



AFP SURVEILLANCE

27-Feb-17

Week 08, ending 26 February 2017

Number 960

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

Country	Reported AFP cases by week of onset - Week (08/17) / Ending on : 26/02/2017														
	Total AFP 2015	Total AFP 2016	Total AFP to date, 2017	W49 11 Dec 16	W50 18 Dec 16	W51 25 Dec 16	W52 01 Jan 17	W01 08 Jan 17	W02 15 Jan 17	W03 22 Jan 17	W04 29 Jan 17	W05 05 Feb 17	W06 12 Feb 17	W07 19 Feb 17	W08 26 Feb 17
Afghanistan	2738	2904	381	58	54	52	29	53	42	45	63	48	63	47	7
Bahrain	19	14	2	0	0	0	0	0	0	0	0	0	2	0	0
Djibouti	3	3	1	0	0	0	0	0	0	0	1	0	0	0	0
Egypt	1046	1092	179	18	25	20	30	21	21	24	23	27	22	30	3
Iran	780	776	83	14	15	12	9	11	18	9	11	12	11	2	
Iraq	520	605	88	12	10	9	14	15	14	17	12	9	12	3	
Jordan ****	90	107	15	3	2	2	2	1	4	2	2	1	2	1	1
Kuwait	32	50	6	3	2	1	2	0	0	3	2	1	0	0	
Lebanon ****	113	111	18	1	0	4	2	0	5	1	4	0	3	4	1
Libya	54	70	14	2	3	1	4	3	3	1	2	0	2	2	
Morocco	79	85	5	1	2	1	0	0	3	1	1				
Oman	39	39	3	2	0	2	0	0	0	0	0	0	1	2	0
Pakistan	5814	7823	961	173	210	193	147	155	196	161	132	142	109	37	0
Palestine ****	38	46	6	0	0	0	1	1	3	0	1	0	1	0	0
Qatar	11	9	4	1	1	0	0	0	0	0	0	2	2	0	0
Saudi Arabia	254	273	14	11	3	10	4	5	4	5	0	0	0	0	
Somalia	281	316	48	5	4	7	1	6	9	10	6	2	7	6	2
Sudan	436	509	70	4	4	6	1	16	10	7	14	9	7	6	
Syria ****	235	303	31	11	10	4	9	6	4	3	5	5	6	1	
Tunisia	64	90	1	1	2	0	0	1	0	0	0	0			
U.A.E	31	42	8	2	0	1	3	0	0	1	2	2	1	0	1
Yemen	537	715	91	7	7	13	12	17	21	13	13	7	14	5	1
Total EMR	13214	15982	2029	329	354	338	270	311	357	303	294	267	265	146	16

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2015	Total year 2016	26/02		Confirmed polio cases by month of onset											
			2016	2017	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016	November 2016	December 2016	January 2017	February 2017
Afghanistan	20	13	3	2	1	1	1	0	0	2	2	2	0	1	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	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		
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		
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			
Morocco	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	54	20	6	1	2	3	0	2	1	0	2	2	1	1	1	
Palestine ****	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			
Somalia	0	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	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	0		
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total EMR	74	33	9	3	3	4	1	2	1	2	4	4	1	2	3	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 (08/17) / Ending on : 26/02/2017)

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	2904	13	0	22	2868	1	14.4	8	0	92.3	13	0	381	2	0	165	214	0	11.8	0	0	94.5	2	0	26/02/2017
Bahrain	14	0	0	0	14	0	4.9	0	0	100.0	0	0	2	0	0	2	0	0	4.4	0	0	100.0	0	0	26/02/2017
Djibouti	3	0	0	0	3	0	1.0	0	0	33.3	0	0	1	0	0	1	0	0	2.2	0	0	100.0	0	0	20/02/2017
Egypt	1092	0	0	10	1082	0	2.9	0	0	94.0	0	0	179	0	0	101	78	0	3.0	0	0	81.0	0	0	23/02/2017
Iran	776	0	0	0	776	0	4.2	0	0	95.5	0	0	83	0	0	8	75	0	2.9	0	0	100.0	0	0	25/02/2017
Iraq	605	0	0	17	587	1	4.2	10	1	80.7	0	0	88	0	0	38	50	0	3.9	0	0	84.1	0	0	25/02/2017
Jordan	107	0	0	23	84	0	3.8	14	0	100.0	0	0	15	0	0	15	0	0	3.5	0	0	93.3	0	0	23/02/2017
Kuwait	50	0	0	0	50	0	5.7	0	0	90.0	0	0	6	0	0	6	0	0	4.4	0	0	66.7	0	0	19/02/2017
Lebanon	111	0	0	10	101	0	5.8	10	0	82.9	0	0	18	0	0	12	6	0	5.8	0	0	77.8	0	0	24/02/2017
Libya	70	0	0	2	68	0	3.4	0	0	97.1	0	0	14	0	0	10	4	0	4.4	0	0	100.0	0	0	25/02/2017
Morocco	85	0	0	27	58	0	0.8	23	1	61.2	0	0	5	0	0	5	0	0	0.3	0	0	60.0	0	0	03/02/2017
Oman	39	0	0	0	39	0	4.5	0	0	87.2	0	0	3	0	0	3	0	0	2.2	0	0	100.0	0	0	26/02/2017
Pakistan	7823	20	4	163	7634	2	10.0	81	10	87.6	20	0	961	1	0	272	688	0	7.9	0	0	93.3	1	0	26/02/2017
Palestine	46	0	0	1	45	0	2.4	0	0	97.8	0	0	6	0	0	6	0	0	2.0	0	0	100.0	0	0	19/02/2017
Qatar	9	0	0	2	7	0	3.0	0	0	100.0	0	0	4	0	0	4	0	0	8.6	0	0	75.0	0	0	26/02/2017
Saudi Arabia	273	0	0	39	234	0	2.8	3	2	97.8	0	0	14	0	0	14	0	0	0.9	0	0	92.9	0	0	24/02/2017
Somalia	316	0	0	0	315	1	5.5	0	0	99.1	0	0	48	0	0	20	28	0	5.3	0	0	97.9	0	0	26/02/2017
Sudan	509	0	0	0	509	0	2.8	0	0	97.6	0	0	70	0	0	16	54	0	2.5	0	0	98.6	0	0	26/02/2017
Syria	303	0	0	1	302	0	3.9	0	0	87.8	0	0	31	0	0	15	16	0	2.6	0	0	87.1	0	0	25/02/2017
Tunisia	90	0	0	0	89	1	3.4	0	0	76.7	0	0	1	0	0	1	0	0	0.2	0	0	100.0	0	0	10/02/2017
U.A.E	42	0	0	0	42	0	4.2	0	0	100.0	0	0	8	0	0	5	3	0	5.1	0	0	100.0	0	0	26/02/2017
Yemen	715	0	0	13	701	1	5.4	4	0	90.8	0	0	91	0	0	89	2	0	4.2	0	0	94.5	0	0	25/02/2017
EMR	15982	33	4	330	15608	7	6.4	153	14	89.8	33	0	2029	3	0	808	1218	0	5.2	0	0	92.4	3	0	
2015	13214	74	15	1	13116	8	5.2	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



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Table 4 (a): Most recent wild contacts in EMRO, 01/01/2016 - 26/02/2017

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 SHELTAN	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 (08/17) / Ending on : (26/02/2017)

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	275	27	1	37	185	24	1	2	25											13%	100%	100%	100%	25/02/2017	
Bahrain	PNL Oman																								27/02/2017	
Djibouti	NPL Kenya	1						1																	20/02/2017	
Egypt***	RRL Egypt	152	2		11	82	26	31		1								1			9%	100%	100%	100%	26/02/2017	
Iran	NPL Iran	97	3			70	24			2											0%	100%	100%	100%	25/02/2017	
Iraq	RRL Egypt	90	4		8	53	23	2		3											10%	100%	100%	100%	23/02/2017	
Jordan	RRL Tunisia	14			1	12	1														10%	100%			26/02/2017	
Kuwait	RRL Kuwait	7				6		1													0%	83%		100%	16/02/2017	
Lebanon	NPL Jordan	9				9															8%	100%			26/02/2017	
Libya	RRL Tunisia	11				9	2														0%	100%		100%	24/02/2017	
Morocco	RRL Tunisia	9				5	4														0%	100%		100%	24/02/2017	
Oman	NPL Oman	3					3														0%				27/02/2017	
Pakistan	RRL Pakistan	1082	60	2	101	629	287	2	1	37			1					1			11%	100%	100%	100%	25/02/2017	
Palestine & UNRWA		6			3	1		2													75%	0%		100%	19/02/2017	
Qatar	NPL Oman	3				1	2														0%	100%		100%	27/02/2017	
Saudi Arabia	NPL Oman	36			4	18	9	5													12%	86%		100%	19/02/2017	
Somalia	NPL Kenya	48	3	2	2	22	13	6		4										1	14%	24%		100%	26/02/2017	
Sudan	RRL Egypt	71	2		6	47	16			1											10%	100%	100%	100%	26/02/2017	
Syria	RRL Egypt	12				3		9													0%	100%			23/02/2017	
Tunisia	RRL Tunisia	8				4	4														3%	100%		100%	24/02/2017	
U.A.E	NPL Oman	4	1			3				1											0%	100%	100%	100%	27/02/2017	
Yemen	RRL Egypt	1				1															0%	100%		100%	26/02/2017	
Total EMR 2017		1939	102	5	173	1160	438	60	3	74			1					2		1	10%	98%	100%	100%		
Total EMR 2016		15745	823	94	2774	12029	1	21	28	479			85	6	564	1	3	23	3	4	15%	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	183	22
	PENDING								10
	WILD					17	20	2	1
AFG Total					9	95	149	185	33
EGY	NEGATIVE	183	178	196	304	410	412	528	57
	PENDING								22
	WILD			2					
	VDPV1			1		1			
	VDPV2			7	3	2	3	1	
EGY Total		183	178	206	307	413	415	529	79
JOR	NEGATIVE							2	2
	PENDING								3
JOR Total								2	5
LEB	NEGATIVE							3	2
	PENDING								1
LEB Total								3	3
PAK	NEGATIVE	77	68	151	257	237	347	462	50
	PENDING								36
	WILD	79	136	88	63	125	79	59	13
	WILD & VDPV2				2	6	5	3	
	VDPV2					4	8	5	
PAK Total		156	204	239	322	372	439	529	99
EMR	NEGATIVE	260	246	347	570	725	888	1178	133
	PENDING								72
	WILD	79	136	90	63	142	99	61	14
	WILD & VDPV2				2	6	5	3	
	VDPV1			1		1			
VDPV2			7	3	6	11	6		
EMR Total		339	382	445	638	880	1003	1248	219

Table 7: Environmental Wild/VDPV isolate by site

Year	Country	Status	Province	District	Count	First date	Last date				
2016	AFG	WILD1	HILMAND	NAHR-E-SARAJ	1	23-12-16	23-12-16				
			NANGARHAR	JALALABAD	1	26-12-16	26-12-16				
	AFG Total					2	23-12-16	26-12-16			
	PAK	WILD1	BALOCHISTAN	KABDULLAH	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			
				PUNJAB	DERA GHAZI KHA	1	12-05-16	12-05-16			
					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	QUETTA	3	20-10-16	12-12-16					
	VDPV2	BALOCHISTAN	QUETTA	4	20-06-16	28-12-16					
		SINDH	HYDERABAD	1	11-07-16	11-07-16					
PAK Total					67	05-01-16	28-12-16				
2016 Total					69	05-01-16	28-12-16				
2017	AFG	WILD1	NANGARHAR	JALALABAD	1	24-01-17	24-01-17				
				AFG Total					1	24-01-17	24-01-17
	PAK	WILD1	BALOCHISTAN	KABDULLAH	PISHIN	2	02-01-17	02-02-17			
					QUETTA	3	01-01-17	20-01-17			
				KHYBER PAKHTUNKHWA	PESHAWAR	1	10-01-17	10-01-17			
					PUNJAB	MULTAN	1	09-01-17	09-01-17		
				RAWALPINDI		1	10-01-17	10-01-17			
				SINDH	KHIGADAP	1	09-01-17	09-01-17			
					KHIGIQBAL	1	03-02-17	03-02-17			
				PAK Total					13	01-01-17	03-02-17
				2017 Total					14	01-01-17	03-02-17



Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2017 - 26/02/2017

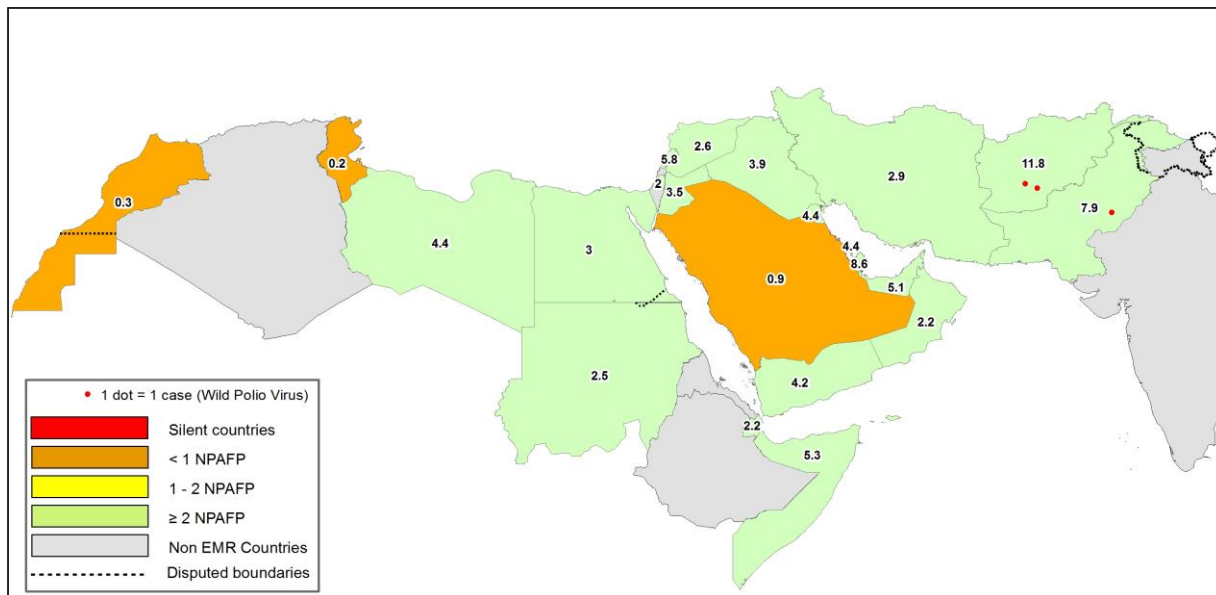


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2017 - 26/02/2017

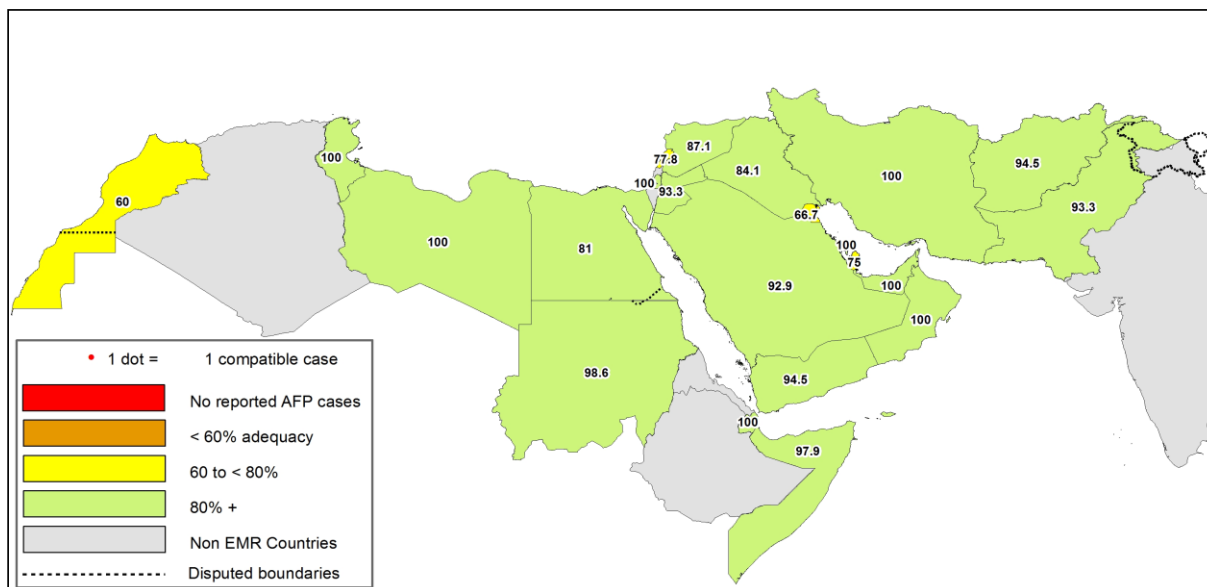


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2016 - 2017

Year	COUNTRY	Count	First Case	Last Case
2016	AFG	13	23-01-16	16-12-16
	PAK	20	17-01-16	22-12-16
2016 Total		33	17-01-16	22-12-16
2017	AFG	2	13-01-17	21-01-17
	PAK	1	28-01-17	28-01-17
2017 Total		3	13-01-17	28-01-17

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 01/01/2017 - 26/02/2017

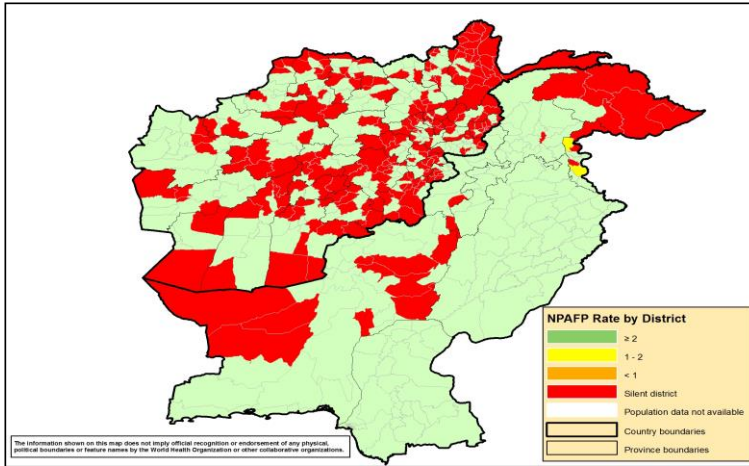


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2017 - 26/02/2017

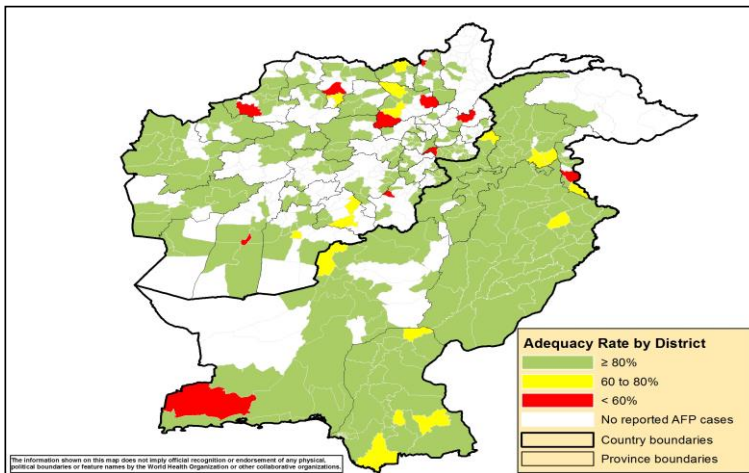
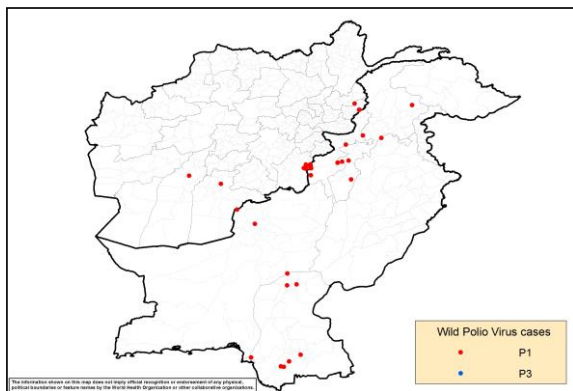


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

5a: 01/01/2016 - 31/12/2016



5b: 01/01/2017 - 26/02/2017

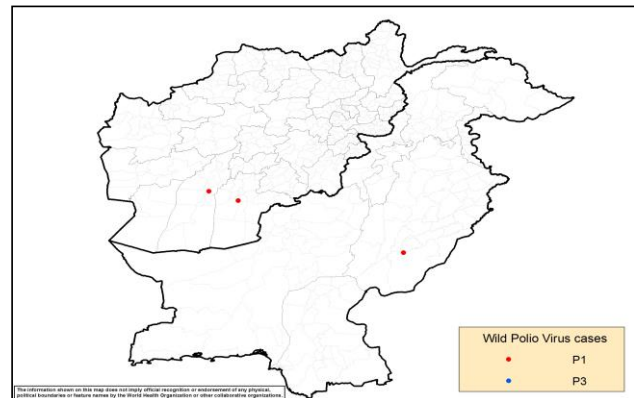




Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2016-2017

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2017	HILMAND	NAHR-E-SARAJ	1	21-01-17	21-01-17
	KANDAHAR	KANDAHAR	1	13-01-17	13-01-17
2017 Total			2	13-01-17	21-01-17
2016	PAKTIKA	BERMEL	7	02-08-16	16-12-16
	KUNAR	SHIGAL WA SHEL TAN	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			13	23-01-16	16-12-16

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

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2017	PUNJAB	LODHRAN	1	28-01-17	28-01-17
2017 Total			1	28-01-17	28-01-17
2016	BALOCHISTAN	KABDULAH	1	22-12-16	22-12-16
		QUETTA	1	01-02-16	01-02-16
	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
	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
	FATA	NOWSHERA	1	22-01-16	22-01-16
		WAZIR-S	2	18-06-16	27-07-16
2016 Total			20	17-01-16	22-12-16



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	BALUCHISTAN	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

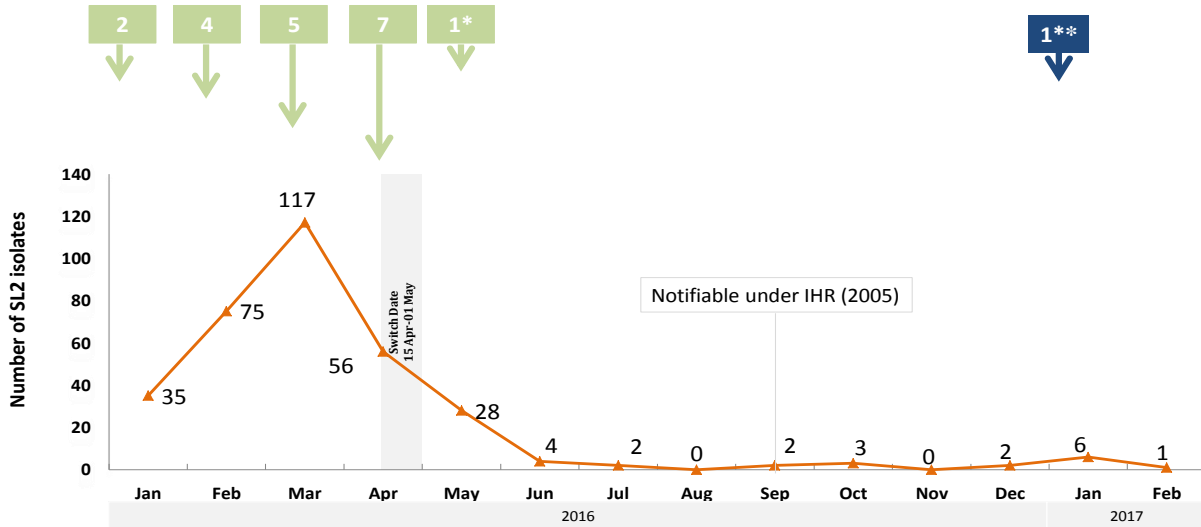
Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2016 - 2017

Country	VDPV2 and SL2 by month, EMR countries, 2016-2017																							
	Source	2016												2017										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb									
AFG	AFP	1	2	11	3	1																		
	Contact	1		6	2	1																		
	ENV	3	2	11																				1
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							1																
	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	2		1
	Contact		1	7	5	1																		
	ENV	7	32	27	27	9	1	3	1	1					1	1	1	2	1		3			4
PAL	AFP																							
	Contact																							
	ENV																							
QAT	AFP																							
	Contact																							
	ENV																							
SAA	AFP																							
	Contact																							
	ENV																							
SUD	AFP																							
	Contact																							
	ENV																							
SOM	AFP		1	6	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	2		1
	Contact	4		7	20	18	3	1																
	ENV	19		53	1	58	32	17	2	3				1	1	1	2	1			3			5

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



SL2 isolates, EMR countries from Human & ENV 2016/17

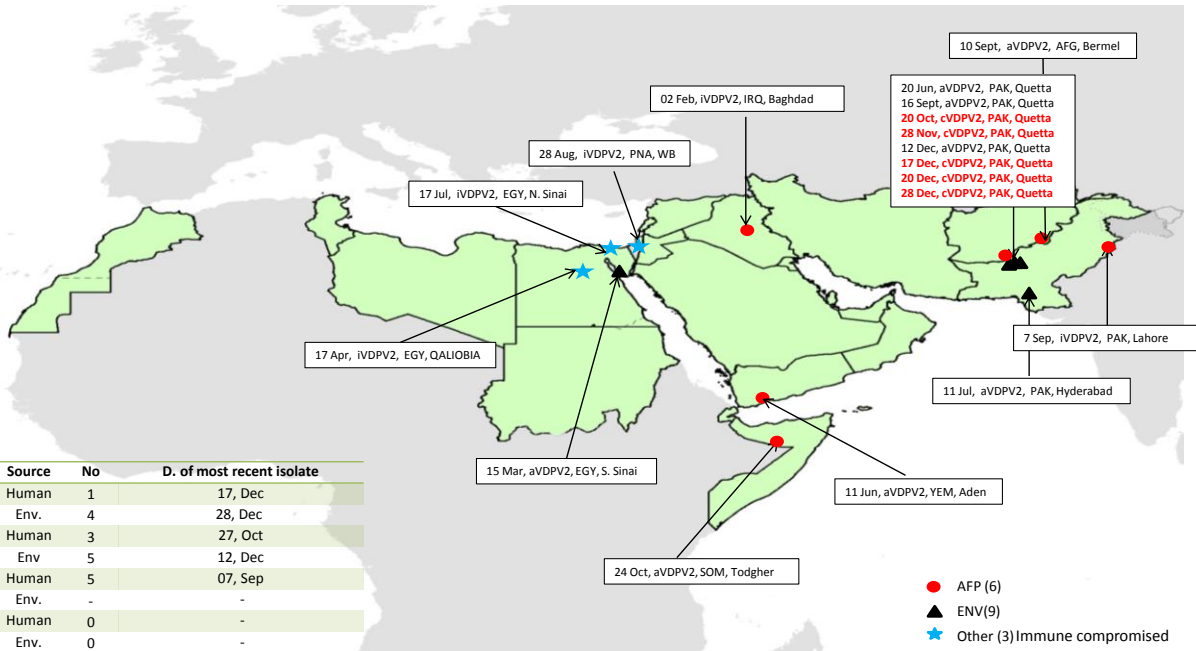


* Focused tOPV campaign in El Tur district (S. Sanaï/Egy) as a response to VDPV2 isolation
 ** mOPV2 in Quetta block 2-8 Jan. 2017

tOPV SIAs
 mOPV2

27 Feb 2017

VDPV2 isolates, EMR countries, 2016 (No isolation in 2017)



* Pending sequencing

27 Feb 2017