

**Pakistan**

Total number of states \ provinces: 7

**Immunization**

Immunization coverage (2009 nat. WHO-UNICEF estimates) DTP3 **85%** Pol3 **85%**

**Non Polio AFP Profile**

<i>Percent 0-dose (national)</i> <b>1.9%</b>	<i>Percent states with &lt; 10% 0-dose NPAFP children</i> Non-adjusted <b>80% (4 of 5)</b> % within acceptable range <b>80% (4 of 5)</b>
<i>Percent 4+ doses (national)</i> <b>94.8%</b>	<i>Percent states with &gt; 80% 4+dose NPAFP children</i> Non-adjusted <b>80% (4 of 5)</b> % within acceptable range <b>80% (4 of 5)</b>

Independent Monitoring (IM data were not collected, or were not available in detail for all rounds shown)

<i>Campaign type</i>  (mixed rounds abbreviated as: t, b, 1, 3)	<i>Start date</i>	<i>National indicator</i>		<i>Sub national indicator</i>	
		Percent missed children (finger marking)		Percent of states with < 10% missed children	
		House to House (%)	Out of house (%)	House to House	Out of house
SNID-OPVm1	14-Jun-10				
SNID-OPVm1	17-Jun-10				
NID-OPVb	12-Jul-10				
CHD-OPVm1	15-Sep-10				
SNID-OPVb, t	27-Sep-10				
SNID-OPVb, t	11-Oct-10				
NID-OPVb, t	08-Nov-10				
NID-OPVb	28-Dec-10				
SNID-OPVb	31-Jan-11				
NID-OPVt	07-Mar-11				
SNID-OPVb	04-Apr-11				
NID-OPVb	09-May-11				
SNID-OPVb	04-Jun-11				

**Surveillance**

**Polio Cases (W1, W3, and VDPVs)**

<i>Serotype</i>	<i>Count</i>				<i>Date of onset for last case</i>
	2010 (Jan-Dec)		2011 (Jan-present)		
	cases	districts	cases	districts	
W1	120	34	49	23	23-May-11
W3	24	12	0	0	18-Nov-10

**Non Polio AFP data**

<i>NPAFP rate (national)</i> <b>6.5</b>	<i>Percent states with NPAFP rate &gt;= 2</i> Non-adjusted <b>100% (8 of 8)</b> % within acceptable range <b>100% (8 of 8)</b>
<i>% adequate stools (nat.)</i> <b>88.6%</b>	<i>Percent states with adequate stool proportion &gt;= 80%</i> Non-adjusted <b>100% (8 of 8)</b> % within acceptable range <b>100% (8 of 8)</b>
<i>Percent of population &lt;15 years of age living in states / prov. where both surveillance indicators are met</i> <b>100%</b>	

**Poliovirus History**

The WPV1 viruses in Pakistan during 2011 represent a complex pattern of endemic transmission. In the second half of 2010 and 2011, the viruses were from four genetic clusters with two additional clusters detected in environmental specimens. Almost all of the isolates are from two clusters, one with mostly local transmission in KP/FATA and the second with additional chains of transmission in the south. Three of the clusters were also found in Afghanistan; however, the various chains of transmission were often distinct from those in Afghanistan. More than half the WPV1 cases were from a single genetic cluster with multiple chains of transmission that correlated with at least four geographic areas in three provinces. In all instances, there is evidence of local transmission. In the case of Baluchistan, there is also evidence of cross-border transmission in addition to local circulation. There are several

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viruses detected from healthy children sampling and environmental surveillance that represent undetected circulation from two genetic clusters seen in 2009.

The WPV3 virus in Pakistan during the second half of 2010 represents an improving situation of endemic transmission. All of the WPV3 cases were from a single genetic cluster with multiple chains of transmission correlated with at least three geographic areas in two provinces. Viruses from this cluster were found in environmental specimens in a third province. In all instances, there is evidence of only local transmission. No WPV3 viruses have been detected in 2011.

Based upon the close genetic linkage among many of the virus isolates in 2011, it is unlikely that there are significant missed chains of transmission in some parts of Pakistan. However, the significant proportion of isolates with much less genetic linkage than expected during the last year, as well as several chains of transmission and two genetic clusters that are only detected from environmental surveillance, indicates the potential for surveillance gaps at the sub-national level.

**Data Completeness**

Percent of NPAFP cases with unknown age	0%
Percent of 6-35 month old NPAFP cases with unknown dose history	0%