



Table 1: Acute Flaccid Paralysis (AFP) cases by week of onset

Country	Reported AFP cases by week of onset - Week (28/11)/ Ending on : (17/07/11)														
	Total AFP 2009	Total AFP 2010	Total AFP to date, 2011	W 17 01 May 11	W 18 08 May 11	W 19 15 May 11	W 20 22 May 11	W 21 29 May 11	W 22 05 Jun 11	W 23 12 Jun 11	W 24 19 Jun 11	W 25 26 Jun 11	W 26 03 Jul 11	W 27 10 Jul 11	W 28 17 Jul 11
Afghanistan	1477	1572	946	31	35	28	43	38	41	40	36	33	39	26	3
Bahrain	7	10	4	0	0	0	0	0	0	0	0	0	1	1	
Djibouti	6	3	3	1	0	0	0	0	0	0	0	0	0	0	
Egypt	1126	1151	586	19	39	26	22	26	20	19	24	21	25	8	
Iran	548	622	315	13	14	9	20	16	11	14	10	8	13	7	
Iraq	412	489	276	15	14	11	7	10	7	8	9	7	4	3	
Jordan ****	31	40	11	0	1	0	0	2	0	2	0	0	0	0	
Kuwait	25	24	15	0	1	1	2	1	0	0	1	0			
Lebanon ****	8	19	11	2	0	0	0	1	1	0	0	0	1	0	
Libya	44	46	19	1	2	0	0	0	0	0	1	0	1	0	
Morocco	115	100	44	0	2	1	1	3	1	3	0	2	0	2	
Oman	19	33	25	1	0	0	0	1	1	0	0	2	0	0	
Pakistan	5163	5393	2823	128	136	120	128	145	126	121	120	94	79	26	
Palestine ****	18	15	9	0	0	0	0	0	0	1	1	0	0	0	0
Qatar	4	5	1	0	0	0	0	0	0	0	0	0	0	0	
Saudi Arabia	195	239	120	5	2	1	7	5	3	3	4	3	3	5	0
Somalia	162	164	99	5	1	3	4	5	3	4	2	2	3		
Sudan	425	408	181	7	10	5	4	6	9	5	3	7	7	2	0
South Sudan	199	310	188	7	11	3	4	11	8	14	5	7	4		
Syria ****	203	194	108	3	1	6	3	7	2	3	5	4	3	2	
Tunisia	40	57	29	0	1	2	0	2	1	0	0	2	0	0	
U.A.E	17	18	14	0	0	2	0	0	1	0	1	0	0	0	
Yemen	366	426	188	4	4	8	5	4	6	4	3	3	7	7	1
Total EMR	10610	11338	6015	242	274	226	250	283	241	241	225	195	190	89	4

No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2009	Total year 2010	17/07		Confirmed polio cases by month of onset											
			2010	2011	August 2010	September 2010	October 2010	November 2010	December 2010	January 2011	February 2011	March 2011	April 2011	May 2011	June 2011	July 2011
Afghanistan	38	25	13	11	5	1	2	3	1	1	0	0	2	4	4	
Bahrain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Djibouti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Egypt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Iran	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Iraq	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jordan ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kuwait	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lebanon ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Morocco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pakistan	89	144	34	59	15	41	29	15	7	8	8	11	12	13	7	
Palestine ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Qatar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Somalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sudan	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Sudan	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syria ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.A.E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total EMR	172	169	47	70	20	42	31	18	8	9	8	11	14	17	11	

**** UNRWA cases are included with those of country of residence



World Health Organization – Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

18-Jul-11

Week 28, ending 17 July 2011

Number 667

Table 3: Investigation of AFP cases with paralysis onset in 2010 & 2011 (up to week 28 ending 17 July 2011)

COUNTRY	2010												2011												Latest line List Date
	AFP									Specimen	Wild isolates		AFP									Specimen	Wild isolates		
	Total AFP cases onset 2009	Case classification					Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis		% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus	Total AFP cases onset 2010	Case classification					Annualized Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis		AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens	
		Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV				Total Confirmed Polio Cases *					Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV							
Afghanistan	1572	25	5	0	1537	5	9.08	0	0	92.62	17	8	946	11	0	117	817	1	9.9	7	4	93.97	11	0	17/07/2011
Bahrain	10	0	0	0	10	0	4.87	0	0	80.00	0	0	4	0	0	2	2	0	3.59	0	0	100.00	0	0	14/07/2011
Djibouti	3	0	0	0	3	0	1.23	0	0	33.33	0	0	3	0	0	3	0	0	1.92	2	1	66.67	0	0	10/07/2011
Egypt	1151	0	0	0	1151	0	3.73	0	0	94.87	0	0	586	0	0	98	487	1	3.51	0	0	90.61	0	0	07/07/2011
Iran	622	0	0	0	622	0	3.51	0	0	90.68	0	0	315	0	0	31	284	0	3.27	0	0	86.98	0	0	16/07/2011
Iraq	489	0	0	0	489	1	3.39	0	0	86.91	0	0	276	0	0	32	244	0	3.53	6	1	89.13	0	0	15/07/2011
Jordan	40	0	0	0	40	0	1.76	0	0	95.00	0	0	11	0	0	5	6	0	0.79	0	0	100.00	0	0	10/07/2011
Kuwait	24	0	0	0	24	0	3.33	0	0	100.00	0	0	15	0	0	1	14	0	3.72	0	0	86.67	0	0	26/06/2011
Lebanon	19	0	0	0	19	0	1.72	0	0	47.37	0	0	11	0	0	7	4	0	1.84	4	2	54.55	0	0	16/07/2011
Libya	46	0	0	0	46	0	2.25	0	0	100.00	0	0	19	0	0	8	11	0	1.71	1	1	89.47	0	0	12/07/2011
Morocco	100	0	0	0	100	0	1.01	0	0	78.00	0	0	44	0	0	12	32	0	0.82	1	0	79.55	0	0	16/07/2011
Oman	33	0	0	0	33	0	4.28	0	0	87.88	0	0	25	0	0	2	23	0	5.98	0	0	100.00	0	0	10/07/2011
Pakistan	5393	144	24	0	5225	0	6.34	0	0	88.39	120	24	2823	59	7	283	2474	0	6.16	14	4	90.08	58	1	16/07/2011
Palestine	15	0	0	0	15	0	0.94	0	0	100.00	0	0	9	0	0	1	8	0	1.03	0	0	100.00	0	0	17/07/2011
Qatar	5	0	0	0	5	0	2.14	0	0	80.00	0	0	1	0	0	0	1	0	0.79	0	0	100.00	0	0	10/07/2011
Saudi Arabia	239	0	0	0	239	0	2.83	0	0	96.65	0	0	120	0	0	33	87	0	2.57	0	0	96.67	0	0	17/07/2011
Somalia	164	0	0	0	160	4	3.38	0	0	99.39	0	0	99	0	0	16	79	4	3.64	1	0	98.99	0	0	08/07/2011
Sudan	408	0	0	0	408	0	2.80	0	0	97.30	0	0	181	0	0	14	167	0	2.25	1	0	97.24	0	0	17/07/2011
South Sudan	310	0	2	0	308	0	4.06	0	0	92.90	0	0	188	0	0	42	145	1	4.55	2	0	93.09	0	0	08/07/2011
Syria	194	0	0	0	193	1	2.02	0	0	95.36	0	0	108	0	0	9	99	0	2.02	1	0	92.59	0	0	13/07/2011
Tunisia	57	0	0	0	57	0	2.18	0	0	92.98	0	0	29	0	0	2	27	0	2.1	0	0	96.55	0	0	13/07/2011
U.A.E	18	0	0	0	18	0	1.78	0	0	100.00	0	0	14	0	0	1	13	0	2.55	0	0	100.00	0	0	10/07/2011
Yemen	426	0	0	0	426	0	3.86	0	0	96.48	0	0	188	0	0	116	72	0	3.14	52	52	95.74	0	0	16/07/2011
EMR	11338	169	31	0	11128	11	4.63	0	0	90.86	137	32	6015	70	7	835	5096	7	4.51	92	65	91.32	69	1	
2009	10610	172	29	0	10401	8	4.40	0	0	91.06	122	52													

* Confirmed polio cases refer to wild isolation from AFP cases or from contacts of negative index AFP cases

** Non-polio AFP per 100,000 children <15 years

*** Adequate here refers to two stool specimens collected at least 24 hours apart, within 14 days of paralysis onset

**** AFP cases co infected with P1 and P3 are counted separately as wild isolates



Table 4: Investigation of contacts of AFP cases with paralysis onset in 2011 (up to week 28 ending 17 July 2011)

Country	No. of AFP cases	No. of eligible AFP cases for contact sampling*	% of eligible AFP cases with contact samplings	% of eligible AFP cases with 3+ contacts	Total number of Contacts**	% of contacts under 5 years	% of contacts with specimens collected within 7 days of notification of index	% Contact specimens in lab within 3 days of collection	% Contact specimens positive for NPEV	% Contact specimens positive for Sabin like virus	No. of contacts positive for wild virus	% of wild polio virus isolation from contacts	No. of Contacts positive for VDPVs	No. of -ve index AFP cases identified positive by contact	No. of district identified infected from contacts
Afghanistan	946	57	84.2	84.2	348	95.7	73.9	33.7	25.4	3.6	4	1.2		3	3
Bahrain	4	0			0						0			0	0
Djibouti	3	1	0.0	0.0	0						0			0	0
Egypt	586	65	56.9	56.9	222	78.8	74.3	95.7	9.6	3.8	0	0.0		0	0
Iran	315	41	14.6	12.2	34	64.7	67.6	94.1	0.0	8.8	0	0.0		0	0
Iraq	276	30	66.7	60.0	90	81.1	32.2	83.3	17.9	0.0	0	0.0		0	0
Jordan	11	0			0						0			0	0
Kuwait	15	2	50.0	50.0	32	53.1	71.9	100.0	4.0	0.0	0	0.0		0	0
Lebanon	11	5	0.0	0.0	0						0			0	0
Libya	19	2	0.0	0.0	0						0			0	0
Morocco	44	9	33.3	22.2	17	47.1	41.2	64.7	0.0	0.0	0	0.0		0	0
Oman	25	0			22	95.5	77.3	100.0	22.7	9.1	0	0.0		0	0
Pakistan	2823	280	85.0	83.9	852	90.8	64.3	75.9	24.9	5.7	6	0.8		3	2
Palestine	9	0			0						0			0	0
Qatar	1	0			0						0			0	0
Saudi Arabia	120	4	50.0	50.0	10	90.0	0.0	60.0	0.0	0.0	0	0.0		0	0
Somalia	99	1	100.0	100.0	287	89.5	97.9	12.1	9.6	6.7	0	0.0	7	0	0
Sudan	181	5	60.0	60.0	90	75.6	78.9	47.9	7.0	7.0	0	0.0		0	0
South Sudan	188	13	92.3	84.6	516	85.3	89.0	1.0	12.1	2.5	0	0.0	1	0	0
Syria	108	8	62.5	50.0	32	84.4	50.0	82.1	0.0	0.0	0	0.0		0	0
Tunisia	29	1	0.0	0.0	15	40.0	66.7	100.0	0.0	0.0	0	0.0		0	0
U.A.E.	14	0			0						0			0	0
Yemen	188	8	100.0	87.5	43	72.1	65.1	0.0	0.0	0.0	0	0.0		0	0
Grand Total 2011	6015	532	72.2	70.3	2610	86.6	74.1	51.8	17.6	4.4	10	0.4	8	6	5
Grand Total 2010	11338	1062	80.8	75.9	5158	82.9	71.5	53.5	18.6	3.3	13	0.3	7	8	4

* Eligible refers to AFP cases with inadequate stool specimens

** Total number of contacts from eligible AFP cases and from other AFP cases as per with country criteria for contact sampling

Last wild contacts in EMRO, 01/01/2011-17/07/2011

Year	Country	Count of wild contacts	Date of Most Recent stool collection
2011	Afghanistan	4	13/06/11
	Pakistan	6	04/06/11
Grand Total		10	13/06/11



Table 5: Laboratory investigation of AFP cases with paralysis onset in 2011 (up to week 28 ending 17 July 2011)

Country	Polio laboratories Sequencing performed by CDC and RIVM laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results #										Indicators				Latest report Date				
			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD	% specimens positive for NPEV*		% AFP cases with culture results within 14 days	% AFP cases with ITD results within 7 days	% AFP cases with ITD results within 45 days of onset**	
			L20B+	L20B+INPEV			received < / = 14 days	received > 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV										
Afghanistan	RRL Pakistan	924	43		169	657	55		8	21			4	1		16				3			18%	100%	100%	98%	16/07/2011
Bahrain	PNL Oman	4			1	1	2																50%	100%		100%	15/07/2011
Djibouti	NPL Kenya	3			1			2															100%			100%	10/07/2011
Egypt***	RRL Egypt	595	12	3	35	484	50	11		3	1		1			5		1	2	2	2	7%	92%	100%	99%	15/07/2011	
Iran	NPL Iran	313	10		2	286	15						2	1		2		1		4		0%	100%	100%	99%	16/07/2011	
Iraq	NPL Iraq, RRL Egypt	275	7		46	206	12	7		2			3			3						17%	100%	100%	75%	15/07/2011	
Jordan	NPL Jordan, RRL Tunisia	11				11																7%	91%			17/07/2011	
Kuwait	RRL Kuwait	18				17		1														2%	88%		100%	19/06/2011	
Lebanon	RRL Egypt	13			1	8	4															9%	100%		20%	15/07/2011	
Libya	RRL Tunisia	18	1			15	2			1												0%	94%	100%	88%	15/07/2011	
Morocco	NPL Morocco, RRL Tunisia	41			1	34	2	4														4%	100%			15/07/2011	
Oman	NPL Oman	26			4	21	1															11%	96%		100%	11/07/2011	
Pakistan	RRL Pakistan	2870	174	18	509	1987	181	1	55	62			30		1	72		1	21			17%	100%	99%	98%	16/07/2011	
Palestine & UNRWA		9			1	7		1														13%	0%		88%	17/07/2011	
Qatar	NPL Oman	1				1																0%	100%		100%	11/07/2011	
Saudi Arabia	NPL Saudi Arabia, NPL Oman	112	1			102	1	8					1									0%	64%	100%	80%	11/07/2011	
Somalia	NPL Kenya	99	10		11	63	1	14					5	1		4						13%	2%		100%	08/07/2011	
Sudan	NPL Sudan, NICD, S. Africa	181	6		29	134	11	1								1						14%	82%	100%	100%	10/07/2011	
South Sudan	NPL Kenya	188	8		24	117	1	38					3			5						16%	0%		95%	08/07/2011	
Syria	NPL Syria, RRL Tunisia	104	2		5	89	7	1								1						4%	98%	100%	0%	13/07/2011	
Tunisia	RRL Tunisia	30				28	2															0%	100%		100%	15/07/2011	
U.A.E	NPL Oman	14				14																0%	100%		100%	11/07/2011	
Yemen	NPL Oman	168	2		15	55	96			1						1						23%	100%	100%	18%	11/07/2011	
Total EMR 2011		6017	276	21	854	4337	443	89	63	90	1		49	3	1	110		2	3	30	2	14%	94%	99%	97%		
Total EMR 2010		11130	549	35	2050	8493			130	205			110	6	31	189		4	20	1		16%	94%	98%	97%		

* Specimens from all sources including non-AFP cases, excluding environmental samples

** This indicator reflects surveillance and laboratory activities

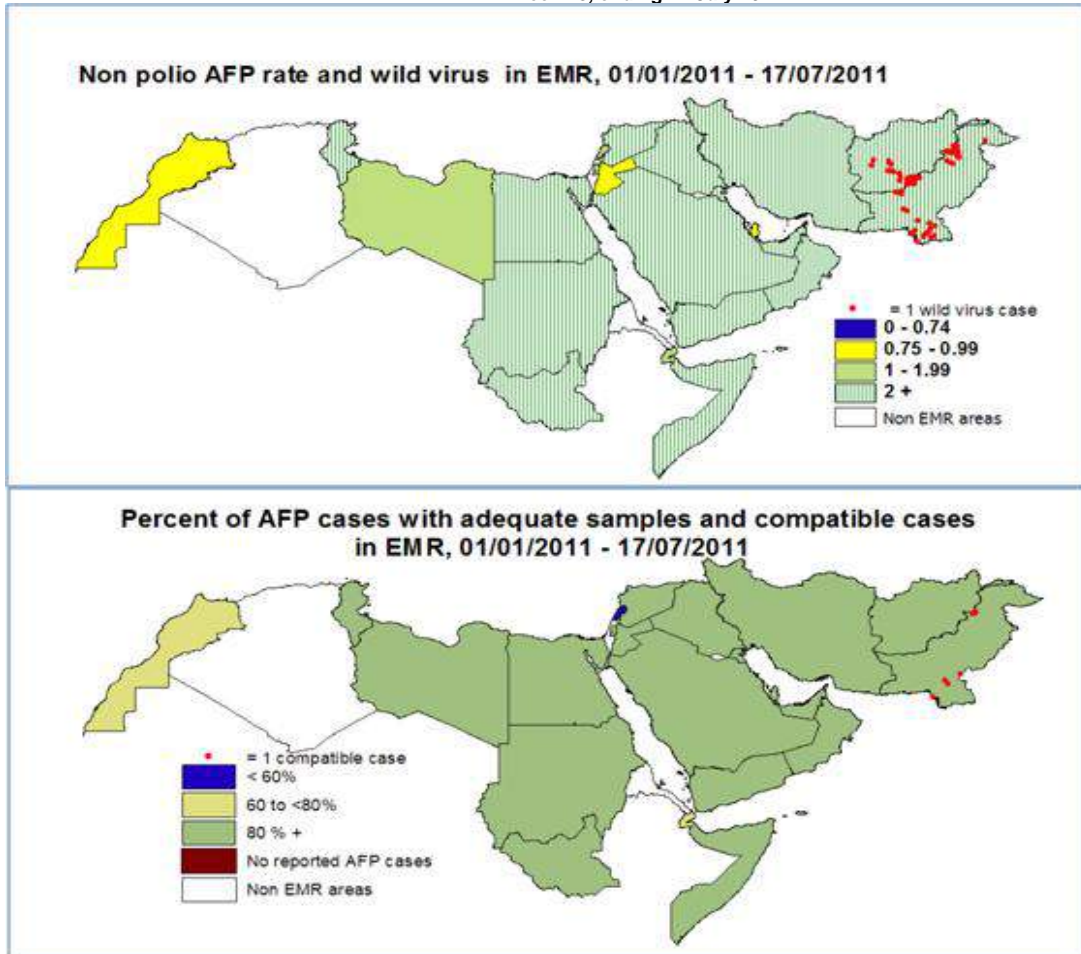
*** Environmental surveillance initiated in Egypt in September 2000 showed the following:

WILD_ALL	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Grand Total
Negative	52	55	136	299	469	499	492	458	444	481	415	218	4018
Pending												32	32
Wild	2	75	26	12	13	2			2		1		133
Grand Total	54	130	162	311	482	501	492	458	446	481	416	250	4183

In 2008, out of 446 samples, 2 positive for wild virus in Giza governorate (Al Haram Site) genomic sequence data indicate importation from Ethiopia / South Sudan & Cairo governorate (Al Haggana 2) genomic sequence data indicate nearest importation from India. In 2011, 1 positive sample for wild virus in Aswan governorate (Aswan City) genomic sequence data indicate nearest importation from Sudan.

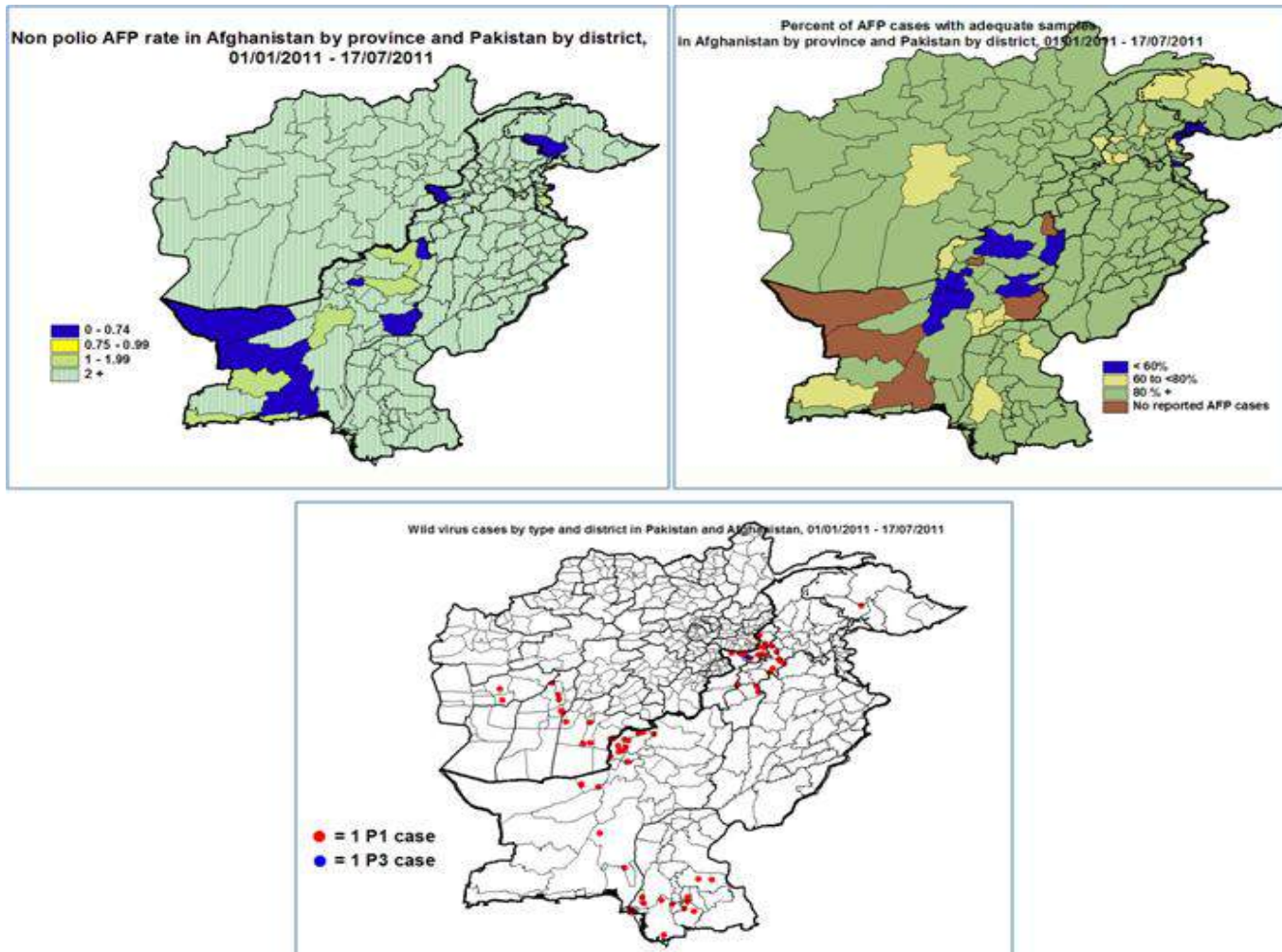
****Environmental surveillance initiated in Pakistan in August 2009 showed the following:

Status	2009			2009 Total	2010								2010 Total	2011					2011 Total				
	KHIBALDIA TOWN	KHIGADAP TOWN	KHIGULSHANE-OBAL TOWN LAHORE		KHIBALDIA TOWN	KHIGADAP TOWN	KHIGULSHANE-OBAL TOWN LAHORE	PESHAWAR	RAWALPINDI	QUETTA	MILTAN	KHIBALDIA TOWN		KHIGADAP TOWN	KHIGULSHANE-OBAL TOWN LAHORE	PESHAWAR	RAWALPINDI	QUETTA		MILTAN			
Negative	9	3	5	10	27	10	11	12	27	2	2	4	9	77	3	5	9	15	2	1	3	11	49
pending															1	1	1	2	1			1	7
Wild	1	8	7	2	18	6	20	12	6	12	5	9	9	79	2	13	3	3	10	5	9	7	52
Grand Total	10	11	12	12	45	16	31	24	33	14	7	13	18	156	6	19	13	20	13	6	12	19	108



Wild polio cases by country and date of onset of paralysis in EMR, 2010-2011

Year	COUNTRY	P1			P3			Total Count	Total First Case	Total Last Case
		Count	First Case	Last Case	Count	First Case	Last Case			
2011	AFG	11	11/01/11	28/06/11				11	11/01/11	28/06/11
	PAK	58	03/01/11	22/06/11	1	09/06/11	09/06/11	59	03/01/11	22/06/11
2011 Total		69	03/01/11	28/06/11	1	09/06/11	09/06/11		03/01/11	28/06/11



* District RY Khan, Punjab Province, was identified as an infected district by isolating wild type P1 virus from a healthy child with date of stool collection 08/01/2011
* District Nsirabad, Balochistan Province, was identified as an infected district by isolating wild type P1 virus from a healthy child with date of stool collection 26/01/2011



Wild Polio cases by district and date of onset of paralysis, Afghanistan 2011

PROVINCE	DISTRICT	P1		
		Count	First case	Last case
FARAH	BALA BULUK	1	10/06/11	10/06/11
	BAKWA	1	26/04/11	26/04/11
KANDAHAR	DAMAN	2	11/01/11	19/06/11
	KANDAHAR	1	23/05/11	23/05/11
	MAYWAND	1	25/04/11	25/04/11
HILMAND	MUSA QALA	3	08/05/11	28/06/11
	NAHRI SARRAJ	2	29/05/11	06/06/11
Grand Total		11	11/01/11	28/06/11

Kandahar P1 case (AFG/08/11/103) was identified as wild by a positive contact with date of stool collection 30/05/11
 Maywand P1 case (AFG/08/11/110) was identified as wild by a positive contact with date of stool collection 29/05/11
 Bala Buluk P1 case (AFG/03/11/132) was identified as wild by a positive contact with date of stool collection 13/06/11

Wild Polio cases by district and date of onset of paralysis, Pakistan 2011

PROVINCE	DISTRICT	P1			P3		
		Count	First case	Last case	Count	First case	Last case
BALOCHISTAN	QUETTA	1	22/06/11	22/06/11			
	KHUZDAR	2	03/05/11	10/06/11			
	PISHIN	5	19/02/11	08/06/11			
	KABDULAH	7	02/03/11	06/06/11			
	NOSHKI	3	01/04/11	28/04/11			
SINDH	THATTA	2	10/04/11	10/06/11			
	JAMSHORO	1	29/05/11	29/05/11			
	KHISITE	1	07/05/11	07/05/11			
	SANGHAR	2	20/01/11	19/04/11			
	KHISADDAR	1	05/04/11	05/04/11			
	KHIGADAP	1	05/04/11	05/04/11			
	KHIORANGI	1	29/03/11	29/03/11			
	BADIN	2	22/02/11	15/03/11			
	TMKHAN	2	18/02/11	04/03/11			
	T.ALLAHYAR	1	21/01/11	21/01/11			
GILGIT BALTISTAN	DIAMIR	1	18/05/11	18/05/11			
KHYBER PAKHTOON	TORGHAR	2	06/04/11	22/05/11			
	BANNU	1	21/05/11	21/05/11			
	PESHAWAR	3	16/01/11	13/05/11			
	KOHAT	3	28/01/11	20/04/11			
	LAKKIMRWT	2	09/03/11	13/03/11			
FATA	ORAKZAI	2	06/05/11	15/06/11			
	KHYBER	8	15/01/11	02/05/11	1	09/06/11	09/06/11
	MOHMAND	3	03/01/11	18/04/11			
	KURRAM	1	06/03/11	06/03/11			
Grand Total		58	03/01/11	22/06/11	1	09/06/11	09/06/11

Sanghar P1 case (SD/32/11/005) was identified as wild by a positive contact with date of stool collection 26/01/2011
 Peshawar P1 case (NW/30/11/025) was identified as wild by a positive contact with date of stool collection 10/03/2011
 Mansehra P1 case (NW/14/11/014) was identified as wild by a positive contact with date of stool collection 21/04/2011