



AFP SURVEILLANCE

17-Oct-16

Week 41, ending 16 October 2016

Number 941

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

Country	Reported AFP cases by week of onset - Week (41/16) / Ending on : 16/10/2016														
	Total AFP 2014	Total AFP 2015	Total AFP to date, 2016	W30 31 Jul 16	W31 07 Aug 16	W32 14 Aug 16	W33 21 Aug 16	W34 28 Aug 16	W35 04 Sep 16	W36 11 Sep 16	W37 18 Sep 16	W38 25 Sep 16	W39 02 Oct 16	W40 09 Oct 16	W41 16 Oct 16
Afghanistan	2421	2738	2256	81	69	50	53	53	59	25	46	46	62	32	4
Bahrain	16	19	12	0	0	1	0	0	0	0	0	0	0	0	0
Djibouti	3	3	3	0	0	0	0	0	0						
Egypt	1000	1046	797	14	26	14	19	18	11	7	21	31	19	12	2
Iran	753	780	588	17	12	19	14	15	13	12	21	13	4	0	
Iraq	590	520	447	3	12	11	10	7	12	4	1	12	10	1	
Jordan ****	62	90	80	3	4	0	1	3	2	2	0	0	2	2	1
Kuwait	32	32	30	1	1	1	1	0	0	0	0	1	0	0	1
Lebanon ****	50	113	82	3	2	6	2	2	2	1	1	2	2	1	
Libya	43	54	47	3	1	2	0	1	1	0	1	2	1	4	
Morocco	103	79	63	1	2	2	0	6	1	3	3	3	1	1	
Oman	34	39	30	2	0	0	2	0	1	1	1	0	0		
Pakistan	5370	5814	5298	153	198	164	189	197	145	111	131	138	75	10	0
Palestine ****	21	38	41	2	1	0	2	0	0	1	2	1	0	0	0
Qatar	7	11	7	0	0	1	0	0	0	0	0	1	1	0	0
Saudi Arabia	227	254	176	2	2	7	2	5	1	2	2	1	0	0	0
Somalia	420	281	237	10	7	4	6	5	2	4	5	7	5	2	
Sudan	442	436	413	18	15	18	14	9	12	7	9	8	10	4	0
Syria ****	306	235	227	10	9	12	11	6	4	9	4	3	6	0	
Tunisia	44	64	62	1	1	0	1	0	1	1	0	2	1	0	
U.A.E	25	31	27	1	1	0	0	1	0	0	0	0	1	0	0
Yemen	578	537	551	17	21	10	21	15	11	9	5	12	1		
Total EMR	12547	13214	11474	342	384	322	348	343	278	199	253	283	201	69	8

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2014	Total year 2015	16/10		Confirmed polio cases by month of onset											
			2015	2016	November 2015	December 2015	January 2016	February 2016	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016
Afghanistan	28	20	14	8	2	1	1	2	1	1	1		0	2		
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		
Egypt	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		
Iraq	2	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		
Libya	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			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pakistan	306	54	39	15	9	3	2	4	2	3		2	1		1	
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		
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0					
Somalia	5	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Syria ****	1	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		
U.A.E	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		
Total EMR	342	74	53	23	11	4	3	6	3	4	1	2	1	2	1	0

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



Table 3: Investigation of AFP cases with paralysis onset in 2015 & 2016 up to Week (40/16) / Ending on : 16/10/2016)

COUNTRY	2015												2016												Latest line List Date
	AFP									Specimen	Wild cases ****		AFP									Specimen	Wild cases ****		
	Total AFP cases onset 2015	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 2016	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	Wild P1 Poliovirus	Wild P3 Poliovirus	
		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	2738	20	3	0	2715	0	13.8	0	0	93.0	20	0	2256	8	0	175	2073	1	14.3	18	1	92.4	8	0	16/10/2016
Bahrain	19	0	0	0	19	0	7.0	0	0	94.7	0	0	12	0	0	1	11	0	5.6	0	0	100.0	0	0	16/10/2016
Djibouti	3	0	0	0	3	0	1.0	0	0	66.7	0	0	3	0	0	2	1	0	1.3	2	0	33.3	0	0	10/09/2016
Egypt	1046	0	0	0	1045	1	3.0	0	0	94.2	0	0	797	0	0	90	707	0	2.6	0	0	92.5	0	0	15/10/2016
Iran	780	0	0	0	779	1	4.3	0	0	96.9	0	0	588	0	0	18	569	0	4.0	0	0	95.4	0	0	15/10/2016
Iraq	520	0	0	0	518	2	3.6	0	0	81.9	0	0	447	0	0	38	408	1	3.9	20	3	82.1	0	0	15/10/2016
Jordan	90	0	0	0	90	0	3.2	0	0	96.7	0	0	80	0	0	22	58	0	3.6	5	0	97.5	0	0	13/10/2016
Kuwait	32	0	0	0	32	0	3.7	0	0	96.9	0	0	30	0	0	4	26	0	4.3	0	0	83.3	0	0	16/10/2016
Lebanon	113	0	0	0	113	0	5.2	0	0	84.1	0	0	82	0	0	16	66	0	5.4	7	0	81.7	0	0	07/10/2016
Libya	54	0	0	0	54	0	2.6	0	0	94.4	0	0	47	0	0	10	37	0	2.9	0	0	91.5	0	0	15/10/2016
Morocco	79	0	0	1	78	0	0.8	1	0	57.0	0	0	63	0	0	29	34	0	0.8	10	0	57.1	0	0	14/10/2016
Oman	39	0	0	0	39	0	4.5	0	0	97.4	0	0	30	0	0	5	25	0	4.4	0	0	86.7	0	0	02/10/2016
Pakistan	5814	54	10	1	5745	4	7.4	1	0	87.2	54	0	5298	15	0	435	4848	0	8.5	77	7	89.0	15	0	16/10/2016
Palestine	38	0	0	0	38	0	2.2	0	0	92.1	0	0	41	0	0	6	35	0	2.7	0	0	97.6	0	0	16/10/2016
Qatar	11	0	0	0	11	0	3.7	0	0	100.0	0	0	7	0	0	3	4	0	3.0	0	0	100.0	0	0	16/10/2016
Saudi Arabia	254	0	0	0	254	0	2.7	0	0	98.0	0	0	176	0	0	25	151	0	2.3	1	1	99.4	0	0	16/10/2016
Somalia	281	0	1	0	280	0	4.9	0	0	96.1	0	0	237	0	0	13	224	0	5.2	0	0	99.6	0	0	15/10/2016
Sudan	436	0	0	0	436	0	2.6	0	0	97.2	0	0	413	0	0	18	395	0	3.1	1	0	97.8	0	0	16/10/2016
Syria	235	0	0	0	235	0	3.0	0	0	90.2	0	0	227	0	0	19	208	0	3.7	0	0	87.7	0	0	15/10/2016
Tunisia	64	0	0	0	64	0	2.4	0	0	85.9	0	0	62	0	0	7	55	0	3.0	1	0	80.6	0	0	14/10/2016
U.A.E	31	0	0	0	31	0	3.0	0	0	90.3	0	0	27	0	0	1	26	0	3.4	0	0	100.0	0	0	17/10/2016
Yemen	537	0	0	0	537	0	4.1	0	0	90.7	0	0	551	0	0	179	371	1	5.4	50	42	91.3	0	0	01/10/2016
EMR	13214	74	14	2	13116	8	5.4	2	0	90.2	74	0	11474	23	0	1116	10332	3	5.8	192	54	90.6	23	0	
2014	12546	342	59	0	12116	30	4.9	0	0	90.7	342	0													

* 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

**Removal of Afghanistan/Kabul case of 2016 from the WPV1 linelist:
Following re-testing of the original specimens from this case by both the RRL Pakistan and CDC Atlanta, the original result of WPV1 and SL3 has been revised to no virus isolated.**



World Health Organization – Regional Office for Eastern Mediterranean

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Table 4: Investigation of contacts of AFP cases with paralysis onset in 2016 up to Week (40/16) / Ending on : (16/10/2016)

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	2256	172	90.1	89.0	1042	96.7	64.1	26.0	23.7	7.8	3	0.3		2	1
Bahrain	12	0			0						0			0	0
Djibouti	3	2	50.0	50.0	3	33.3	100.0				0			0	0
Egypt	797	70	71.4	70.0	244	77.0	62.3	97.2	17.4	5.5	0	0.0		0	0
Iran	588	29	82.8	65.5	125	61.6	29.6	82.4	2.4	1.6	0	0.0		0	0
Iraq	447	80	68.8	60.0	502	62.0	20.7	89.2	16.2	5.4	0	0.0		0	0
Jordan	80	2	0.0	0.0	0						0			0	0
Kuwait	30	5	40.0	40.0	45	51.1	73.3	100.0	0.0	0.0	0	0.0		0	0
Lebanon	82	15	6.7	6.7	6	66.7	16.7	0.0	0.0	0.0	0	0.0		0	0
Libya	47	4	0.0	0.0	0						0			0	0
Morocco	63	27	25.9	25.9	35	65.7	25.7	34.3	8.6	0.0	0	0.0		0	0
Oman	30	4	25.0	25.0	44	86.4	38.6	81.8	0.0	2.3	0	0.0		0	0
Pakistan	5298	582	80.9	78.7	1625	87.5	60.2	69.0	24.6	5.6	3	0.2		0	0
Palestine	41	1	0.0	0.0	0						0			0	0
Qatar	7	0			0						0			0	0
Saudi Arabia	176	1	0.0	0.0	0						0			0	0
Somalia	237	1	100.0	100.0	700	92.7	99.4	41.3	13.2	3.6	0	0.0		0	0
Sudan	413	9	77.8	77.8	143	75.5	53.8	33.0	12.6	0.0	0	0.0		0	0
Syria	227	28	60.7	25.0	516	25.8	78.5	59.6	2.7	0.6	0	0.0		0	0
Tunisia	62	12	25.0	0.0	9	0.0	44.4	100.0	0.0	0.0	0	0.0		0	0
U.A.E.	27	0			0						0			0	0
Yemen	551	48	83.3	72.9	1294	59.1	73.2	1.2	17.3	2.5	0	0.0	1	0	0
Grand Total 2016	11474	1092	76.5	72.3	6333	75.0	65.2	49.3	17.9	4.5	6	0.1	1	2	1
Grand Total 2015	13214	1314	79.5	73.8	7465	74.3	63.8	45.4	17.5	5.0	11	0.2	2	5	3

* 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, 01/01/2015 - 16/10/2016

Year	Country	Count of wild contacts	Date of Most Recent stool collection
2015	Afghanistan	9	1/13/2016
	Pakistan	2	7/27/2015
2015 Total		11	1/13/2016
2016	Pakistan	3	6/15/2016
	Afghanistan	3	4/4/2016
2016 Total		6	6/15/2016

Number and distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2015-2016

Year	COUNTRY	PROVINCE	DISTRICT	Count	First case	Last case
2015	AFG	FARAH	GULESTAN	1	23/04/2015	23/04/2015
			BAKWA	1	21/04/2015	21/04/2015
		KANDAHAR	SHAHWALIKOT	1	20/12/2015	20/12/2015
	AFG Total			3	21/04/2015	20/12/2015
	PAK	KHYBER PAKHTOON	PESHAWAR	1	08/06/2015	08/06/2015
			TANK	1	25/01/2015	25/01/2015
	PAK Total			2	25/01/2015	08/06/2015
2015 Total				5	25/01/2015	20/12/2015
2016	AFG	KUNAR	SHIGAL WA SHEL TAN	1	26/02/2016	26/02/2016
		HILMAND	NAWZAD	1	23/01/2016	23/01/2016
	AFG Total			2	23/01/2016	26/02/2016
2016 Total				2	23/01/2016	26/02/2016



Table 5: Laboratory investigation of AFP cases with paralysis onset in 2016 up to Week (41/16) / Ending on : (16/10/2016)

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+/NPEV			received < / = 14 days	received > 14 days ago	Wild	Sabin	VPV	Wild	Sabin	VPV	Wild	Sabin	VPV									
Afghanistan	RRL Pakistan	2184	170	25	474	1439	76		6	99			19	1	123		3			20%	95%	97%	97%	15/10/2016		
Bahrain	PNL Oman	12	1			11												1		0%	100%		82%	10/10/2016		
Djibouti	NPL Kenya	1			1															100%			100%	10/09/2016		
Egypt***	RRL Egypt	777	26	1	119	578	30	23		7			7		14		1	3	2	1	13%	100%	100%	99%	13/10/2016	
Iran	NPL Iran	594	8		14	563	5	4		5			1		3		1			2%	100%	100%	99%	15/10/2016		
Iraq	RRL Egypt	439	13		36	372	14	4		3			9	1	6					11%	100%	100%	85%	13/10/2016		
Jordan	RRL Tunisia	80	4		8	66	2			5					2					10%	100%	100%	100%	13/10/2016		
Kuwait	RRL Kuwait	28	1			18		9										1		0%	89%		83%	05/06/2016		
Lebanon	NPL Jordan	84	2		7	71	3	2												6%	100%			13/10/2016		
Libya	RRL Tunisia	40	2		1	35		2		2										3%	100%	100%	97%	30/09/2016		
Morocco	RRL Tunisia	51	1		2	40		8										1		11%	98%		90%	14/10/2016		
Oman	NPL Oman	34			9	24		1												18%	100%		100%	10/10/2016		
Pakistan	RRL Pakistan	5380	291	30	1233	3585	238	1	15	161			33		188		6			21%	97%	98%	97%	15/10/2016		
Palestine & UNRWA		41			4	37														10%	30%		97%	16/10/2016		
Qatar	NPL Oman	5			1	4														20%	100%		100%	10/10/2016		
Saudi Arabia	NPL Oman	153			2	145		6							1					1%	100%	100%	83%	14/08/2015		
Somalia	NPL Kenya	237	2	12	33	177	4	9	9			10		11						20%	11%		99%	15/10/2016		
Sudan	RRL Egypt	392	1		62	309		20							1					16%	86%	100%	50%	02/10/2016		
Syria	RRL Egypt	223	5		9	188		21	2			1		4						4%	100%	100%	100%	08/09/2016		
Tunisia	RRL Tunisia	59			2	55		2												3%	100%		98%	30/09/2016		
U.A.E	NPL Oman	25			2	23														6%	100%		100%	10/10/2016		
Yemen	RRL Egypt	949	23	4	129	478	130	185		8			4	1	12		1	1	1	19%	37%	100%	56%	13/10/2016		
Total EMR 2016		11788	550	72	2148	8218	502	297	21	301			84	3	365		2	13	3	5	17%	91%	98%	94%		
Total EMR 2015		12989	743	97	2319	9814		13	69	362			188	8	415		4	31	10	2	16%	91%	99%	93%		

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

** This indicator reflects surveillance and laboratory activities



Table 6 (a): Environmental isolate by year and type "EGYPT"

Result	2010	2011	2012	2013	2014	2015	2016
Negative	183	178	196	304	410	412	334
Pending							45
Wild			2				
VDPVP2			7	3	2	3	1
VDPVP1			1		1		
Total	183	178	206	307	413	415	380

Table 6 (b): Environmental Wild/VDPV isolate by site "EGYPT"

YEAR	Province	Site	Count	First date	Last Date
2015	VDPVP2	CAIRO	1	16/06/2015	16/06/2015
		GIZA	1	04/02/2015	04/02/2015
		HURGADA	1	26/05/2015	26/05/2015
VDPVP2 Total			3	04/02/2015	16/06/2015
2016	VDPVP2	SOUTH SINAI	1	15/03/2016	15/03/2016
		AL-TUR	1	15/03/2016	15/03/2016
VDPVP2 Total			1	15/03/2016	15/03/2016

Table 7 (a): Environmental isolate by year and type "AFGHANISTAN/PAKISTAN"

Country	Status	2009	2010	2011	2012	2013	2014	2015	2016
AFG	NEGATIVE					9	78	129	120
	PENDING								7
	WILD						17	20	
	WILD & VDPV2								
	VDPV2								
AFG Total						9	95	149	127
PAK	NEGATIVE	27	77	68	151	257	237	347	335
	PENDING								29
	WILD	18	79	136	88	63	125	79	36
	WILD & VDPV2					2	6	5	
	VDPV2						4	8	3
PAK Total		45	156	204	239	322	372	439	403

Pakistan Environment data is now updated to reflect positive results by site not by method (from regular environment system and BMFS pilot study) with no duplication

Table 7 (b): Environmental Wild/VDPV isolate by site "AFGHANISTAN/PAKISTAN"

Year	Country	Status	Province	District	Count	First date	Last date	
2015	AFG	WILD1	HILMAND	LASHKARGAH	7	25-01-15	25-11-15	
				NAHR-E-SARAJ	3	24-01-15	19-09-15	
				KABUL	1	27-12-15	27-12-15	
				KANDAHAR	3	04-01-15	26-08-15	
				KUNAR	1	25-10-15	25-10-15	
				NANGARHAR	1	25-10-15	25-10-15	
	AFG Total					20	04-01-15	27-12-15
	PAK	WILD1	BALOCHISTAN	KABDULLAH	3	15-01-15	01-06-15	
				QUETTA	12	12-01-15	28-10-15	
				ISLAMABAD	2	12-01-15	17-08-15	
				KHYBER PAKHTUNKHW	3	04-03-15	04-08-15	
				PESHAWAR	11	03-01-15	11-12-15	
				LAHORE	4	12-01-15	12-10-15	
MULTAN				4	08-04-15	31-08-15		
RAWALPINDI				5	10-03-15	14-12-15		
HYDERABAD				2	03-02-15	03-12-15		
SINDH				5	08-01-15	04-11-15		
WILD1 & VDPV	BALOCHISTAN	KHYBER PAKHTUNKHW	PESHAWAR	16	06-01-15	22-12-15		
			KHIGADAP	6	13-01-15	14-12-15		
			SUKKUR	6	06-01-15	11-09-15		
			QUETTA	3	28-03-15	12-12-15		
VDPV2	SINDH	KHYBER PAKHTUNKHW	PESHAWAR	1	26-02-15	26-02-15		
			KHIGADAP	1	22-01-15	22-01-15		
VDPV2	PUNJAB	LAHORE	LAHORE	1	13-04-15	13-04-15		
			KHIGADAP	5	14-01-15	18-03-15		
VDPV2	SINDH	KHIGIQBAL	KHIGIQBAL	2	08-06-15	07-07-15		
PAK Total					92	03-01-15	22-12-15	
2015 Total					112	03-01-15	27-12-15	
2016	PAK	WILD1	BALOCHISTAN	KABDULLAH	1	15-01-16	15-01-16	
				PISHIN	3	02-08-16	03-09-16	
				QUETTA	5	12-02-16	20-08-16	
				KHYBER PAKHTUNKHW	1	16-07-16	16-07-16	
				PESHAWAR	6	11-01-16	15-09-16	
				DERA GHAZI KHAN	1	12-05-16	12-05-16	
				PUNJAB	2	03-02-16	02-07-16	
				LAHORE	1	05-08-16	05-08-16	
				RAWALPINDI	2	14-04-16	16-08-16	
				HYDERABAD	1	05-01-16	05-01-16	
				JACOBABAD	3	04-02-16	16-08-16	
				SINDH	5	27-01-16	14-07-16	
				KHIGIQBAL	2	18-01-16	15-03-16	
				SUKKUR	3	12-01-16	19-03-16	
				VDPV2	BALOCHISTAN	KHYBER PAKHTUNKHW	QUETTA	2
HYDERABAD	1	11-07-16	11-07-16					
PAK Total					39	05-01-16	16-09-16	
2016 Total					39	05-01-16	16-09-16	



Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2016 - 16/10/2016

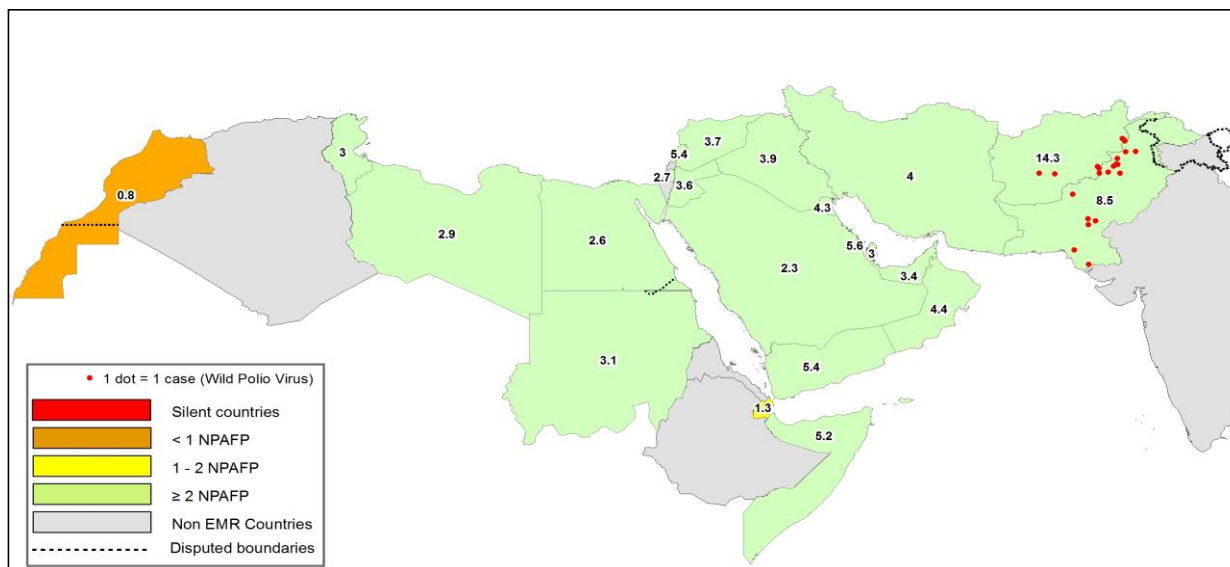


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2016 - 16/10/2016

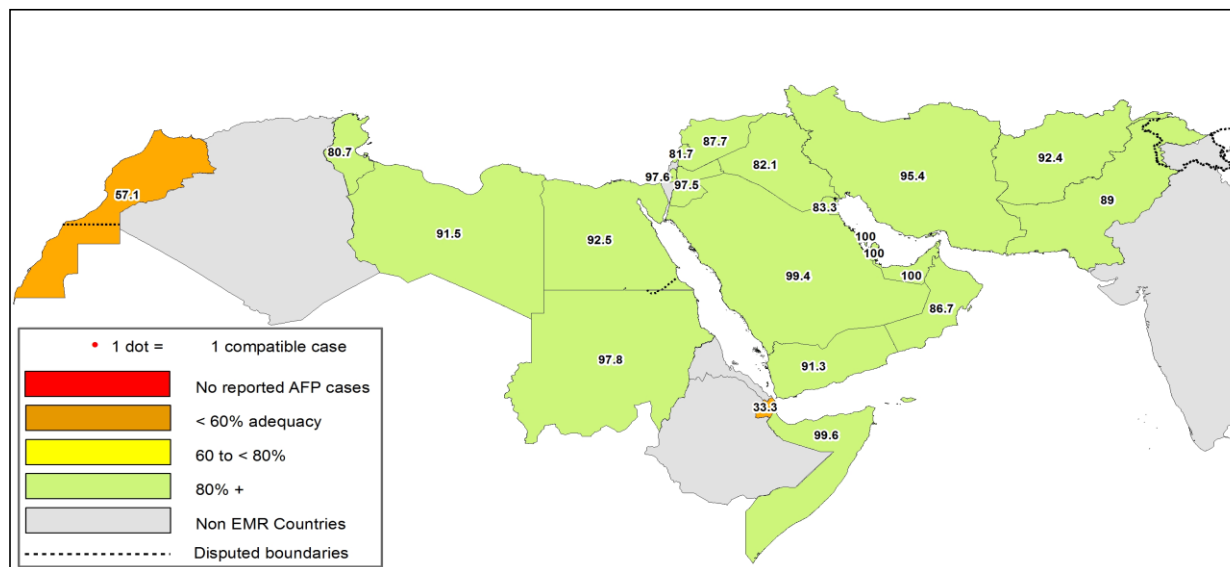


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2015-2016

Year	COUNTRY	P1		
		Count	First Case	Last Case
2015	AFG	20	21-01-15	20-12-15
	PAK	54	03-01-15	31-12-15
2015 Total		74	03-01-15	31-12-15
2016	AFG	8	23-01-16	11-08-16
	PAK	15	17-01-16	03-09-16
2016 Total		23	17-01-16	03-09-16

Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012

Removal of Afghanistan/Kabul case of 2016 from the WPV1 linelist: Following re-testing of the original specimens from this case by both the RRL Pakistan and CDC Atlanta, the original result of WPV1 and SL3 has been revised to no



Figure 3: Non Polio AFP rate by District in Afghanistan & Pakistan 01/01/2016 - 16/10/2016

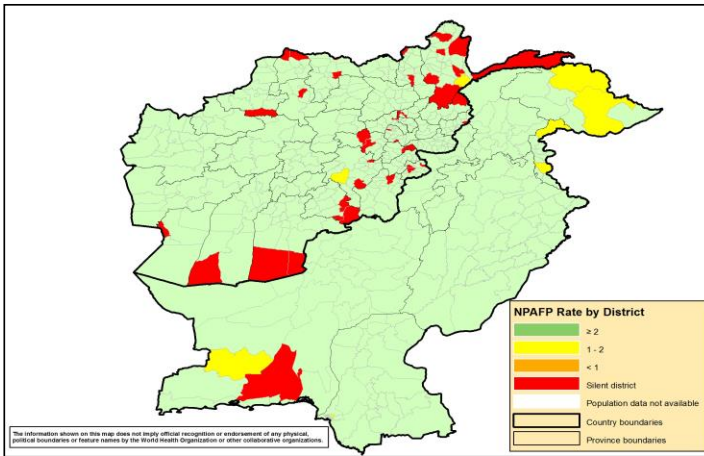


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2016 - 16/10/2016

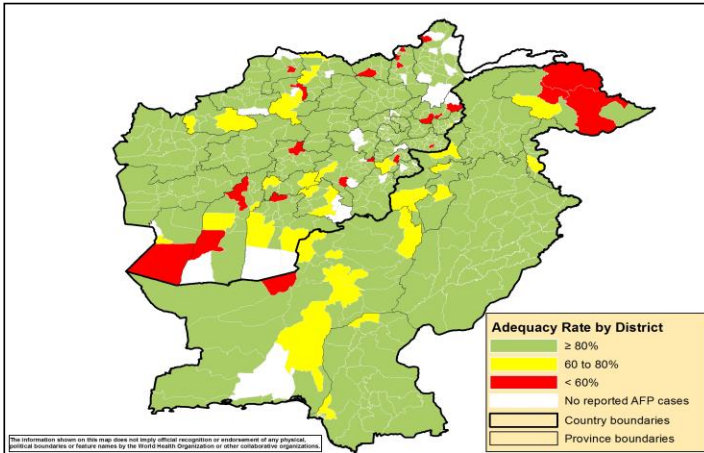
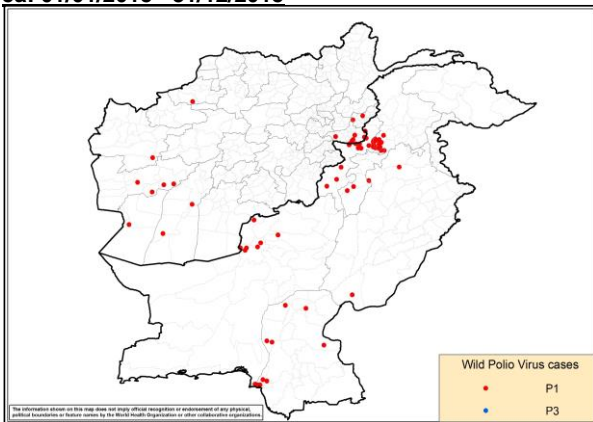


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

5a: 01/01/2015 - 31/12/2015



5b: 01/01/2016 - 16/10/2016

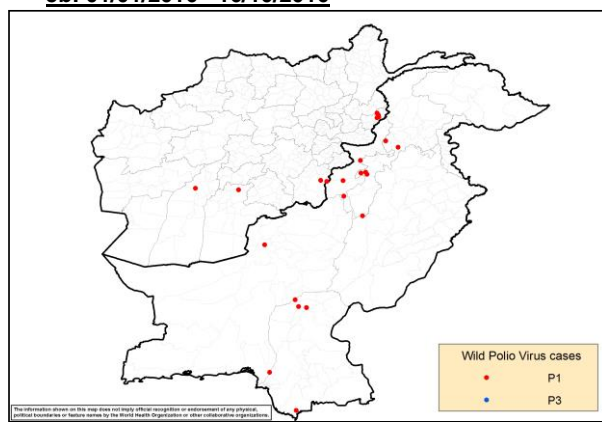




Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2015-2016

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2015	KANDAHAR	SHAHWALIKOT	1	20-12-15	20-12-15
		KUNAR	1	19-11-15	19-11-15
	NANGARHAR	DARA-E-PECH	1	03-11-15	03-11-15
		LALPUR	1	27-10-15	27-10-15
		MUHMAND DARA	1	14-10-15	14-10-15
		SHERZAD	1	06-09-15	06-09-15
		BATIKOT	1	04-09-15	04-09-15
	FARYAB	ACHIN	4	14-07-15	01-09-15
		QAYSAR	1	22-10-15	22-10-15
	HILMAND	NAHR-E-SARAJ	1	20-10-15	20-10-15
		REG	1	21-01-15	21-01-15
	NIMROZ	ZARANJ	1	07-08-15	07-08-15
	HIRAT	SHINDAND	1	27-06-15	27-06-15
	FARAH	BALABULUK	1	07-06-15	07-06-15
GULESTAN		2	23-04-15	05-05-15	
BAKWA		1	21-04-15	21-04-15	
2015 Total			20	21-01-15	20-12-15
2016	PAKTIKA	BERMEL	2	02-08-16	11-08-16
	KUNAR	SHIGAL WA SHELTON	4	01-02-16	29-05-16
	KANDAHAR	SHAHWALIKOT	1	04-04-16	04-04-16
	HILMAND	NAWZAD	1	23-01-16	23-01-16
2016 Total			8	23-01-16	11-08-16

**Removal of Afghanistan/Kabul case of 2016 from the WPV linelist:
Following re-testing of the original specimens from this case by both the RRL
Pakistan and CDC Atlanta, the original result of WPV1 and SL3 has been revised**

Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2015-2016

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2015	KHYBER PAKHTOON	PESHAWAR	12	17-01-15	31-12-15
		CHARSADA	1	20-04-15	20-04-15
		TANK	2	03-01-15	25-01-15
		LAKKIMRWT	1	07-01-15	07-01-15
		NOWSHERA	1	05-01-15	05-01-15
	PUNJAB	RYKHAN	1	02-12-15	02-12-15
		CHAKWAL	1	11-09-15	11-09-15
	SINDH	KHIBALDIA	2	11-11-15	21-11-15
		KHIGIQBAL	1	18-11-15	18-11-15
		KHAIRPUR	1	02-11-15	02-11-15
		KHIGADAP	2	10-10-15	02-11-15
		KHIKAMARI	1	01-11-15	01-11-15
		KHIGULBERG	1	14-09-15	14-09-15
		DADU	2	10-02-15	19-02-15
		SUKKUR	1	13-02-15	13-02-15
		KAMBAR	1	04-01-15	04-01-15
		BALOCHISTAN	QUETTA	5	20-02-15
	LORALAI		1	09-02-15	09-02-15
	KABDULAH		1	03-02-15	03-02-15
	FATA	KHYBER	11	05-01-15	14-11-15
		FR PESHAWAR	2	14-09-15	22-10-15
		WAZIR-S	2	07-01-15	24-05-15
		WAZIR-N	1	06-05-15	06-05-15
2015 Total			54	03-01-15	31-12-15
2016	SINDH	SUJAWAL	1	03-09-16	03-09-16
		SHIKARPUR	2	05-03-16	12-04-16
		JACOBABAD	1	10-02-16	10-02-16
		KHIGADAP	1	17-01-16	17-01-16
	FATA	WAZIR-S	2	18-06-16	27-07-16
	KHYBER PAKHTOON	DIKHAN	1	06-06-16	06-06-16
		BANNU	3	22-03-16	26-04-16
		PESHAWAR	1	12-02-16	12-02-16
		HANGU	1	09-02-16	09-02-16
		NOWSHERA	1	22-01-16	22-01-16
BALOCHISTAN	QUETTA	1	01-02-16	01-02-16	
2016 Total			15	17-01-16	03-09-16



Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2015 - 2016

Year	COUNTRY	PROVINCE	DISTRICT	cVDPV2		
				Count	First Case	Last Case
2015	PAK	FATA	KHYBER	1	09/02/2015	09/02/2015
			KHYBER PAKHTOON	1	05/02/2015	05/02/2015
			HANGU	2	05/02/2015	09/02/2015
PAK Total				2	05/02/2015	09/02/2015
2015 Total				2	05/02/2015	09/02/2015

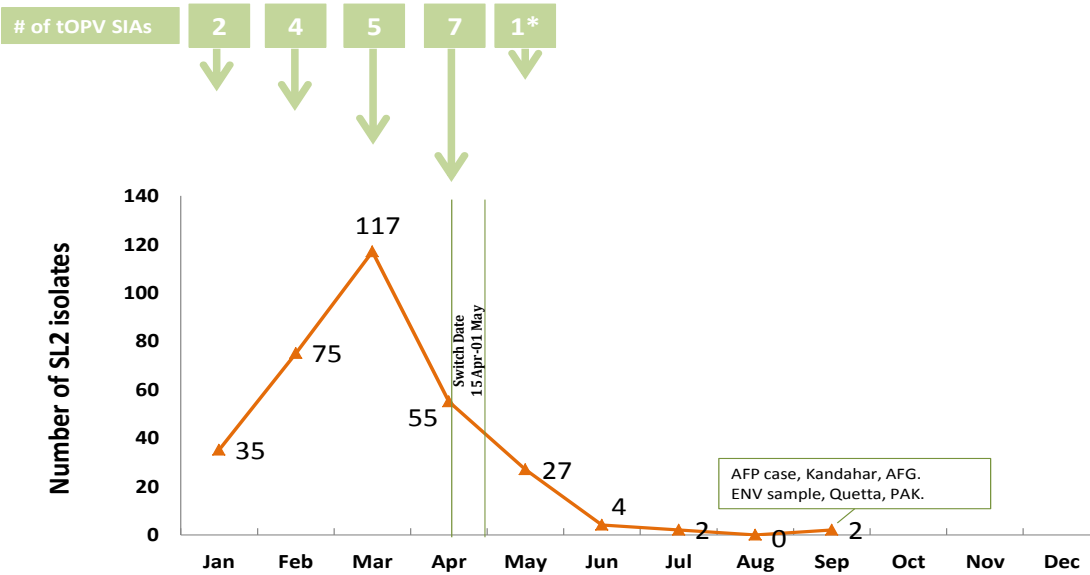
Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2016

Country	Source	VDPV2 and SL2 by month, EMR Countries 2016																							
		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
		VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2
AFG	AFP	1		2		11		3		1								1	1						
	Contact		1			6		2		1															
	ENV	3		2		11																			
BAH	AFP																								
	Contact																								
	ENV																								
DJI	AFP																								
	Contact																								
	ENV																								
EGY	AFP		1		4		1			1															
	Contact				3																				
	ENV		9		19	1	20		5	8															
IRA	AFP									1															
	Contact																								
	ENV																								
IRQ	AFP		2	1		5		1																	
	Contact		3		1	7		9																	
	ENV																								
JOR	AFP																								
	Contact																								
	ENV																								
KWT	AFP																								
	Contact																								
	ENV																								
LEB	AFP																								
	Contact																								
	ENV																								
LIB	AFP																								
	Contact																								
	ENV																								
MOR	AFP																								
	Contact																								
	ENV																								
OMA	AFP																								
	Contact				1																				
	ENV																								
PAK	AFP		7		7		15			3															
	Contact				1		7		5	1															
	ENV		7		32		27		26	9	1	3	1	1				1	1						
PAL	AFP																								
	Contact																								
	ENV																								
QAT	AFP																								
	Contact																								
	ENV																								
SAA	AFP																								
	Contact																								
	ENV																								
SUD	AFP																								
	Contact																								
	ENV																								
SOM	AFP				1		6		1			1		1											
	Contact																								
	ENV																								
SYR	AFP									1															
	Contact																								
	ENV																								
TUN	AFP																								
	Contact																								
	ENV																								
UAE	AFP																								
	Contact																								
	ENV																								
YEM	AFP		1					1		1			1*												
	Contact				1		1		2				1*												
	ENV																								
EMR	AFP		12	1	15		38		6		8		1	1	1			2	2						
	Contact		4		7		21		18		2			1											
	ENV		19		53	1	58		31		17	1	3	1	1										

Two VDPV2 have been isolated from immune-compromised children from EGY not included in this table
 One SL2 has been isolated from an immune-compromised child from EGY in May 2016 but not included in this table
 * VPDP2 isolated from index and contact at the same time



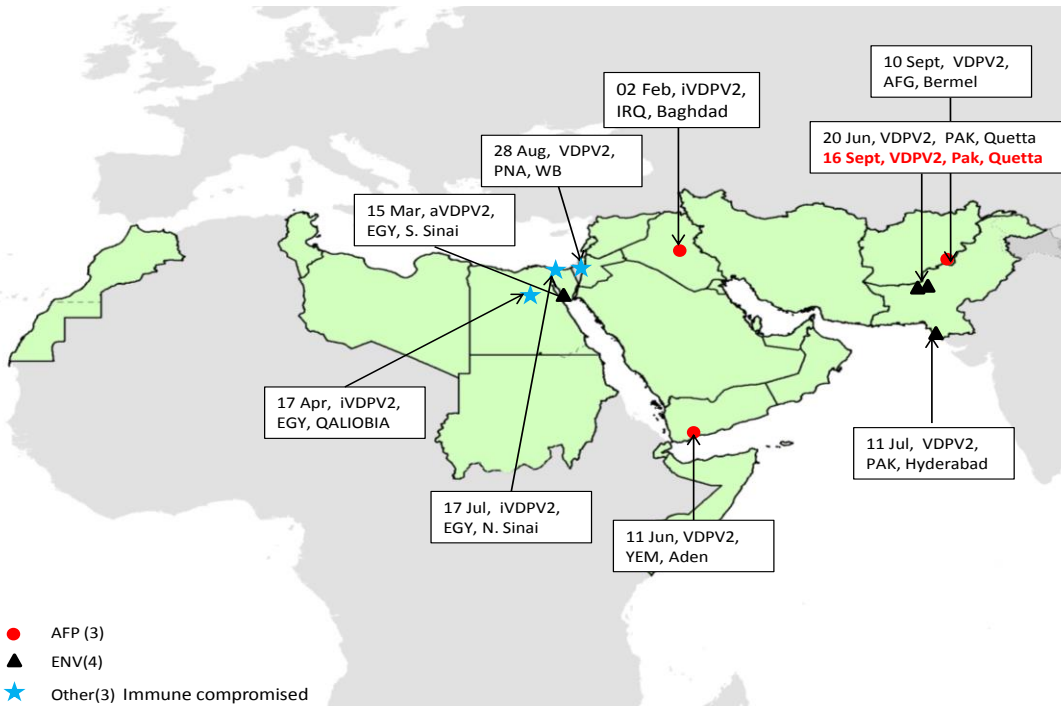
SL2 isolates in EMR countries from Human and ENV 2016



* Focused tOPV campaign in Bir Tur district (S. Sinai/Egy) as a response to VDPV2 isolation

Data up to W41, 17 Oct 2016

VDPV2 isolates, EMR countries, 2016



Data up to W41, 17 Oct 2016