



AFP SURVEILLANCE

20-Feb-17

Week 07, ending 19 February 2017

Number 959

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

Country	Reported AFP cases by week of onset - Week (07/17) / Ending on : 19/02/2017														
	Total AFP 2015	Total AFP 2016	Total AFP to date, 2017	W48 04 Dec 16	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
Afghanistan	2738	2904	306	57	58	54	52	29	53	42	45	63	47	36	7
Bahrain	19	14	0	0	0	0	0	0	0	0	0	0	0	0	0
Djibouti	3	3	1	0	0	0	0	0	0	0	0	1	0	0	0
Egypt	1046	1092	152	27	18	25	20	30	21	21	24	23	27	22	6
Iran	780	776	71	16	14	15	12	9	11	18	9	11	9	4	0
Iraq	520	605	77	18	12	10	9	14	15	14	16	12	8	6	
Jordan ****	90	107	13	1	3	2	2	2	1	4	2	2	1	2	0
Kuwait	32	50	6	5	3	2	1	2	0	0	3	2	1	0	0
Lebanon ****	113	111	12	0	1	0	4	2	0	5	1	4	0	2	0
Libya	54	70	11	2	2	3	1	4	3	3	1	2	0	1	0
Morocco	79	85	5	3	1	2	1	0	0	3	1	1			
Oman	39	39	0	0	2	0	2	0	0	0	0	0	0	0	0
Pakistan	5814	7815	777	168	173	209	193	144	152	191	153	119	103	31	0
Palestine ****	38	46	6	0	0	0	0	1	1	3	0	1	0	1	0
Qatar	11	9	3	0	1	1	0	0	0	0	0	0	1	2	0
Saudi Arabia	254	273	0	8	11	3	10	4	0	0	0	0	0	0	
Somalia	281	316	41	8	5	4	7	1	6	9	10	6	2	6	2
Sudan	436	509	52	9	4	4	6	1	16	10	7	14	4	0	
Syria ****	235	303	23	5	11	10	4	9	6	4	3	5	3	1	
Tunisia	64	90	1	1	1	2	0	0	1	0	0	0	0		
U.A.E	31	42	7	2	2	0	1	3	0	0	1	2	2	1	0
Yemen	537	715	75	18	7	7	13	12	17	21	13	13	7	4	
Total EMR	13214	15974	1639	348	329	353	338	267	303	348	289	281	215	119	15

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2015	Total year 2016	19/02		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	2	2	1	1	1	0	0	2	2	2		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	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		
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	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		
Saudi Arabia	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		
Sudan	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	0		
Total EMR	74	33	8	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 (07/17) / Ending on : 19/02/2017

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	32	2858	1	14.4	7	1	92.3	13	0	306	2	0	159	145	0	10.8	0	0	94.1	2	0	19/02/2017
Bahrain	14	0	0	0	14	0	4.9	0	0	100.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	19/02/2017
Djibouti	3	0	0	0	3	0	1.0	0	0	33.3	0	0	1	0	0	1	0	0	2.5	0	0	100.0	0	0	20/02/2017
Egypt	1092	0	0	13	1079	0	2.9	0	0	94.0	0	0	152	0	0	93	59	0	2.9	0	0	84.2	0	0	16/02/2017
Iran	776	0	0	0	776	0	4.2	0	0	95.5	0	0	71	0	0	12	59	0	2.7	0	0	100.0	0	0	19/02/2017
Iraq	605	0	0	22	582	1	4.2	12	1	80.7	0	0	77	0	0	46	31	0	3.9	0	0	77.9	0	0	18/02/2017
Jordan	107	0	0	23	84	0	3.8	11	0	100.0	0	0	13	0	0	13	0	0	3.4	0	0	100.0	0	0	19/02/2017
Kuwait	50	0	0	0	50	0	5.7	0	0	90.0	0	0	6	0	0	6	0	0	5.0	0	0	66.7	0	0	19/02/2017
Lebanon	111	0	0	10	101	0	5.8	10	0	82.9	0	0	12	0	0	6	6	0	4.6	0	0	66.7	0	0	19/02/2017
Libya	70	0	0	2	68	0	3.4	0	0	97.1	0	0	11	0	0	7	4	0	3.9	0	0	100.0	0	0	19/02/2017
Morocco	85	0	0	27	58	0	0.8	22	1	61.2	0	0	5	0	0	5	0	0	0.4	0	0	60.0	0	0	03/02/2017
Oman	39	0	0	0	39	0	4.5	0	0	87.2	0	0	0	0	0	0	0	0	0.0	0	0		0	0	19/02/2017
Pakistan	7815	20	4	174	7615	2	10.0	72	12	87.7	20	0	777	1	0	229	547	0	7.3	0	0	93.3	1	0	19/02/2017
Palestine	46	0	0	1	45	0	2.4	0	0	97.8	0	0	6	0	0	6	0	0	2.3	0	0	100.0	0	0	19/02/2017
Qatar	9	0	0	2	7	0	3.0	0	0	100.0	0	0	3	0	0	3	0	0	7.4	0	0	66.7	0	0	19/02/2017
Saudi Arabia	273	0	0	58	215	0	2.8	17	16	97.8	0	0	0	0	0	0	0	0	0.0	0	0		0	0	12/02/2017
Somalia	316	0	0	0	315	1	5.5	0	0	99.1	0	0	41	0	0	18	23	0	5.2	0	0	97.6	0	0	19/02/2017
Sudan	509	0	0	0	509	0	2.8	0	0	97.6	0	0	52	0	0	21	31	0	2.1	0	0	100.0	0	0	12/02/2017
Syria	303	0	0	1	302	0	3.9	0	0	87.8	0	0	23	0	0	7	16	0	2.2	0	0	87.0	0	0	18/02/2017
Tunisia	90	0	0	0	89	1	3.4	0	0	76.7	0	0	1	0	0	1	0	0	0.3	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	7	0	0	5	2	0	5.1	0	0	100.0	0	0	19/02/2017
Yemen	715	0	0	78	636	1	5.4	12	4	90.8	0	0	75	0	0	74	1	0	4.0	0	0	94.7	0	0	18/02/2017
EMR	15974	33	4	443	15487	7	6.4	163	35	89.9	33	0	1639	3	0	712	924	0	4.8	0	0	92.2	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 - 19/02/2017

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
			BADIN	1	10-10-16	10-10-16
SINDH						
PAK Total			2	03-09-16	10-10-16	



Table 5: Laboratory investigation of AFP cases with paralysis onset in 2017 up to Week (07/17) / Ending on : (19/02/2017)

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	11	1	27	144	90	2	2	9											14%	100%	100%	100%	18/02/2017	
Bahrain	PNL Oman																								20/02/2017	
Djibouti	NPL Kenya	1					1																		20/02/2017	
Egypt***	RRL Egypt	139	2		11	82	41	3		1										1	9%	100%	100%	100%	19/02/2017	
Iran	NPL Iran	78	1			58	19			1											0%	100%	100%	100%	18/02/2017	
Iraq	RRL Egypt	79	4		7	40	26	2													11%	100%			16/02/2017	
Jordan	RRL Tunisia	13			1	9	3														13%	100%			19/02/2017	
Kuwait	RRL Kuwait	7				6	1														0%	83%		100%	16/02/2017	
Lebanon	NPL Jordan	9				6	3														10%	100%			19/02/2017	
Libya	RRL Tunisia	9				7	2														0%	100%		100%	19/02/2017	
Morocco	RRL Tunisia	6				5	1														0%	100%		100%	17/02/2017	
Oman	NPL Oman	1					1														0%				20/02/2017	
Pakistan	RRL Pakistan	911	52	2	72	498	284	3	1	33			1							1	10%	100%	100%	100%	18/02/2017	
Palestine & UNRWA		6			3	1	1	1													75%	0%		100%	19/02/2017	
Qatar	NPL Oman	1				1															0%	100%		100%	20/02/2017	
Saudi Arabia	NPL Oman	36			4	18	12	2													12%	86%		100%	19/02/2017	
Somalia	NPL Kenya	41	2	2	2	18	9	8		3											17%	25%		100%	19/02/2017	
Sudan	RRL Egypt	59	2		5	39	13			1											9%	100%	100%	100%	19/02/2017	
Syria	RRL Egypt	12				3		9													0%	100%			18/02/2017	
Tunisia	RRL Tunisia	5				4	1														3%	100%		100%	19/02/2017	
U.A.E	NPL Oman	4	1			2	1														0%	100%		100%	20/02/2017	
Yemen	RRL Egypt	1						1																	19/02/2017	
Total EMR 2017		1693	75	5	132	941	509	31	3	48			1							2	10%	98%	100%	100%		
Total EMR 2016		15745	820	94	2763	11975	6	84	28	477			85	6	561	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	37
	PENDING								25
	WILD			2					
	VDPV1			1		1			
	VDPV2			7	3	2	3	1	
EGY Total		183	178	206	307	413	415	529	62
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	39
	PENDING								37
	WILD	79	136	88	63	125	79	59	10
	WILD & VDPV2				2	6	5	3	
	VDPV2					4	8	5	
PAK Total		156	204	239	322	372	439	529	86
EMR	NEGATIVE	260	246	347	570	725	888	1178	102
	PENDING								76
	WILD	79	136	90	63	142	99	61	11
	WILD & VDPV2				2	6	5	3	
	VDPV1			1		1			
VDPV2			7	3	6	11	6		
EMR Total		339	382	445	638	880	1003	1248	189

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	
				PUNJAB	PESHAWAR	10	11-01-16	10-12-16		
					DERA GHAZI KHAN	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	1	02-01-17	02-01-17		
					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	
				PAK Total					10	01-01-17
2017 Total					11	01-01-17	24-01-17			



Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2017 - 19/02/2017

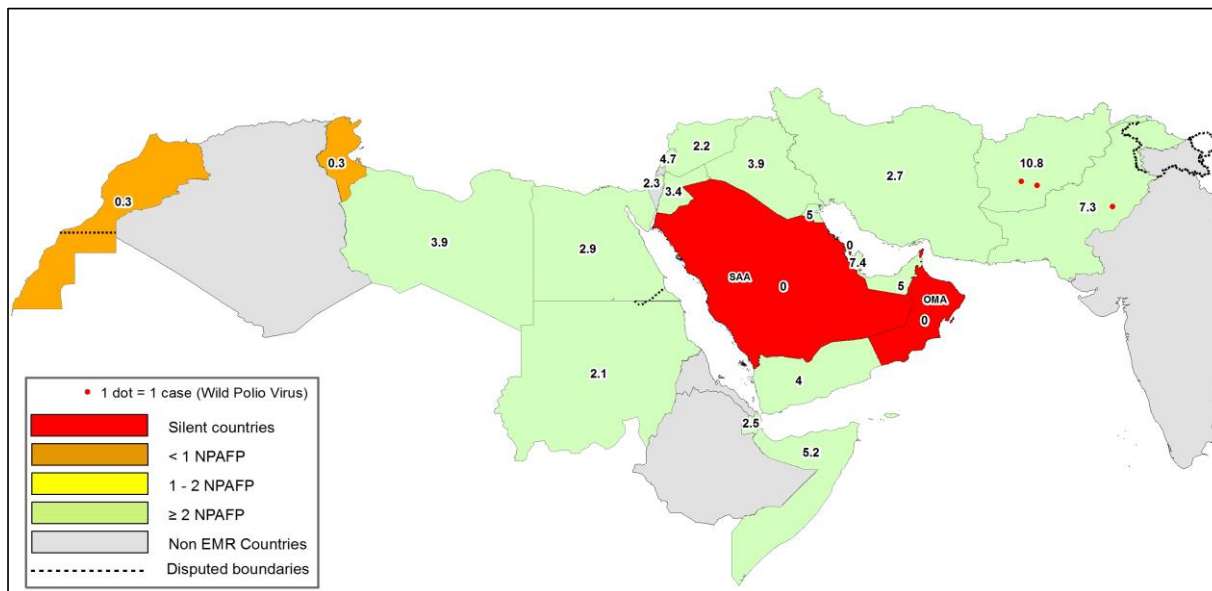


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2017 - 19/02/2017

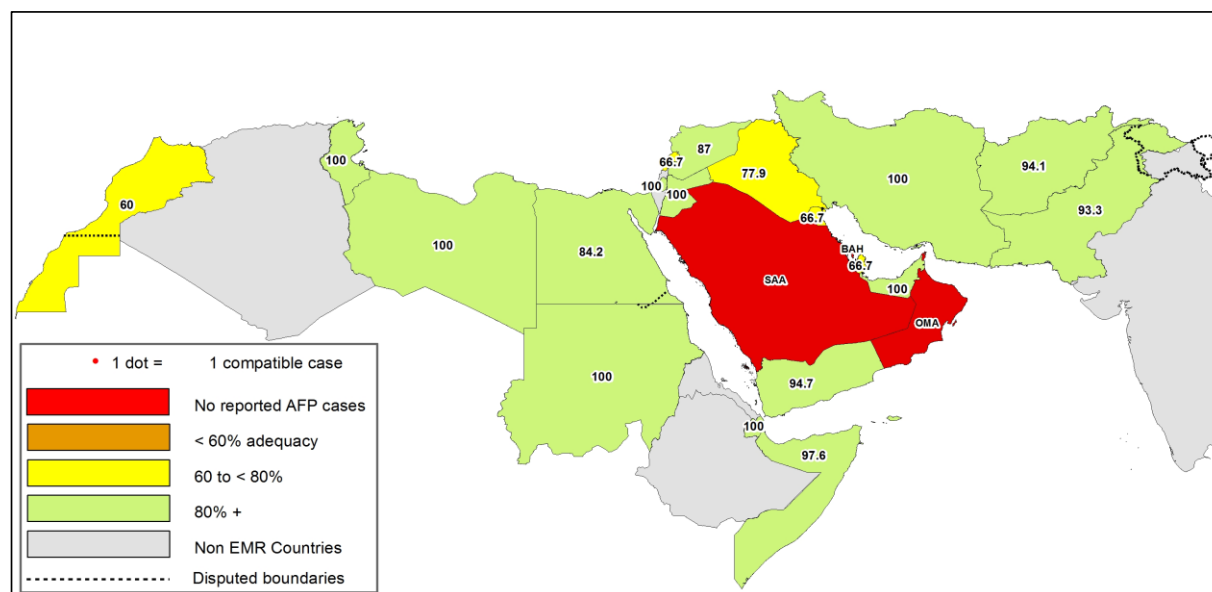


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2016 - 2017

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 - 19/02/2017

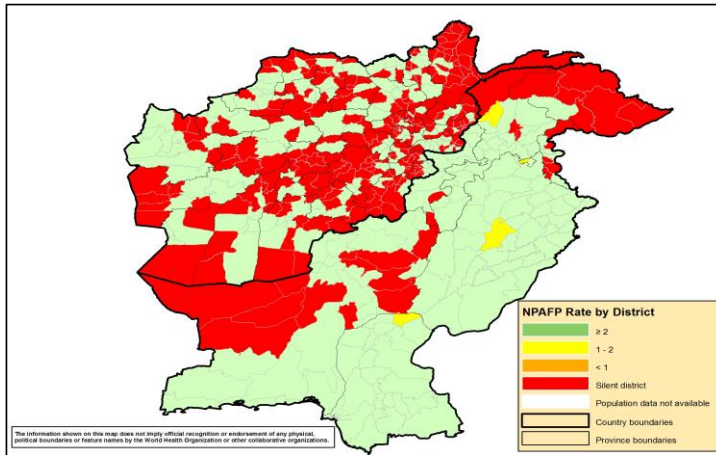


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2017 - 19/02/2017

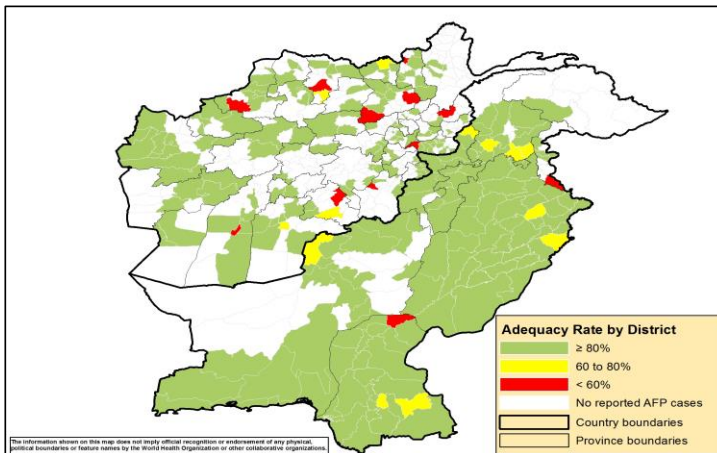
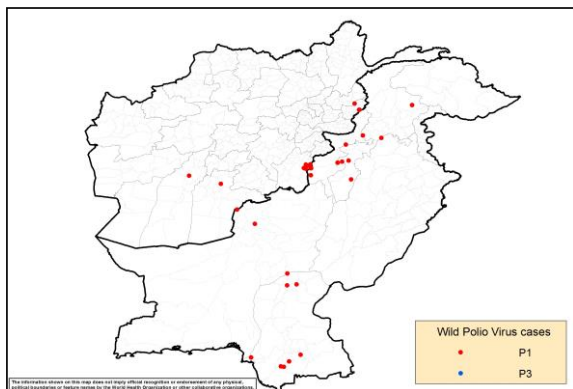


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5b: 01/01/2017 - 19/02/2017

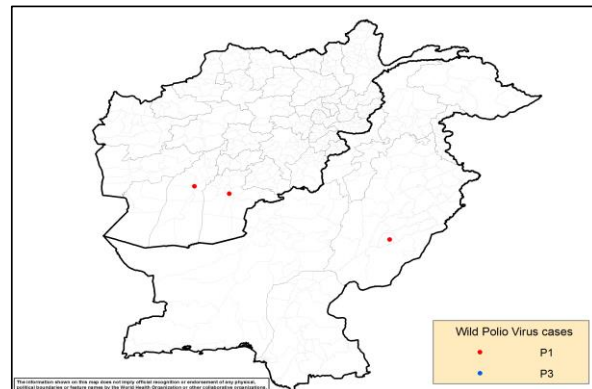




Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2016-2017

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	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

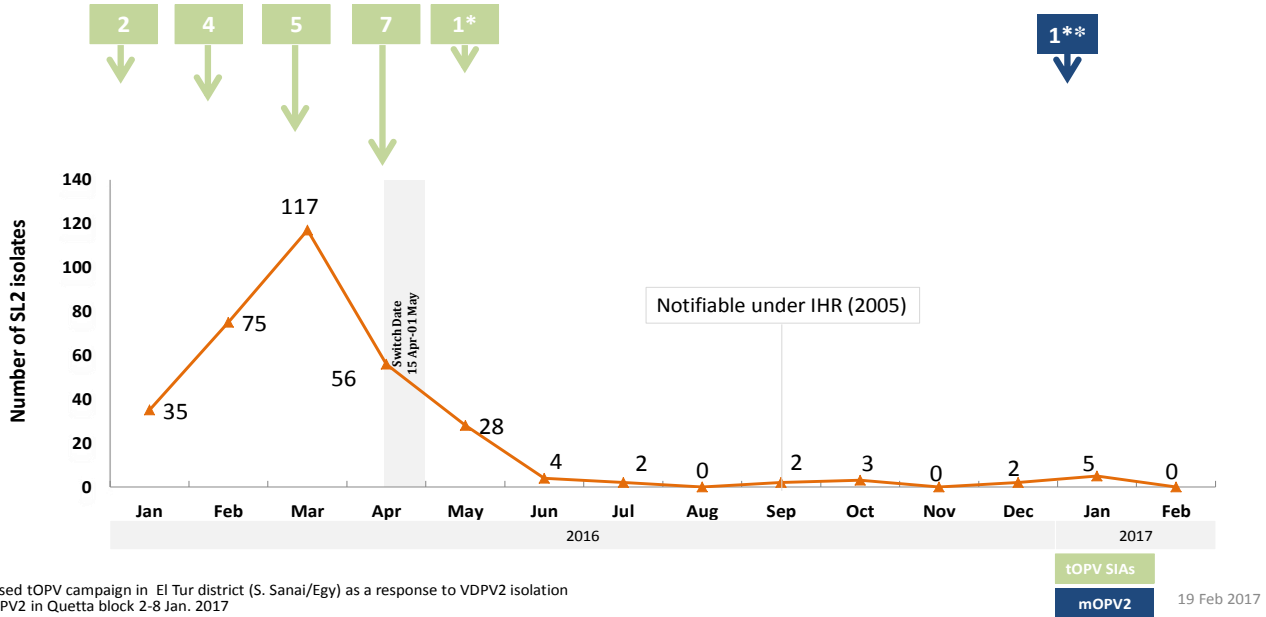
Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2016 - 2017

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			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																			
	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	
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																			
SVR	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		4

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



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

