



AFP SURVEILLANCE

6-Feb-17

Week 05, ending 05 February 2017

Number 957

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

Country	Reported AFP cases by week of onset - Week (05/17) / Ending on : 05/02/2017														
	Total AFP 2015	Total AFP 2016	Total AFP to date, 2017	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	W02 15 Jan 17	W03 22 Jan 17	W04 29 Jan 17	W05 05 Feb 17
Afghanistan	2738	2901	193	56	52	57	57	54	50	29	53	41	41	44	1
Bahrain	19	14	0	1	1	0	0	0	0	0	0	0	0	0	0
Djibouti	3	3	0												
Egypt	1046	1092	97	33	19	27	18	25	20	30	21	21	24	21	2
Iran	780	776	46	14	17	16	14	15	12	9	11	17	7	2	
Iraq	520	605	50	10	14	18	12	10	9	14	15	13	9	7	
Jordan ****	90	107	8	3	3	1	3	2	2	2	1	4	1	1	
Kuwait	32	50	5	3	1	5	3	2	1	2	0	0	3	2	0
Lebanon ****	113	111	7	5	1	0	1	0	4	2	0	5	1	1	
Libya	54	70	10	3	2	2	2	3	1	4	3	3	2	1	
Morocco	79	85	5	1	2	3	1	2	1	0	0	3	1	1	
Oman	39	39	0	0	0	0	2	0	2	0	0	0	0	0	
Pakistan	5814	7771	442	200	208	165	169	207	182	136	137	159	92	28	0
Palestine ****	38	46	3	0	0	0	0	0	0	1	1	2	0	0	0
Qatar	11	9	0	0	0	0	1	1	0	0	0	0	0	0	
Saudi Arabia	254	273	0	13	5	8	11	3	10	4	0	0	0	0	0
Somalia	281	316	25	4	13	8	5	4	7	1	6	9	8	2	0
Sudan	436	509	41	9	7	9	4	4	6	1	15	10	6	9	0
Syria ****	235	303	15	5	3	5	11	10	4	9	6	3	3	2	
Tunisia	64	90	0	3	1	1	1	2	0	0	0	0	0	0	
U.A.E	31	42	3	1	2	2	2	0	1	3	0	0	1	1	0
Yemen	537	715	58	10	11	18	7	7	13	12	17	20	13	8	
<b>Total EMR</b>	<b>13214</b>	<b>15927</b>	<b>1008</b>	<b>374</b>	<b>362</b>	<b>345</b>	<b>324</b>	<b>351</b>	<b>325</b>	<b>259</b>	<b>286</b>	<b>310</b>	<b>212</b>	<b>130</b>	<b>3</b>

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2015	Total year 2016	05/02		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	1	1	1	1	0	0	2	2	2		1	1	
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						
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			
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			
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			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	54	20	3	0	2	3	0	2	1	0	2	2	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	
Somalia	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			
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			
Yemen	0	0	0	0	0	0	0	0	0	0	0	0				
<b>Total EMR</b>	<b>74</b>	<b>33</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>0</b>

\*\*\*\* 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 (05/17) / Ending on : 05/02/2017

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	2901	13	0	47	2841	1	14.6	13	1	92.3	13	0	193	1	0	127	65	0	9.9	0	0	93.3	1	0	05/02/2017
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	05/02/2017
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	0	10/09/2016
Egypt	1092	0	0	74	1018	0	2.9	1	1	94.0	0	0	97	0	0	97	0	0	2.6	0	0	71.1	0	0	02/02/2017
Iran	776	0	0	3	773	0	4.2	1	0	95.5	0	0	46	0	0	9	37	0	2.5	0	0	100.0	0	0	04/02/2017
Iraq	605	0	0	35	569	1	4.2	16	1	80.7	0	0	50	0	0	25	25	0	3.5	0	0	84.0	0	0	04/02/2017
Jordan	107	0	0	24	83	0	3.8	6	0	100.0	0	0	8	0	0	8	0	0	2.9	0	0	87.5	0	0	29/01/2017
Kuwait	50	0	0	0	50	0	5.7	0	0	90.0	0	0	5	0	0	5	0	0	5.8	0	0	60.0	0	0	30/01/2017
Lebanon	111	0	0	11	100	0	5.8	10	0	82.9	0	0	7	0	0	7	0	0	3.8	0	0	85.7	0	0	04/02/2017
Libya	70	0	0	2	68	0	3.4	0	0	97.1	0	0	10	0	0	10	0	0	5.0	0	0	100.0	0	0	04/02/2017
Morocco	85	0	0	27	58	0	0.8	19	1	61.2	0	0	5	0	0	5	0	0	0.5	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	29/01/2017
Pakistan	7771	20	4	221	7524	2	9.9	74	10	87.9	20	0	442	0	0	204	238	0	5.8	0	0	95.5	0	0	05/02/2017
Palestine	46	0	0	2	44	0	2.4	1	0	97.8	0	0	3	0	0	3	0	0	1.6	0	0	100.0	0	0	05/02/2017
Qatar	9	0	0	3	6	0	3.0	1	0	100.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	29/01/2017
Saudi Arabia	273	0	0	63	210	0	2.8	3	3	97.8	0	0	0	0	0	0	0	0	0.0	0	0		0	0	05/02/2017
Somalia	316	0	0	11	304	1	5.5	0	0	99.1	0	0	25	0	0	15	10	0	4.4	0	0	96.0	0	0	05/02/2017
Sudan	509	0	0	0	509	0	2.8	0	0	97.6	0	0	41	0	0	17	24	0	2.3	0	0	100.0	0	0	05/02/2017
Syria	303	0	0	5	298	0	3.9	0	0	87.8	0	0	15	0	0	13	2	0	2.0	0	0	100.0	0	0	02/02/2017
Tunisia	90	0	0	0	89	1	3.4	0	0	76.7	0	0	0	0	0	0	0	0	0.0	0	0		0	0	03/02/2017
U.A.E	42	0	0	1	41	0	4.2	0	0	100.0	0	0	3	0	0	3	0	0	3.0	0	0	100.0	0	0	05/02/2017
Yemen	715	0	0	118	596	1	5.4	30	26	90.8	0	0	58	0	0	57	1	0	4.3	0	0	96.6	0	0	04/02/2017
EMR	15927	33	4	649	15235	7	6.4	177	43	90.0	33	0	1008	1	0	605	402	0	4.1	0	0	92.3	1	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



World Health Organization – Regional Office for Eastern Mediterranean  
AFP SURVEILLANCE  
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Table 4 (a): Most recent wild contacts in EMRO, 01/01/2016 - 05/02/2017

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

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
	<b>AFG Total</b>			<b>3</b>	<b>23-01-16</b>	<b>01-09-16</b>
	PAK	KHYBER PAKHTOON	KOHISTAN	1	03-09-16	03-09-16
		SINDH	BADIN	1	10-10-16	10-10-16
<b>PAK Total</b>			<b>2</b>	<b>03-09-16</b>	<b>10-10-16</b>	



**Table 5: Laboratory investigation of AFP cases with paralysis onset in 2017 up to Week (05/17) / Ending on : (05/02/2017)**

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	165	3		14	67	81		1	2											13%	100%	100%	100%	04/02/2017	
Bahrain	PNL Oman																								30/01/2017	
Djibouti	NPL Kenya																								10/09/2016	
Egypt***	RRL Egypt	24			1	16		7													6%	100%		100%	28/01/2017	
Iran	NPL Iran	51	1			35	15			1											0%	100%	100%	100%	04/02/2017	
Iraq	RRL Egypt	50			4	25	20	1													13%	100%			02/02/2017	
Jordan	RRL Tunisia	10			1	7	2														9%	100%			05/02/2017	
Kuwait	RRL Kuwait	3				1		2													0%	100%		100%	26/01/2017	
Lebanon	NPL Jordan	4				4															0%	100%			05/02/2017	
Libya	RRL Tunisia	7				4	3														0%	100%		100%	03/02/2017	
Morocco	RRL Tunisia	5					5																		03/02/2017	
Oman	NPL Oman																				0%				30/01/2017	
Pakistan	RRL Pakistan	582	12		36	256	275	3		9			1								10%	100%	100%	100%	04/02/2017	
Palestine & UNRWA		3			2	1															67%	0%		100%	29/01/2017	
Qatar	NPL Oman																								30/01/2017	
Saudi Arabia	NPL Oman	15				6	9														0%	100%		100%	30/01/2017	
Somalia	NPL Kenya	25			2	8	8	7													20%	30%		100%	05/02/2017	
Sudan	RRL Egypt	43	2		1	25	15														3%	100%			05/02/2017	
Syria	RRL Egypt	12				3	2	7													0%	100%			04/02/2017	
Tunisia	RRL Tunisia	4				2	2														3%	100%		100%	03/02/2017	
U.A.E	NPL Oman	1					1																		30/01/2017	
Yemen	RRL Egypt	1						1																	28/01/2017	
<b>Total EMR 2017</b>		1005	18		61	460	438	28	1	12			1								9%	98%	100%	100%		
<b>Total EMR 2016</b>		15735	815	93	2754	11901	24	145	28	472			85	6	555	1	3	21	3	5	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**

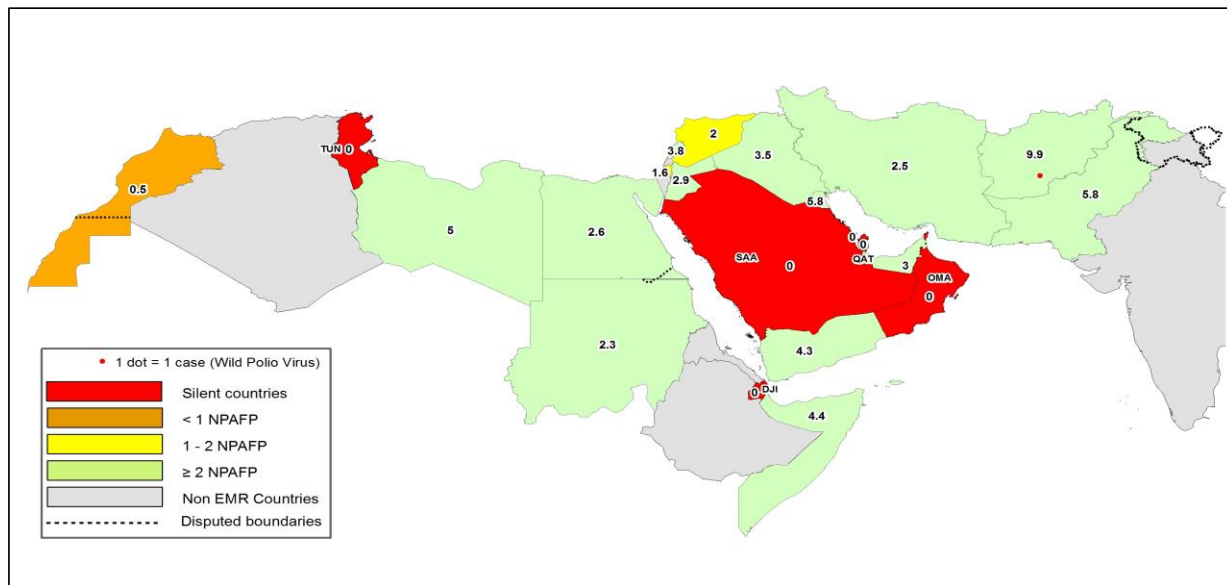
Country	Status	2010	2011	2012	2013	2014	2015	2016	2017
AFG	NEGATIVE				9	78	129	183	7
	PENDING								18
	WILD					17	20	2	
<b>AFG Total</b>					<b>9</b>	<b>95</b>	<b>149</b>	<b>185</b>	<b>25</b>
EGY	NEGATIVE	183	178	196	304	410	412	528	21
	PENDING								21
	WILD			2					
	VDPV1			1		1			
	VDPV2			7	3	2	3	1	
<b>EGY Total</b>		<b>183</b>	<b>178</b>	<b>206</b>	<b>307</b>	<b>413</b>	<b>415</b>	<b>529</b>	<b>42</b>
JOR	NEGATIVE							2	2
	PENDING								
<b>JOR Total</b>								<b>2</b>	<b>2</b>
LEB	NEGATIVE							3	3
	PENDING								
<b>LEB Total</b>								<b>3</b>	<b>3</b>
PAK	NEGATIVE	77	68	151	257	237	347	462	23
	PENDING								23
	WILD	79	136	88	63	125	79	59	9
	WILD & VDPV2				2	6	5	3	
	VDPV2					4	8	5	
<b>PAK Total</b>		<b>156</b>	<b>204</b>	<b>239</b>	<b>322</b>	<b>372</b>	<b>439</b>	<b>529</b>	<b>55</b>
EMR	NEGATIVE	260	246	347	570	725	888	1178	56
	PENDING								62
	WILD	79	136	90	63	142	99	61	9
	WILD & VDPV2				2	6	5	3	
	VDPV1			1		1			
	VDPV2			7	3	6	11	6	
<b>EMR Total</b>		<b>339</b>	<b>382</b>	<b>445</b>	<b>638</b>	<b>880</b>	<b>1003</b>	<b>1248</b>	<b>127</b>

**Table 7: Environmental Wild/VDPV isolate by site**

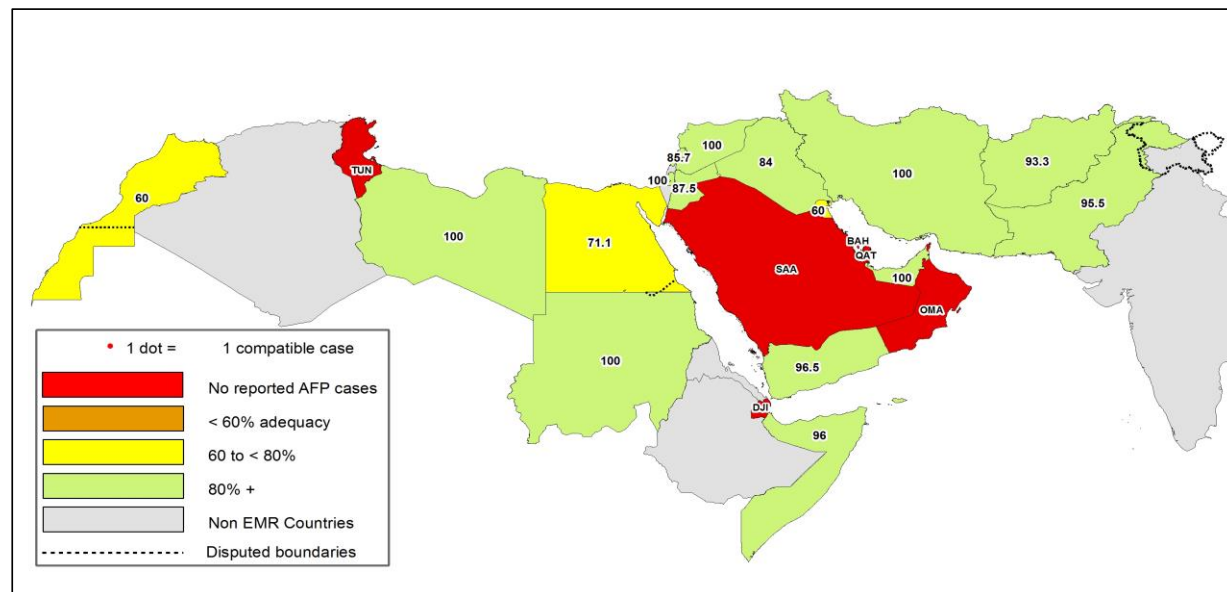
Year	Country	Status	Province	District	Count	First date	Last date	
2016	AFG	WILD1	HILMAND	NAHR-E-SARAJ	1	23-12-16	23-12-16	
			NANGARHAR	JALALABAD	1	26-12-16	26-12-16	
	<b>AFG Total</b>				<b>2</b>	<b>23-12-16</b>	<b>26-12-16</b>	
	PAK	WILD1	BALOCHISTAN	KABDULLAH	PISHIN	4	02-08-16	16-09-16
					QUETTA	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		
<b>PAK Total</b>				<b>67</b>	<b>05-01-16</b>	<b>28-12-16</b>		
<b>2016 Total</b>				<b>69</b>	<b>05-01-16</b>	<b>28-12-16</b>		
2017	PAK	WILD1	BALOCHISTAN	KABDULLAH	1	01-01-17	01-01-17	
				PISHIN	1	02-01-17	02-01-17	
				QUETTA	2	01-01-17	12-01-17	
			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	JACOBABAD	1	09-01-17	09-01-17				
	KHIGADAP	1	09-01-17	09-01-17				
<b>PAK Total</b>				<b>9</b>	<b>01-01-17</b>	<b>12-01-17</b>		
<b>2017 Total</b>				<b>9</b>	<b>01-01-17</b>	<b>12-01-17</b>		



**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2017 - 05/02/2017**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2017 - 05/02/2017**



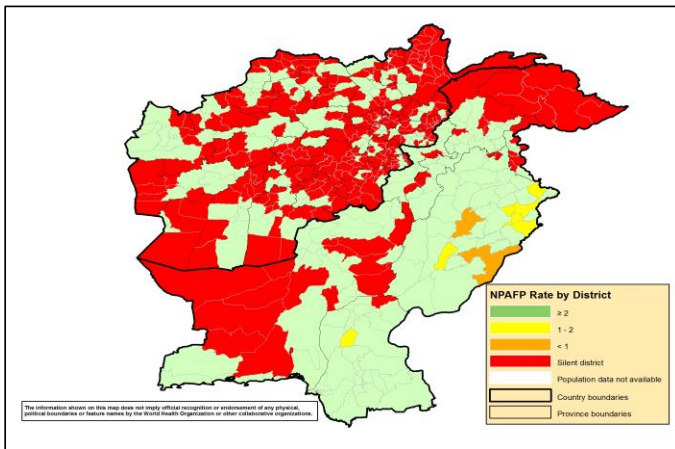
**Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2016 - 2017**

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	1	13-01-17	13-01-17
2017 Total		1	13-01-17	13-01-17

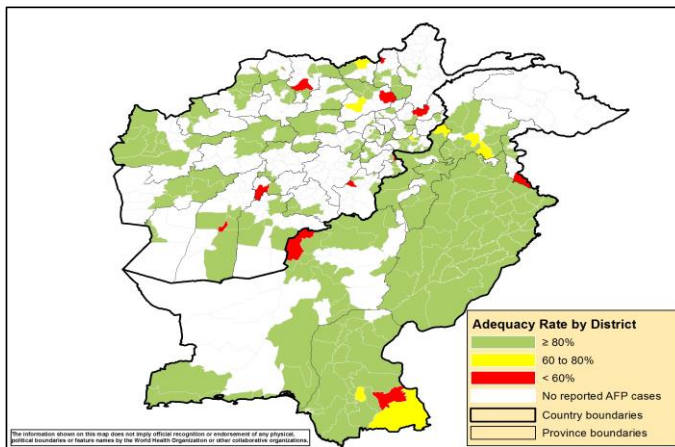
Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012



**Figure 3: Non Polio AFP rate by District in Afghanistan & Pakistan 01/01/2017 - 05/02/2017**

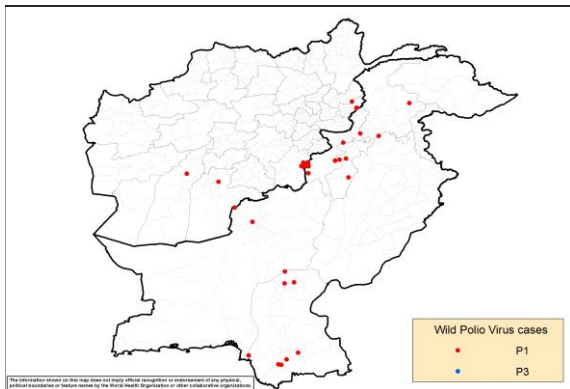


**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2017 - 05/02/2017**

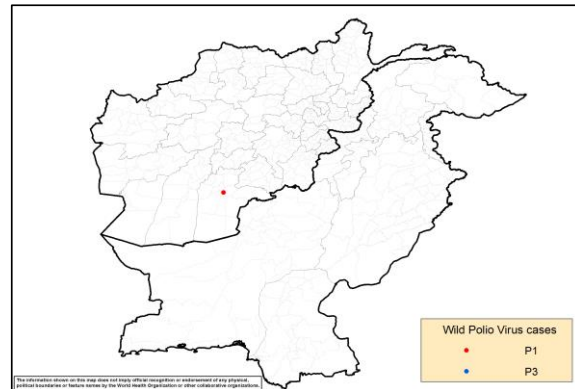


**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan**

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



**5b: 01/01/2017 - 05/02/2017**





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

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
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
2017	KANDAHAR	KANDAHAR	1	13-01-17	13-01-17
2017 Total			1	13-01-17	13-01-17

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

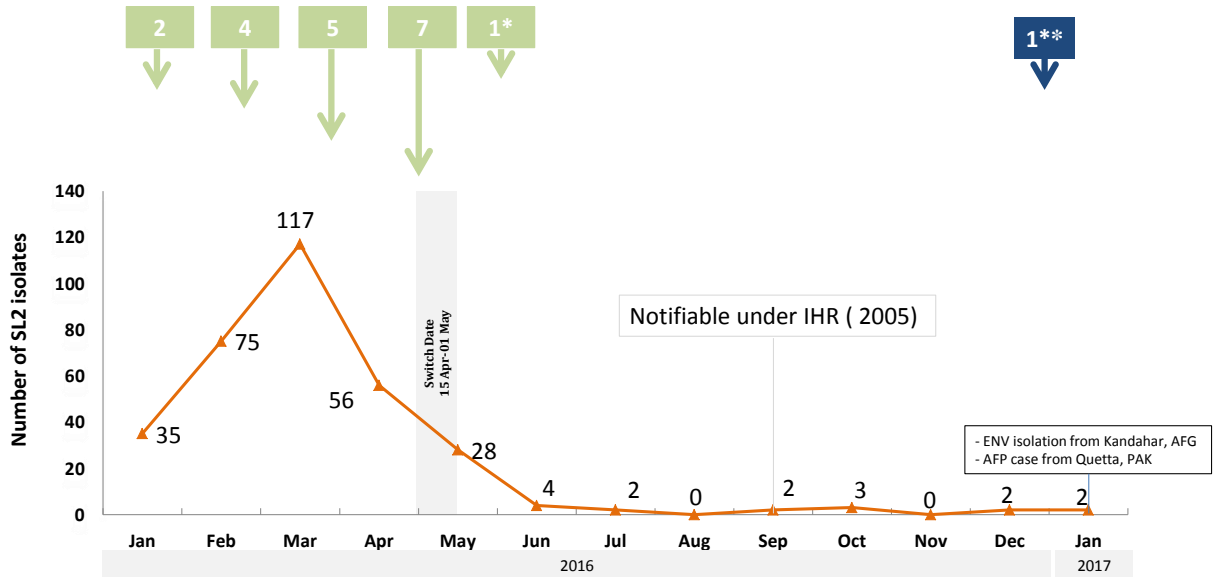
ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2016	BALOCHISTAN	KABDULAH	1	22-12-16	22-12-16
		QUETTA	1	01-02-16	01-02-16
	SINDH	SUJAWAL	2	03-09-16	03-11-16
		BADIN	2	10-10-16	16-10-16
		SHIKARPUR	2	05-03-16	12-04-16
		JACOBABAD	1	10-02-16	10-02-16
		KHIGADAP	1	17-01-16	17-01-16
		KHYBER PAKHTOON	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
	NOWSHERA		1	22-01-16	22-01-16
	FATA	WAZIR-S	2	18-06-16	27-07-16
2016 Total			20	17-01-16	22-12-16







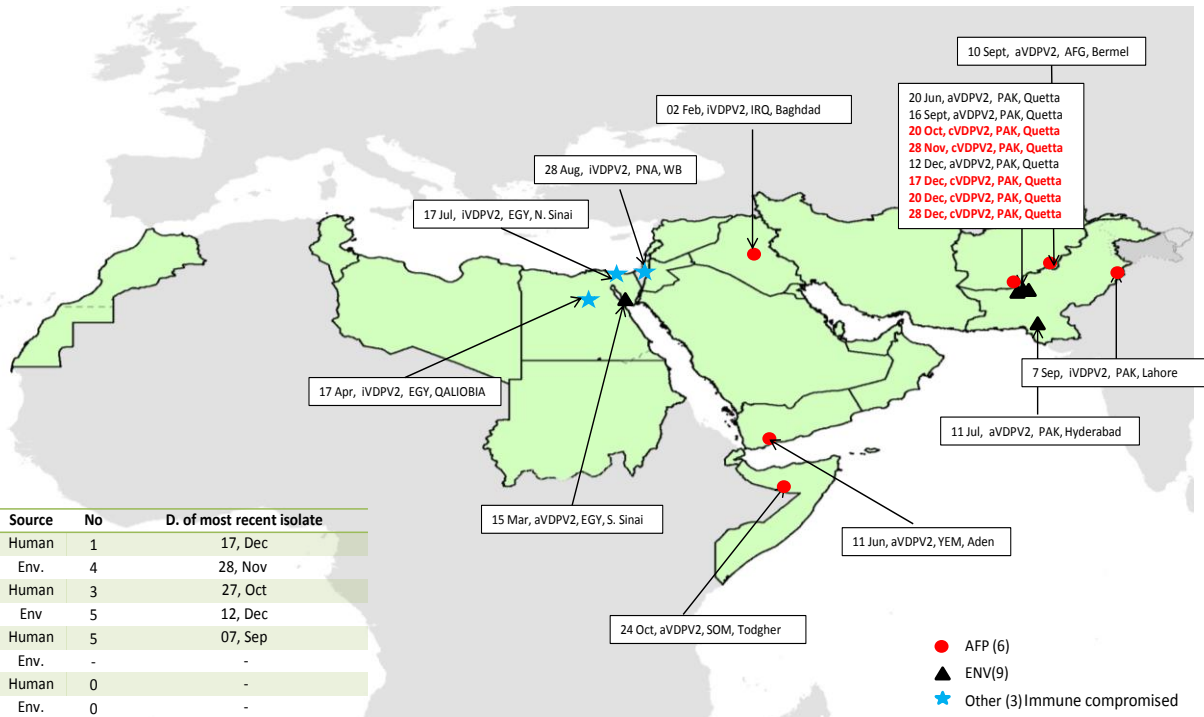
### SL2 isolates, EMR countries from Human & ENV 2016/17



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

tOPV SIA  
 mOPV2

### VDPV2 isolates, EMR countries, 2016



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

● AFP (6)  
 ▲ ENV(9)  
 ★ Other (3) Immune compromised

\* Pending sequencing

05 Feb 2017