



AFP SURVEILLANCE

13-Mar-17

Week 10, ending 12 March 2017

Number 962

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

Country	Reported AFP cases by week of onset - Week (10/17) / Ending on : 12/03/2017														
	Total AFP 2015	Total AFP 2016	Total AFP to date, 2017	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	W09 05 Mar 17	W10 12 Mar 17
Afghanistan	2738	2904	511	52	29	53	43	46	65	50	67	67	53	49	5
Bahrain	19	14	5	0	0	0	0	0	0	0	2	0	1	2	0
Djibouti	3	3	3	0	0	0	0	0	1	0	0	1	0	1	0
Egypt	1046	1092	214	20	30	21	21	24	23	27	22	36	23	9	
Iran	780	776	117	12	9	11	18	9	11	16	20	14	8	1	
Iraq	520	605	113	9	14	15	14	17	12	9	14	13	8	5	
Jordan ****	90	107	18	2	2	1	4	2	2	1	2	1	3	1	
Kuwait	32	50	7	1	2	0	0	3	2	1	0	1	0	0	
Lebanon ****	113	111	23	4	2	0	5	1	4	0	3	4	4	1	1
Libya	54	70	17	1	4	3	3	1	2	0	2	3	1	1	
Morocco	79	84	17	1	0	0	3	1	2	2	3	1	1	3	1
Oman	39	39	4	2	0	0	0	0	0	0	1	2	0	1	
Pakistan	5814	7831	1302	195	149	159	199	172	139	165	156	164	96	23	0
Palestine ****	38	46	8	0	1	1	3	0	1	0	1	2	0	0	
Qatar	11	9	4	0	0	0	0	0	0	1	2	0	1	0	0
Saudi Arabia	254	273	47	10	4	5	7	7	5	10	6	3	3	1	0
Somalia	281	316	67	7	1	6	9	10	6	2	8	9	11	6	0
Sudan	436	509	82	6	1	16	10	7	14	9	7	9	8	1	0
Syria ****	235	303	45	4	9	6	4	3	5	5	8	3	9	1	
Tunisia	64	90	7	0	0	1	1	0	1	0	1	3	0	0	
U.A.E	31	42	10	1	3	0	0	1	2	2	1	0	3	0	0
Yemen	537	715	134	13	12	17	21	14	13	8	16	10	14	20	1
<b>Total EMR</b>	<b>13214</b>	<b>15989</b>	<b>2755</b>	<b>340</b>	<b>272</b>	<b>315</b>	<b>365</b>	<b>318</b>	<b>310</b>	<b>308</b>	<b>342</b>	<b>346</b>	<b>247</b>	<b>126</b>	<b>8</b>

☐ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2015	Total year 2016	12/03		Confirmed polio cases by month of onset											
			2016	2017	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016	November 2016	December 2016	January 2017	February 2017	March 2017
Afghanistan	20	13	3	2	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		
Djibouti	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				
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			
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	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	54	20	7	2	3	0	2	1	0	2	2	1	1	1	1	
Palestine ****	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				
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			
Yemen	0	0	0	0	0	0	0	0	0	0	0	0				
<b>Total EMR</b>	<b>74</b>	<b>33</b>	<b>10</b>	<b>4</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>3</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 &amp; 2017 up to Week (10/17) / Ending on : 12/03/2017)

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	19	2871	1	14.4	11	0	92.3	13	0	511	2	0	264	245	0	12.7	0	0	94.3	2	0	12/03/2017
Bahrain	14	0	0	0	14	0	4.9	0	0	100.0	0	0	5	0	0	5	0	0	8.9	0	0	80.0	0	0	12/03/2017
Djibouti	3	0	0	0	3	0	1.0	0	0	33.3	0	0	3	0	0	3	0	0	5.2	0	0	100.0	0	0	12/03/2017
Egypt	1092	0	0	2	1090	0	2.9	2	1	94.1	0	0	214	0	0	84	130	0	2.9	0	0	94.4	0	0	11/03/2017
Iran	776	0	0	0	775	1	4.2	0	0	95.5	0	0	117	0	0	7	110	0	3.2	0	0	100.0	0	0	11/03/2017
Iraq	605	0	0	7	597	1	4.2	6	1	80.7	0	0	113	0	0	40	73	0	3.9	0	0	84.1	0	0	11/03/2017
Jordan	107	0	0	23	84	0	3.8	18	0	100.0	0	0	18	0	0	18	0	0	3.3	0	0	100.0	0	0	05/03/2017
Kuwait	50	0	0	0	50	0	5.7	0	0	90.0	0	0	7	0	0	1	6	0	4.1	0	0	85.7	0	0	12/03/2017
Lebanon	111	0	0	10	101	0	5.8	10	0	82.9	0	0	23	0	0	14	9	0	6.3	0	0	87.0	0	0	11/03/2017
Libya	70	0	0	0	70	0	3.4	0	0	97.1	0	0	17	0	0	7	10	0	4.0	0	0	100.0	0	0	11/03/2017
Morocco	84	0	0	5	79	0	0.8	4	0	60.7	0	0	17	0	0	13	4	0	0.8	0	0	76.5	0	0	10/03/2017
Oman	39	0	0	0	39	0	4.5	0	0	87.2	0	0	4	0	0	1	3	0	2.4	0	0	75.0	0	0	12/03/2017
Pakistan	7831	20	5	101	7703	2	10.0	64	10	87.5	20	0	1302	2	0	292	1008	0	8.6	0	0	92.2	2	0	12/03/2017
Palestine	46	0	0	1	45	0	2.4	0	0	97.8	0	0	8	0	0	8	0	0	2.2	0	0	100.0	0	0	05/03/2017
Qatar	9	0	0	0	9	0	3.0	0	0	100.0	0	0	4	0	0	4	0	0	6.9	0	0	100.0	0	0	12/03/2017
Saudi Arabia	273	0	0	27	246	0	2.8	10	9	97.8	0	0	47	0	0	47	0	0	2.5	0	0	97.9	0	0	12/03/2017
Somalia	316	0	0	0	315	1	5.5	0	0	99.1	0	0	67	0	0	17	50	0	6.0	0	0	97.0	0	0	12/03/2017
Sudan	509	0	0	0	509	0	2.8	0	0	97.6	0	0	82	0	0	11	71	0	2.3	0	0	98.8	0	0	12/03/2017
Syria	303	0	0	0	303	0	3.9	0	0	87.8	0	0	45	0	0	18	27	0	3.0	0	0	86.7	0	0	11/03/2017
Tunisia	90	0	0	0	89	1	3.4	0	0	76.7	0	0	7	0	0	3	4	0	1.4	0	0	85.7	0	0	10/03/2017
U.A.E	42	0	0	0	42	0	4.2	0	0	100.0	0	0	10	0	0	6	4	0	5.1	0	0	90.0	0	0	12/03/2017
Yemen	715	0	0	7	707	1	5.4	2	0	90.9	0	0	134	0	0	132	2	0	5.0	0	0	92.5	0	0	11/03/2017
EMR	15989	33	5	202	15741	8	6.4	127	21	89.8	33	0	2755	4	0	995	1756	0	5.6	0	0	93.0	4	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 &lt;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 - 12/03/2017

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 (10/17) / Ending on : (12/03/2017)**

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	467	29	1	40	203	192	2	2	26											13%	100%	100%	100%	11/03/2017	
Bahrain	PNL Oman																								06/03/2017	
Djibouti	NPL Kenya	3					1	2																	12/03/2017	
Egypt***	RRL Egypt	202	5		19	117	22	39		1			1		1			1		1	11%	100%	100%	100%	12/03/2017	
Iran	NPL Iran	120	3			104	13			2					2						0%	100%	100%	100%	11/03/2017	
Iraq	RRL Egypt	114	7		11	75	17	4		3					2						10%	100%	100%	100%	09/03/2017	
Jordan	RRL Tunisia	20			2	17	1														12%	100%			12/03/2017	
Kuwait	RRL Kuwait	7				6		1													0%	83%		100%	16/02/2017	
Lebanon	NPL Jordan	17			3	14															18%	100%			12/03/2017	
Libya	RRL Tunisia	11				9		2													0%	100%		100%	24/02/2017	
Morocco	RRL Tunisia	14				10	4														0%	100%		100%	10/03/2017	
Oman	NPL Oman	3			2	1															27%	100%		100%	06/03/2017	
Pakistan	RRL Pakistan	1493	83	3	144	931	328	5	2	51			1		58			1		3	11%	100%	100%	99%	11/03/2017	
Palestine & UNRWA		8			4	2		2													67%	0%		100%	05/03/2017	
Qatar	NPL Oman	3				3															0%	100%		100%	06/03/2017	
Saudi Arabia	NPL Oman	50			7	28	4	11													14%	91%		100%	12/03/2017	
Somalia	NPL Kenya	67	4	2	6	38	14	3		4					4					1	16%	28%		100%	12/03/2017	
Sudan	RRL Egypt	83	2		9	62	10			1											12%	100%	100%	100%	12/03/2017	
Syria	RRL Egypt	42				29	12	1													0%	100%			09/03/2017	
Tunisia	RRL Tunisia	8				4		4													3%	100%		100%	24/02/2017	
U.A.E	NPL Oman	4	1			3				1					1						0%	100%	100%	100%	06/03/2017	
Yemen	RRL Egypt	88				1	87														39%	100%		100%	12/03/2017	
<b>Total EMR 2017</b>		2824	134	6	247	1657	705	76	4	89			1	1	92			2		5	11%	98%	100%	99%		
<b>Total EMR 2016</b>		15755	823	94	2775	12035	8	17	28	479			85	7	564	1		2	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**

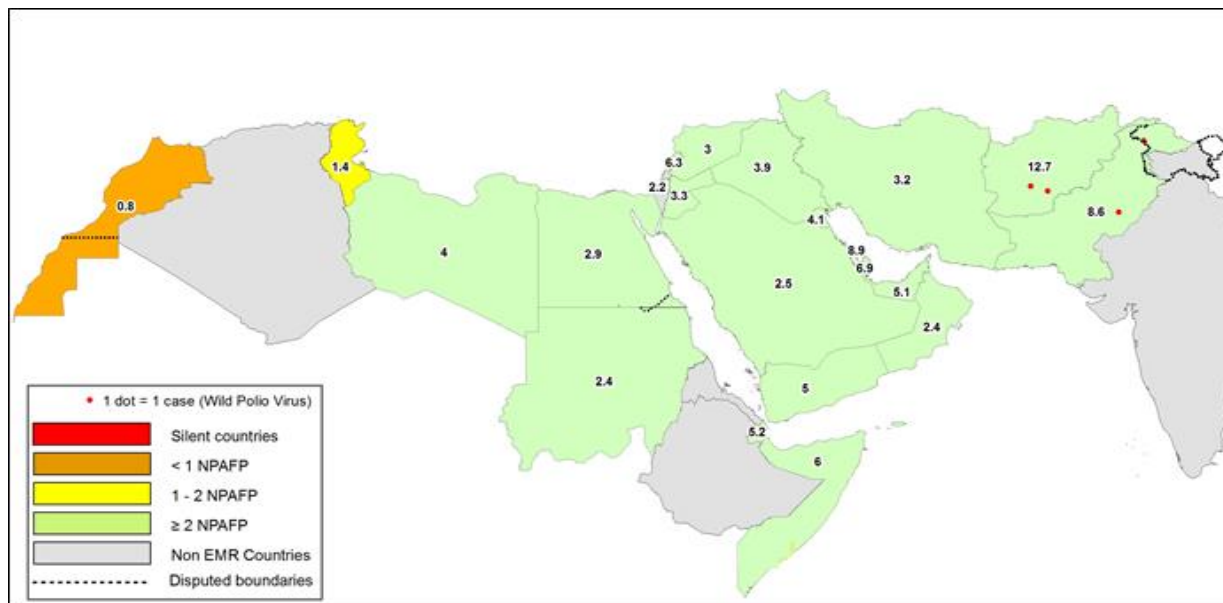
Country	Status	2010	2011	2012	2013	2014	2015	2016	2017
AFG	NEGATIVE				9	78	129	183	29
	PENDING								19
	WILD					17	20	2	1
<b>AFG Total</b>					<b>9</b>	<b>95</b>	<b>149</b>	<b>185</b>	<b>49</b>
EGY	NEGATIVE	183	178	196	304	410	412	528	71
	PENDING								21
	WILD			2					
	VDPV1			1		1			
	VDPV2			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>
JOR	NEGATIVE							2	6
	PENDING								2
<b>JOR Total</b>								<b>2</b>	<b>8</b>
LEB	NEGATIVE							3	4
	PENDING								
<b>LEB Total</b>								<b>3</b>	<b>4</b>
PAK	NEGATIVE	77	68	151	257	237	347	462	74
	PENDING								31
	WILD	79	136	88	63	125	79	59	19
	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>124</b>
EMR	NEGATIVE	260	246	347	570	725	888	1178	184
	PENDING								73
	WILD	79	136	90	63	142	99	61	20
	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>277</b>

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

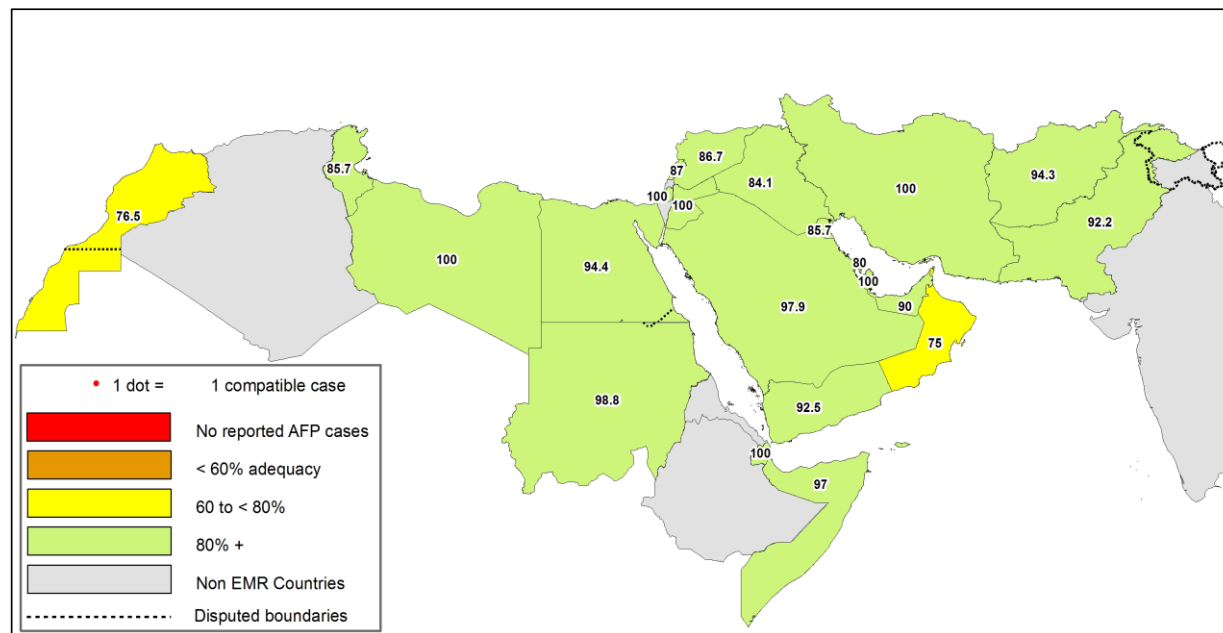
Year	Country	Status	Province	District	Count	First date	Last date
2016	AFG	WILD1	HILMAND	NAHR-E-SARAJ	1	23-Dec	23-Dec
			NANGARHAR	JALALABAD	1	26-Dec	26-Dec
<b>AFG Total</b>					<b>2</b>	<b>23-Dec</b>	<b>26-Dec</b>
2016	EGY	VDPV2	SOUTH SINIA	EL TUR	1	15-Mar	15-Mar
<b>EGY Total</b>					<b>1</b>	<b>15-Mar</b>	<b>15-Mar</b>
2016	PAK	WILD1	BALOCHISTAN	KABDULLAH	6	15-Jan	2-Dec
				PISHIN	4	2-Aug	16-Sep
				QUETTA	11	12-Feb	20-Nov
				DIKHAN	1	16-Jul	16-Jul
			KHYBER PAKHTUNKHWA	PESHAWAR	10	11-Jan	10-Dec
				DERA GHAZI KHA	1	12-May	12-May
			PUNJAB	FAISALABAD	2	3-Feb	2-Jul
				LAHORE	3	5-Aug	18-Oct
				MULTAN	2	8-Nov	8-Dec
				RAWALPINDI	4	14-Apr	10-Dec
			SINDH	HYDERABAD	1	5-Jan	5-Jan
				JACOBABAD	3	4-Feb	16-Aug
				KHIBALDIA	1	14-Jul	14-Jul
				KHIGADAP	4	27-Jan	9-Mar
				KHIGIQBAL	2	18-Jan	15-Mar
				KHILANDHI	1	14-Dec	14-Dec
WILD1+VDPV2	BALOCHISTAN	3	12-Jan	19-Mar			
	QUETTA	3	20-Oct	12-Dec			
	HYDERABAD	1	11-Jul	11-Jul			
<b>PAK Total</b>					<b>67</b>	<b>5-Jan</b>	<b>28-Dec</b>
<b>2016 Total</b>					<b>70</b>	<b>5-Jan</b>	<b>28-Dec</b>
2017	AFG	WILD1	NANGARHAR	JALALABAD	1	24-Jan	24-Jan
			<b>AFG Total</b>				<b>1</b>
2017	PAK	WILD1	BALOCHISTAN	KABDULLAH	4	1-Jan	15-Feb
				PISHIN	2	2-Jan	2-Feb
				QUETTA	4	1-Jan	12-Feb
			ISLAMABAD	1	10-Feb	10-Feb	
			KHYBER PAKHTUNKHWA	PESHAWAR	2	10-Jan	10-Feb
				MULTAN	1	9-Jan	9-Jan
			PUNJAB	RAWALPINDI	2	10-Jan	10-Feb
				KHIGADAP	2	9-Jan	8-Feb
			SINDH	KHIGIQBAL	1	3-Feb	3-Feb
				<b>PAK Total</b>			
<b>2017 Total</b>					<b>20</b>	<b>1-Jan</b>	<b>15-Feb</b>



**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2017 - 12/03/2017**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2017 - 12/03/2017**



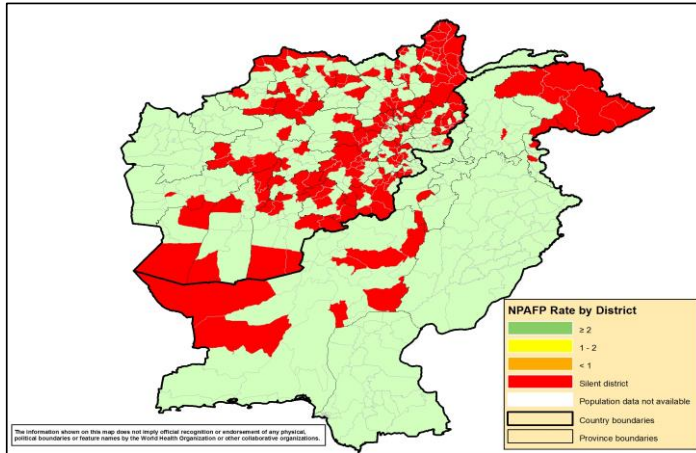
**Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2016 - 2017**

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	2	28-01-17	13-02-17
2017 Total		4	13-01-17	13-02-17

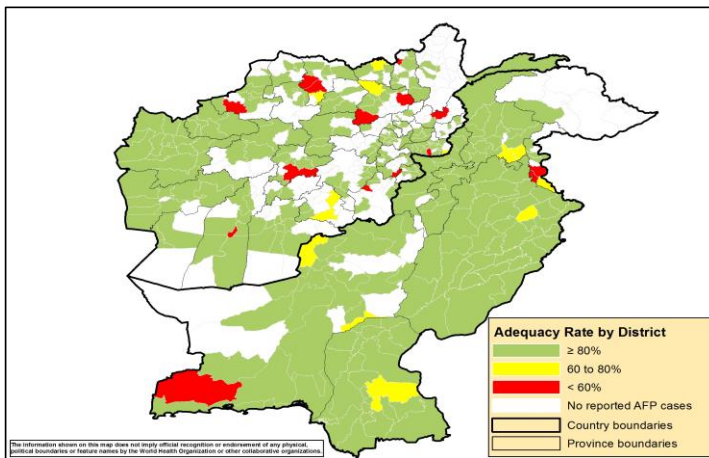
Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012



**Figure 3: Non Polio AFP rate by District in Afghanistan & Pakistan 01/01/2017 - 12/03/2017**

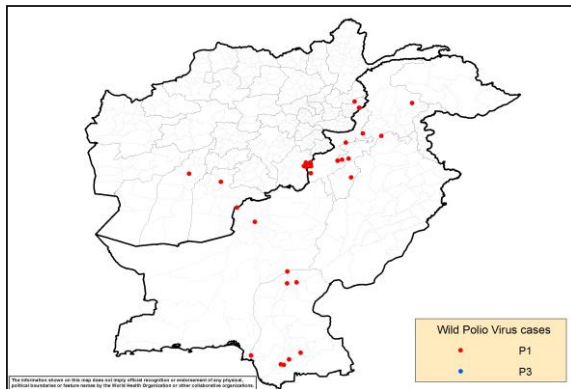


**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2017 - 12/03/2017**

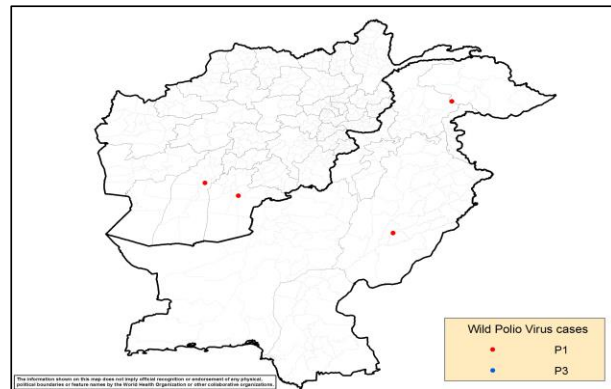


**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan**

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



**5b: 01/01/2017 - 12/03/2017**



**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	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

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

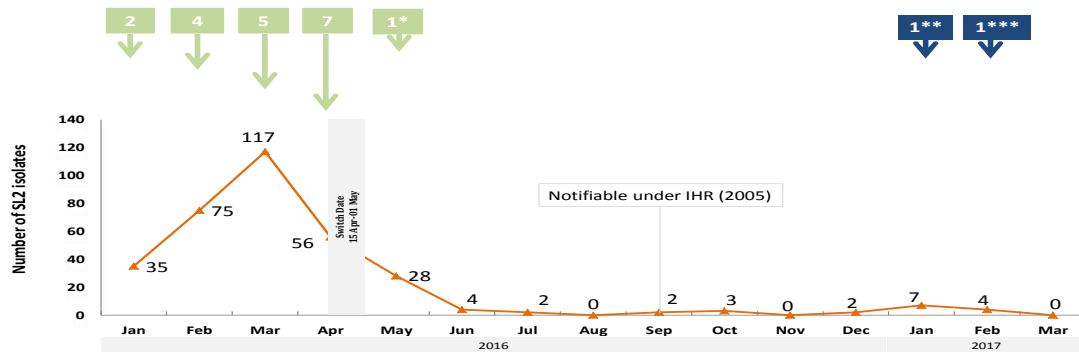
ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2016	BALOCHISTAN	KABDULAH	1	22-12-16	22-12-16
		QUETTA	1	01-02-16	01-02-16
	SINDH	SUJAWAL	2	03-09-16	03-11-16
		BADIN	2	10-10-16	16-10-16
		SHIKARPUR	2	05-03-16	12-04-16
		JACOBABAD	1	10-02-16	10-02-16
		KHIGADAP	1	17-01-16	17-01-16
		KHYBER PAKHTOON	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
2017	GILGIT BALTISTAN	DIAMIR	1	13-02-17	13-02-17
	PUNJAB	LODHRAN	1	28-01-17	28-01-17
2017 Total			2	28-01-17	13-02-17







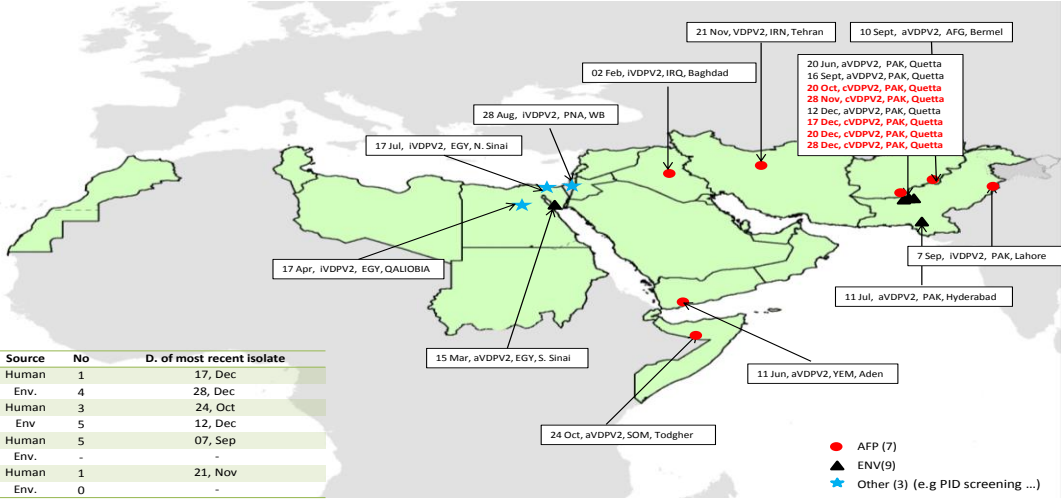
**SL2 isolates, EMR countries from Human & ENV 2016/17**



\* Focused tOPV campaign in El Tur district (S. Sinai/Egypt) as a response to VDPV2 isolation  
 \*\* mOPV2 in Quetta block 2-8 Jan. 2017  
 \*\*\* mOPV2 in Quetta block 6-8 February 2017

tOPV SIAAs  
 mOPV2  
 09 Mar 2017

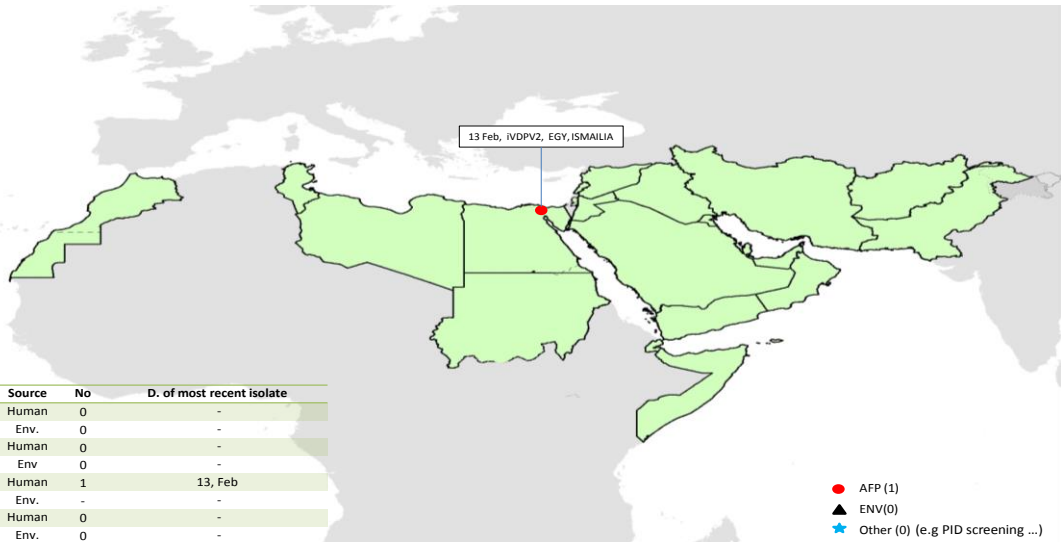
**VDPV2 isolates, EMR countries, 2016**



\* Under investigation

12 Mar 2017

**VDPV2 isolates, EMR countries, 2017**



\* Under investigation

12 Mar 2017