for the subsequent rounds.

It is important to note that a substantial scale vaccination rounds are conducted in Karachi for the first time in 2014 without any significant security incident due to comprehensive arrangements led by the Police and Rangers. 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.

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
Feb 23	24	496,509	432,340	87	9,893	2
Mar 02	24	490,199	466,546	95	10,460	2.1
Mar 09	24	490,542	472,667	96	10,740	2.2
Mar 16	24	490,868	474,883	97	9,165	1.9
Mar 30	24	495,443	476,388	96	9,796	2
April 06	24	495,710	479,339	97	9,555	1.9
April 27	35	631,768	602,749	95	13,257	2.1

### Province-wise AFP Surveillance Data for 2013 & 2014

Province/Region	AFP Surveillance Data 2013						AFP Surveillance Data 2014 <sup>§</sup>									
	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 <sup>‡</sup>			Active Surveillance (%) <sup>‡</sup>
				Non-Polio AFP Rate	Cases with Adequate Specimens (%) <sup>†</sup>	60 Day Follow Up (%) <sup>†</sup>				Non-Polio AFP Rate**	Cases with Adequate Specimens (%) <sup>†</sup>	60 Day Follow Up (%) <sup>†</sup>	No. Zero Reporting Sites	Completeness (%) <sup>‡</sup>	Timeliness (%) <sup>‡</sup>	
<b>PUNJAB</b>	842	2299	7	5.44	92	100	857	450	0	3.95	92	97	2010	100	95	83
<b>SINDH</b>	359	967	10	5.30	91	99	366	209	1	4.28	95	<b>72</b>	1507	94	91	90
<b>FATA</b>	35	308	65	11.54	82	<b>25</b>	35	83	33	9.13	92	<b>0</b>	231	<b>33</b>	<b>25</b>	90
<b>BALUCHISTAN</b>	76	198	0	5.11	85	94	77	47	0	4.58	83	<b>56</b>	563	83	<b>78</b>	84
<b>AJK</b>	33	52	0	3.13	92	100	34	9	0	2.00	100	100	124	100	100	100
<b>ISLAMABAD</b>	13	17	0	2.68	100	***	13	0	0	<b>0.00</b>	-	-	42	***	***	***
<b>GBALISTAN</b>	14	8	0	<b>1.12</b>	88	100	15	2	0	<b>1.04</b>	100	-	42	100	100	100
<b>KHYBER PAKH-TUNKHWA</b>	211	926	11	8.69	83	90	214	168	6	5.69	91	<b>54</b>	1212	<b>20</b>	<b>18</b>	<b>75</b>
<b>TOTAL</b>	<b>1583</b>	<b>4775</b>	<b>93</b>	<b>5.9</b>	<b>89</b>	<b>92</b>	<b>1611</b>	<b>968</b>	<b>40</b>	<b>4.30</b>	<b>92</b>	<b>73</b>	<b>5731</b>	<b>¥76</b>	<b>¥73</b>	<b>¥89</b>

\* 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. 14 ended on 5th April 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 <sup>\$</sup>									
	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	6	0	3.20	83	100	77	100	95	80
BAHAWALPUR	29	68	0	4.66	94	100	30	11	0	2.79	100	100	73	100	96.2	100
BAHWLNAGAR	23	83	0	7.25	93	100	23	17	0	5.50	100	100	90	***	***	80
BHAKKAR	12	42	0	6.94	100	100	12	7	0	4.28	100	100	14	100	100	80
CHAKWAL	11	38	0	6.64	100	100	12	9	0	5.81	100	100	18	100	100	80
CHINIOT	10	31	0	5.96	94	100	11	6	0	4.27	100	80	12	100	100	80
DGKHAN	20	123	0	12.14	89	99	21	30	0	10.95	90	80	56	***	***	80
FAISALABAD	61	106	0	3.48	82	100	62	19	0	2.30	100	100	37	100	100	100
GUJRANWALA	40	107	0	5.38	94	100	40	26	0	4.84	96	100	47	100	98.6	80
GUJRAT	22	64	0	5.76	97	100	23	9	0	2.99	89	100	118	100	97	80
HAFIZABAD	9	31	0	6.81	97	100	9	4	0	3.25	100	100	54	100	90.6	80
JHANG	20	60	0	5.95	83	100	21	8	0	2.94	100	100	20	100	100	80
JHELUM	10	39	0	7.78	97	100	10	9	0	6.65	89	100	72	100	100	80
KASUR	27	66	0	4.88	97	100	28	14	0	3.83	100	100	82	100	92.8	80.6
KHANEWAL	23	73	0	6.33	88	100	23	12	0	3.85	92	100	30	100	92.25	80
KHUSHAB	10	17	0	3.53	94	100	10	3	0	2.30	100	-	16	100	100	80
LAHORE	79	129	0	3.25	94	100	81	33	0	3.08	91	100	42	100	84.8	100
LAYYAH	13	36	0	5.34	89	100	14	5	0	2.74	80	100	37	***	***	80
LODHRAN	14	52	0	7.69	96	100	14	11	0	6.02	100	100	44	100	94.6	80
MBDIN	12	41	1	6.61	95	100	12	6	0	3.67	100	100	61	100	100	80
MIANWALI	12	50	1	8.41	94	100	12	8	0	5.08	100	100	17	100	97	80
MULTAN	36	104	0	5.79	92	100	37	27	0	5.56	89	100	46	100	97.5	80
MUZFARGARH	33	121	0	7.38	90	100	33	16	0	3.61	81	100	48	100	82.6	100
NANKANASAHIB	15	32	0	4.38	97	100	15	7	0	3.54	86	-	29	100	100	80
NAROWAL	13	37	0	5.55	97	100	14	4	0	2.22	100	100	84	100	90.4	80
OKARA	25	72	0	5.80	90	100	25	16	0	4.77	88	100	39	100	86.75	80
PAKPATTEN	14	32	0	4.43	81	100	15	8	0	4.09	63	100	50	***	***	80
RAJANPUR	14	74	0	10.92	89	100	14	15	0	8.19	93	100	39	***	***	80
RAWALPINDI	39	71	0	3.65	87	100	40	6	0	1.14	83	100	120	100	93	80
RYKHAN	38	81	0	4.24	93	100	39	20	0	3.87	90	100	80	100	87.25	80
SAHIWAL	20	52	1	5.13	88	100	20	7	0	2.61	86	100	39	***	***	80
SARGODHA	28	54	0	3.84	93	100	29	13	0	3.42	92	-	159	***	***	80
SHEIKUPURA	24	69	1	5.78	91	100	24	13	0	4.09	92	100	89	100	94.75	80
SIALKOT	30	67	0	4.41	97	100	31	15	0	3.65	100	100	131	100	90.2	100
TTSINGH	17	61	3	6.55	85	100	18	16	0	6.80	88	83	14	100	100	80
VEHARI	24	83	0	6.91	94	100	24	14	0	4.31	93	100	26	100	100	80
<b>PUNJAB</b>	<b>842</b>	<b>2299</b>	<b>7</b>	<b>5.44</b>	<b>92</b>	<b>100</b>	<b>857</b>	<b>450</b>	<b>0</b>	<b>3.95</b>	<b>92</b>	<b>97</b>	<b>2010</b>	<b>¥100</b>	<b>¥95</b>	<b>¥83</b>

\* 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. 14 ended on 5th April 2014  
 \*\*\* Data not Available  
 † Zero reports and active surveillance averaged for last 4 weeks  
 ‡ Target ≥80%    0 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 <sup>5</sup>							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	60 Day Follow Up (%) †	Number of Sites	Completeness (%) † ‡		Timeliness (%) † ‡
<b>Town Wise Summary — Karachi</b>																
BALDIA	6	12	2	3.27	58	100	6	3	1	2.42	100	0	20	99.2	99.2	100
BINQASIM	5	13	2	4.54	85	100	5	1	0	1.53	100	-	22	100	90	77
GADAP	4	34	2	12.92	71	97	4	5	0	8.53	80	33	12	100	99	100
GULSHAN-E-IQBAL	8	17	1	3.81	100	100	9	4	0	3.52	100	-	20	100	92.6	90
GULBERG	5	6	0	2.20	100	100	6	4	0	5.42	100	0	14	100	100	100
JAMSHEED	9	10	0	2.22	80	90	9	2	0	1.65	50	-	18	100	80	77
KAMARI	6	8	0	2.71	63	100	6	0	0	0.00	-	-	11	100	100	100
KORANGI	8	10	0	2.66	80	100	8	1	0	0.98	0	100	13	100	100	100
LANDHI	9	12	1	2.35	100	100	10	2	0	1.58	100	-	22	100	100	100
LAYARI	6	7	0	2.19	57	100	7	2	0	2.32	100	-	15	***	***	***
LIAQATABAD	8	10	0	2.56	100	100	8	4	0	3.79	100	100	17	95	94.2	100
MALIR	6	13	0	4.26	100	100	6	0	0	0.00	-	-	13	100	88.8	87
N NAZIMABAD	6	7	0	2.34	100	100	6	5	0	6.19	80	-	14	100	100	100
NORTH KARACHI	8	16	0	3.89	100	100	8	3	0	2.70	100	0	16	94.8	94	100
ORANGI	11	25	0	4.58	92	96	11	4	0	2.71	100	-	21	94.4	83	98
SADDAR	9	9	0	1.92	89	100	10	0	0	0.00	-	-	21	100	100	96
SHAHFAISAL	5	11	0	4.31	100	100	5	0	0	0.00	-	-	11	100	100	93
SITE	7	13	0	3.69	92	100	7	0	0	0.00	-	-	16	100	100	100
<b>District Wise Summary— Sindh</b>																
KARACHI	128	233	8	3.46	87	99	130	40	1	2.26	90	38	296	99	95	95
BADIN	12	45	0	7.25	98	100	13	7	0	4.17	100	-	54	97.2	97	69
DADU	13	27	1	4.11	93	100	13	16	0	9.35	100	100	64	100	93	100
GHOTKI	12	73	0	12.25	92	100	12	7	0	4.35	100	100	50	96.4	95.8	84
HYDERABAD	16	36	0	4.54	86	100	16	9	0	4.19	78	100	30	93.6	92.8	92
JACOBABAD	8	30	0	7.60	90	100	8	3	0	2.81	100	100	45	***	***	***
JAMSHORO	7	24	0	7.21	79	100	7	3	0	3.33	100	-	37	100	71.8	93
KAMBAR	11	32	0	5.72	91	100	11	5	0	3.31	100	100	52	***	***	***
KASHMORE	7	14	1	3.57	86	100	7	2	0	2.03	100	0	39	***	***	***
KHAIRPUR	18	60	0	6.74	98	100	18	16	0	6.65	94	100	102	80.6	79.8	68
LARKANA	12	28	0	4.61	100	96	12	9	0	5.48	100	0	52	97.8	96	***
MATIARI	5	21	0	8.00	100	100	5	5	0	7.05	100	100	40	100	92	96
MIRPURKHAS	10	68	0	13.08	99	100	11	23	0	16.3	100	100	104	93.6	92.4	85
NFEROZ	11	22	0	4.00	91	100	11	2	0	1.34	100	-	60	88.8	87.6	***
SANGHAR	17	32	0	3.81	84	100	17	11	0	4.85	91	100	55	89.8	87	91
SBENAZIRABAD	11	14	0	2.58	100	100	11	5	0	3.40	100	-	61	100	100	100
SHIKARPUR	10	25	0	5.16	92	100	10	15	0	11.4	93	100	54	***	***	***
SUKKUR	11	26	0	4.87	92	96	11	6	0	4.16	100	0	70	100	91	100
T.ALLAHYAR	5	21	0	8.01	81	100	5	5	0	7.06	100	100	34	100	100	74
THARPARKAR	11	27	0	4.88	93	100	11	4	0	2.68	100	100	98	89.6	89.2	95
THATTA	12	54	0	8.88	91	100	12	9	0	5.48	100	100	58	67.4	67.4	82
TMKHAN	4	25	0	11.51	96	100	4	3	0	5.11	100	0	12	100	100	100
UMERKOT	8	30	0	7.35	93	100	8	4	0	3.63	75	100	40	100	100	100
<b>SINDH</b>	<b>359</b>	<b>967</b>	<b>10</b>	<b>5.30</b>	<b>91</b>	<b>99</b>	<b>366</b>	<b>209</b>	<b>1</b>	<b>4.28</b>	<b>95</b>	<b>72</b>	<b>1507</b>	<b>¥94</b>	<b>¥91</b>	<b>¥90</b>

\* 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. 14 ended on 5th April 2014  
 \*\*\* Data not Available  
 † Zero reports and active surveillance averaged for last 4 weeks  
 ‡ Target ≥80%    0 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 <sup>§</sup>										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	Number of Sites	Completeness (%) † ‡	Timeliness (%) † ‡		
<b>District Wise Summary — Khyber-Pakhtunkhwa</b>																	
ABOTABAD	9	34	0	7.40	79	94	9	11	0	8.86	100	***	93	97	97	***	
BANNU	8	25	1	6.07	92	100	8	8	3	4.67	75	***	43	***	***	73	
BATAGRAM	3	10	0	7.23	100	50	3	2	0	5.35	100	***	31	***	***	***	
BUNIR	7	47	0	14.04	85	100	7	9	0	9.95	100	50	42	***	***	***	
CHARSADA	12	75	0	12.43	88	85	12	10	0	6.13	80	***	49	***	***	***	
CHITRAL	4	10	0	5.54	100	50	4	2	0	4.10	50	***	27	***	***	***	
DIKHAN	11	38	0	7.22	89	100	11	5	0	3.51	80	***	54	80	40	82	
DIRLOWER	9	43	0	9.53	81	100	9	5	0	4.10	80	100	62	***	***	63	
DIRUPPER	7	15	0	4.47	80	93	7	2	0	2.21	100	***	30	***	***	***	
HANGU	4	16	0	8.25	63	88	4	1	0	1.91	100	***	23	***	***	***	
HARIPUR	8	30	0	7.96	83	100	8	2	0	1.96	0	***	66	100	93	***	
KARAK	5	26	0	9.78	85	100	5	2	0	2.78	100	***	28	***	***	***	
KOHAT	7	33	1	9.23	85	76	7	10	0	10.67	90	***	40	***	***	***	
KOHISTAN	4	5	0	2.49	60	80	4	2	0	3.69	100	***	31	***	***	***	
LAKKIMRWT	6	58	0	19.40	86	98	6	8	0	9.90	88	100	57	13	13	100	
MALAKAND	6	27	1	9.21	100	100	6	6	0	7.86	100	100	46	***	***	27	
MANSEHRA	11	44	0	8.31	86	93	11	6	0	4.19	100	***	69	***	***	***	
MARDAN	18	104	2	11.65	88	100	18	20	0	8.45	100	100	77	***	***	87	
NOWSHERA	10	48	0	9.28	88	48	11	16	0	11.44	94	100	47	***	***	***	
PESHAWAR	26	125	5	9.30	67	95	26	24	3	6.02	88	75	124	82	82	98	
SHANGLA	5	13	0	4.84	85	85	5	0	0	0.00	-	-	35	20	20	***	
SWABI	12	56	1	8.99	86	66	12	14	0	8.46	100	***	63	***	***	***	
SWAT	16	29	0	3.69	79	86	16	1	0	0.47	100	***	48	52	58	***	
TANK	3	13	0	8.98	62	92	3	2	0	5.11	100	***	27	58	58	69	
TORGHAR	2	2	0	1.75	0	100	2	0	0	0.00	-	-	***	***	***	***	
<b>K- PAKHTUNKHWA</b>	<b>211</b>	<b>926</b>	<b>11</b>	<b>8.69</b>	<b>83</b>	<b>90</b>	<b>214</b>	<b>168</b>	<b>6</b>	<b>5.69</b>	<b>91</b>	<b>54</b>	<b>1212</b>	<b>¥20</b>	<b>¥18</b>	<b>¥75</b>	
<b>Agency Wise Summary — FATA</b>																	
BAJOUR	7	41	0	11.22	68	68	7	7	0	7.08	71	***	28	28	17	44	
FR Bannu	0	24	7	90.83	88	8	0	6	1	59.30	67	***	***	***	***	***	
FR DIKhan	1	2	1	3.70	100	0	1	0	0	0.00	-	-	***	***	***	100	
FR Kohat	0	2	0	8.91	50	100	0	0	0	0.00	-	-	***	100	75	100	
FR Lakki	0	2	0	31.37	100	0	0	0	0	0.00	-	-	***	***	***	100	
FR Peshawar	1	3	0	8.83	100	100	1	0	0	0.00	-	-	***	100	75	***	
FR Tank	0	1	0	5.09	100	0	0	0	0	0.00	-	-	***	***	***	***	
KHYBER	6	55	20	10.92	65	18	7	6	1	5.77	100	***	72	5	5	***	
KURRAM	4	6	0	2.69	100	33	5	0	0	0.00	-	-	30	***	***	100	
MOHMAND	4	14	0	6.33	71	57	4	0	0	0.00	-	-	26	100	78	91	
ORAKZAI	2	5	0	4.30	100	100	2	1	0	3.18	100	***	33	100	77	***	
WAZIR-N	4	136	35	33.33	91	13	4	58	30	47.27	95	***	24	***	***	***	
WAZIR-S	4	17	2	7.43	76	6	4	5	1	7.33	100	***	18	***	***	97	
<b>FATA</b>	<b>6</b>	<b>35</b>	<b>308</b>	<b>65</b>	<b>11.54</b>	<b>82</b>	<b>25</b>	<b>35</b>	<b>83</b>	<b>33</b>	<b>9.13</b>	<b>92</b>	<b>***</b>	<b>231</b>	<b>¥33</b>	<b>¥25</b>	<b>¥90</b>

\* 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. 14 ended on 5th April 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 <sup>\$</sup>									
	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	5.90	0	***	9	***	***	100
BOLAN	3	5	0	3.60	100	100	3	2	0	5.33	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	3.28	0	***	9	***	***	***
GWADUR	2	6	0	5.40	83	100	2	0	0	0.00	-	-	11	73	73	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	14.39	90	100	38	93	85	80
JHALMAGSI	1	1	0	1.54	100	100	1	1	0	5.71	100	***	21	100	71	50
KABDULAH	5	10	0	3.81	70	100	5	2	0	2.82	100	100	26	80	80	100
KALAT	2	2	0	1.83	100	0	2	1	0	3.38	0	***	15	***	***	***
KECH	4	11	0	5.96	91	100	4	2	0	4.01	100	100	19	80	80	100
KHARAN	1	3	0	5.73	100	100	1	1	0	7.07	100	***	6	***	***	100
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	79	70
LASBELA	4	8	0	4.25	100	100	4	1	0	1.97	100	***	40	***	***	100
LORALAI	2	6	0	5.52	100	100	2	2	0	6.81	100	***	19	***	***	100
MASTUNG	2	6	0	4.94	67	17	2	1	0	4.57	100	***	18	***	***	***
MUSAKHEL	1	3	0	4.06	100	100	2	1	0	5.00	0	***	10	***	***	100
NOSHKI	1	1	0	2.23	100	100	1	1	0	8.23	100	***	13	***	***	***
NSIRABAD	3	20	0	12.28	80	100	3	7	0	15.90	86	***	28	***	***	40
PANJGOUR	3	5	0	3.90	100	100	3	0	0	0.00	-	-	13	67	67	100
PISHIN	5	16	0	6.87	100	100	5	3	0	4.76	100	100	33	99	98	100
QUETTA	11	28	0	5.33	86	96	11	5	0	3.52	100	***	62	97	95	47
SHARANI	1	4	0	9.36	50	100	1	0	0	0.00	-	-	4	50	50	33
SIBI	2	4	0	4.63	100	100	2	4	0	17.15	75	0	20	***	***	***
WASHUK	1		0	0.00	***	***	1	0	0	0.00	-	-	9	***	***	***
ZHOB	2	12	0	9.26	83	100	2	1	0	3.11	100	***	15	87	80	100
ZIARAT	1	3	0	5.52	33	67	1	0	0	0.00	-	-	10	***	***	***
<b>BALOCHISTAN</b>	<b>76</b>	<b>198</b>	<b>0</b>	<b>5.11</b>	<b>85</b>	<b>94</b>	<b>77</b>	<b>47</b>	<b>0</b>	<b>4.58</b>	<b>83</b>	<b>56</b>	<b>563</b>	<b>¥83</b>	<b>¥78</b>	<b>¥84</b>

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	2.60	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	0	0	0.00	-	-	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	5.02	100	***	***	100	100	100
SKARDU	3	0	0	0.00	-	-	4	0	0	0.00	-	-	6	100	100	100
<b>G-BALTISTAN</b>	<b>14</b>	<b>8</b>	<b>0</b>	<b>1.12</b>	<b>88</b>	<b>100</b>	<b>15</b>	<b>2</b>	<b>0</b>	<b>1.04</b>	<b>100</b>	<b>***</b>	<b>42</b>	<b>¥100</b>	<b>¥100</b>	<b>¥100</b>

\* 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. 14 ended on 5th April 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 AJK & ISLAMABAD

District	AFP Surveillance Data 2013						AFP Surveillance Data 2014 <sup>§</sup>										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 (%) † ‡		
<b>District Wise Summary of Surveillance Data - AJK</b>																	
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	1	0	5.98	100	***	6	100	100	100	
KOTLI	6	4	0	1.27	100	100	6	1	0	1.17	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	5.51	100	100	16	100	100	100	
NEELUM	1	2	0	2.73	100	100	1	1	0	5.05	100	***	6	100	100	100	
POONCH	4	5	0	2.26	80	100	5	1	0	1.67	100	***	11	100	100	100	
SUDNUTI	2	3	0	2.49	100	100	2	1	0	3.07	100	***	07	100	100	100	
<b>AJK</b>	<b>33</b>	<b>52</b>	<b>0</b>	<b>3.13</b>	<b>92</b>	<b>100</b>	<b>34</b>	<b>9</b>	<b>0</b>	<b>2.00</b>	<b>100</b>	<b>100</b>	<b>124</b>	<b>¥100</b>	<b>¥100</b>	<b>¥100</b>	
<b>District Wise Summary of Surveillance Data - Islamabad</b>																	
<b>ISLAMABAD</b>	<b>13</b>	<b>17</b>	<b>0</b>	<b>2.68</b>	<b>100</b>	<b>***</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>-</b>	<b>-</b>	<b>42</b>	<b>***</b>	<b>***</b>	<b>***</b>	

\* 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. 14 ended on 5th April 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<sup>¶</sup> — (Source RRL REC file 05/04/2014)

Province	Total AFP 2013	Total AFP 2014	28-Dec-13	WEEK OF ONSET																					
				W 52	4-Jan-14	W 01	11-Jan-14	W 02	18-Jan-14	W 03	25-Jan-14	W 04	1-Feb-14	W 05	8-Feb-14	W 06	15-Feb-14	W 07	22-Feb-14	W 08	1-Mar-13	W 09	8-Mar-14	W 10	15-Mar-14
Punjab	2299	450	42	43	38	35	41	28	34	40	22	50	28	30	49	49									
Sindh	967	209	22	11	18	17	22	21	14	17	13	16	9	16	16	18									
Khyber Pakhtunkhwa	927	168	22	25	17	18	17	20	18	19	19	23	12	18	12	17									
FATA	309	83	15	10	3	11	8	4	7	5	6	9	8	8	7	6									
Balochistan	198	47	5	4	5	3	10	3	5	5	3	4	1	4	5	6									
AJK	52	9	1	1	2	0	1	1	2	0	0	2	1	2	0	1									
Gilgit-Baltistan	8	2	1	0	1	1	0	1	1	0	0	0	0	0	0	0									
Islamabad	17	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0									
<b>Pakistan</b>	<b>4777</b>	<b>968</b>	<b>108</b>	<b>94</b>	<b>84</b>	<b>85</b>	<b>99</b>	<b>78</b>	<b>81</b>	<b>86</b>	<b>62</b>	<b>105</b>	<b>59</b>	<b>78</b>	<b>89</b>	<b>97</b>									

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

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

¶ Data not complete



**SUMMARY OF CONTROL / OPERATIONS ROOM DATA - MARCH 2014 NIDs - 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
ATTOCK	253,819	260447	103	23784	136	23920	1095	55	1150
BAHAWALPUR	545,198	590451	108	57380	26	57406	382	0	382
BAHWLNAGAR	436,062	474467	109	38408	85	38493	2533	0	2533
BHAKKAR	233,639	258332	111	18189	23	18212	3014	11	3025
CHAKWAL	183,169	190218	104	11439	13	11452	518	2	520
CHINIOT	222,113	244532	110	25315	1	25316	884	0	884
DGKHAN	502,867	519480	103	44882	117	44999	25886	93	25979
FAISALABAD	1,188,067	1292059	109	136966	75	137041	3553	0	3553
GUJRANWALA	773,338	859889	111	114923	84	115007	13635	9	13644
GUJRAT	396,235	416946	105	35652	18	35670	1484	4	1488
HAFIZABAD	185,606	195817	106	23328	59	23387	2938	9	2947
JHANG	408,652	423875	104	40854	26	40880	23416	10	23426
JHELUM	168,175	170260	101	12191	0	12191	284	0	284
KASUR	519,081	557130	107	40464	8	40472	2337	0	2337
KHANEWAL	440,081	492121	112	45630	51	45681	2945	0	2945
KHUSHAB	171,390	183243	107	13510	0	13510	26	0	26
LAHORE	1,493,499	1485375	99	152061	536	152597	77418	280	77698
LAYYAH	263,332	291679	111	26058	21	26079	747	2	749
LODHRAN	278,064	289490	104	28275	41	28316	9654	18	9672
MBDIN	226,960	254741	112	22853	0	22853	2102	0	2102
MIANWALI	213,107	237866	112	20210	30	20240	2212	24	2236
MULTAN	721,871	822736	114	103882	270	104152	6934	131	7065
MUZFARGARH	720,800	788619	109	73016	42	73058	9206	24	9230
NANKANSAHIB	219,405	233325	106	23031	9	23040	2047	1	2048
NAROWAL	267,430	303869	114	31835	9	31844	4452	0	4452
OKARA	511,336	543325	106	64580	49	64629	5398	6	5404
PAKPATTEN	280,189	304720	109	32994	8	33002	2098	8	2106
RAJANPUR	355,176	379493	107	29780	59	29839	1300	0	1300
RAWALPINDI	711,354	785217	110	73753	1565	75318	3030	689	3719
RYKHAN	797,557	866457	109	83072	123	83195	5618	0	5618
SAHIWAL	393,141	430625	110	49808	0	49808	625	0	625
SARGODHA	538,197	576771	107	39946	29	39975	1333	0	1333
SHEIKHUPURA	540,222	583239	108	51277	32	51309	9983	7	9990
SIALKOT	571,297	630859	110	59347	26	59373	8276	9	8285
TTSINGH	326,122	369578	113	41460	28	41488	1025	1	1026
VEHARI	465,104	515374	111	51218	40	51258	3307	0	3307
<b>PUNJAB</b> 9	<b>16,521,654</b>	<b>17822625</b>	<b>108</b>	<b>1741371</b>	<b>3639</b>	<b>1745010</b>	<b>241695</b>	<b>1393</b>	<b>243088</b>

**SUMMARY OF CONTROL / OPERATIONS ROOM DATA - MARCH 2014 NIDs - SINDH**

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	326479	101	20125	127	20252	64	7	71
DADU	320,363	331227	103	20034	33	20067	18	3	21
GHOTKI	333,094	337045	101	32653	507	33160	914	17	931
HYDERABAD	297,844	292193	98	33172	2153	35325	8669	1656	10325
JACOBABAD	236,759	224321	95	17669	153	17822	996	35	1031
JAMSHORO	192,021	189752	99	13543	384	13927	867	19	886
KAMBAR	284,410	289675	102	25325	43	25368	3875	19	3894
KASHMORE	223,317	224902	101	14520	234	14754	2550	2	2548
KHAIRPUR	439,463	446229	102	32566	448	33014	2117	58	2175
KHIBALDIA	119,862	114741	96	4401	1153	5554	3343	993	4336
KHIBINQASIM	110,864	105470	95	3153	1206	4359	2421	1183	3604
KHIGADAP	220,401	65663	30	1477	214	1691	261	146	407
KHIGIQBAL	164,855	156696	95	5992	1535	7527	1340	1056	2396
KHIGULBERG	72,104	65506	91	4280	1445	5725	2028	898	2926
KHIJAMSHEED	137,878	128258	93	8941	2220	11161	3931	1199	5130
KHIKAMARI	111,454	111226	100	7332	472	7804	2026	191	2217
KHIKORANGI	145,435	139309	96	4499	437	4936	2454	312	2766
KHILANDHI	193,004	185764	96	6554	541	7095	2327	409	2736
KHILAYARI	91,749	93497	102	6454	513	6967	708	470	1178
KHILIAQAT	83,535	79425	95	5465	1621	7086	2615	1466	4081
KHIMALIR	76,740	76954	100	3661	417	4078	2084	295	2379
KHINNAZIM	72,605	64393	89	11075	4483	15558	548	2103	2651
KHINORTH	117,242	115335	98	9454	1477	10931	6126	1271	7397
KHIORANGI	165,733	127198	77	6288	2420	8708	3272	1772	5044
KHISADDAR	135,224	115559	85	4097	612	4709	154	112	266
KHISHAHFAISAL	74,088	70715	95	2591	743	3334	1296	465	1761
KHISITE	133,114	77066	58	3640	645	4285	1316	289	1605
LARKANA	295,939	292557	99	27903	59	27962	190	40	230
MATIARI	141,265	144255	102	14879	121	15000	166	0	166
MIRPURKHAS	272,599	279086	102	27237	554	27791	2837	322	3159
NFEROZ	268,954	283095	105	19086	50	19136	362	36	398
SANGHAR	362,964	372157	103	33502	675	34177	3893	486	4379
SBENAZIRABAD	303,691	314476	104	21485	152	21637	793	2	795
SHIKARPUR	242,392	244125	101	18703	313	19016	3703	38	3741
SUKKUR	262,412	268599	102	20410	81	20491	597	7	604
T.ALLAHYAR	145,225	147158	101	15760	203	15963	40	1	41
THARPARKAR	213,516	213465	100	11572	17	11589	481	0	481
THATTA	277,401	305453	110	19437	207	19644	678	10	688
TMKHAN	115,944	117993	102	8293	50	8343	56	1	57
UMERKOT	197,037	206454	105	16322	75	16397	519	5	524
<b>SINDH</b>	<b>7,974,810</b>	<b>7743471</b>	<b>97</b>	<b>563550</b>	<b>28793</b>	<b>592343</b>	<b>72635</b>	<b>17390</b>	<b>90025</b>

**SUMMARY OF CONTROL / OPERATIONS ROOM DATA - MARCH 2014 NIDs - KPK & 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	190,329	96	15,296	487	15783	4,710	408	5,118
BANNU	155,076	139,023	90	12,098	11,397	23495	556	9,611	10,167
BATAGRAM	79,399	83,447	105	6,799	46	6845	226	0	226
BUNER	176,890	182,056	103	13,572	6	13578	1,159	1	1,160
CHARSADA	Special SIAs conducted								
CHITRAL	69,940	57396	82	3626	2	3628	1143	0	1143
DIKHAN	269,775	257410	95	26618	1757	28375	4472	1081	5553
DIRLOWER	253,070	261189	103	19201	21	19222	897	0	897
DIRUPPER	151,458	188507	124	9836	11	9847	1217	1	1218
HANGU	115,850	106942	92	8411	547	8958	2184	466	2650
HARIPUR	156,872	183343	117	14323	392	14715	3128	287	3415
KARAK	112,904	118034	105	11092	1955	13047	457	1324	1781
KOHAT	190,762	195242	102	15431	1877	17308	2004	461	2465
KOHISTAN	78,456	79391	101	2863	18	2881	35	0	35
LAKKIMRWT	146,509	149255	102	14864	4697	19561	1836	2555	4391
MALAKAND	115,056	113776	99	8927	70	8997	1075	0	1075
MANSEHRA	282,153	270609	96	23154	737	23891	4814	645	5459
MARDAN	Special SIAs conducted								
NOWSHERA	272,815	238413	87	16956	4927	21883	3186	3196	6382
PESHAWAR	Special SIAs conducted								
SHANGLA	128,777	151643	118	6003	0	6003	1304	0	1304
SWABI	Special SIAs conducted								
SWAT	410,830	399156	97	25075	45	25120	3852	7	3859
TANK	76,966	77593	101	3880	357	4237	526	328	854
TORGHAR	39,948	36028	90	1118	28	1146	70	26	96
<b>KPK</b>	<b>3,481,787</b>	<b>3478782</b>	<b>100</b>	<b>259143</b>	<b>29377</b>	<b>288520</b>	<b>38851</b>	<b>20397</b>	<b>59248</b>
<b>FATA</b>									
BAJOUR	229,103	208825	91	15968	10	15978	3375	0	3375
FR BANNU	44,009	33165	75	1996	579	2575	301	499	800
FR DIKHAN	14,639	12314	84	1031	136	1167	202	110	312
FR KOHAT	20,257	18701	92	703	19	722	76	0	76
FR LAKKI	8,182	7479	91	643	140	783	96	18	114
FR PESHAWAR	12,719	11412	90	592	4	596	175	4	179
FR TANK	10,568	10103	96	626	2	628	18	0	18
KHYBER	228,980	115487	50	8115	265	8380	2936	169	3105
KURRAM	138,689	97346	70	12672	43	12715	4106	20	4126
MOHMAND	87,445	85685	98	5463	46	5509	1248	0	1248
ORAKZI	66,268	32427	49	1782	0	1782	327	0	327
WAZIR-N	162,177								
WAZIR-S	118,827	8,066	7	211	0	211	2	0	2
<b>FATA</b>	<b>1,141,863</b>	<b>641,010</b>	<b>56</b>	<b>49,802</b>	<b>1,244</b>	<b>51,046</b>	<b>12,858</b>	<b>820</b>	<b>13,678</b>

**SUMMARY OF CONTROL/ OPERATIONS ROOM DATA - MARCH 2014 NIDs - 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
AWARAN	29,712	26254	88	926	11	937	159	8	167
BARKHAN	25,593	25630	100	647	4	651	8	0	8
BOLAN	69,742	66096	95	3032	46	3078	50	34	84
CHAGHAI	52,393	33840	65	670	112	782	362	64	426
DBUGTI	40,753	19576	48	190	7	197	151	7	158
GWADUR	41,389	26236	63	1151	0	1151	119	0	119
HARNAI	19,700	21166	107	1070	14	1084	29	9	38
JAFARABAD	166,113	176647	106	12568	111	12679	820	60	880
JHALMAGSI	25,867	18539	72	458	0	458	312	0	312
KABDULAH	132,639	131154	99	4210	5283	9493	1638	1690	3328
KALAT	71,817	72040	100	3216	109	3325	118	5	123
KECH	147,489	125901	85	4310	0	4310	202	0	202
KHARAN	24,008	24559	102	102	6	108	11	6	5
KHUZDAR	115,475	119986	104	4996	0	4996	60	0	60
KOHLU	22,090	19791	90	101	0	101	18	0	18
KSAIFULAH	55,564	60594	109	962	708	1670	90	122	212
LASBELA	95,449	101492	106	3536	345	3881	530	317	847
LORALAI	62,244	64750	104	1700	612	2312	590	392	982
MASTUNG	53,617	41486	77	1022	483	1505	208	272	480
MUSAKHEL	28,123	27862	99	201	88	289	8	13	21
NOSHKI	33,986	34477	101	517	87	604	45	4	49
NSIRABAD	116,547	129833	111	8561	363	8924	866	160	1026
PANJGOUR	52,804	31714	60	1188	0	1188	604	3	601
PISHIN	111,040	105344	95	3000	5230	8230	1795	1712	3507
QUETTA	475,166	464799	98	15518	10134	25652	4588	441	5029
SHARANI	16,878	16703	99	280	63	343	65	0	65
SIBI	41,586	42666	103	2192	32	2224	113	18	131
WASHUK	19,205	16672	87	133	0	133	35	0	35
ZHOB	53,692	61640	115	1020	1793	2813	306	850	1156
ZIARAT	23,442	14245	61	723	100	823	340	51	391
<b>BALOCHISTAN</b>	<b>2,224,123</b>	<b>2121692</b>	<b>95</b>	<b>78200</b>	<b>25741</b>	<b>103941</b>	<b>13250</b>	<b>6232</b>	<b>19482</b>

**SUMMARY OF CONTROL / OPERATIONS ROOM DATA - MARCH 2014 NIDs - ISLAMABAD**

ISLAMABAD									
CDA	131,737	123,925	94	7,566	263	7,829	1,295	179	1,474
ICT	120,495	112,837	94	8,340	113	8,453	1,352	83	1,435
<b>ISLAMABAD</b>	<b>252,232</b>	<b>236,762</b>	<b>94</b>	<b>15,906</b>	<b>376</b>	<b>16,282</b>	<b>2,647</b>	<b>262</b>	<b>2,909</b>

**SUMMARY OF CONTROL/ OPERATIONS ROOM DATA - MARCH 2014 NIDs - AJ & K**

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
BAGH	61,525	62002	101	1459	10	1469	26	7	33
BHIMBER	70,615	72441	103	2905	14	2919	110	14	124
HATTIAN	39,697	40785	103	630	5	635	1	5	6
HAVELI	24,448	24345	100	953	0	953	7	0	7
KOTLI	131,557	136365	104	3273	38	3311	24	26	50
MIRPUR	73,551	77936	106	4388	9	4397	103	4	107
MUZAFFARABAD	108,607	112415	104	1324	0	1324	1	0	1
NEELUM	30,643	21341	70	226	0	226	33	0	33
POONCH	92,111	94142	102	1625	0	1625	177	0	177
SUDNUTI	48,802	49966	102	1137	3	1140	0	3	3
<b>AJK</b>	<b>681,556</b>	<b>691738</b>	<b>101</b>	<b>17920</b>	<b>79</b>	<b>17999</b>	<b>416</b>	<b>59</b>	<b>475</b>

**SUMMARY OF CONTROL/ OPERATIONS ROOM DATA - MARCH 2014 NIDs - GILGIT BALTISTAN**

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
ASTORE	16,409	14,640	89	271	1	272	0	0	0
DIAMER	45,323	46,307	102	305	0	305	0	0	0
GHANCHE	16,808	17,650	105	558	0	558	0	0	0
GHIZER	27,091	28,445	105	734	8	742	0	6	6
GILGIT	38,837	41,537	107	1,340	0	1,340	0	0	0
HUNZANAGAR	16,278	16,717	103	1,062	0	1,062	0	0	0
SKARDU	54,340	51,868	95	785	0	785	0	0	0
<b>G.BALTISTAN</b>	<b>215,086</b>	<b>217,164</b>	<b>101</b>	<b>5,055</b>	<b>9</b>	<b>5,064</b>	<b>0</b>	<b>6</b>	<b>6</b>

**SUMMARY OF CONTROL / OPERATIONS ROOM DATA - MARCH 2014 NIDs - 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
AJK	681,556	691738	101	17920	79	17999	416	59	475
BALUCHISTAN	2,224,123	2121692	95	78200	25741	103941	13250	6232	19482
FATA	1,141,863	641010	56	49802	1244	51046	12858	820	13678
GBALTISTAN	215,086	217164	101	5055	9	5064	0	6	6
ISLAMABAD	252,232	236762	94	15906	376	16282	2647	262	2909
KP	3,481,787	3478782	100	259143	29377	288520	38851	20397	59248
PUNJAB	16,521,654	17822625	108	1741371	3639	1745010	241695	1393	243088
SINDH	7,974,810	7743471	97	563550	28793	592343	72635	17390	90025
<b>TOTAL</b>	<b>32,493,111</b>	<b>32953244</b>	<b>101</b>	<b>2730947</b>	<b>89258</b>	<b>2820205</b>	<b>382352</b>	<b>46559</b>	<b>428911</b>

Pakistan has reported 59 wild polio cases so far in 2014 from nine districts. This compares with eight polio cases last year till this point in time, from seven districts. Major share of polio cases this year comes from FATA (46; 78%) and Khyber Pakhtunkhwa (9; 15.2%). Four (6.8%) polio cases have been reported from Karachi.

Almost all the polio cases this year have come from the areas that have barriers between vaccinators and the children, including North Waziristan, South Waziristan and FR Bannu in FATA, Peshawar in Khyber Pakhtunkhwa and Karachi in Sindh. North Waziristan alone has reported 40 polio cases this year. In fact, since January 2013 following the initiation of the series of killing of the polio health workers and guarding security personnel, majority of the polio cases have been reported from such areas (84% in 2013 and 92% in 2014) indicating that persistent inability to access to all the children is the foremost hurdle in Pakistan.

Pakistan did make a long way towards polio eradication since 2011. About 200 polio cases were reported in 2011 with transmission spread almost all across the four major provinces of the country and the Federally Administered Tribal Areas (FATA). It's worth mentioning that a very stubborn polio reservoir of Quetta Block, has not reported any polio cases for more than year now. Likewise, the largest province of the country Punjab has not reported any polio case this year.

Pakistan has been confronted by an unprecedented targeted violence against the program since December 2012, 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.

Significant steps have been taken during the last months to overcome the current concerning situation in the country;

- a. Meticulous planning has been made to maintain the status of the areas without polio cases. In this regard, intensified Supplementary Immunization Activities (SIAs) strategy was implemented in 2013 and 2014 so far. It is important to mention that, a very thoroughly thought out, intensified SIAs strategy has been implemented during the last six months utilizing the low transmission season. For the first time since long, three nation-wide rounds were conducted during the first trimester (Jan-Mar) of the year. Additional three to five targeted vaccination rounds were conducted in areas with high risk of viral importation.
- b. Likewise, a very aggressive case response strategy has been in place that has not allowed any viral establishment in areas outside the reservoirs. Three vaccination rounds within 4-6 weeks of the confirmation of polio cases outside the reservoirs has been the standard.
- c. More than 8 million children were vaccinated in 2013 on transit points set up permanently at key locations, with special focus on the areas of FATA and Khyber Pakhtunkhwa that either did not conduct SIAs for long time, or had significant issues in reaching all children during 2013.
- d. A proactive approach of conducting SIAs in one day was successfully utilized in the high risk Peshawar and Karachi, using enhanced operational and security arrangements. More than 8 million OPV doses were given in Peshawar since 2<sup>nd</sup> February. Importantly, no health worker or police personnel were killed. The initiative is now being expanded to other high risk parts of Khyber Pakhtunkhwa.
- e. With intense advocacy efforts, polio eradication is part of the peace negotiation in FATA. Very recently, Pakistan Army has been formally taken onboard to assist in polio eradication, with focus in North Waziristan, South Waziristan and Bara sub-division of Khyber Agency.

It is important to note that the geo-political situation in FATA, especially the afore-mentioned tribal agencies is very unique and the security situation is quite volatile. The program has been making solid multiple efforts to make it possible to vaccinate the children in these areas. During the next six months, the intensified approach for areas with barriers to vaccination is as follow;

- a. For Peshawar and Karachi; a rapid assessment of the intensified activities and further fine tune to reach any missed children during the coming months.
- b. With Pakistan Army onboard, it is highly likely that, some vaccination will initiate in North and South Waziristan. The initial approach may not be the house to house, vaccination; however, the transit points, schools and functional health facilities inside the tribal agencies may initiate vaccination. Community will be taken onboard through local influential (Maliks) and self-vaccination by families will be promoted. House to house vaccination will be initiated as soon as the situation is conducive with the help of the religious leaders and the Army.
- c. Pakistan Army will also facilitate more consistent house to house vaccination SIAs in Bara, possibly using one-day approach.
- d. Upcoming meeting of the National Islamic Advisory Group in May/June is expected to contribute to the facilitation for vaccination in FATA and also in Karachi and Peshawar.
- e. The permanent transit strategy is being assessed and will be further intensified, where needed.

Hopefully, Pakistan will make significant strides to overcome its current barriers and move rapidly in a positive direction during the next 6 months. Recently, the polio eradication has been included in the ongoing peace process and dialogues with the local leaders of North Waziristan. Moreover, the Pakistan Military has recently been asked by the Government of Pakistan to assist the polio eradication activities in the country. The recent developments indicate a ray of hope for possibly gaining consistent access to the key areas of North and South Waziristan and Bara in Khyber Agency. Contingency plans have been put in place, to enable the program for immediately utilizing any window of access opportunity in these places.