

4th Quarter 2011

Progress Report of the GPEI Major Process Indicators for 2011

Centers for Disease Control & Prevention

24 January 2012

Methodology notes

The data used for this report are from: i) Acute Flaccid Paralysis (AFP) surveillance, used to determine sub-national non-polio AFP rates, the proportion of AFP case-patients from whom adequate stool specimens are collected, and the number of oral polio vaccine (OPV) doses received by non-polio AFP case-patients and ii) independent monitoring (IM) of Supplementary Immunization Activities (SIAs). The 2011 Major Process Indicators (MPIs) were assessed using AFP data from the period 28 December 2010 – 27 December 2011 and all IM data available from SIAs conducted between 1 January – 31 December 2011. At the recommendation of the Independent Monitoring Board (July 2011 report), the Major Process Indicators for Nigeria and the Democratic Republic of the Congo (DRC) were revised/augmented in September 2011 by consensus of CDC, the World Health Organization and the Ministries of Health. This report will give the final assessment for the 2011 MPIs.

AFP data considerations:

- Non-polio AFP rate assessed in non-polio AFP case-patients < 15 years in age.
- Stool adequacy is calculated as 2 stools collected within 14 days of paralysis onset and in “good” condition as reported by the receiving laboratory. All AFP case-patients are assessed regardless of age.
- Sub-national non-polio AFP rate assessed in areas with population aged <15 years of >100,000. The sub-national population estimates provided by each country for 2011 were used in the current assessment.
- OPV doses assessed in children with non-polio AFP 6-35 months of age.
- In the assessment presented in this report and as per WHO standard AFP surveillance guidelines, the MPIs that refer to the non-polio AFP rate and percent of adequate stools were considered to be met if they were ≥ 2 and $\geq 80\%$, respectively. This differs from how the MPIs were written in the GPEI Strategic Plan, where these indicators were considered met at >2 and $>80\%$, respectively.

Independent Monitoring data:

- When both house-to-house and out-of-house monitoring data were available for a given SIA, we report the higher percentage of missed children.
- For access-compromised regions in Afghanistan and Pakistan, the WHO Eastern Mediterranean Regional Office (EMRO) provided CDC “adjusted” results which add the number of children inaccessible for immunization to the number of missed children.

Population immunity considerations:

- For India, population immunity to poliovirus type 1 and type 3 will be based upon serologic studies. Data collected in 2011 were not yet available in final form for presentation in this report, although preliminary results are provided.

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2011 Major Process Indicators

GPEI Major Process Indicator - 2011		Outcome			Change	Final Status of Achievement	
		Measurement	3rd Qrt. ¹	Current Qrt. ²			
All Countries							
Non-polio AFP rate ≥ 2 and $\geq 80\%$ adequate specimen rate achieved at sub-national level in all endemic, re-established transmission, and "WPV importation belt" countries	non-polio AFP rate	Endemic countries	Countries achieved	3 of 4	3 of 4	→	Not achieved
		Re-established transmission countries	Countries achieved	2 of 4	2 of 4	→	
		"WPV importation belt" countries	Countries achieved	2 of 19	5 of 19	↑	
		2009, 2010, or 2011 outbreak countries outside of the "WPV importation belt"	Countries achieved	1 of 10	2 of 12 <i>(without data China is not counted)</i>	↑	
	specimen adequacy	Endemic countries	Countries achieved	1 of 4	1 of 4	→	
		Re-established transmission countries	Countries achieved	1 of 4	1 of 4	→	
		"WPV importation belt" countries	Countries achieved	2 of 19	3 of 19	↑	
		2009, 2010, or 2011 outbreak countries outside of the "WPV importation belt"	Countries achieved	1 of 10	4 of 12 <i>(without data China is not counted)</i>	↑	
Afghanistan							
<10% missed children during at least 6 SIAs in each of the 13 conflict-affected districts with persistent transmission in the Southern region		Districts achieved	0 of 13 <i>(based on five SIAs)</i>	0 of 13	→	Not achieved	
India							
>95% population immunity to type 1 and type 3 polio in the persistent transmission areas of western Uttar Pradesh and central Bihar		States achieved	Results pending <i>(survey conducted 6-10 Aug.)</i>	Preliminary results <i>(as of 23 Jan. 2012)</i>		Pending final results	
Nigeria							
<10% missed children in at least 90% of the Local Government Areas (LGAs) during at least 4 SIAs in each of the 12 high-risk states		States achieved	3 of 12	4 of 12	↑	Not achieved	
>80% of children with ≥ 3 doses of OPV (per NPAFP data) in each of the 12 high-risk states (including the 8 persistent transmission states)		States achieved	9 of 12	9 of 12	→	Not achieved	
Pakistan							
<10% missed children during at least 8 SIAs in the Quetta area and in the persistent transmission districts and agencies of NWFP and FATA		Districts achieved	1 of 7 <i>(based on four SIAs)</i>	1 of 7	→	Not achieved	
>90% of children with >6 doses of OPV in Sindh and Punjab		Provinces achieved	0 of 2 <i>(Punjab at 89.4% and Sindh at 86.2%)</i>	0 of 2 <i>(Punjab at 89.5% and Sindh at 87.3%)</i>	→	Not achieved	
Angola							
<10% missed children in all districts of Luanda, Benguela, and Kwanza Sul during each SIA		Districts achieved <i>(with data)</i>	6 of 21	6 of 21	→	Not achieved	
Chad							
<10% missed children in greater NDjamena and in the southern and eastern WPV transmission zones during each SIA		Zones achieved	0 of 3	0 of 3	→	Not achieved	
Democratic Republic of the Congo							
<10% missed children during at least 4 SIAs in Bandundu, Bas-Congo, Katanga, Kinshasa, North Kivu, Orientale, and South Kivu		Provinces achieved	3 of 7	4 of 7	↑	Not achieved	
Non-polio AFP rate ≥ 2 with $\geq 80\%$ adequate specimen rates in all provinces	NPAFP	Provinces achieved	11 of 11	11 of 11	→	Not achieved	
	Spec.	Provinces achieved	2 of 11	4 of 11	↑		
South Sudan							
<10% missed children in each state during each SIA		States achieved	4 of 10	4 of 10	→	Not achieved	
Non-polio AFP rate ≥ 2 with $\geq 80\%$ adequate specimen rates in all states	NPAFP	States achieved	10 of 10	10 of 10	→	Achieved	
	Spec.	States achieved	10 of 10	10 of 10	→		
WPV importation belt							
<10% missed children in 2 SIAs in all 1st and 2nd level priority countries in the "WPV importation belt"		Countries achieved <i>(with data)</i>	11 of 19	11 of 19 <i>(data available for 17 countries)</i>	→	Not achieved	

¹ Date of Third Quarter data: IM (January - September 2011), NPAFP (September 2010 - September 2011)

² Date of the current 4th quarter data: IM (January - December 2011), NPAFP (December 28, 2010 - December 27, 2011)

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2011 Major Process Indicators reported by WHO-HQ

Progress report on the Major Process Indicators on outbreak response are provided by WHO-HQ.

GPEI Major Process Indicator - 2011	Outcome	Final Status of Achievement
	Current Quarter	
Outbreak countries		
100% of WPV importations in previously polio-free areas responded to as per international outbreak response guidelines	9 of 10 importation events responded to as per international outbreak response guidelines <i>(Cote d'Ivoire was unable to conduct an SIA response within 4 weeks of notification due to civil unrest. The first response was conducted 8 weeks after notification.)</i>	Not achieved
100% of cVDPVs in previously polio-free areas responded to as per international outbreak response guidelines	1 of 3 new cVDPV emergences in previously polio free areas responded to as per international outbreak response guidelines <i>(Mozambique response was conducted 7 weeks after notification. Yemen response delayed due to insecurity in affected area)</i>	Not achieved
International assessment conducted in 90% of countries with importation events persisting >6 months	1 outbreak >6months <i>(International assessment was conducted in Mali)</i>	Achieved

Detailed results:

End-2011: 100% of WPV importations and cVDPVs in previously polio-free areas responded to per updated outbreak response guidelines based on 2010 operational research and clinical trials

Response to importations in previously polio free areas, 2011

Country	Date of case notification	Date of SIA response	Weeks between confirmation of case and SIA response	Comment	MPI met? (yes / no)
Côte d'Ivoire	31-Mar-11	27-May-11	8	Planned response delayed due to civil unrest	No
Gabon	20-Feb-11	27-Jan-11	0	Preventive campaign conducted in advance of case confirmation	Yes
Mali	31-Mar-11	25-Mar-11	0	Preventive campaign conducted in advance of case confirmation	Yes
Guinea	1-Jun-11	28-May-11	0	Preventive campaign conducted in advance of case confirmation	Yes
Niger (W1)	14-Mar-11	1-Apr-11	3	Preventive campaign conducted in advance of case confirmation	Yes
Kenya	25-Aug-11	24-Sep-11	4	Campaign conducted in response to case confirmation	Yes
China	26-Aug-11	8-Sep-11	2	Campaign conducted in response to case confirmation	Yes
Niger (W3)	30-Nov-11	30-Dec-11	4	Campaign conducted in response to case confirmation	Yes
Niger (W1)	14-Dec-11	13-Jan-12	4	Campaign conducted in response to case confirmation	Yes
Central African Republic	4-Oct-11	3-Nov-11	4	Campaign conducted in response to case confirmation	Yes

Response to new cVDPV emergences in previously polio free areas, 2011

Country	Date of case notification	Date of SIA response	Weeks between confirmation of case and SIA response	Comment	MPI met? (yes / no)
Mozambique (cVDPV1)	22-Jul-11	12-Sep-11	7		No
Yemen (cVDPV2)	18-Aug-11	17-Dec-11	17	Delayed due to civil unrest	No
Democratic Republic of Congo (cVDPV2)	4-Jan-12	24-Jan-12	3		Yes

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2011 Major Process Indicators – Detailed Results

All countries

End-2011: Non-polio AFP rate ≥ 2 and $\geq 80\%$ adequate specimen rate achieved at the sub-national level in all endemic, re-established transmission and 'WPV importation belt' countries.

Category	Country	Number of state\provinces with > 100,000 children under 15 y/o.			Number of state\provs. with proportion of adequate specimens*:		Achieved 4th Qrt.	Achieved 3rd Qrt.	
		NPAFP rate			$\geq 80\%$	< 80%			
		≥ 2	< 2	silent					
1 2 3 4	Endemic	Afghanistan	31	0	0	30	2	No	No
		India	31	2	1	28	5	No	No
		Nigeria	37	0	0	37	0	Yes	No
		Pakistan	8	0	0	7	1	No	Yes
1 2 3 4	Re-established	Angola	11	7	0	16	2	No	No
		Chad	17	0	0	7	11	No	No
		Democratic Republic of the Congo	11	0	0	4	7	No	No
		South Sudan and Sudan	21	4	0	25	0	No	No
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	WPV importation belt	Benin	10	2	0	10	2	No	No
		Burkina Faso	12	1	0	7	6	No	No
		Cameroon	5	5	0	8	2	No	No
		Central African Republic	6	0	0	4	3	No	No
		Côte d'Ivoire	17	2	0	1	18	No	No
		Eritrea	5	0	0	6	0	Yes	No
		Ethiopia	9	1	0	6	5	No	No
		Gambia	0	1	0	2	3	No	No
		Ghana	8	2	0	6	4	No	No
		Guinea	8	0	0	0	8	No	No
		Guinea-Bissau	1	2	0	2	3	No	No
		Liberia	2	3	0	12	3	No	No
		Mali	8	0	0	6	3	No	No
		Mauritania	6	1	0	13	0	No	No
		Niger	7	1	0	3	5	No	No
		Senegal	6	5	0	6	5	No	No
		Sierra Leone	4	0	0	3	1	No	No
		Somalia	15	1	0	18	1	No	No
		Togo	5	1	0	6	0	No	No
1 2 3 4 5 6 7 8 9 10 11 12 13	2009, 2010, or 2011 outbreak (outside of WPV importation belt), including 2011 cVDPV outbreaks	Burundi	10	7	0	14	2	No	No
		China						no data	no data
		Congo	3	2	0	6	5	No	No
		Gabon	0	2	0	3	3	No	No
		Kazakhstan **	14	1	0	15	1	No	No
		Kenya	7	1	0	6	2	No	No
		Mozambique	9	1	0	8	2	No	No
		Nepal	5	0	0	5	0	Yes	No
		Russian Federation **	20	46	2	69	8	No	No
		Tajikistan **	3	2	0	6	0	No	Yes
		Turkmenistan **	3	3	0	6	0	No	No
		Uganda	33	27	2	54	19	No	No
		Yemen	21	0	0	22	0	Yes	Yes

* Stool adequacy is calculated as 2 stools collected within 14 days of paralysis onset and in "good" condition as reported by the laboratory.

** In the above table these countries are assessed using a NPAFP rate ≥ 2 . Countries from a previously polio free region which have not had WPV in the last 12 months are expected to maintain a NPAFP rate of ≥ 1 per 100,000 children under 15 years of age.

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End-2011, **Afghanistan**: <10% missed children during at least 6 SIAs in each of the 13 conflict-affected districts with persistent transmission in the Southern Region

Province	District	Percent of children missed in each round								Achieved 4th Qrt.	Achieved 3rd Qrt.
		Round 1	Round 2	Round 3	Round 4	Round 5	Round 6	Round 7	Round 8		
		30-Jan-11	13-Mar-11	2-May-11	5-Jun-11	10-Jul-11	17-Sep-11	23-Oct-11	4-Dec-11		
Helmand	Bust (LashKar Gah)	30.6	15.4	15.8	22.6	22.1	29.2	17.2	12.4	No	No
	Musa Qala	6.7	5.9	17.1	12.8	11.7		8.9	23.3	No	No
	Nad-E Ali	46.6	48.0	38.5	39.5	33.7	31.1	35.4	74.8	No	No
	Naw Zad	29.0	16.3	12.2	38.3	21.4		19.4	24.3	No	No
	Sarban Qala (Sangin)	36.5	33.4	33.6	30.1	27.8		23.8	22.7	No	No
Kandahar	Qandahara / Dand	8.2	7.8	10.3	8.5	7.2	5.7	11.7	37.8	No	No
	Maiwand	54.5	63.2	61.4	57.9	64.4	61.7	66.8	87.3	No	No
	Panjwai	85.8	66.7	66.7	74.9	76.7	69.2	76.7	69.9	No	No
	Shah Wali Kot	85.9	90.9		89.7	89.8	89.7	89.2	86.3	No	No
	Spin Boldak	14.8	17.0	15.9	20.8	16.2	24.0	21.3	61.2	No	No
Urozgan	Deh Rawud	12.5	29.9	35.7	36.9	31.0	27.7	26.6	63.9	No	No
	Shahid Hassas	53.5	17.7	41.2	45.2	27.0	33.9	29.1	91.9	No	No
	Tirin Kot	33.0	56.1	58.0	55.1	53.6	49.7	52.0	62.3	No	No

Results in access compromised districts are "adjusted" by adding the number of children inaccessible for immunization to the number of 'missed children'

End-2011, **India**: >95% population immunity to type 1 and type 3 polio in the persistent transmission areas of western Uttar Pradesh and central Bihar

The 2011 survey was conducted on August 6-10 in the same high risk blocks of western UP and Bihar studied in 2010. The survey will assess immunity to all three serotypes among children 6-11 months of age; the age group for the 2010 survey was 6-7 months. The final results are expected in the first quarter of 2012.

State	Number of district	Number of blocks	Percent of children seropositive to type 1*	Percent of children seropositive to type 3	Achieved 4th Qrt.	Achieved 3rd Qrt.
Bihar	7	10	99.1	87	preliminary results**	no data
Uttar Pradesh	9	10	97.9	89.4		no data

* In 2010 the major process indicator for type 1 was achieved (98% in both Bihar and UP). The proportion of children seropositive to type 3 was 78% in Bihar and 76% in Uttar Pradesh

** On the date of this report, 23 January 2012, the National Polio Surveillance Project in India reported these preliminary results

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End-2011, Nigeria: <10% missed children in at least 90% of the Local Government Areas (LGAs) during at least 4 SIAs in each of the 12 high-risk states

All states conducted ≥ 4 SIAs in 2011, and of those, if ≥ 4 SIAs had $\geq 90\%$ of LGAs with <10% missed children, the state is scored as "Yes". If <4 SIAs had $\geq 90\%$ of LGAs with <10% missed children, the state is scored as "No".

States	Month of SIA:	LGAs with <10% missed children			Achieved 4th Qrt.	Achieved 3rd Qrt.	States	Month of SIA:	LGAs with <10% missed children			Achieved 4th Qrt.	Achieved 3rd Qrt.
		Percent	< 10%	$\geq 10\%$					Percent	< 10%	$\geq 10\%$		
Bauchi *	Jan.	85.0	17	3	No	No	Katsina *	Jan.	85.3	29	5	No	No
	Feb.	90.0	18	2				Feb.	88.2	30	4		
	Mar.	88.9	16	2				May	85.3	29	5		
	Jun.	80.0	16	4				Jun.	82.4	28	6		
	Jul.	80.0	16	4				Jul.	79.4	27	7		
	Sep.	90.0	18	2				Sep.	100.0	34	0		
	Dec.	100.0	20	0				Dec.	88.2	30	4		
Borno *	Jan.	92.6	25	2	No	No	Kebbi	Jan.	57.1	12	9	No	No
	Feb.	88.9	24	3				Feb.	61.9	13	8		
	Mar.	92.6	25	2				Mar.	38.1	8	13		
	May	92.6	25	2				May	71.4	15	6		
	Jun.	88.9	24	3				Jun.	47.6	10	11		
	Sep.	85.2	23	4				Jul.	66.7	14	7		
	Dec.	88.9	24	3				Sep.	76.2	16	5		
Gombe	Jan.	100.0	11	0	Yes	Yes	Niger	Jan.	59.1	13	9	No	No
	Mar.	100.0	11	0				Feb.	56.0	14	11		
	Jun.	100.0	11	0				Mar.	68.0	17	8		
	Sep.	100.0	11	0				Jun.	68.0	17	8		
Jigawa *	Dec.	90.0	9	1	Yes	Yes	Sokoto *	Sep.	72.0	18	7	Yes	Yes
	Jan.	100.0	27	0				Dec.	72.0	18	7		
	Feb.	100.0	27	0				Jan.	100.0	23	0		
	Mar.	100.0	27	0				Feb.	95.7	22	1		
	May	100.0	27	0				Mar.	91.3	21	2		
	Jun.	81.5	22	5				May	91.3	21	2		
	Jul.	96.3	26	1				Jun.	91.3	21	2		
	Sep.	74.1	20	7				Jul.	91.3	21	2		
Kaduna	Oct.	92.6	25	2	No	No	Yobe *	Sep.	91.3	21	2	No	No
	Dec.	74.1	20	7				Dec.	78.3	18	5		
	Jan.	65.2	15	8				Jan.	82.4	14	3		
	Feb.	60.9	14	9				Feb.	70.6	12	5		
	Mar.	69.6	16	7				Mar.	75.0	12	4		
	Jun.	73.9	17	6				May	88.2	15	2		
Kano *	Jul.	60.9	14	9	No	No	Zamfara *	Jun.	70.6	12	5	Yes	No
	Sep.	69.6	16	7				Jul.	70.6	12	5		
	Dec.	73.9	17	6				Sep.	70.6	12	5		
	Jan.	68.2	30	14				Dec.	76.5	13	4		
	Feb.	65.9	29	15				Jan.	85.7	12	2		
	Mar.	65.9	29	15				Feb.	85.7	12	2		
	May	77.3	34	10				Mar.	92.9	13	1		
	Jun.	68.2	30	14				May	78.6	11	3		
Jul.	68.2	30	14	Jun.	85.7	12	2						
Sep.	61.4	27	17	Jul.	92.9	13	1						
Oct.	68.2	30	14	Sep.	92.9	13	1						
							Dec.	100.0	14				

* Persistent transmission states

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End-2011, Nigeria: >80% of children with ≥ 3 doses of OPV (per NPAFP data) in each of the 12 high-risk states (including the 8 persistent transmission states)

States	Population under 15 years of age	Number of NPAFP cases ≥ 3 doses	Number of NPAFP cases < 3 doses	Percent ≥ 3 doses	Achieved 4th Qt.	Achieved 3rd Qt.
Bauchi *	2,487,314	119	4	96.7	Yes	Yes
Borno *	2,261,133	62	22	73.8	No	No
Gombe	1,239,925	68	3	95.8	Yes	Yes
Jigawa *	2,257,582	95	9	91.3	Yes	Yes
Kaduna	3,164,763	91	11	89.2	Yes	Yes
Kano *	4,966,922	146	51	74.1	No	No
Katsina *	3,021,833	80	14	85.1	Yes	Yes
Kebbi	1,697,722	101	5	95.3	Yes	Yes
Niger	2,101,066	116	5	95.9	Yes	Yes
Sokoto *	1,928,625	69	20	77.5	No	Yes
Yobe *	1,240,796	62	13	82.7	Yes	No
Zamfara *	1,717,151	84	12	87.5	Yes	Yes

* Persistent transmission states

The Major Process Indicator for Nigeria changed in 2011 from assessing non-polio AFP 0-dose to ≥ 3 dose status. The final classification of the 2010 MPI was presented in the first quarter 2011 report; however, due to the importance of this indicator, 0-dose status is being reported below using non-polio AFP data for the last 12 months (28 December 2010 – 27 December 2011)

End-2010, Nigeria: <10% 0-dose children (per NP AFP data) in each of the 12 high-risk states (including the 8 persistent transmission states)

States	Population under 15 years of age	Number of 0-dose NPAFP cases	Total number of NPAFP cases	Percent 0-dose	Achieved 2011	Achieved 2010
Bauchi *	2,487,314	0	123	0	Yes	Yes
Borno *	2,261,133	9	84	10.7	No	No
Gombe	1,239,925	0	71	0	Yes	Yes
Jigawa *	2,257,582	1	104	1.0	Yes	Yes
Kaduna	3,164,763	5	102	4.9	Yes	Yes
Kano *	4,966,922	16	197	8.1	Yes	Yes
Katsina *	3,021,833	6	94	6.4	Yes	Yes
Kebbi	1,697,722	3	106	2.8	Yes	Yes
Niger	2,101,066	0	121	0	Yes	Yes
Sokoto *	1,928,625	3	89	3.4	Yes	Yes
Yobe *	1,240,796	0	75	0	Yes	Yes
Zamfara *	1,717,151	1	96	1.0	Yes	Yes

* Persistent transmission states

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End-2011, Pakistan: <10% missed children during at least 8 SIAs in the Quetta area and in the persistent transmission district Khyber Pakhtunkhwa (formerly known as NWFP) and agencies of FATA

Province	District / agency	Percent of children missed in each round: *									Achieved 4th Qrt.	Achieved 3rd Qrt.
		Round 1	Round 2	Round 3	Round 4	Round 5	Round 6	Round 7	Round 8	Round 9		
		31-Jan-11	7-Mar-11	4-Apr-11	9-May-11	13-Jun-11	18-Jul-11	9-Sep-11	22-Oct-11	19-Dec-11		
Balochistan	Killa Abdullah	11	12	13	16	25	22	18	14	10	No	No
	Quetta	6	18	10	6	8	12	10	9	17	No	No
	Pishin	12	8	5	10	15	14	15		15	No	No
FATA**	Bajour	14	9	3		9	7	3	4	3	No	No
	Khyber	48	50	4	48	52	42	13	10	9	No	No
	Mohmand	23	20	10	20	23	24	13	16	13	No	No
Khyber-Pakhtunkhwa (NWFP)	Peshawar	4	7	3	4	4	4	4	2	2	Yes	Yes

* Results in access compromised districts are "adjusted" by adding the number of children inaccessible for immunization to the number of 'missed children'.

** October data for FATA were not "adjusted" for inaccessible children.

No data available

End-2011, Pakistan: >90% of children with > 6 doses of OPV in Sindh and Punjab

Province	Total number of NPAFP cases (6-35 month old children)	Percent with >6 doses OPV	Achieved 4th Qrt.	Achieved 3rd Qrt.
Punjab	1125	89.5	No	No
Sindh	521	87.3	No	No

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The Major Process Indicator for Pakistan changed in 2011 and no longer assesses the percent of missed children in the towns of Karachi. The final classification of the 2010 MPI was presented in the first quarter 2011 report; however, due to the importance of this indicator, it is being reported below using the last 12 months of independent monitoring data (1 January 2011 – 31 December 2011)

End-2010, Pakistan: <10% missed children during at least 4 SIAs in every town of Karachi

District	Town	Percent of children missed in each round:									Achieved 2011	Achieved 2010
		Round 1	Round 2	Round 3	Round 4	Round 5	Round 6	Round 7	Round 8	Round 9		
		31-Jan-11	7-Mar-11	4-Apr-11	9-May-11	13-Jun-11	18-Jul-11	9-Sep-11	22-Oct-11	19-Dec-11		
Karachi	Baldia	1	10	21	8	11	1	2	6	4	Yes	Yes
	Bin Qasim	1	16	12	5	10	5	9	4	2	Yes	Yes
	Gadap	4	6	19	16	5	4	1	2	1	Yes	Yes
	Gulshan-e-Iqbal	5	7	5	5	8	7	2	5	4	Yes	Yes
	Gulberg	8	2	8	6	18	0	0	0	0	Yes	Yes
	Jamsheed	2	5	5	8	9	12	8	4		Yes	Yes
	Kemari	7	2	13	12	18	20	14	2		No	Yes
	Korangi	5	3	2	2	20	0	10	4		Yes	Yes
	Landhi	3	5	3	4	2	1	1	2		Yes	Yes
	Lyari	4	3	1	3	2	1	18	5		Yes	Yes
	Liaquatabad	0	7	5	10	14	4	2	5		Yes	Yes
	Malir	8	2	2	4	5	0	11	0		Yes	Yes
	North Nazimabad	8	5	14	7	2	5	2	5		Yes	Yes
	North Karachi	8	5	8	7	39	1	6	4	1	Yes	Yes
	Orangi	3	4	5	5	8	0	2	8	0	Yes	Yes
	Saddar	20	18	9	9	14	8	8	5	12	Yes	Yes
	Shah Faisal	1	5	2	3	0	0	2	2		Yes	Yes
SITE	1	7	16	6	10	10	4	0	6	Yes	Yes	

No data available

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End-2011, **Angola**: <10% missed children in all districts of Luanda, Benguela & Kwanza Sul during each SIA

Province	District	Percent of children missed by house to house (H2H) and outside of house (OUT) IM:																				Achieved 4th Qrt.	Achieved 3rd Qrt.
		Round 1		Round 2		Round 3		Round 4		Round 5		Round 6		H2H	OUT	H2H	OUT	H2H	OUT				
		H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT										
Luanda under 5 pop: 1,526,254	Cacuaco	8.8	7.2	1.6	5.6	5.4	7.7	4	10.9	11.1	13.7	6	7.4								No	No	
	Cazenga	7.4	11.5	16.1	11	9.1	6.7	12.6	16	20	10.7	14.2	13.6								No	No	
	Ingombota	26.6	3.1	5.6	8.5	4.3	7.3	4.1	1.9	2.7	2.7	5.4	6.9								No	No	
	Kilamba Kiaxi	22.2	22.7	13.7	9.2	7.7	11.3	8.5	8.5	5.3	6.7	46.1	38.4								No	No	
	Maianga	7.8	7.3	20.3	19.5	6.4	4.4	11.9	8.7	10.5	15.8										No	No	
	Rangel	7.2	7	10.9	13.1	5.4	6.8	11.1	7.6	7.2	12.1	7.6	14.3								No	No	
	Samba	7	10.5	7.9	6.8	13.3	23.2	10.6	11.8	10.5	20.8	9.1	7.7								No	No	
	Sambizanga	2.5	2.1	5.9	4.4	6.6	10.7	9.8	10.6	9.4	11.2	18.9	26.5								No	No	
	Viana	4.4	4.9	13.1	15.1	24.2	27.2	12.1	10	19.8	13.5	17.6	23.4								No	No	
	Baia Fatta	10.3	9.4	7.4	1.7	5.1	3.5	9.4	13.9												No	No	
	Balombo	8	6	3.5	4.1	10	9.1	14.3	6.4												No	No	
	Benguela	6.7	5.7	9	12.7	5.9	13.7	7.1	3.9												No	No	
	Bocoio	4																			no data	no data	
Caimbambo	4.2																			no data	no data		
Chongoroi	4.4																			no data	no data		
Cubal	8.7																			no data	no data		
Ganda	12																			Yes	Yes		
Lobito	32.8	5	8.6	7.2	9.9	12.9	7.8	10.2	17.3											No	No		
Amboim	11.6			1.4	0.8	1.4	1.4	1.4	0											Yes	Yes		
Cassongue	9.8			2.3	4.4	2.9	4.7													Yes	Yes		
Cela	11.2																			no data	no data		
Conda	4.9																			no data	no data		
Ebo	10.5																			no data	no data		
Kibala	11.3			6.8	6.6	4.4	5.4	0.8	1.9											Yes	Yes		
Kilenda	5.7			4.6	5.3	2.5	5.1	6.1	2.1											Yes	Yes		
Libolo	4.7			2.3	3.2	4.3	4.4													Yes	Yes		
Mussende	5.2																			no data	no data		
Porto Amboim	6.9			20.4	22.5	9.2	9.3	7.5	7.6											No	No		
Seles	8.5																			no data	no data		
Sumbe	9.8			32.1	31	15.6	19.7	3.6	6.4											No	No		

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End-2011, Democratic Republic of the Congo: <10% missed children during at least 4 SIAs in Bandundu, Bas-Congo, Katanga, Kinshasa, North Kivu, Orientale, and South Kivu.

This MPI was expanded to include Bandundu, Bas-Congo, Katanga, and Kinshasa provinces for 2011 as of the 3rd quarter.

Considering all SIAs conducted in 2011 in a province and using the highest percentage of missed children obtained from either house to house (H2H) or out of house (OUT) monitoring for a given SIA, the following is used to score each province for achievement of the MPI for the quarter. If ≥ 4 SIAs were conducted, and of those, if ≥ 4 had <10% missed children, the province is scored as "Yes". If ≥ 4 SIAs were conducted, and of those, if <4 SIAs had <10% missed children, the province was scored as "No". If <4 SIAs were conducted, the province was scored as "No" regardless of the percent of missed children.

For reference only: Summary information for all polio SIAs in DRC in 2011, national level

#	SIA start date	Percent missed children (house to house)		Type of SIA	Vaccine used	Percent of districts Targeted in SIA	
		H2H	OUT			With IM	Without IM
1	20-Jan-11	9.1	6.2	sNID	mOPV1	18.9	3.7
2	24-Feb-11	6.6	5.3	sNID	mOPV1, tOPV	28.1	10
3	23-Mar-11	4.3	11.7	sNID	mOPV1	6.9	6.5
4	31-Mar-11	5.3	4.6	sNID	tOPV	1.6	0.6
5	28-Apr-11	9	10.1	NID	bOPV, mOPV1	100	43.7
6	26-May-11	5.6	7.5	NID	bOPV, tOPV	100	58.5
7	25-Jun-11	10.2	13	sNID	mOPV1	29.1	18.9
8	14-Jul-11	3.4	3.5	sNID	mOPV1	2.6	2.6
9	28-Jul-11	6.6	8.7	sNID	mOPV1	9.4	9.4
10	25-Aug-11	7.1	8.9	sNID	mOPV1	15.6	11.8
11	08-Sep-11	7.8	10.1	sNID	mOPV1	15.6	12.8
12	20-Oct-11	6.2	8.2	NID	bOPV, mOPV1	100	51.2
13	10-Nov-11	5.3	7.9	sNID	mOPV1	12.4	6.7

Percent of missed children in the six provinces specified in the MPI

Province	Percent of children missed by house to house (h2h) and outside of house (OUT) IM:																								Achieved 4th Qrt.		Achieved 3rd Qrt.				
	Round 1		Round 2		Round 3		Round 4		Round 5		Round 6		Round 7		Round 8		Round 9		Round 10		Round 11		Round 12		Round 13		H2H	OUT	Yes	No	
	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT	H2H	OUT					
Bandundu	10.8	8.6	7.9	5.9					5	3	4.4	5.6	2.9	2.5	2.3	1.3	2.5	1.9	2.6	1.8	6.3	4.1	3.2	5	2.5	3.7			Yes	Yes	
Bas-Congo			6.5	10.4				4.8	5.3	3.4	5.6	3.9	3.4	3.9	4.3	5	7.1	4.9	4.7	4.5	4.9	6.6	10.2	2.4	4.9			Yes	Yes		
Katanga			7	9.9				10.9	10.8	3.3	5.2	6.1	6						7.4	11.9	5.6	9.9	9.8	14.6	10.3	17.6			Yes	No	
Kinshasa					4.3	11.7			4	7	8.2	10.3	13.1	20.3						8.2	9.8	10.4	12.7	10	13.5	5.3	3.9			Yes	No
North Kivu								13.7	13.8	10.4	8.4													4.1	3.3					No	No
Oriental								4.7	6.6	5.9	6.8													4.6	7.9					No	Yes
South Kivu								7.5	18.8	8.8	9.3													5.6	5					No	No

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End-2011, Democratic Republic of the Congo: AFP rate ≥ 2 with $\geq 80\%$ adequate specimens in all provinces

Province	Population (under 15)	NPAFP rate	Adequate stool (%) *	Achieved 4th Qrt.	Achieved 3rd Qrt.
Bandundu	3,648,360	3.4	73.1	No	No
Bas-Congo	1,576,452	4.4	71.4	No	No
Equateur	4,080,292	4.9	75.3	No	No
Kasai Occidental	3,411,918	4	75.8	No	No
Kasai Oriental	4,319,990	5.1	86.2	Yes	Yes
Katanga	5,202,491	5	72.6	No	No
Kinshasa	3,353,523	3.6	81.4	Yes	No
Maniema	949,969	4.3	86.4	Yes	No
Nord Kivu	3,004,559	2.4	79.3	No	No
Oriental	4,485,625	6.5	90.8	Yes	Yes
Sud Kivu	2,310,421	5.4	75.9	No	No

* Stool adequacy is calculated as 2 stools collected within 14 days of paralysis onset and in "good" condition as reported by the receiving laboratory.

End-2011, South Sudan: <10% of missed children in each state during each SIA

State	Percent missed children:						Achieved 4th Qrt.	Achieved 3rd Qrt.
	Round 1		Round 2		Round 3			
	2-Feb-11		29-Mar-11		29-Nov-11			
	House to house	Out of house	House to house	Out of house	House to house	Out of house		
Central Equatoria (Bahr el Jebel)	6.2	6.5	3.0	1.8	4.8	7.6	Yes	Yes
Eastern Equatoria	6.2		5.7	9.4	3.0	3.0	Yes	Yes
Jonglei	8.7	13.4	7.0	10.0	6.7	9.3	No	No
Lakes	4.6	14.7	4.5	12.4	4.0	5.7	No	No
Northern Bahr El Ghaza	5.0		5.6		4.7	8.9	Yes	Yes
Unity	4.5		1.4		1.2		Yes	Yes
Upper Nile	2.8	1.5	15.2	7.1	1.6	0	No	No
Warrap	3.0	5.3	7.1	10.7	6.8	36.4	No	No
Western Bahr El Ghaza	10.4	5.8	3.1	11.5	6.5	0	No	No
Western Equatoria	3.6	4.5	2.6	10.0	4.1	9.6	No	No

A round of vaccination was conducted in December 2001; however independent monitoring data were not available at the time that this report was prepared.

No data available

End-2011, South Sudan: AFP rate ≥ 2 with $\geq 80\%$ adequate specimens in all states

States	Population (under 15)	NPAFP rate	Adequate stool (%) *	Achieved 4th Qrt.	Achieved 3rd Qrt.
Central Equatoria (Bahr el Jebel)	694,832	3.7	100	Yes	Yes
Eastern Equatoria	635,318	7.9	92	Yes	Yes
Jonglei	926,282	3.3	100	Yes	Yes
Lakes	746,406	4.4	87.9	Yes	Yes
North Bahr el Ghazal	930,633	3.1	96.6	Yes	Yes
Unity	792,770	3.2	100	Yes	Yes
Upper Nile	791,911	3.3	88.5	Yes	Yes
Warab	1,373,337	2.9	92.7	Yes	Yes
West Bahr el Ghazal	204,054	11.3	83.3	Yes	Yes
Western Equatoria	486,754	9	93.2	Yes	Yes

* Stool adequacy is calculated as 2 stools collected within 14 days of paralysis onset and in "good" condition as reported by the receiving laboratory.

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WPV importation belt

End-2011: <10% missed children in two SIAs in all 1st and 2nd level priority countries in the 'WPV importation belt'

All SIAs conducted in 2011 with available independent monitoring data are shown. Both house to house and out of house had to show <10% missed children in 2 SIAs for the country to have the score of "achieved" for the 4th quarter.

Country	SIA start date	Percent missed children		Type of SIA	Vaccine used	Percent of districts		Achieved 4th Qt.	Achieved 3rd Qt.
		House to house	Out of house			Targeted in SIA	With IM		
1 Benin	31-May-11	7.4	11.7	NID	tOPV, bOPV	100	100	No	No
	01-Oct-11	7	12	NID	bOPV	100	100	No	No
2 Burkina Faso	10-Mar-11	1.4	4.4	NID	mOPV1	100	100	Yes	Yes
	29-Apr-11	1.3	8.8	NID	bOPV	100	100		
	3-Jun-11	2.2	8.6	NID	tOPV, bOPV	100	100		
	1-Jul-11	1.4	6.4	NID	bOPV	100	100		
	29-Jul-11	1.3	6.5	sNID	bOPV	54	54		
	21-Aug-11	1.3	8.2	sNID	bOPV	61.9	61.9		
	30-Sep-11	1.6	6.9	NID	bOPV	100	100		
	28-Oct-11	1.7	7.8	NID	tOPV	100	100		
3 Cameroon	1-Apr-11	8.5	8.8	sNID	bOPV	36.3	20.1	Yes	Yes
	12-May-11	6.2	7.2	sNID	bOPV	36.3	20.1		
	28-Oct-11	5.9	6.2	sNID	bOPV	28.5	17.9		
4 Central African Republic	3-Jun-11	13.3	17.8	NID	tOPV	100	66.7	No	No
	21-Oct-11	13.5	13.6	NID	bOPV	100	70.8		
	28-Dec-11	0.6	1.7	sNID	bOPV	4.2	100		
5 Cote d'Ivoire	27-May-11	3.4	4.7	sNID	bOPV	100	85.9	Yes	Yes
	24-Jun-11	3.1	4.2	sNID	bOPV	100	98		
	29-Jul-11	4.2	4.1	NID	bOPV	100	100		
	19-Aug-11	3.9	5.3	NID	bOPV	100	100		
	30-Sep-11	4.3	4.8	NID	bOPV	100	100		
	28-Oct-11	4.5	5.3	NID	bOPV	100	100		
6 Eritrea								No data	No data
7 Ethiopia	18-Feb-11	17	16.4	sNID	tOPV	22.4	13.3	No	No
8 Gambia	25-Mar-11	2.2	12.4	NID	mOPV1	100	100	No	No
	29-Apr-11	2.3	5.4	NID	bOPV	100	100		
	28-Oct-11	2.9	12.4	NID	mOPV1	100	100		
9 Ghana	24-Mar-11	3.2	3.2	NID	tOPV	100	33.5	Yes	Yes
	12-May-11	4.4	7.3	NID	tOPV	100	50		
	27-Oct-11	4.7	4.2	NID	bOPV	100	50		
10 Guinea	25-Mar-11	0	0.8	NID	tOPV	100	100	Yes	Yes
	29-Apr-11	0.4	4.8	NID	mOPV1	100	100		
	28-May-11	1.3	3.2	NID	bOPV	100	100		
	23-Jun-11	1.2	4	NID	bOPV	100	100		
	29-Jul-11	0.1	1.6	NID	bOPV	100	100		
	24-Aug-11	0	1.5	sNID	mOPV1	100	100		
	30-Sep-11	3.1	3.2	NID	bOPV	100	100		
	28-Oct-11	3.2	4.6	NID	bOPV	100	100		
	25-Nov-11	5.7	9.3	sNID	bOPV	100	100		
11 Guinea-Bissau	25-Mar-11	1.9	2.9	NID	bOPV	100	100	Yes	Yes
	29-Apr-11	1.9	1	NID	bOPV	100	100		
	25-Nov-11	2.3	1.4	NID	tOPV	100	100		

If only one SIA was conducted during 1 January – 31 December 2011 and if either house to house or out of house monitoring showed $\geq 10\%$ missed children, the country was scored as "No" for the achievement for the 4th quarter; if both house to house and out of the house monitoring showed $< 10\%$ missed children, the country was scored as "Yes".

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CONTINUATION

WPV importation belt

End-2011: <10% missed children in two SIAs in all 1st and 2nd level priority countries in the 'WPV importation belt'

Country	SIA start date	Percent missed children		Type of SIA	Vaccine used	Percent of districts		Achieved 4th Qrt.	Achieved 3rd Qrt.
		House to house	Out of house			Targeted in SIA	With IM		
12 Liberia	25-Mar-11	5.3	6.4	NID	bOPV	100	100	Yes	Yes
	29-Apr-11	5.6	6.5	NID	tOPV	100	100		
	3-Jun-11	4.2	8.9	NID	bOPV	100	100		
	24-Jun-11	4.7	5.2	NID	bOPV	100	100		
	29-Jul-11	6.4	6.7	NID	bOPV	100	100		
	17-Aug-11	5	4.8	sNID	bOPV, mOPV1, mOPV3, tOPV	46.7	46.7		
13 Mali	25-Mar-11	4.5	12.9	NID	bOPV	100	96.7	Yes	Yes
	29-Apr-11	3.4	7.2	NID	tOPV	100	96.7		
	3-Jun-11	3.5	7.2	NID	bOPV	100	96.7		
	23-Jun-11	3.8	6.1	NID	bOPV	100	96.7		
	29-Jul-11	3.9	8	sNID	bOPV, mOPV1, mOPV3	61.7	61.7		
	20-Aug-11	3.9	8.8	sNID	mOPV3	61.7	61.7		
	30-Sep-11	4.3	7.6	NID	bOPV	100	96.7		
	28-Oct-11	3.8	6.8	NID	tOPV	100	96.7		
14 Mauritania	31-Mar-11	2.8	5.2	NID	bOPV	100	96.2	Yes	Yes
	29-Apr-11	4.2	5.2	NID	tOPV	100	96.2		
	23-Jun-11	3.7	7.4	NID	mOPV3	100	96.2		
	2-Oct-11	4.5	6	NID	bOPV	100	96.2		
15 Niger	14-Jan-11	3.1	7.6	NID	bOPV	100	100	Yes	Yes
	25-Mar-11	2.8	3.7	NID	bOPV	100	100		
	29-Apr-11	2.3	3	NID	tOPV	100	100		
	23-Jun-11	2.5	3.3	sNID	bOPV	45.2	50		
	30-Sep-11	2.5	6.2	NID	bOPV	100	100		
	28-Oct-11	2.8	4.5	NID	bOPV	100	100		
16 Senegal	31-Mar-11	10.6	13.9	NID	bOPV	100	89.3	No	No
	5-May-11	9.5	14.8	NID	tOPV	100	48		
	25-Jun-11	9.3	14	NID	mOPV3	100	64		
	28-Oct-11	8.6	12.1	NID	tOPV	100	69.3		
17 Sierra Leone	25-Mar-11	8.8	11.6	NID	bOPV	100	100	Yes	Yes
	26-May-11	6.7	9.7	NID	bOPV	100	100		
	24-Jun-11	8.1	9	NID	tOPV	100	100		
	30-Sep-11	7.4	12.1	NID	bOPV	100	100		
	28-Oct-11	8	11	NID	tOPV	100	100		
18 Somalia								No data	No data
19 Togo	25-Mar-11	6.2	11.5	NID	bOPV	100	100	No	No
	29-Apr-11	5.2	13	NID	tOPV	100	100		
	11-Nov-11	3.9	11.4	NID	tOPV	100	100		

If only one SIA was conducted during 1 January – 31 December 2011 and if either house to house or out of house monitoring showed $\geq 10\%$ missed children, the country was scored as “No” for the achievement for the 4th quarter; if both house to house and out of the house monitoring showed $< 10\%$ missed children, the country was scored as “Yes”.