

**Pakistan**

Total number of states \ provinces: 7

**Immunization**

Immunization coverage (2009 nat. WHO-UNICEF estimates) DTP3 **88%** Pol3 **88%**

**Non Polio AFP Profile**

<i>Percent 0-dose (national)</i> <b>2.3%</b>	<i>Percent states with &lt; 10% 0-dose NPAFP children</i> Non-adjusted <b>50% (3 of 6)</b> % within acceptable range <b>66.7% (4 of 6)</b>
<i>Percent 4+ doses (national)</i> <b>94.1%</b>	<i>Percent states with &gt; 80% 4+dose NPAFP children</i> Non-adjusted <b>50% (3 of 6)</b> % within acceptable range <b>50% (3 of 6)</b>

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

<i>Campaign type</i>	<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
(mixed rounds abbreviated as: t, b, 1, 3)					
CHD-OPVm1+b+t	15-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				
NID-OPVb	18-Jul-11				

Summarized data are presented in CDC's 3rd quarter Progress Report on the GPEI Major Process Indicators

**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)		
	<i>cases</i>	<i>districts</i>	<i>cases</i>	<i>districts</i>	
W1	120	34	76	28	17-Aug-11
W3	24	12	1	1	09-Jun-11

**Non Polio AFP data**

<i>NPAFP rate (national)</i> <b>6.6</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>89.1%</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**

In 2011, wild PV1 circulated widely in Pakistan; eight genetic clusters were represented in AFP and environmental specimens. More than half of the viruses are from a single cluster with multiple chains of transmission, scattered in four different provinces. In all instances, there is evidence of local transmission. In the case of Baluchistan, cross-border transmission also occurs. Viral genetic diversity was highest in NWFP, but levels of virus circulation were high in Baluchistan and Sindh. □□WPV3 virus circulation in Pakistan declined at the end of 2010. All of the WPV3 cases (5) from AFP specimens in the last quarter 2010 were from a single genetic cluster from a couple of chains of transmission. An additional chain of transmission was detected only in environmental specimens in late 2010. A single WPV3 virus was detected from an AFP case in mid-2011 in NWFP in an area where the cluster was endemic throughout 2010. No WPV3 viruses have been detected in environmental specimens 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

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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%