



AFP SURVEILLANCE

9-Jan-17

Week 01, ending 08 January 2017

Number 953

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

Country	Reported AFP cases by week of onset - Week (01/17) / Ending on : 08/01/2017														
	Total AFP 2015	Total AFP 2016	Total AFP to date, 2017	W42 23 Oct 16	W43 30 Oct 16	W44 06 Nov 16	W45 13 Nov 16	W46 20 Nov 16	W47 27 Nov 16	W48 04 Dec 16	W49 11 Dec 16	W50 18 Dec 16	W51 25 Dec 16	W52 01 Jan 17	W01 08 Jan 17
Afghanistan	2738	2889	12	56	50	58	68	56	51	57	56	52	47	19	5
Bahrain	19	14	0	0	0	0	0	1	1	0	0	0	0	0	0
Djibouti	3	3	0												
Egypt	1046	1088	6	21	21	41	17	33	19	26	18	25	20	24	1
Iran	780	767	0	15	14	15	20	14	17	16	14	13	5	0	
Iraq	520	596	1	8	17	13	11	10	13	18	11	9	7	5	
Jordan ****	90	106	0	2	2	2	3	3	3	1	3	2	2	0	
Kuwait	32	48	0	1	0	1	0	3	0	5	3	1	1	2	0
Lebanon ****	113	112	0	7	1	2	1	5	1	0	1	0	4	3	
Libya	54	70	0	0	1	2	1	3	2	2	2	3	1	3	
Morocco	79	79	0	2	1	1	1	1	1	3	1				
Oman	39	37	0	1	0	0	1	0	0	0	2	0	0	0	0
Pakistan	5814	7477	0	180	177	143	159	193	201	153	145	154	106	20	0
Palestine ****	38	46	0	0	4	0	0	0	0	0	0	0	0	1	0
Qatar	11	7	0	0	0	0	0	0	0	0	0				
Saudi Arabia	254	233	0	10	10	8	8	11	4	1	0	0	0	0	0
Somalia	281	315	0	11	7	2	4	4	13	8	5	4	6	1	0
Sudan	436	508	1	8	7	11	10	9	7	9	4	4	5	1	0
Syria ****	235	296	0	3	3	8	5	5	3	4	11	9	3	4	
Tunisia	64	85	0	2	3	2	1	3	1	1	1	1	0	0	
U.A.E	31	41	0	1	0	3	1	1	2	2	2	0	1	1	0
Yemen	537	703	1	16	11	4	11	10	11	17	6	7	11	4	1
Total EMR	13214	15520	21	344	329	316	322	365	350	323	285	284	219	88	7

☐ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2015	Total year 2016	08/01		Confirmed polio cases by month of onset											
			2016	2017	February 2016	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016	November 2016	December 2016	January 2017
Afghanistan	20	12	0	0	2	1	1	1	0	0	2	2	2			
Bahrain	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					
Egypt	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			
Iraq	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		
Kuwait	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			
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			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pakistan	54	19	0	0	4	2	3		2	1		2	2	1		
Palestine ****	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	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			
Syria ****	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		
U.A.E	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					
Total EMR	74	31	0	0	6	3	4	1	2	1	2	4	4	1	0	0

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



Table 3: Investigation of AFP cases with paralysis onset in 2016 & 2017 up to Week (01/17) / Ending on : 08/01/2017)

COUNTRY	2016												2017												Latest line List Date
	AFP									Specimen	Wild cases ****		AFP									Specimen	Wild cases ****		
	Total AFP cases onset 2016	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 2017	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	2889	12	0	170	2706	1	14.6	5	0	92.5	12	0	12	0	0	12	0	0	2.8	0	0	100.0	0	0	08/01/2017
Bahrain	14	0	0	2	12	0	5.2	0	0	100.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	08/01/2017
Djibouti	3	0	0	2	1	0	1.0	2	0	33.3	0	0	0	0	0	0	0	0.0	0	0		0	0	10/09/2016	
Egypt	1088	0	0	175	913	0	2.8	0	0	92.6	0	0	6	0	0	6	0	0	0.7	0	0	0.0	0	0	05/01/2017
Iran	767	0	0	9	758	0	4.1	0	0	95.3	0	0	0	0	0	0	0	0.0	0	0		0	0	07/01/2017	
Iraq	596	0	0	63	532	1	4.1	23	1	80.9	0	0	1	0	0	1	0	0	0.3	0	0	100.0	0	0	06/01/2017
Jordan	106	0	0	24	82	0	3.8	0	0	100.0	0	0	0	0	0	0	0	0.0	0	0		0	0	05/01/2017	
Kuwait	48	0	0	13	35	0	5.5	2	0	79.2	0	0	0	0	0	0	0	0.0	0	0		0	0	08/01/2017	
Lebanon	112	0	0	21	91	0	5.8	10	0	81.3	0	0	0	0	0	0	0	0.0	0	0		0	0	05/01/2017	
Libya	70	0	0	9	61	0	3.4	0	0	97.1	0	0	0	0	0	0	0	0.0	0	0		0	0	07/01/2017	
Morocco	79	0	0	27	52	0	0.8	18	1	62.0	0	0	0	0	0	0	0	0.0	0	0		0	0	16/12/2016	
Oman	37	0	0	0	37	0	4.3	0	0	86.5	0	0	0	0	0	0	0	0.0	0	0		0	0	08/01/2017	
Pakistan	7477	19	1	451	7004	3	9.6	59	8	88.7	19	0	0	0	0	0	0	0.0	0	0		0	0	08/01/2017	
Palestine	46	0	0	5	41	0	2.4	0	0	97.8	0	0	0	0	0	0	0	0.0	0	0		0	0	08/01/2017	
Qatar	7	0	0	3	4	0	2.4	3	0	100.0	0	0	0	0	0	0	0	0.0	0	0		0	0	11/12/2016	
Saudi Arabia	233	0	0	59	174	0	2.4	5	5	98.7	0	0	0	0	0	0	0	0.0	0	0		0	0	08/01/2017	
Somalia	315	0	0	11	303	1	5.4	0	0	99.4	0	0	0	0	0	0	0	0.0	0	0		0	0	08/01/2017	
Sudan	508	0	0	8	500	0	3.0	0	0	97.6	0	0	1	0	0	1	0	0	0.3	0	0	100.0	0	0	08/01/2017
Syria	296	0	0	27	269	0	3.8	0	0	87.8	0	0	0	0	0	0	0	0.0	0	0		0	0	07/01/2017	
Tunisia	85	0	0	2	83	0	3.2	0	0	78.8	0	0	0	0	0	0	0	0.0	0	0		0	0	06/01/2017	
U.A.E	41	0	0	8	33	0	4.1	0	0	100.0	0	0	0	0	0	0	0	0.0	0	0		0	0	08/01/2017	
Yemen	703	0	0	158	544	1	5.3	41	34	91.0	0	0	1	0	0	1	0	0	0.3	0	0	100.0	0	0	07/01/2017
EMR	15520	31	1	1247	14235	7	6.2	168	49	90.3	31	0	21	0	0	21	0	0	0.4	0	0	71.4	0	0	
2015	13214	74	15	1	13116	8	5.4	1	0	90.2	74	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



World Health Organization – Regional Office for Eastern Mediterranean
AFP SURVEILLANCE
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Table 4 (a): Last wild contacts in EMRO, 01/01/2016 - 08/01/2017

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
2016	Pakistan	5	25-11-16
	Afghanistan	4	07-10-16
2016 Total		9	25-11-16

Table 4 (b): Number and distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2016-2017

YEAR	COUNTRY	PROVINCE	DISTRICT	COUNT	First case	Last case
2016	AFG	KUNAR	SHIGAL WA SHEL TAN	1	26-02-16	26-02-16
		HILMAND	NAWZAD	1	23-01-16	23-01-16
		PAKTIKA	BERMEL	1	01-09-16	01-09-16
	AFG Total			3	23-01-16	01-09-16
	PAK	KHYBER PAKHTOON	KOHISTAN	1	03-09-16	03-09-16
		SINDH	BADIN	1	10-10-16	10-10-16
PAK Total			2	03-09-16	10-10-16	



Table 5: Laboratory investigation of AFP cases with paralysis onset in 2017 up to Week (01/17) / Ending on : (08/01/2017)

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	1					1																		07/01/2017		
Bahrain	PNL Oman																									09/01/2017	
Djibouti	NPL Kenya																									10/09/2016	
Egypt***	RRL Egypt																									29/12/2016	
Iran	NPL Iran	1					1																			07/01/2017	
Iraq	RRL Egypt	1					1																			05/01/2017	
Jordan	RRL Tunisia	2					2																			08/01/2017	
Kuwait	RRL Kuwait																									10/11/2016	
Lebanon	NPL Jordan																									08/01/2017	
Libya	RRL Tunisia																									30/12/2016	
Morocco	RRL Tunisia																									17/12/2016	
Oman	NPL Oman																									09/01/2017	
Pakistan	RRL Pakistan	4					4																			07/01/2017	
Palestine & UNRWA																										08/01/2017	
Qatar	NPL Oman																									09/02/2017	
Saudi Arabia	NPL Oman																									08/01/2017	
Somalia	NPL Kenya																									08/01/2017	
Sudan	RRL Egypt	1					1																			08/01/2017	
Syria	RRL Egypt																									09/01/2017	
Tunisia	RRL Tunisia																									30/12/2016	
U.A.E	NPL Oman																									09/01/2017	
Yemen	RRL Egypt																									29/12/2016	
Total EMR 2017		10					10																				
Total EMR 2016		15382	759	89	2646	11199	461	226	26	442			83	6	521		3	19	3	5		16%	94%	98%	95%		

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

** This indicator reflects surveillance and laboratory activities



Table 6: Environmental isolate by year and type

Country	Status	2010	2011	2012	2013	2014	2015	2016	2017
AFG	NEGATIVE				9	78	129	170	
	PENDING							15	
	WILD					17	20		
AFG Total					9	95	149	185	
EGY	NEGATIVE	183	178	196	304	410	412	465	
	PENDING							51	
	WILD			2					
	VDPV1			1		1			
	VDPV2			7	3	2	3	1	
EGY Total		183	178	206	307	413	415	517	
JOR	NEGATIVE							2	
	PENDING								1
JOR Total								2	1
LEB	NEGATIVE							3	
	PENDING								2
LEB Total								3	2
PAK	NEGATIVE	77	68	151	257	237	347	454	
	PENDING							10	3
	WILD	79	136	88	63	125	79	59	
	WILD & VDPV2				2	6	5	3	
	VDPV2					4	8	3	
PAK Total		156	204	239	322	372	439	529	3
EMR	NEGATIVE	260	246	347	570	725	888	1092	
	PENDING							76	
	WILD	79	136	90	63	142	99	59	
	WILD & VDPV2				2	6	5	3	
	VDPV1			1		1			
VDPV2			7	3	6	11	4		
EMR Total		339	382	445	638	880	1003	1236	6

Table 7: Environmental Wild/VDPV isolate by site

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
				BEHSUD	1	25-10-15	25-10-15
				NANGARHAR	4	22-02-15	27-12-15
AFG Total				20	04-01-15	27-12-15	
EGY	VDPV2	CAIRO	EL SAFF	1	16-06-15	16-06-15	
			GIZA	1	04-02-15	04-02-15	
			HURGADA	1	26-05-15	26-05-15	
EGY Total				3	04-02-15	16-06-15	
2015	PAK	WILD1	BALOCHISTAN	KABDULLAH	3	15-01-15	01-06-15
				QUETTA	12	12-01-15	28-10-15
				CDA	2	12-01-15	17-08-15
			KHYBER PAKHTUNKHWA	DIKHAN	3	04-03-15	04-08-15
				PESHAWAR	11	03-01-15	11-12-15
				LAHORE	4	12-01-15	12-10-15
			PUNJAB	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	JACOBABAD	5	08-01-15	04-11-15
				KHIGADAP	16	06-01-15	22-12-15
				KHIGIQBAL	6	13-01-15	14-12-15
			WILD1 & VDPV	SUKKUR	6	06-01-15	11-09-15
				QUETTA	3	28-03-15	12-12-15
				PESHAWAR	1	26-02-15	26-02-15
VDPV2	SINDH	1	22-01-15	22-01-15			
	PUNJAB	1	13-04-15	13-04-15			
	SINDH	5	14-01-15	18-03-15			
				2	08-06-15	07-07-15	
PAK Total				92	03-01-15	22-12-15	
2015 Total				115	03-01-15	27-12-15	
EGY	VDPV2	SOUTH SINAI	AL-TUR	1	15-03-16	15-03-16	
EGY Total				1	15-03-16	15-03-16	
2016	PAK	WILD1	BALOCHISTAN	KABDULLAH	6	15-01-16	02-12-16
				PISHIN	4	02-08-16	16-09-16
				QUETTA	11	12-02-16	20-11-16
			KHYBER PAKHTUNKHWA	DIKHAN	1	16-07-16	16-07-16
				PESHAWAR	10	11-01-16	10-12-16
				DERA GHAZI KHA	1	12-05-16	12-05-16
			PUNJAB	FAISALABAD	2	03-02-16	02-07-16
				LAHORE	3	05-08-16	18-10-16
				MULTAN	2	08-11-16	08-12-16
				RAWALPINDI	4	14-04-16	10-12-16
			SINDH	HYDERABAD	1	05-01-16	05-01-16
				JACOBABAD	3	04-02-16	16-08-16
				KHIGADAP	5	27-01-16	14-07-16
				KHIGIQBAL	2	18-01-16	15-03-16
				KHILANDHI	1	14-12-16	14-12-16
				SUKKUR	3	12-01-16	19-03-16
			WILD1+VDPV2	BALOCHISTAN	3	20-10-16	12-12-16
BALOCHISTAN	2	20-06-16		16-09-16			
VDPV2	SINDH	HYDERABAD	1	11-07-16	11-07-16		
PAK Total				65	05-01-16	14-12-16	
2016 Total				66	05-01-16	14-12-16	



Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2016 - 31/12/2016

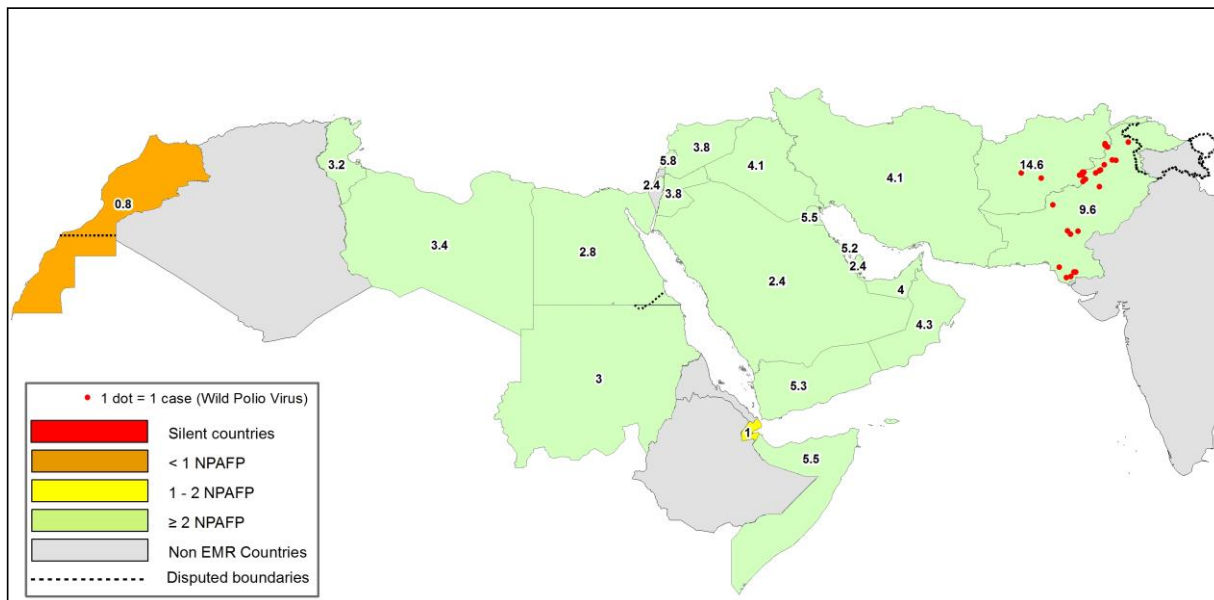


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2016 - 31/12/2016

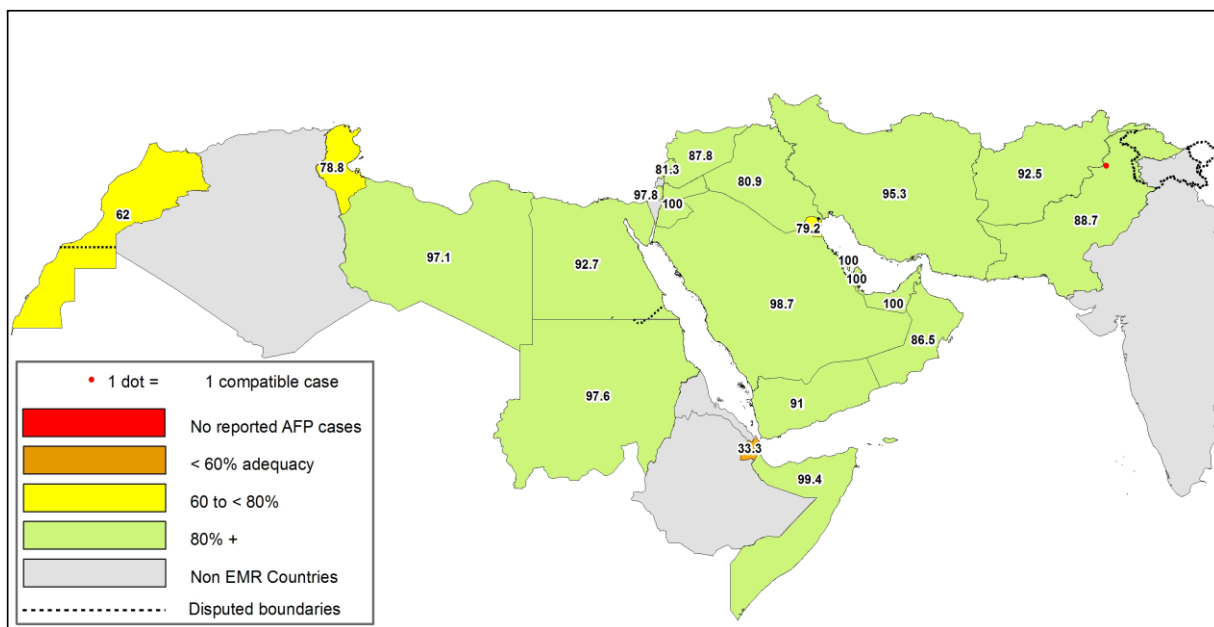


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2016 - 2017

		P1		
Year	COUNTRY	Count	First Case	Last Case
2016	AFG	12	23-01-16	12-10-16
	PAK	19	17-01-16	03-11-16
2016 Total		31	17-01-16	03-11-16

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



Figure 3: Non Polio AFP rate by District in Afghanistan & Pakistan 01/01/2016 - 31/12/2016

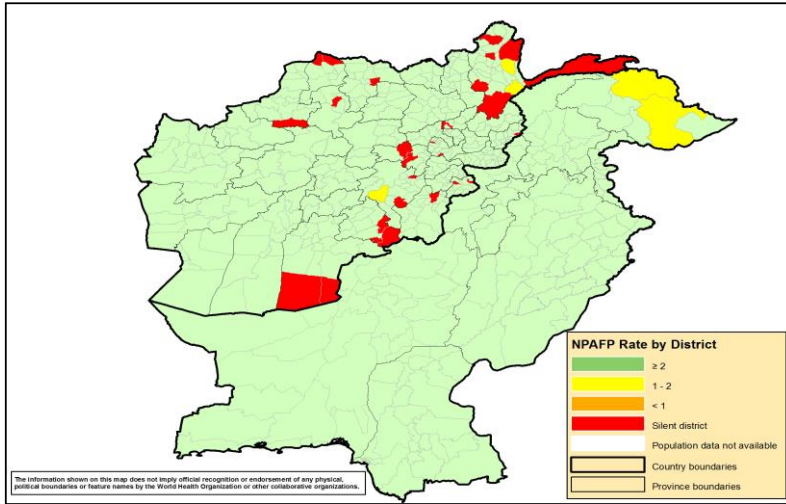


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2016 - 31/12/2016

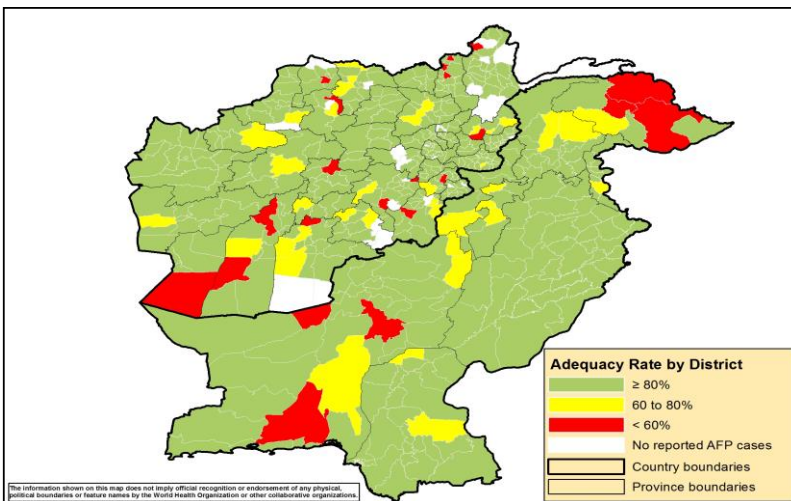


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan 01/01/2016 - 31/12/2016

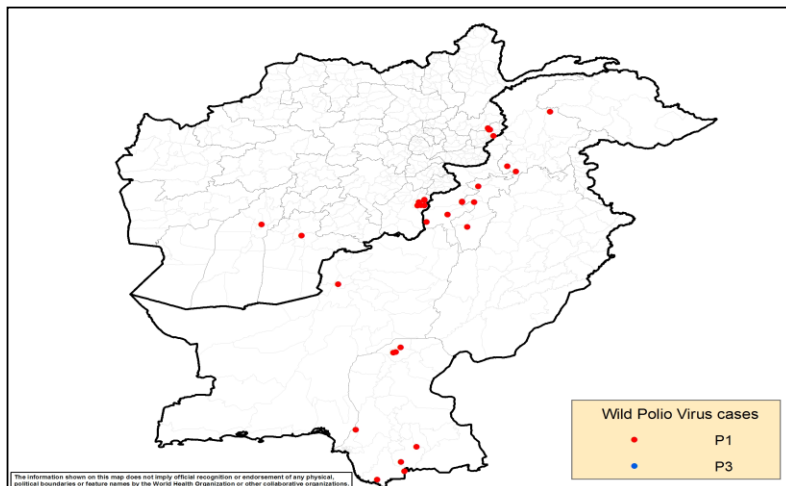




Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2016-2017

COUNTRY	PROVINCE	DISTRICT	Count	First case	Last case
AFG	PAKTIKA	BERMEL	6	02-08-16	12-10-16
	KUNAR	SHIGAL WA SHEL TAN	4	01-02-16	29-05-16
	KANDAHA	SHAHWALIKOT	1	04-04-16	04-04-16
	HILMAND	NAWZAD	1	23-01-16	23-01-16
AFG Total			12	23-01-16	12-10-16
Grand Total			12	23-01-16	12-10-16

Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2016-2017

COUNTRY	PROVINCE	DISTRICT	Count	First case	Last case
PAK	SINDH	SUJAWAL	2	03-09-16	03-11-16
		BADIN	2	10-10-16	16-10-16
		SHIKARPUR	2	05-03-16	12-04-16
		JACOBABAD	1	10-02-16	10-02-16
		KHIGADAP	1	17-01-16	17-01-16
	KHYBER PAKHTOON	KOHISTAN	1	03-09-16	03-09-16
		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
	FATA	WAZIR-S	2	18-06-16	27-07-16
	BALUCHISTAN	QUETTA	1	01-02-16	01-02-16
	PAK Total			19	17-01-16
Grand Total			19	17-01-16	03-11-16



Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2016 - 2017

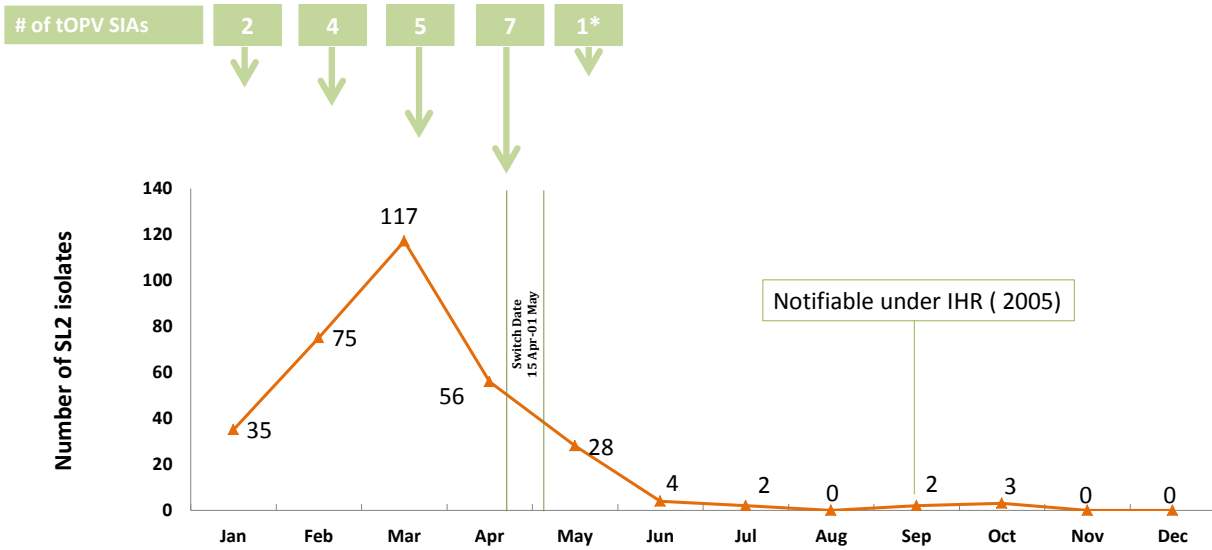
Year	COUNTRY	PROVINCE	DISTRICT	cVDPV2		
				Count	First Case	Last Case
2016	PAK	BALOCHISTAN	QUETTA	1	17-12-16	17-12-16
	PAK Total			1	17-12-16	17-12-16
2016 Total				1	17-12-16	17-12-16

Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2016 - 2017

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					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																		
	Contact				3																				
	ENV		9		19	1	20		5		8														
IRA	AFP										1														
	Contact																								
	ENV																								
IRQ	AFP		2	1	1		5		1														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		16				3							1						1	
	Contact				1		7		5		1														
	ENV		7		32		27		27		9	1	3	1	1			1	1	1	2	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						1				
	Contact																								
	ENV																								
SYR	AFP									1															
	Contact																								
	ENV																								
TUN	AFP																								
	Contact																								
	ENV																								
UAE	AFP																								
	Contact																								
	ENV																								
YEM	AFP		1					1		1			1*												
	Contact				1			2		1			1*												
	ENV																								
EMR	AFP		12	1	15		39		6		8		1		1			2	1	1	1			1	
	Contact		4		7		20		18		3				1										
	ENV		19		53	1	58		32		17	1	3	1	1			1	1	1	2	1		1	
VDPV2		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																							
		* VDPV2 isolated from index and contact at the same time																							
		Isolation of PV2 in IRN under investigation not reflected in this table																							



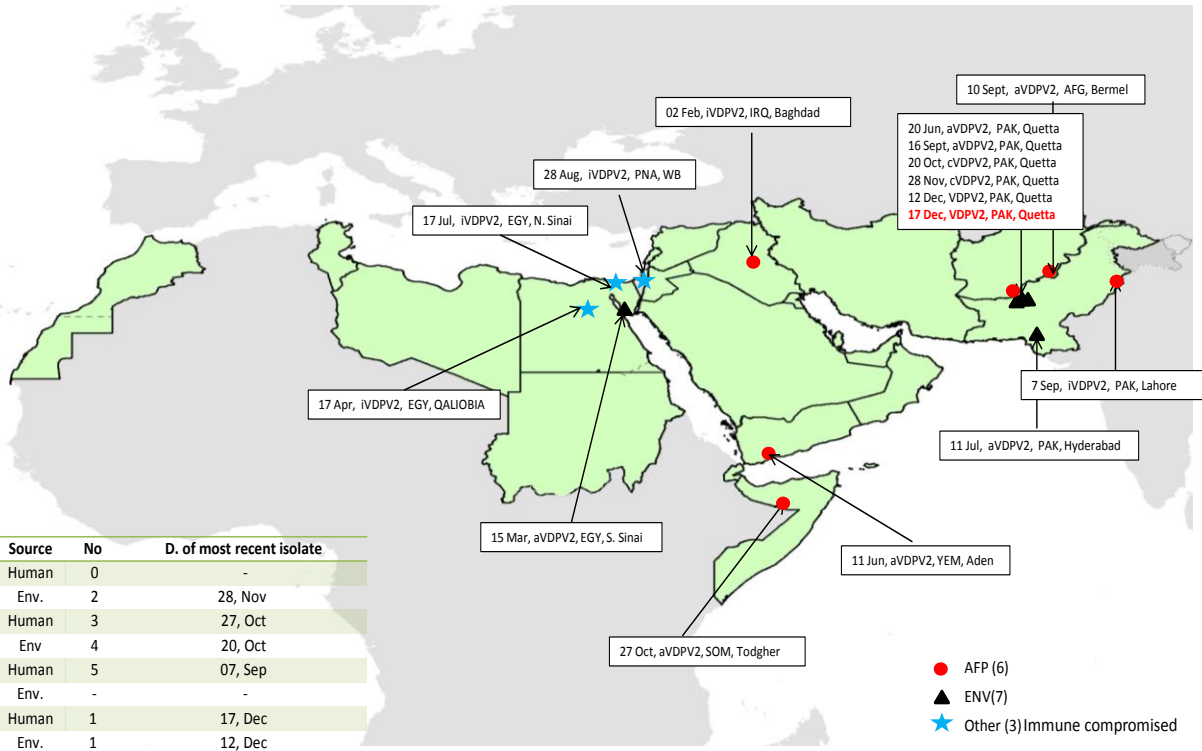
SL2 isolates, EMR countries from Human and ENV 2016



* Focused tOPV campaign in El Tur district (S. Sinai/Egy) as a response to VDPV2 isolation
 PV2 isolated from Iran is under investigation

08 Jan 2017

VDPV2 isolates, EMR countries, 2016



Type	Source	No	D. of most recent isolate
cVDPV	Human	0	-
	Env.	2	28, Nov
aVDPV	Human	3	27, Oct
	Env	4	20, Oct
iVDPV	Human	5	07, Sep
	Env.	-	-
VDPV*	Human	1	17, Dec
	Env.	1	12, Dec

* Pending sequencing

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