

## **Highlights of Polio Fax Bulletin No. 1058 for Week 02 2019**

### **I. Poliovirus Transmission**

#### **1. Endemic countries (PAKISTAN & AFGHANISTAN):**

- a. Human samples: Two new wild poliovirus type-1 (WPV1) cases reported from Pakistan this week. Total WPV type-1 cases in 2018 to date is 31 (21 from Afghanistan and 10 from Pakistan).
  - i. Afghanistan: The total number of WPV1 cases in Afghanistan in 2018 to date remains 21 from six provinces (Hilmand-4 cases, Kandhar-9 cases, Kunar-3 cases, Nangarhar-2 cases, Uruzgan-2 cases and Nuristan-1 case). The most recent reported case has date of onset of paralysis on 6 November 2018.
  - ii. Pakistan: Two newly reported WPV1 cases this week. One from Lakki Marwat district, Khyber Pakhtunkhwa (KP), with date of onset 16 December 2018, and has received a total of 7+ oral polio vaccine (OPV) during supplementary immunization activities (SIAs) and none from routine. The other case is from Bajour district, Khyber Pakhtunkhwa Tribal District (KPTD), with date of onset 25 December 2018 with zero dose of oral polio vaccine none from routine or SIAs. The total number of WPV1 cases in Pakistan in 2018 to date is 10 from six infected districts in four provinces (Balochistan-3 cases, Khyber Pakhtunkhwa (KP)-2 cases and Khyber Pakhtunkhwa Tribal District (KPTD)-4 cases and Sindh-1 case). Date of onset of paralysis of the most recent case is 25 December 2018.
- b. Environmental samples: Five new positive environmental samples for WPV1 were reported this week, all from Pakistan.
  - i. Afghanistan: The total positive environmental samples from Afghanistan in 2018 remains to date 76 with most recent positive sample collected on 6 December 2018.
  - ii. Pakistan: Five new positive environmental samples reported this week these include one from Lahore district, from Punjab province; two from Khyber Pakhtunkhwa province (KP), one from Bannu district and one from Peshawar district; one from Quetta district, from Balochistan province; and one from Karachi towns from Gadap district, from Sindh province. The total positive environmental samples from Pakistan in 2018 to date are 137 with most recent positive sample collected on 27 December 2018.

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

1. SOMALIA: no new cVDPV type-2 or type-3 isolates from human or environmental samples this week.
  - a. In 2018 to date, Somalia has reported a total of 12 cases due to circulating vaccine derived polioviruses (cVDPVs), which include 5 due to cVDPV2, 6 due to cVDPV3 and 1 due to co-infection of cVDPV2 and cVDPV3.

- b. cVDPV2:
  - i. The date of onset of the most recent cVDPV2 case is 2 September 2018.
  - ii. In 2018 so far, cVDPV2 has been isolated from 19 sewage samples in Mogadishu and date of specimen collection of recent most positive sample is 11 October 2018. One of the 19 samples has co-infection of cVDPV2 and cVDPV3.
- c. cVDPV3:
  - i. The date of onset of the most recent cVDPV3 case is 7 September, 2018.
  - ii. In 2018 so far, cVDPV3 isolated from 12 sewage samples in Mogadishu and date of specimen collection of recent most positive sample is 23 August 2018. One of the above 12 samples has co-infection of cVDPV2 and cVDPV3.

### III. Surveillance performance indicators

1. In 2018, nineteen of 22 member states are meeting the global target of both 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.
  - a. Djibouti is missing both indicators. Djibouti, did not report any AFP case since April 2017.
  - b. Morocco has a percentage of AFP cases with adequate stool specimens of 72.7%
  - c. Oman has a percentage of AFP cases with adequate stool specimens of 75%
2. Yemen has the highest number of 2017 AFP cases, which are not yet finally classified (72). Also Somalia has one pending case from 2017.

## World Health Organization – Regional Office for Eastern Mediterranean

## AFP SURVEILLANCE

14-Jan-19

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

Country	Reported AFP cases by week of onset - Week (02/19) / Ending on : 13/01/2019														
	Total AFP 2017	Total AFP 2018	Total AFP to date, 2019	W43 28 Oct 18	W44 04 Nov 18	W45 11 Nov 18	W46 18 Nov 18	W47 25 Nov 18	W48 02 Dec 18	W49 09 Dec 18	W50 16 Dec 18	W51 23 Dec 18	W52 30 Dec 18	W01 06 Jan 19	W02 13 Jan 19
Afghanistan	3094	3367	60	66	76	79	61	50	66	70	51	44	47	53	9
Bahrain	18	35	0	1	1	2	0	2	1	0	1	1	0	0	0
Djibouti	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	1242	1246	20	26	16	22	22	26	16	21	19	23	13	21	
Iran	820	887	0	13	16	16	18	15	23	22	20	18	13	0	
Iraq	699	1015	2	14	30	18	24	27	22	35	25	20	14	5	
Jordan ****	116	115	3	0	1	0	0	0	0	3	1	3	1	3	
Kuwait	69	73	1	3	1	2	3	2	4	2	1	4	0	1	0
Lebanon ****	75	89	0	1	1	2	2	0	5	2	1	0	2	0	
Libya	88	122	0	2	0	0	1	1	2	4	1	2	2	1	
Morocco	143	205	0	5	4	3	7	4	2	7	3	3			
Oman	40	28	0	0	1	0	0	0	1	0	0	1	0		
Pakistan	10319	12039	82	236	245	285	250	254	275	287	257	183	194	95	3
Palestine ****	43	43	0	0	0	1	0	0	1	0	1	0	0	0	0
Qatar	18	10	0	0	0	0	0	0	0	0	0	0	1	0	0
Saudi Arabia	276	231	0	6	7	13	10	9	6	4	4	6	0	0	0
Somalia	345	351	1	7	4	8	6	4	3	6	4	7	4	2	0
Sudan	570	577	5	11	11	13	10	9	6	8	8	9	5	5	0
Syria ****	362	358	1	5	8	6	8	5	10	6	7	6	9	2	
Tunisia	67	65	0	1	1	1	0	0	1	0	0	0	0	0	
U.A.E	58	40	0	0	1	1	0	0	1	1	1	0	0	0	
Yemen	713	730	13	24	21	18	13	15	18	14	12	14	15	13	1
<b>Total EMR</b>	<b>19179</b>	<b>21626</b>	<b>188</b>	<b>421</b>	<b>445</b>	<b>490</b>	<b>435</b>	<b>423</b>	<b>463</b>	<b>492</b>	<b>417</b>	<b>344</b>	<b>320</b>	<b>201</b>	<b>13</b>

No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2017	Total year 2018	13/01		Confirmed polio cases by month of onset											
			2018	2019	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019
Afghanistan	14	21	3	0	3	1	1	0	2	3	2	3	2	1		
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	8	10	0	0	0	1	1	1	0	0	1	3	1	0	2	
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	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>22</b>	<b>31</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>0</b>

\*\*\*\* UNRWA cases are included with those of country of residence

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Table 3: Investigation of AFP cases with paralysis onset in 2018 &amp; 2019 up to Week (02/19) / Ending on : 13/01/2019

COUNTRY	2018											2019											Latest line List Date		
	AFP									Specimen	Wild cases ****		AFP									Specimen		Wild cases ****	
	Total AFP cases onset 2018	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 2019	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	3367	21	0	166	3180	0	16.5	19	2	93.9	21	0	60	0	0	60	0	0	8.3	0	0	100.0	0	0	13-01-2019
Bahrain	35	0	0	11	24	0	12.1	1	0	97.1	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	13-01-2019
Djibouti	0	0	0	0	0	0	0.0	0	0		0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	09-12-2018
Egypt	1246	0	0	54	1191	1	3.2	7	1	91.9	0	0	20	0	0	20	0	0	1.5	0	0	0.0	0	0	10-01-2019
Iran	887	0	0	17	869	1	4.6	0	0	96.7	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	12-01-2019
Iraq	1015	0	0	52	963	0	6.6	10	0	90.4	0	0	2	0	0	2	0	0	0.4	0	0	100.0	0	0	12-01-2019
Jordan	115	0	0	2	113	0	4.1	0	0	100.0	0	0	3	0	0	3	0	0	3.0	0	0	100.0	0	0	10-01-2019
Kuwait	73	0	0	2	71	0	8.2	0	0	89.0	0	0	1	0	0	1	0	0	3.2	0	0	100.0	0	0	13-01-2019
Lebanon	89	0	0	8	81	0	4.8	1	0	96.6	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	11-01-2019
Libya	122	0	0	6	116	0	4.9	0	0	96.7	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	12-01-2019
Morocco	205	0	0	82	123	0	2.3	50	7	72.7	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	28-12-2018
Oman	28	0	0	1	27	0	3.2	0	0	75.0	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	30-12-2018
Pakistan	12039	10	1	626	11402	0	15.4	125	0	88.3	10	0	82	0	0	82	0	0	2.9	0	0	100.0	0	0	13-01-2019
Palestine	43	0	0	3	40	0	2.3	0	0	93.0	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	13-01-2019
Qatar	10	0	0	1	9	0	2.8	0	0	100.0	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	13-01-2019
Saudi Arabia	231	0	0	69	162	0	2.9	1	0	95.7	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	13-01-2019
Somalia	351	0	0	16	323	12	5.5	1	1	98.3	0	0	1	0	0	1	0	0	0.4	0	0	100.0	0	0	13-01-2019
Sudan	577	0	0	17	560	0	3.2	1	1	97.4	0	0	5	0	0	5	0	0	0.8	0	0	100.0	0	0	13-01-2019
Syria	358	0	0	24	334	0	4.6	1	0	87.7	0	0	1	0	0	1	0	0	0.4	0	0	100.0	0	0	12-01-2019
Tunisia	65	0	0	0	65	0	2.4	0	0	81.5	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	11-01-2019
U.A.E	40	0	0	3	37	0	3.2	0	0	97.5	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	06-01-2019
Yemen	730	0	0	640	90	0	5.2	455	421	91.6	0	0	13	0	0	13	0	0	2.6	0	0	84.6	0	0	12-01-2019
EMR	21626	31	1	1800	19780	14	8.6	672	433	90.4	31	0	188	0	0	188	0	0	2.1	0	0	88.3	0	0	
2017	19179	22	3	73	19005	74	76.0	73	59	88.9	22	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 and specimens received in the lab in Good Condition

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

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Table 4 (a): Lab results of contacts' samples in EMR, 2018 - 2019

COUNTRY	2018						2019					
	# OF CONTACTS	LAB RESULTS					# OF CONTACTS	LAB RESULTS				
		WILD	VDPV	SL	NPEV	PENDING		WILD	VDPV	SL	NPEV	PENDING
AFG	1009	4	0	52	217	21	34	0	0	0	0	34
BAH	2	0	0	0	0	0	0	0	0	0	0	0
DJI	0	0	0	0	0	0	0	0	0	0	0	0
EGY	495	0	0	11	57	19	0	0	0	0	0	0
IRN	140	0	0	3	5	0	0	0	0	0	0	0
IRQ	799	0	0	21	91	28	28	0	0	0	0	28
JOR	0	0	0	0	0	0	0	0	0	0	0	0
KUW	0	0	0	0	0	0	0	0	0	0	0	0
LEB	218	0	0	3	15	26	0	0	0	0	0	0
LIB	1	0	0	0	0	0	0	0	0	0	0	0
MOR	136	0	0	0	9	13	0	0	0	0	0	0
OMA	71	0	0	2	16	0	0	0	0	0	0	0
PAK	4200	3	0	198	877	82	90	0	0	0	0	90
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	5	0	0	0	0	5	0	0	0	0	0	0
SOM	1043	0	10	49	126	40	9	0	0	0	0	9
SUD	347	0	0	2	24	85	10	0	0	0	0	10
SYR	670	0	0	8	15	28	10	0	0	0	0	10
TUN	0	0	0	0	0	0	1	0	0	0	0	1
UAE	0	0	0	0	0	0	0	0	0	0	0	0
YEM	1553	0	0	0	0	1553	36	0	0	0	0	36
<b>EMR</b>	<b>10689</b>	<b>7</b>	<b>10</b>	<b>349</b>	<b>1452</b>	<b>1900</b>	<b>218</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>218</b>

Table 4 (B): Most recent wild contacts in EMRO, 2018 - 2019

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
2018	Afghanistan	4	07-08-18
	Pakistan	3	12-10-18
<b>2018 Total</b>		<b>7</b>	<b>12-10-18</b>

Table 4 (C): Number and distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2018-2019

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	FATA	BAJOUR	1	01-09-18	01-09-18
		BALUCHISTAN	DUKKI	1	15-04-18	15-04-18
<b>2018 Total</b>				<b>4</b>	<b>15-04-18</b>	<b>01-09-18</b>

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**Table 5: Laboratory investigation of AFP cases with paralysis onset in 2018 up to Week (52/18) / Ending on : (31/12/2018)**

Country	Polio laboratories  (ITD / Nucleotide Sequencing (Nucleotide 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		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	VDPV	Wild	Sabin	VDPV	Wild	Sabin										VDPV
Afghanistan	RRL Pakistan	3338	221	23	606	2400	78	10	19	167						151						16%	91%	100%	98%	13/01/2019
Bahrain	NPL Oman / CDC	31			1	30															3%	100%		52%	14/01/2019	
Djibouti	NPL Kenya / CDC																								09/12/2018	
Egypt***	RRL Egypt	1218	34	6	157	999	15	7		17	1					18				8	1	11%	96%	100%	98%	10/01/2019
Iran	NPL Iran / CDC	797	17		22	734		24		11	1										1	2%	100%	100%	99%	12/01/2019
Iraq	RRL Egypt	1021	18		125	844	19	15		11												12%	100%	100%	76%	10/01/2019
Jordan	NPL Jordan / RRL EGYPT	115	4		9	102				3												10%	100%	100%	100%	13/01/2019
Kuwait	RRL Kuwait / RIVM	77	2		6	65	2	3														7%	94%		97%	14/01/2019
Lebanon	NPL Jordan / RRL EGYPT	92	2		7	81		2														9%	100%	100%	67%	13/01/2019
Libya	RRL Tunisia / RIVM	120	3		11	101	5			1												9%	100%	100%	97%	13/01/2019
Morocco	NPL Morocco / RRL Tunisia	186	2		4	173	2	5														3%	93%	0%	94%	04/01/2019
Oman	NPL Oman / CDC	28			6	22																22%	89%		100%	14/01/2019
Pakistan	RRL Pakistan	11765	506	58	2371	8457	344	25	8	332						380				12		17%	93%	99%	97%	13/01/2019
Palestine & UNRWA		43			6	37																14%	56%		100%	13/01/2019
Qatar	NPL Oman / CDC	9			1	8																11%	88%		100%	14/01/2019
Saudi Arabia	NPL Saudi Arabia / CDC	248	2		8	223	4	11														2%	94%	100%	100%	07/01/2019
Somalia	NPL Kenya / CDC	351	39	2	34	262	2	12		17			5	6 #		15	7 #					11%	15%		100%	13/01/2019
Sudan	NPL Sudan / RRL Egypt	568	7		52	501		8		5											2	10%	96%	100%	88%	30/12/2018
Syria	NPL Syria / RRL Egypt	354	6		13	319	11	5		3												4%	100%	100%	67%	10/01/2019
Tunisia	RRL Tunisia	70			2	67	1															2%	99%		97%	13/01/2019
U.A.E	NPL Oman / CDC	41			4	36	1															9%	90%		85%	14/01/2019
Yemen	NPL Kenya / CDC																									12/01/2019
<b>Total EMR 2018</b>		<b>20472</b>	<b>863</b>	<b>89</b>	<b>3445</b>	<b>15461</b>	<b>484</b>	<b>127</b>	<b>27</b>	<b>569</b>	<b>2</b>		<b>5</b>	<b>6</b>		<b>603</b>	<b>7</b>	<b>1</b>	<b>22</b>	<b>1</b>	<b>5</b>	<b>15%</b>	<b>92%</b>	<b>99%</b>	<b>97%</b>	
<b>Total EMR 2017</b>		<b>13527</b>	<b>558</b>	<b>50</b>	<b>2219</b>	<b>10038</b>	<b>608</b>	<b>55</b>	<b>15</b>	<b>369</b>	<b>1</b>		<b>4</b>	<b>4</b>		<b>394</b>	<b>3</b>	<b>1</b>	<b>12</b>	<b>1</b>	<b>1</b>	<b>15%</b>	<b>89%</b>	<b>99%</b>	<b>97%</b>	

\* 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 12 cVDPV cases (5 cVDPV2, 6 cVDPV3 & 1 coinfection cVDPV2/cVDPV3)

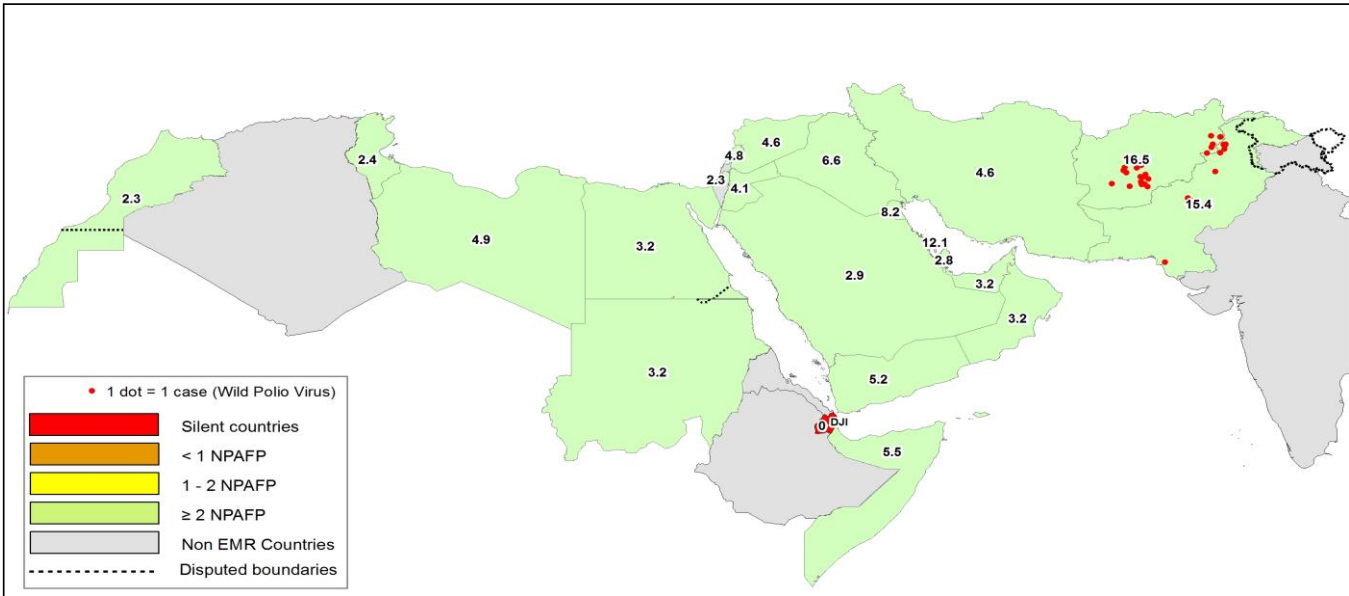
**Table 6: Environmental isolate by year and type**

Country	Status	2015	2016	2017	2018	2019
AFG	NEGATIVE	129	183	274	240	
	PENDING					8
	WILD	20	2	42	76	
<b>AFG Total</b>		<b>149</b>	<b>185</b>	<b>316</b>	<b>336</b>	<b>8</b>
EGY	NEGATIVE	495	528	522	531	
	PENDING					9
	VDPV2	3	1			
<b>EGY Total</b>		<b>498</b>	<b>529</b>	<b>522</b>	<b>540</b>	<b>19</b>
IRN	NEGATIVE			6	54	
	PENDING					2
<b>IRN Total</b>				<b>6</b>	<b>54</b>	<b>2</b>
JOR	NEGATIVE		2	32	19	
	PENDING					17
<b>JOR Total</b>			<b>2</b>	<b>32</b>	<b>36</b>	
LEB	NEGATIVE		4	27	11	
	PENDING					34
<b>LEB Total</b>			<b>4</b>	<b>27</b>	<b>45</b>	
PAK	NEGATIVE	347	462	523	528	
	PENDING					8
	WILD	79	59	105	137	
	WILD & VDPV2	5	3	1		
	VDPV2	8	5	4		
<b>PAK Total</b>		<b>439</b>	<b>529</b>	<b>633</b>	<b>673</b>	<b>21</b>
SOM	NEGATIVE			34	179	
	PENDING					2
	VDPV2				2	20
	VDPV3					12
<b>SOM Total</b>				<b>36</b>	<b>213</b>	<b>4</b>
SYR	NEGATIVE				4	92
	PENDING					10
<b>SYR Total</b>				<b>4</b>	<b>102</b>	<b>1</b>
<b>Grand Total</b>		<b>1086</b>	<b>1249</b>	<b>1576</b>	<b>1999</b>	<b>55</b>

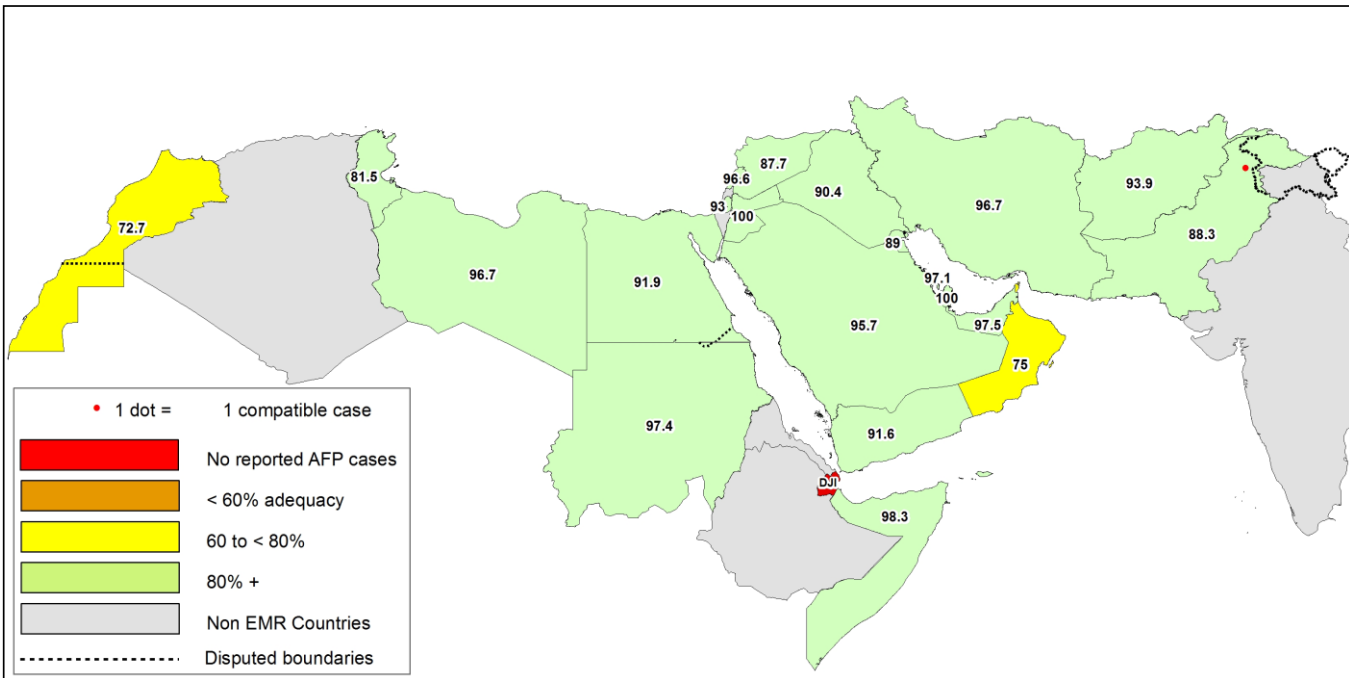
**Table 7: Environmental Wild/VDPV isolate by site**

Country	COUNTRY	Status	PROVINCE	DISTRICT	Count	First date	Last date		
2018	AFG	WILD	HILMAND	LASHKARGAH	10	8-Jan	6-Dec		
			HIRAT	HERAT	1	25-Jun	25-Jun		
			KABUL	KABUL	3	26-Feb	26-Jun		
			KANDAHAR	KANDAHAR	39	8-Jan	6-Dec		
			KHOST	KHOST(MATUN)	1	25-Sep	25-Sep		
			KUNAR	ASADABAD	2	24-Apr	25-Sep		
			NANGARHAR	BEHSUD	3	28-Jan	25-Oct		
			JALALABAD	JALALABAD	17	27-Jan	25-Nov		
	<b>AFG Total</b>				<b>76</b>	<b>8-Jan</b>	<b>6-Dec</b>		
	PAK	WILD	BALOCHISTAN	KABDULLAH	KABDULLAH	2	1-Dec	15-Dec	
				LORALAI	LORALAI	2	17-Mar	17-Aug	
				PISHIN	PISHIN	1	2-Dec	2-Dec	
				QUETTA	QUETTA	13	13-Feb	20-Dec	
				KABDULAH	KABDULAH	6	1-Jan	15-Nov	
				ISLAMABAD	CDA	7	10-Jan	10-Nov	
				PUNJAB	LAHORE	LAHORE	12	11-Jun	18-Dec
					RAWALPINDI	RAWALPINDI	15	10-Jan	14-Dec
					DGKHAN	DGKHAN	2	12-Feb	12-Sep
					SINDH	HYDERABAD	1	9-Feb	9-Feb
				JACOBABAD	JACOBABAD	3	12-Feb	12-Sep	
				KAMBAR	KAMBAR	3	7-Apr	9-Jul	
				KHIBALDIA	KHIBALDIA	2	1-Aug	4-Sep	
				KHIGADAP	KHIGADAP	15	15-Feb	11-Dec	
				KHIKORANGI	KHIKORANGI	1	14-Dec	14-Dec	
				KHILANDHI	KHILANDHI	3	10-Jan	30-Jul	
				KHISITE	KHISITE	2	1-Jan	3-Sep	
				SUKKUR	SUKKUR	2	8-Feb	9-Nov	
				KHILIAQAT	KHILIAQAT	2	7-Mar	7-Nov	
				KHISADDAR	KHISADDAR	1	10-Sep	10-Sep	
				KHIMALIR	KHIMALIR	1	13-Sep	13-Sep	
				FATA	BAJOUR	5	19-May	25-Oct	
	WAZIR-S	WAZIR-S	1	26-Nov	26-Nov				
	KHYBER PAKHTOONKHTWA	BANNU	BANNU	4	31-Mar	27-Dec			
KOHAT		KOHAT	5	5-Jan	27-Sep				
MARDAN		MARDAN	2	15-Oct	15-Nov				
NOWSHERA		NOWSHERA	2	18-Sep	18-Oct				
PESHAWAR		PESHAWAR	22	10-Jan	26-Dec				
<b>PAK Total</b>					<b>137</b>	<b>1-Jan</b>	<b>27-Dec</b>		
SOM	VDPV2	BANADIR	HAMAR WEYN	HAMAR WEYN	11	4-Jan	20-Sep		
			HODAN	HODAN	2	22-Feb	4-Oct		
			WABERI	WABERI	7	1-Mar	11-Oct		
	VDPV3	BANADIR	HAMAR WEYN	HAMAR WEYN	6	11-Feb	5-Apr		
			HODAN	HODAN	1	1-Feb	1-Feb		
			WABERI	WABERI	5	8-Mar	23-Aug		
<b>SOM Total</b>				<b>32</b>	<b>4-Jan</b>	<b>11-Oct</b>			
<b>2018 Total</b>				<b>245</b>	<b>1-Jan</b>	<b>27-Dec</b>			

**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2018 - 31/12/2018**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2018 - 31/12/2018**



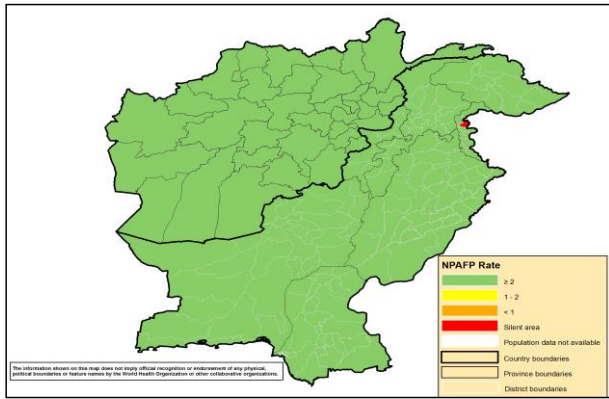
**Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2018 - 2019**

Year	COUNTRY	P1		
		Count	First Case	Last Case
2018	AFG	21	01-01-18	06-11-18
	PAK	10	08-03-18	25-12-18
2018 Total		31	01-01-18	25-12-18

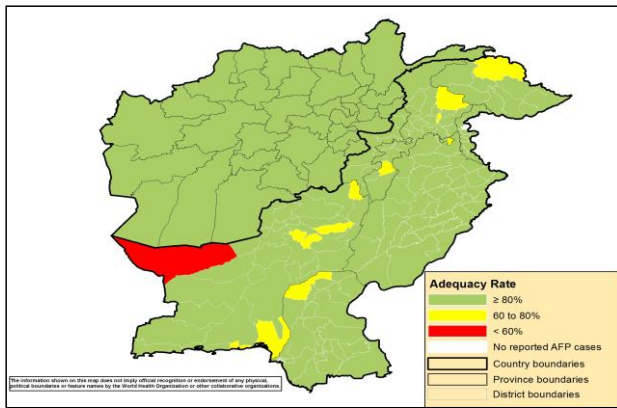
Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012



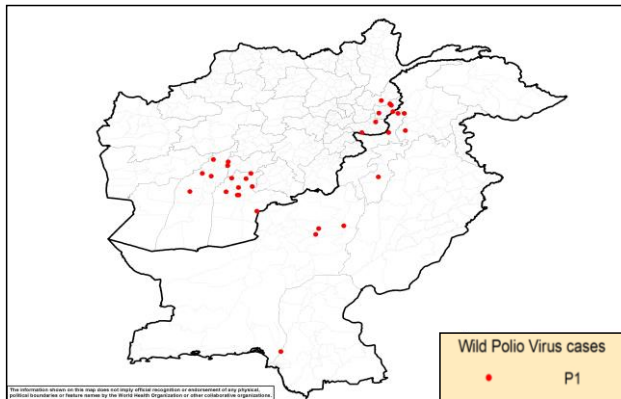
**Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2018 - 31/12/2018**



**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2018 - 31/12/2018**



**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan 01/01/2018 - 31/12/2018**



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**Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2018-2019**

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2018	HILMAND	NAWZAD	3	1-Sep-18	6-Nov-18
		NAD-E-ALI	1	1-Jun-18	1-Jun-18
	URUZGAN	SHAHID-E-HASSAS	2	8-Jul-18	9-Oct-18
	NURISTAN	PORUNS	1	26-Sep-18	26-Sep-18
	KANDAHAR	MAYWAND	1	24-Sep-18	24-Sep-18
		KANDAHAR	2	11-Aug-18	27-Aug-18
		ARGHANDAB (K)	1	17-Jul-18	17-Jul-18
		SHAHWALIKOT	3	5-Jan-18	27-Apr-18
		KHAKREZ	1	25-Feb-18	25-Feb-18
		SPINBOLDAK	1	6-Jan-18	6-Jan-18
	NANGARHAR	PACHIERAGAM	1	17-Jul-18	17-Jul-18
		KAMA	1	1-Jan-18	1-Jan-18
	KUNAR	CHAWKAY	1	22-Jun-18	22-Jun-18
		GHAZIABAD	2	14-Feb-18	3-Mar-18
	2018 Total			21	1-Jan-18

**Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2018-2019**

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2018	FATA	BAJOUR	3	1-Sep-18	25-Dec-18
		KHYBER	1	25-Sep-18	25-Sep-18
	KHYBER PAKHTOON	LAKKIMRWT	1	16-Dec-18	16-Dec-18
		CHARSADA	1	1-Aug-18	1-Aug-18
	SINDH	KHIGADAP	1	22-Sep-18	22-Sep-18
	BALUCHISTAN	DUKKI	3	8-Mar-18	18-May-18
2018 Total			10	8-Mar-18	25-Dec-18

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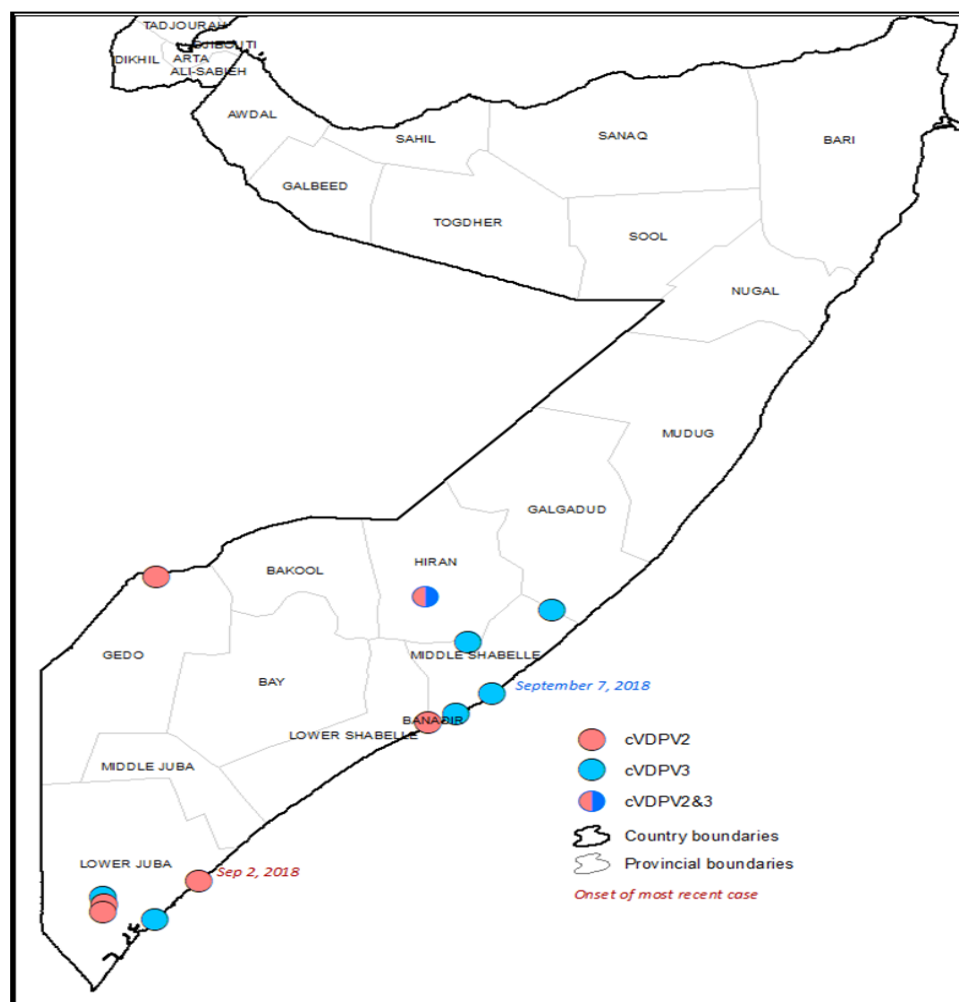
14-Jan-19  
Number 1058

**Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2018-2019**

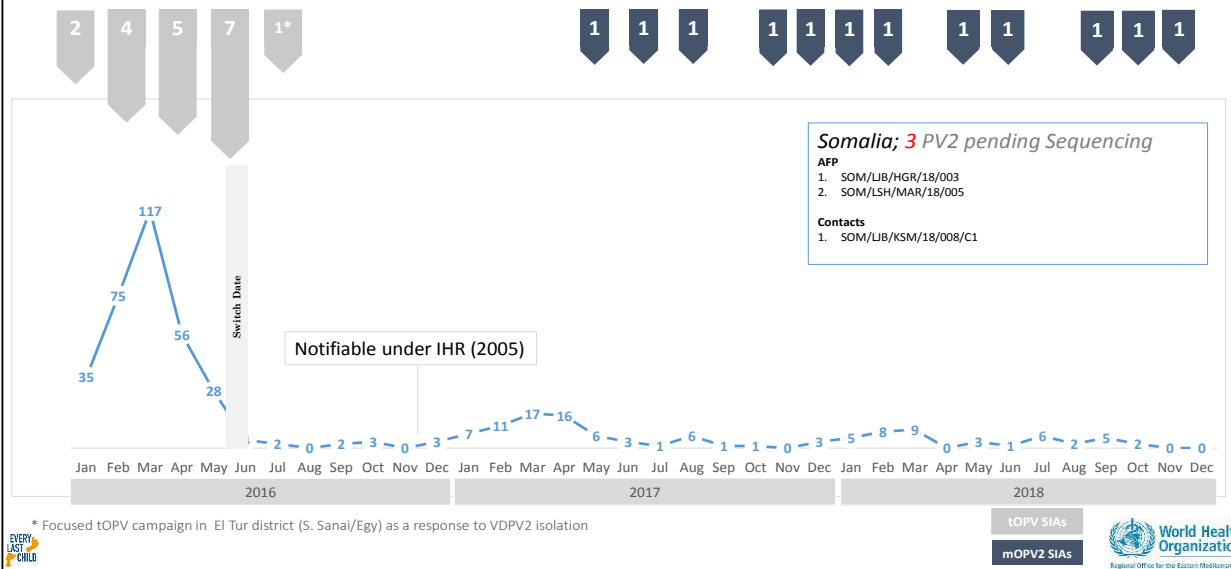
Year	COUNTRY	PROVINCE	DISTRICT	cVDPV2			cVDPV3		
				Count	First Case	Last Case	Count	First Case	Last Case
2018	SOM	LOWER JUBA	Jamaame West	1	02-Sep-18	02-Sep-18			
			KISMAYO	2	29-Jul-18	30-Jul-18	2	24-Jul-18	27-Jul-18
		MIDDLE SHABELLE	RUNINGOD				1	07-Sep-18	07-Sep-18
			MAHADAY WARSHAIKH				1	29-Jun-18	29-Jun-18
		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			
SOM Total				6	11-May-18	2-Sep-18	7	11-May-18	7-Sep-18
<b>2018 Total</b>				<b>6</b>	<b>11-May-18</b>	<b>2-Sep-18</b>	<b>7</b>	<b>11-May-18</b>	<b>7-Sep-18</b>

Somalia in 2018 so far has a total of 12 cVDPV cases (5 cVDPV2, 6 cVDPV3 & 1 coinfection cVDPV2/cVDPV3)

**Figure 6: Somalia cVDPV cases by type and district 01/01/2018 - 13/01/2019**



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



### VDPV2 isolates, EMR countries, 2018

