

## **Highlights of Polio Fax Bulletin No. 1040 for Week 36 2018**

### **I. Poliovirus Transmission**

1. Endemic countries (PAKISTAN & AFGHANISTAN):
  - a. Human samples: Two new wild poliovirus type-1 (WPV1) cases reported this week, one each from Afghanistan and Pakistan.
    - i. Afghanistan: the new case is reported from a newly infected district Shahid-E-Hassas in Uruzgan province, and has date of onset of paralysis on 8<sup>th</sup> July 2018. The case has been identified by detection of WPV1 in contacts. The 11-month old male child has not received any doses of oral polio vaccine (OPV) due to chronic refusal of the family. The case lives in security compromised area. This brings total number of polio cases in Afghanistan in 2018 so far to 13 from ten districts in five provinces (Hilmand-1 case, Kandhar-6 cases, Kunar- 3 cases, Nangarhar-2 cases and Uruzgan-1 case). The most recent reported case has date of onset of paralysis on 17 July 2018.
    - ii. Pakistan: the new case is reported from a newly infected district Charsada in Khyber Pakhtunkhwa province. Date of onset of paralysis of the new case is 1 August. The new case is 19-month old male child and has received more than 7 doses of OPV per recall of parents. This brings number of cases in Pakistan in 2018 so far to 4 from two infected district in two provinces (Balochistan-3 cases and Khyber Pakhtoon-1 case). Date of onset of paralysis of the most recent case is 1 August 2018.
  - b. Environmental samples: One new positive environmental sample for WPV1 reported this week from Pakistan.
    - i. Afghanistan: No new positive environmental samples reported this week. The total positive environmental samples from Afghanistan in 2018 so far are 34 to date with most recent positive sample collected on 5 August 2018.
    - ii. Pakistan: One new positive environmental sample reported. The positive sample is from Peshawar district in Khyber Pakhtunkhwa. The total positive environmental samples from Pakistan in 2018 so far are 61 with most recent positive samples collected on 27 August 2018.

### **II. Outbreak response countries**

1. SOMALIA:
  - The total number of officially reported cVDPV cases remains 5 (two cVDPV3 from Warshiek district, two cVDPV2 one each from Dolo and Daynile districts, and one co-infected with both cVDPV2 and cVDPV3 from Bulu Burti district).

- cVDPV2 isolated from 10 sewage samples in Mogadishu and date of specimen collection of recent most positive sample is 17 May 2018. Date of onset of the recent most case is 10 July.
- cVDPV3 isolated from 7 sewage samples in Mogadishu. Date of specimen collection of recent most positive sample is 19 April. Date of onset of the recent most case is 23 May 2018. cVDPV3 has also been isolated from 3 contacts of an AFP case in Bulo Burti district and 2 healthy children in Lower Juba district.

NB: An advance notification of 2 new cVDPV2 from Lower Juba province, Kismayo district. Cases are residing in an informal IDP camp located two kilometers from center of Kismayo. These cases will be reflected in the next weekly report.

## 2. SYRIA:

- Total cases of cVDPV2 in 2017 remain 74. Date of onset of the recent most case is 21 September 2017. No isolation of cVDPV2 from environmental samples. More than 11 months have elapsed without any new case.

## III. **Other countries:**

### 1. IRAN

- A discordant poliovirus type-1 has been found in an environmental sample from Zahdian in 'Sistan - Baluchestan' province which shares borders with Pakistan and Afghanistan. Final results are awaited.
- A provisional VDPV type 1 is reported from Iran. It is detected from specimen of a 17-month old child having date of onset on 7 April 2018. Final classification is pending additional investigation results.

## IV. **Surveillance performance indicators**

1. Twenty of 22 member states are meeting the global target of the two key surveillance indicators, namely non polio AFP rate of 2 per 100,000 children aged below 15 years and percent AFP cases with adequate specimen 80% and above.
  - Djibouti and Morocco are missing both indicators. Djibouti, did not report any AFP case since April 2017 and Morocco has a non-polio AFP rate of 1.7 and percentage of AFP cases with adequate stool specimens of 78.0%.
2. Yemen has the highest number of 2017 AFP cases (95), which are not yet finally classified. Also Somalia has one pending case from 2017.



## World Health Organization – Regional Office for Eastern Mediterranean

## AFP SURVEILLANCE

10-Sep-18

Week 36, ending 09 September 2018

Number 1040

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

Country	Reported AFP cases by week of onset - Week (36/18) / Ending on : 09/09/2018														
	Total AFP 2016	Total AFP 2017	Total AFP to date, 2018	W25 24 Jun 18	W26 01 Jul 18	W27 08 Jul 18	W28 15 Jul 18	W29 22 Jul 18	W30 29 Jul 18	W31 05 Aug 18	W32 12 Aug 18	W33 19 Aug 18	W34 26 Aug 18	W35 02 Sep 18	W36 09 Sep 18
Afghanistan	2905	3094	2240	57	56	77	71	74	61	69	49	32	43	43	3
Bahrain	14	18	22	0	0	0	0	0	0	0	1	1	0	1	0
Djibouti	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	1092	1242	864	31	20	21	18	22	18	21	22	11	21	21	3
Iran	776	820	552	5	16	9	15	12	20	17	16	4	0		
Iraq	605	699	635	11	16	22	21	25	20	13	13	5	8	2	
Jordan ****	107	116	91	1	3	4	5	1	1	2	1	0	0	1	0
Kuwait	50	69	46	2	2	1	0	0	0	1	1	0	1	0	0
Lebanon ****	111	75	65	0	4	2	1	2	1	2	2	2	2	2	
Libya	70	88	82	1	3	4	0	0	3	6	2	1	3	0	
Morocco	85	143	109	2	3	1	2	4	1	0	0	0	0	0	
Oman	39	40	15	0	1	0	0	1	0	1	0	0	0	0	0
Pakistan	7848	10318	7426	181	217	210	197	187	218	241	218	141	118	52	0
Palestine ****	46	43	32	0	1	0	1	2	0	1	0	2	0	0	0
Qatar	9	18	9	0	0	1	0	0	0	0	0	0	0	0	0
Saudi Arabia	273	276	136	0	5	5	1	3	8	4	3	1	2	2	0
Somalia	316	345	236	5	11	8	6	5	12	7	6	3	6	6	1
Sudan	509	570	393	14	12	17	10	20	11	13	6	4	5	10	0
Syria ****	303	362	236	7	6	11	3	4	6	11	3	1	3	1	1
Tunisia	90	67	51	1	2	2	0	0	1	1	0	0	2	1	
U.A.E	42	58	31	1	1	0	1	1	1	0	0	1	1	0	0
Yemen	715	713	463	12	6	16	10	7	5	19	11	6	6	3	
<b>Total EMR</b>	<b>16008</b>	<b>19178</b>	<b>13734</b>	<b>331</b>	<b>385</b>	<b>411</b>	<b>362</b>	<b>370</b>	<b>387</b>	<b>429</b>	<b>354</b>	<b>215</b>	<b>221</b>	<b>145</b>	<b>8</b>

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2016	Total year 2017	09/09		Confirmed polio cases by month of onset											
			2017	2018	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018
Afghanistan	13	14	6	13	3	2	2	3	3	1	1	0	2	3		
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	0		
Egypt	0	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	0		
Morocco	0	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		
Pakistan	20	8	5	4	0	3	0	0	0	1	1	1	0	1		
Palestine ****	0	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		
<b>Total EMR</b>	<b>33</b>	<b>22</b>	<b>11</b>	<b>17</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</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 2017 &amp; 2018 up to Week (36/18) / Ending on : 09/09/2018)

COUNTRY	2017											2018											Latest line List Date		
	AFP									Specimen	Wild cases ****		AFP									Specimen		Wild cases ****	
	Total AFP cases onset 2017	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 2018	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
		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	3094	14	0	0	3080	1	15.2	0	0	93.5	14	0	2240	13	0	153	2074	0	15.9	12	0	95.0	13	0	09-09-2018
Bahrain	18	0	0	0	18	0	6.2	0	0	100.0	0	0	22	0	0	6	16	0	11.0	3	0	95.5	0	0	09-09-2018
Djibouti	4	0	0	0	4	0	1.3	0	0	100.0	0	0	0	0	0	0	0	0.0	0	0		0	0	26-08-2018	
Egypt	1242	0	0	0	1240	2	3.3	0	0	94.4	0	0	864	0	0	120	744	0	3.3	2	0	88.3	0	0	08-09-2018
Iran	820	0	0	0	820	0	4.3	0	0	96.7	0	0	552	0	0	28	524	1	4.1	1	1	95.7	0	0	01-09-2018
Iraq	699	0	0	0	699	0	4.7	0	0	86.7	0	0	635	0	0	40	595	0	6.0	16	2	89.6	0	0	06-09-2018
Jordan	116	0	0	0	116	0	4.2	0	0	100.0	0	0	91	0	0	1	90	0	4.7	0	0	100.0	0	0	09-09-2018
Kuwait	69	0	0	0	69	0	7.5	0	0	92.8	0	0	46	0	0	2	44	0	7.5	0	0	89.1	0	0	09-09-2018
Lebanon	75	0	0	0	75	0	4.0	0	0	80.0	0	0	65	0	0	7	58	0	5.1	0	0	96.9	0	0	07-09-2018
Libya	88	0	0	0	88	0	4.3	0	0	96.6	0	0	82	0	0	11	71	0	4.7	2	1	96.3	0	0	08-09-2018
Morocco	143	0	0	0	143	0	1.3	0	0	67.1	0	0	109	0	0	32	77	0	1.7	21	0	78.0	0	0	07-09-2018
Oman	40	0	0	0	40	0	4.5	0	0	90.0	0	0	15	0	0	0	15	0	2.5	0	0	80.0	0	0	09-09-2018
Pakistan	10318	8	2	0	10308	0	13.2	0	0	85.6	8	0	7426	4	1	978	6443	0	13.8	104	0	88.8	4	0	09-09-2018
Palestine	43	0	0	0	43	0	2.3	0	0	97.7	0	0	32	0	0	7	25	0	2.5	0	0	93.8	0	0	09-09-2018
Qatar	18	0	0	0	18	0	6.1	0	0	100.0	0	0	9	0	0	3	6	0	3.6	2	0	100.0	0	0	09-09-2017
Saudi Arabia	276	0	0	0	276	0	3.5	0	0	98.9	0	0	136	0	0	65	71	0	2.4	28	25	94.9	0	0	09-09-2018
Somalia	345	0	0	1	344	0	6.0	1	1	99.1	0	0	236	0	0	19	212	5	5.4	1	1	98.3	0	0	09-09-2018
Sudan	570	0	0	0	570	0	3.2	0	0	96.3	0	0	393	0	0	27	366	0	3.2	1	0	97.7	0	0	09-09-2018
Syria	362	0	1	0	287	74	4.7	0	0	80.9	0	0	236	0	0	11	225	0	4.4	1	0	86.9	0	0	08-09-2018
Tunisia	67	0	0	0	67	0	2.5	0	0	74.6	0	0	51	0	0	5	46	0	2.8	0	0	80.4	0	0	07-09-2018
U.A.E	58	0	0	0	58	0	5.7	0	0	98.3	0	0	31	0	0	2	29	0	3.6	0	0	96.8	0	0	09-09-2018
Yemen	713	0	0	95	618	0	5.2	95	77	90.2	0	0	463	0	0	443	20	0	4.8	337	319	93.7	0	0	08-09-2018
EMR	19178	22	3	96	18981	77	7.7	96	78	88.9	22	0	13734	17	1	1960	11751	6	7.9	531	349	90.8	17	0	
2016	16008	33	5	1	15961	8	6.4	0	0	89.6	33	0													

Advance notification of 2 new cVDPV2 cases from Lower Juba province, Kismayo district - one of them is identified by a cVDPV2 contact

\* 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 and specimens received in the lab in Good Condition

\*\*\*\* AFP cases co infected with P1 and P3 are counted separately as wild isolates



World Health Organization – Regional Office for Eastern Mediterranean  
AFP SURVEILLANCE  
Week 36, ending 09 September 2018

10-Sep-18  
Number 1040

Table 4 (a): Lab results of contacts' samples in EMR, 2017 - 2018

COUNTRY	2017						2018					
	# OF CONTACTS	LAB RESULTS					# OF CONTACTS	LAB RESULTS				
		WILD	VDPV	SL	NPEV	PENDING		WILD	VDPV	SL	NPEV	PENDING
AFG	1424	1	0	88	347	0	639	4	0	33	135	25
BAH	2	0	0	0	0	0	2	0	0	0	0	0
DJI	0	0	0	0	0	0	0	0	0	0	0	0
EGY	450	0	0	9	63	18	308	0	0	10	34	29
IRN	143	0	0	5	1	0	95	0	0	2	2	0
IRQ	698	0	0	18	101	16	536	0	0	17	65	22
JOR	2	0	0	0	0	0	0	0	0	0	0	0
KUW	8	0	0	0	0	2	0	0	0	0	0	0
LEB	92	0	0	2	3	21	179	0	0	3	14	19
LIB	4	0	0	0	0	1	0	0	0	0	0	0
MOR	87	0	0	0	7	0	57	0	0	0	5	0
OMA	115	0	0	1	24	1	44	0	0	0	10	0
PAK	3758	2	0	234	897	0	2706	1	0	112	506	193
PAL	0	0	0	0	0	0	0	0	0	0	0	0
QAT	0	0	0	0	0	0	0	0	0	0	0	0
SAA	0	0	0	0	0	0	5	0	0	0	0	5
SOM	1035	0	0	37	113	4	704	0	5	32	71	95
SUD	385	0	0	6	32	46	245	0	0	2	17	95
SYR	570	0	64	3	11	0	444	0		3	6	30
TUN	26	0	0	0	0	0	12	0	0	0	0	0
UAE	2	0	0	0	0	0	0	0	0	0	0	0
YEM	1737	0	0	43	114	667	945	0	0	0	0	945
<b>EMR</b>	<b>10538</b>	<b>3</b>	<b>64</b>	<b>446</b>	<b>1713</b>	<b>776</b>	<b>6921</b>	<b>5</b>	<b>5</b>	<b>214</b>	<b>865</b>	<b>1458</b>

Table 4 (B): Most recent wild contacts in EMRO, 2017 - 2018

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
2018	Afghanistan	4	07-08-18
	Pakistan	1	08-05-18
<b>2018 Total</b>		<b>5</b>	<b>07-08-18</b>
2017	Pakistan	2	04-12-17
	Afghanistan	1	21-05-17
<b>2017 Total</b>		<b>3</b>	<b>04-12-17</b>

Table 4 (C): Number and distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2017-2018

YEAR	COUNTRY	PROVINCE	DISTRICT	COUNT	First case	Last case
2018	AFG	NANGARHAR	PACHIERAGAM	1	17-07-18	17-07-18
		URUZGAN	SHAHID-E-HASSA	1	08-07-18	08-07-18
	PAK	BALUCHISTAN	DUKKI	1	15-04-18	15-04-18
<b>2018 Total</b>				<b>3</b>	<b>15-04-18</b>	<b>17-07-18</b>
2017	AFG	HILMAND	NAWZAD	1	16-04-17	16-04-17
	<b>2017 Total</b>				<b>1</b>	<b>16-04-17</b>



**Table 5: Laboratory investigation of AFP cases with paralysis onset in 2018 up to Week (36/18) / Ending on : (09/09/2018)**

Country	Polio laboratories  Sequencing performed by EGY, PAK, TUN, 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				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	NPEV only	Negative	received < / = 14 days	received > 14 days ago	Wild	Sabin	VPV	Wild	Sabin	VPV	Wild	Sabin	VPV									
Afghanistan	RRL Pakistan	2194	162	19	390	1545	77	1	11	124						114						16%	87%	100%	98%	08/09/2018
Bahrain	PNL Oman	20			1	18	1														5%	100%		42%	09/09/2018	
Djibouti	NPL Kenya																								26/08/2018	
Egypt***	RRL Egypt	832	26	6	101	647	37	15		14						16				6		11%	91%	100%	99%	06/09/2018
Iran	NPL Iran	581	12		14	540	15			7	1					4				1		2%	100%	100%	99%	08/09/2018
Iraq	RRL Egypt	640	14		75	522	18	11		11						10						12%	100%	100%	67%	06/09/2018
Jordan	RRL EGYPT	89	3		5	80	1			2						3						9%	100%	100%	100%	06/09/2018
Kuwait	RRL Kuwait	46	1		4	40		1												1		6%	96%		98%	10/09/2018
Lebanon	NPL Jordan	68	2		4	58	4			1						1						8%	100%	100%	50%	06/09/2018
Libya	RRL Tunisia	74	1		5	61		7														7%	100%	100%	97%	17/08/2018
Morocco	NPL Morocco	107			2	103	2															3%	92%		93%	03/09/2018
Oman	NPL Oman	15			2	13																19%	87%		100%	09/09/2018
Pakistan	RRL Pakistan	7343	302	24	1421	5141	452	2	3	197						229				5		17%	88%	99%	97%	08/09/2018
Palestine & UNRWA		32			4	26	1	1														13%	67%		100%	09/09/2018
Qatar	NPL Oman	9			1	8																11%	88%		100%	09/09/2018
Saudi Arabia	NPL Oman	144	2		1	124	6	16														1%	98%			05/09/2018
Somalia	NPL Kenya	236	20	1	19	178	9	9		8		4	3 #		10	3 #				1		9%	16%		100%	09/09/2018
Sudan	RRL Egypt	371	5		33	315		18		3						1				1		11%	98%	100%	80%	18/08/2018
Syria	RRL Egypt	235	3		6	219	7			1						2						3%	100%	100%	50%	06/09/2018
Tunisia	RRL Tunisia	54			1	51		2														1%	98%		96%	17/08/2018
U.A.E	NPL Oman	29			4	25																12%	86%		90%	09/09/2018
Yemen	NPL Kenya																									08/09/2018
<b>Total EMR 2018</b>		13119	553	50	2093	9714	630	83	14	368	1	4	3		391	3	1	12	2		14%	89%	99%	97%		
<b>Total EMR 2017</b>		18238	942	103	3557	13614		21	21	598		10	34*		705	1	21	25	4		16%	98%	99%	96%		

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

\*\* This indicator reflects surveillance and laboratory activities

\* In 2017, 41 cVDPV2 were isolated from Syria by other Global Polio Laboratories Network (GPLN)  
Syria reported a total of 74 cVDPV2 cases in 2017 out of which 8 were identified by positive contacts

# Somalia in 2018 so far has a total of 5 cVDPV cases (2 cVDPV2, 2 cVDPV3 & 1 coinfection cVDPV2/cVDPV3)



**Table 6: Environmental isolate by year and type**

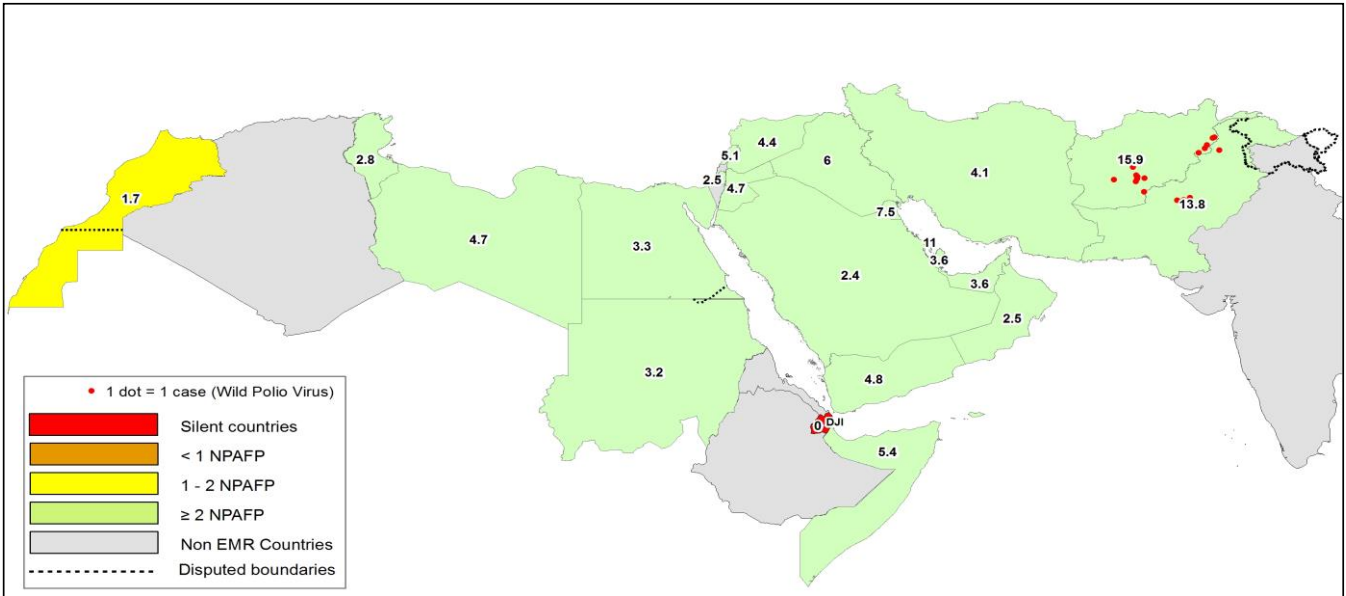
Country	Status	2015	2016	2017	2018
AFG	NEGATIVE	129	183	274	170
	PENDING				20
	WILD		20	2	42
<b>AFG Total</b>		<b>149</b>	<b>185</b>	<b>316</b>	<b>224</b>
EGY	NEGATIVE	495	528	522	330
	PENDING				38
	VDPV2	3	1		
<b>EGY Total</b>		<b>498</b>	<b>529</b>	<b>522</b>	<b>368</b>
IRN	NEGATIVE			6	28
	PENDING				2
<b>IRN Total</b>				<b>6</b>	<b>30</b>
JOR	NEGATIVE		2	32	14
	PENDING				10
<b>JOR Total</b>			<b>2</b>	<b>32</b>	<b>24</b>
LEB	NEGATIVE		4	27	9
	PENDING				20
<b>LEB Total</b>			<b>4</b>	<b>27</b>	<b>29</b>
PAK	NEGATIVE	347	462	523	351
	PENDING				37
	WILD	79	59	105	61
	WILD & VDPV2	5	3	1	
	VDPV2	8	5	4	
<b>PAK Total</b>		<b>439</b>	<b>529</b>	<b>633</b>	<b>449</b>
SOM	NEGATIVE			34	111
	PENDING				16
	VDPV2			2	10
	VDPV3				7
<b>SOM Total</b>				<b>36</b>	<b>144</b>
SYR	NEGATIVE			4	47
	PENDING				11
<b>SYR Total</b>				<b>4</b>	<b>58</b>
<b>Grand Total</b>		<b>1086</b>	<b>1249</b>	<b>1576</b>	<b>1326</b>

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

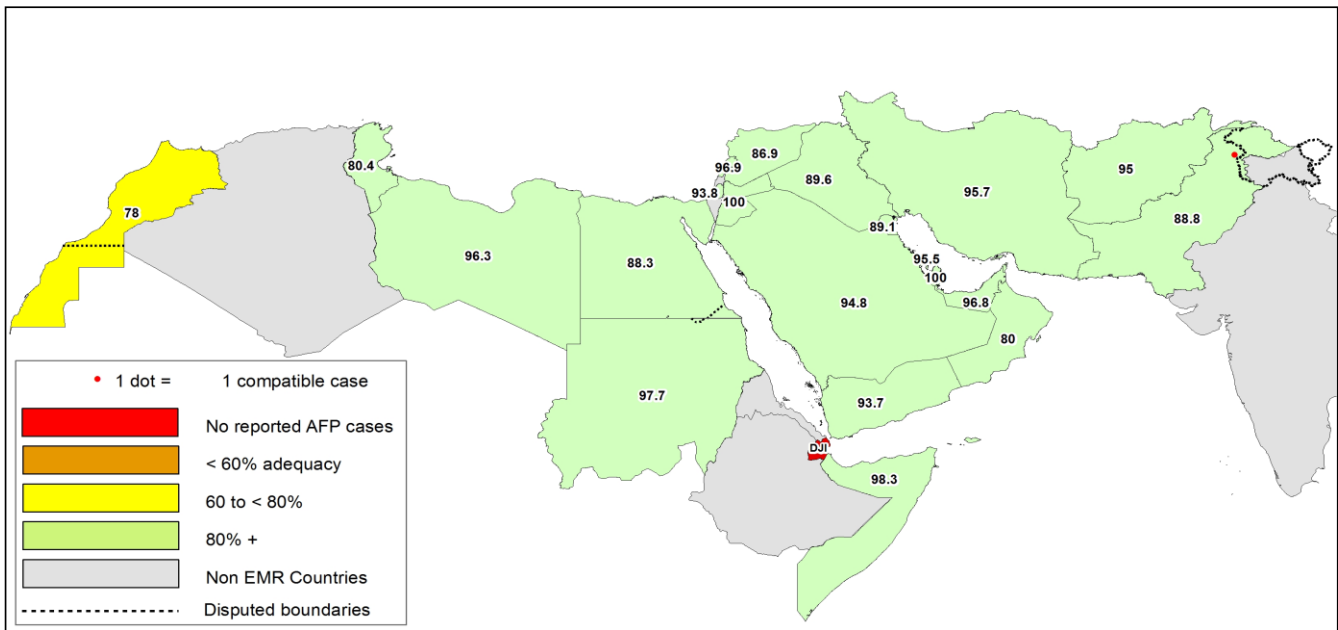
Country	COUNTRY	Status	PROVINCE	DISTRICT	Count	First date	Last date
2017	AFG	WILD	HILMAND	LASHKARGAH	8	26-Apr	26-Dec
				NAHR-E-SARAJ	1	25-Sep	25-Sep
				KABUL	1	25-Oct	25-Oct
				KANDAHAR	18	26-Jan	27-Dec
				KUNAR	1	25-Dec	25-Dec
				NANGARHAR	3	24-Sep	26-Dec
				JALALABAD	10	24-Jan	26-Dec
	<b>AFG Total</b>				<b>42</b>	<b>24-Jan</b>	<b>27-Dec</b>
	PAK	WILD	BALOCHISTAN	KABDULLAH	12	1-Jan	15-Oct
				LORALAI	3	17-Sep	17-Nov
				PISHIN	5	2-Jan	2-Oct
				QUETTA	12	1-Jan	20-Dec
				ZHOB	1	18-Dec	18-Dec
				ISLAMABAD	5	10-Feb	10-Jul
				KHYBER PAKHTUNKHWA	8	10-Jan	11-Dec
				PUNJAB	1	18-Dec	18-Dec
				MULTAN	1	9-Jan	9-Jan
				RAWALPINDI	8	10-Jan	10-Oct
				SINDH	4	11-Aug	13-Dec
				JACOBABAD	1	15-Aug	15-Aug
KAMBAR				2	8-Aug	3-Nov	
KHIBALDIA				21	9-Jan	12-Dec	
KHIGADAP	6	3-Feb	10-Oct				
KHIGIOBAL	1	16-Oct	16-Oct				
KHILANDHI	7	16-Mar	14-Dec				
KHISITE	5	7-Aug	4-Dec				
SUKKUR	2	11-Apr	19-Sep				
			BALOCHISTAN	1	15-Jul	15-Jul	
			BALOCHISTAN	1	2-May	2-May	
			QUETTA	3	3-Apr	29-May	
<b>PAK Total</b>				<b>110</b>	<b>1-Jan</b>	<b>20-Dec</b>	
SOM	VDPV2	BANADIR	WABERI	2	22-Oct	2-Nov	
<b>SOM Total</b>				<b>2</b>	<b>22-Oct</b>	<b>2-Nov</b>	
<b>2017 Total</b>				<b>154</b>	<b>1-Jan</b>	<b>27-Dec</b>	
2018	AFG	WILD	HILMAND	LASHKARGAH	1	8-Jan	8-Jan
				HIRAT	1	25-Jun	25-Jun
				KABUL	3	26-Feb	26-Jun
				KANDAHAR	15	8-Jan	5-Aug
				KUNAR	1	24-Apr	24-Apr
				NANGARHAR	2	28-Jan	25-Feb
				JALALABAD	11	27-Jan	25-Jul
	<b>AFG Total</b>				<b>34</b>	<b>8-Jan</b>	<b>5-Aug</b>
	PAK	WILD	BALOCHISTAN	KABDULLAH	1	1-Jan	1-Jan
				LORALAI	1	17-Mar	17-Mar
				QUETTA	5	13-Feb	28-Jul
				ISLAMABAD	4	10-Jan	10-Aug
				KHYBER PAKHTUNKHWA	1	31-Mar	31-Mar
				BANNU	3	5-Jan	27-Jun
				KOHAT	12	10-Jan	27-Aug
				PUNJAB	1	12-Feb	12-Feb
				DERA GHAZI KHAN	2	11-Jun	11-Jul
				LAHORE	7	10-Jan	10-Aug
				RAWALPINDI	1	9-Feb	9-Feb
				SINDH	2	12-Feb	7-Mar
HYDERABAD				3	7-Apr	9-Jul	
JACOBABAD				1	1-Aug	1-Aug	
KAMBAR	9	15-Feb	10-Aug				
KHIBALDIA	3	10-Jan	30-Jul				
KHIGADAP	1	1-Jan	1-Jan				
KHISITE	1	8-Feb	8-Feb				
SUKKUR	1	7-Mar	7-Mar				
KHILIAQAT	2	19-May	1-Aug				
BAJOUR	61	1-Jan	27-Aug				
SOM	VDPV2	BANADIR	HAMAR WEYN	6	4-Jan	17-May	
			HODAN	1	22-Feb	22-Feb	
			WABERI	3	1-Mar	17-May	
			HAMAR WEYN	5	8-Mar	5-Apr	
			WABERI	2	8-Mar	19-Apr	
			VDPV3	17	4-Jan	17-May	
<b>SOM Total</b>				<b>17</b>	<b>4-Jan</b>	<b>17-May</b>	
<b>2018 Total</b>				<b>112</b>	<b>1-Jan</b>	<b>27-Aug</b>	



**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2018 - 09/09/2018**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2018 - 09/09/2018**



**Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2017 - 2018**

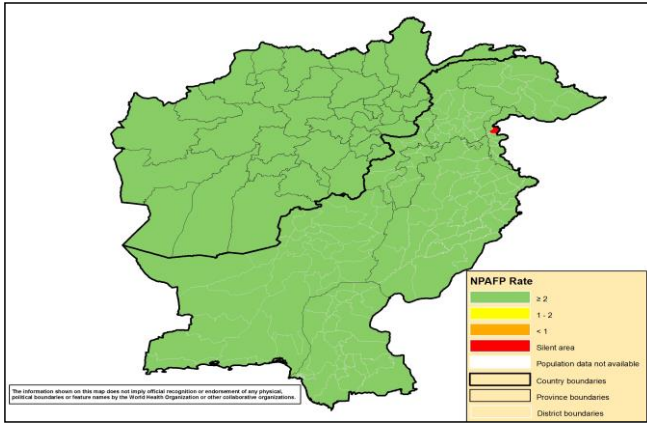
Year	COUNTRY	Count	First Case	Last Case
2018	AFG	13	01-01-18	17-07-18
	PAK	4	08-03-18	01-08-18
2018 Total		17	01-01-18	01-08-18
2017	AFG	14	13-01-17	28-12-17
	PAK	8	28-01-17	15-11-17
2017 Total		22	13-01-17	28-12-17

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

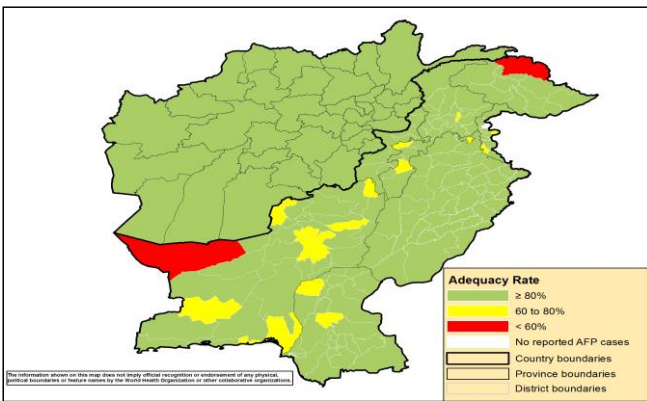




**Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2018 - 09/09/2018**

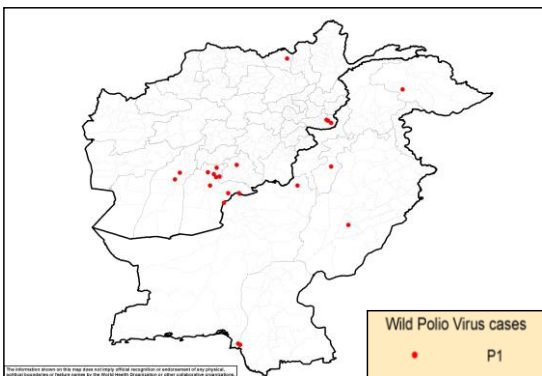


**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2018 - 09/09/2018**

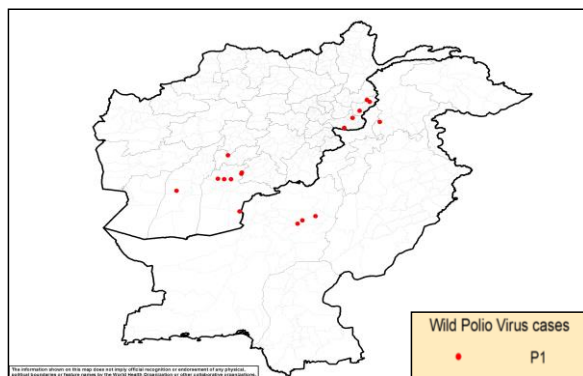


**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan**

**5a: 01/01/2017 - 31/12/2017**



**5b: 01/01/2018 - 09/09/2018**





World Health Organization – Regional Office for Eastern Mediterranean  
AFP SURVEILLANCE  
Week 36, ending 09 September 2018

10-Sep-18  
Number 1040

**Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2017-2018**

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2018	NANGARHAR	PACHIERAGAM	1	17-07-18	17-07-18
		KAMA	1	01-01-18	01-01-18
	KANDAHAR	ARGHANDAB (K)	1	17-07-18	17-07-18
		SHAHWALIKOT	3	05-01-18	27-04-18
		KHAKREZ	1	25-02-18	25-02-18
		SPINBOLDAK	1	06-01-18	06-01-18
	URUZGAN	SHAHID-E-HASSAS	1	08-07-18	08-07-18
	KUNAR	CHAWKAY	1	22-06-18	22-06-18
		GHAZIABAD	2	14-02-18	03-03-18
	HILMAND	NAD-E-ALI	1	01-06-18	01-06-18
2018 Total			13	01-01-18	17-07-18
2017	KANDAHAR	SPINBOLDAK	1	28-12-17	28-12-17
		SHAHWALIKOT	5	19-06-17	03-12-17
		KANDAHAR	1	13-01-17	13-01-17
	NANGARHAR	MUHMAND DARA	1	05-11-17	05-11-17
		BATIKOT	2	15-09-17	11-10-17
	ZABUL	ARGHANDAB (Z)	1	10-07-17	10-07-17
	HILMAND	NAWZAD	1	16-04-17	16-04-17
		NAHR-E-SARAJ	1	21-01-17	21-01-17
	KUNDUZ	DASHT-E-ARCHI	1	21-02-17	21-02-17
2017 Total			14	13-01-17	28-12-17

**Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2017-2018**

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2018	KHYBER PAKHTOON	CHARSADA	1	01-08-18	01-08-18
	BALUCHISTAN	DUKKI	3	08-03-18	18-05-18
2018 Total			4	08-03-18	01-08-18
2017	BALUCHISTAN	ZHOB	1	15-11-17	15-11-17
		KABDULAH	2	11-06-17	13-11-17
	SINDH	KHIGADAP	1	09-11-17	09-11-17
		KHIGIQBAL	1	11-08-17	11-08-17
	KHYBER PAKHTOON	LAKKIMRWT	1	21-08-17	21-08-17
	GILGIT BALTISTAN	DIAMER	1	13-02-17	13-02-17
	PUNJAB	LODHRAN	1	28-01-17	28-01-17
2017 Total			8	28-01-17	15-11-17

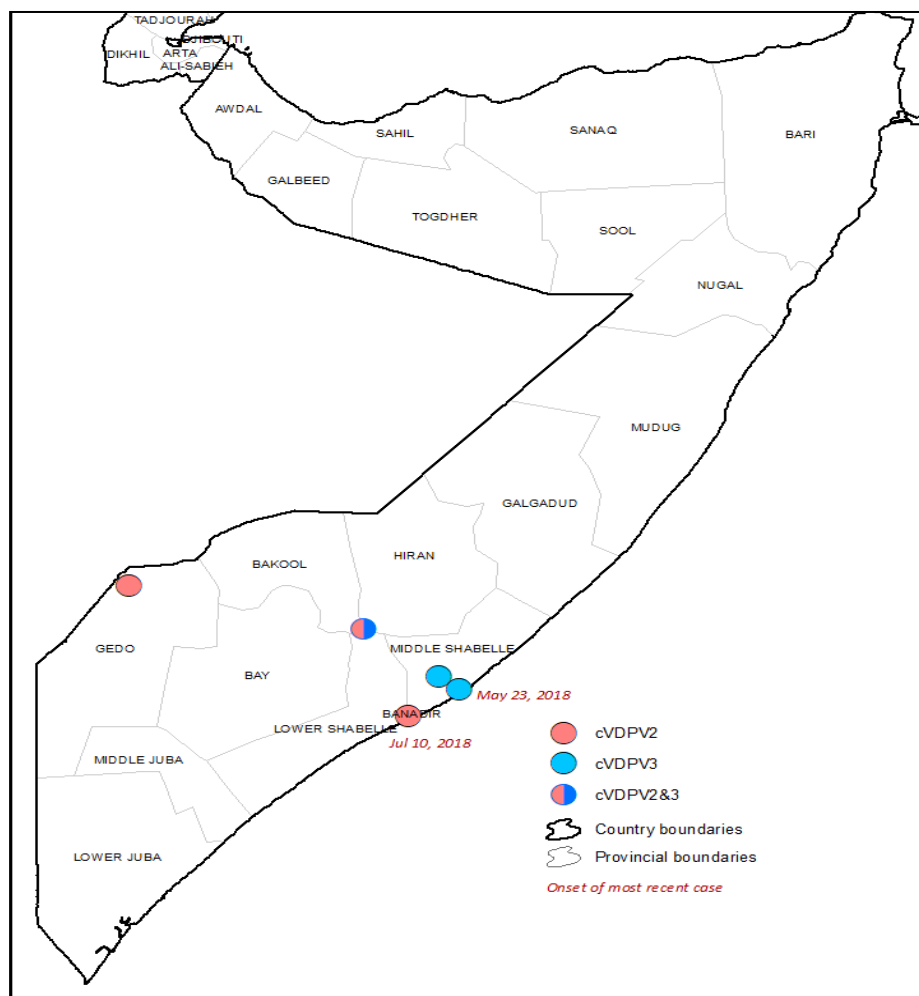


**Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2017-2018**

Year	COUNTRY	PROVINCE	DISTRICT	cVDPV2			cVDPV3		
				Count	First Case	Last Case	Count	First Case	Last Case
2017	SYR	HOMS	TADMOUR	1	10/Jul/17	10/Jul/17			
		DEIR_AL_ZOUR	DEIR ALZOUR	1	30/Jun/17	30/Jun/17			
		DEIR_AL_ZOUR	BOKAMAL	12	25/Jun/17	21/Sep/17			
		DEIR_AL_ZOUR	MAYADEEN	58	5/Mar/17	9/Sep/17			
		RAQUA	THAWRA	1	16/Jun/17	16/Jun/17			
		RAQUA	TALABYAD	1	25/Apr/17	25/Apr/17			
SYR Total				74	5/Mar/17	21/Sep/17			
<b>2017 Total</b>				<b>74</b>	<b>5/Mar/17</b>	<b>21/Sep/17</b>			
2018	SOM	BANADIR	DANYILE	1	10/Jul/18	10/Jul/18			
		HIRAN	BULO BURTI	1	11-May-18	11-May-18	1	11-May-18	11-May-18
		GEDO	DOLO	1	26-May-18	26-May-18			
		MIDDLE SHABELLE	WARSHEIKH				2	16/May/18	23/May/18
SOM Total				3	11/May/18	10/Jul/18	3	11/May/18	23/May/18
<b>2018 Total</b>				<b>3</b>	<b>11/May/18</b>	<b>10/Jul/18</b>	<b>3</b>	<b>11/May/18</b>	<b>23/May/18</b>

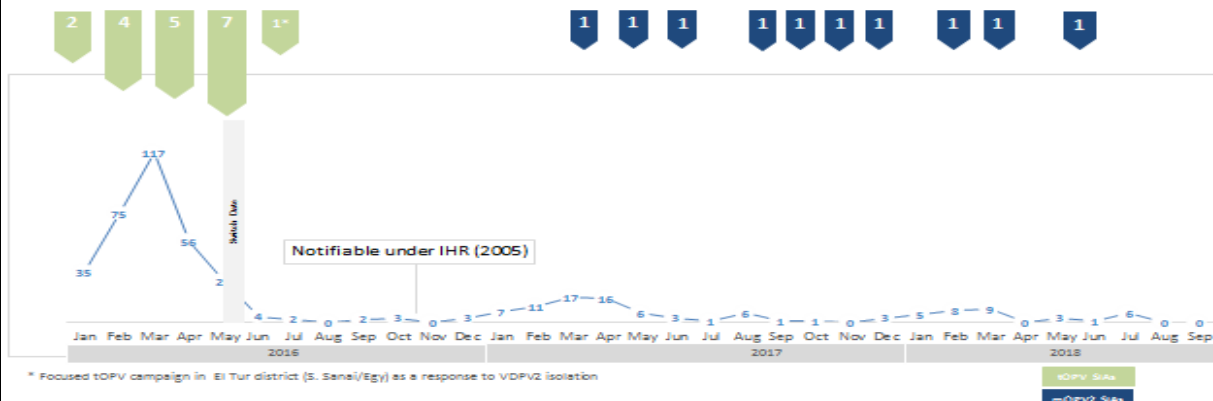
- Somalia in 2018 so far has a total of 5 cVDPV cases (2 cVDPV2, 2 cVDPV3 & 1 coinfection cVDPV2/cVDPV3)  
- Advance notification of 2 new cVDPV2 cases from Lower Juba province, Kismayo district - one of them is identified by a cVDPV2 contact

**Figure 6: Somalia cVDPV cases by type and district 01/01/2018 - 09/09/2018**

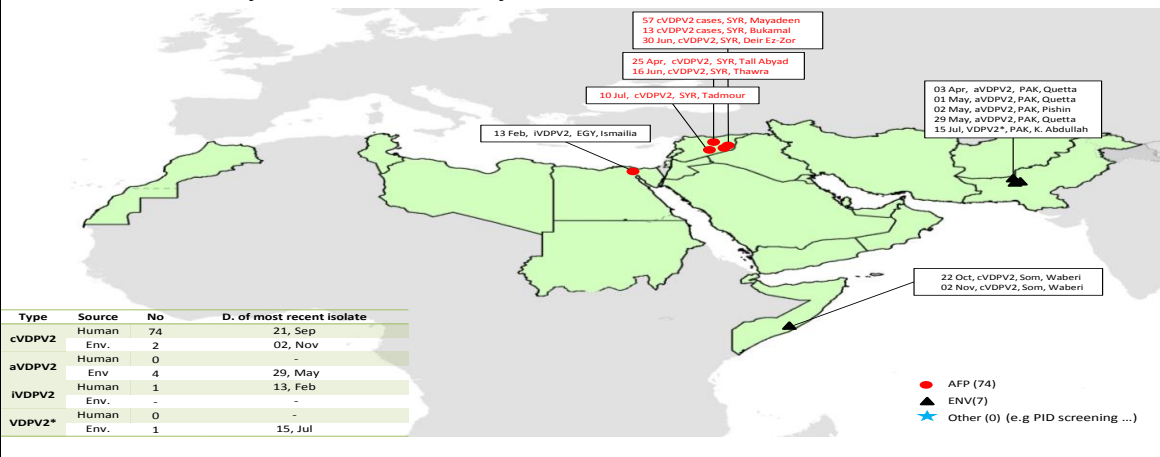




### Sabin Like Type-2 Poliovirus Isolates (H & E) EMR, 2016-17-18



### VDPV2 isolates, EMR countries, 2017



### VDPV2 isolates, EMR countries, 2018

