

## **Highlights of Polio Fax Bulletin No. 1061 for Week 05 2019**

### **I. Poliovirus Transmission**

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

- a. Human samples: Two new wild poliovirus type-1 (WPV1) cases reported this week in 2019, one each from Afghanistan and Pakistan. Total WPV1 cases in 2018 to date remains to be 33 (21 from Afghanistan and 12 from Pakistan) and in 2019 is 2 (1 from Afghanistan and 1 from Pakistan).
  - i. Afghanistan: The first WPV1 case in 2019 was reported this week from Spin Boldak district, Kandahar province, with date of onset 4 January 2019. The case is a 22-month old female child who has received zero routine doses and 7 doses during supplementary immunization activities (SIAs) per recall of parents. 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). In 2019 to date, one case is reported from Kandahar province. The most recent reported case has date of onset of paralysis on 4 January 2019.
  - ii. Pakistan: The first WPV1 case in 2019 was reported this week from Bajour district, Khyber Pakhtunkhwa Tribal District (KPTD), with date of onset 18 January 2019. The case is an 11-month old male child who has received 3 routine doses and 7+ doses during supplementary immunization activities (SIAs) per recall of parents. The total number of WPV1 cases in Pakistan in 2018 to date remains 12 from six infected districts in four provinces (Balochistan-3 cases, Khyber Pakhtunkhwa (KP)-2 cases and KPTD-6 cases and Sindh-1 case). In 2019 to date, one case is reported from KPTD province. The most recent reported case has date of onset of paralysis on 18 January 2019.
- b. Environmental samples: 7 new positive environmental samples for WPV1 were reported this week from Pakistan.
  - i. Afghanistan: The total positive environmental samples from Afghanistan in 2018 remains to date to be 83 while in 2019 to date total positive environmental samples for WPV1 remains to be 5, with most recent positive sample collected on 6<sup>th</sup> January 2019.
  - ii. Pakistan: All of the seven new positive environmental samples reported this week were collected in 2019. These include one from the newly infected Dera Ismail Khan district, from KP; one each from Quetta and Kil Abdullah districts, from Balochistan province; one from Karachi town Gadap, from Sindh province; and two from Lahore district and one from the newly infected district Faisalabad, from Punjab province. The total positive environmental samples from Pakistan in 2018 to date remains to be 139. In

2019 to date, there are 19 positive environmental samples with most recent positive sample collected on 18 January 2019.

## II. Outbreak response countries

1. **SOMALIA:** no new circulating vaccine derived poliovirus (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 to date 19 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 73.7%
  - c. Oman has a percentage of AFP cases with adequate stool specimens of 75%
2. Yemen has 72 AFP cases which are not yet finally classified in 2017.

## AFP SURVEILLANCE

4-Feb-19

Week 05, ending 3 February 2019

Number 1061

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

Country	Reported AFP cases by week of onset - Week (05/19) / Ending on : 03/02/2019														
	Total AFP 2017	Total AFP 2018	Total AFP to date, 2019	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	W03 20 Jan 19	W04 27 Jan 19	W05 03 Feb 19
Afghanistan	3094	3376	290	61	50	66	70	53	47	51	77	76	75	53	11
Bahrain	18	35	2	0	2	1	0	1	1	0	0	1	0	1	0
Djibouti	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	1242	1246	107	22	26	16	21	19	23	13	28	27	30	23	0
Iran	820	896	51	17	15	23	23	19	21	19	17	17	11	6	0
Iraq	699	1023	100	24	27	22	35	25	20	21	18	31	44	10	0
Jordan ****	116	115	14	0	0	0	3	1	3	1	4	4	1	5	0
Kuwait	69	73	5	3	2	4	2	1	4	0	1	1	1	1	1
Lebanon ****	75	89	8	2	0	5	2	1	0	2	2	2	3	0	1
Libya	88	122	7	1	1	2	3	2	2	2	3	3	2	0	0
Morocco	143	213	6	7	4	2	8	3	4	5	5	2	0	0	0
Oman	40	28	0	0	0	1	0	0	1	0	0	0	0	0	0
Pakistan	10319	12168	792	252	255	282	296	274	207	234	247	256	263	53	0
Palestine ****	43	43	0	0	0	1	0	1	0	0	0	0	0	0	0
Qatar	18	10	0	0	0	0	0	0	0	1	0	0	0	0	0
Saudi Arabia	276	241	9	10	9	6	5	5	11	2	5	3	2	0	0
Somalia	345	353	16	6	4	3	7	4	7	5	6	5	2	4	0
Sudan	570	578	39	10	9	6	8	8	10	6	10	19	8	2	0
Syria ****	362	361	23	8	5	10	6	7	6	11	4	11	5	4	0
Tunisia	67	65	1	0	0	1	0	0	0	0	1	0	0	0	0
U.A.E	58	40	4	0	0	1	1	1	0	0	2	0	2	0	0
Yemen	713	730	50	13	16	18	13	12	14	15	21	7	14	9	0
<b>Total EMR</b>	<b>19179</b>	<b>21805</b>	<b>1524</b>	<b>436</b>	<b>425</b>	<b>470</b>	<b>503</b>	<b>437</b>	<b>381</b>	<b>388</b>	<b>451</b>	<b>465</b>	<b>463</b>	<b>171</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	03/02		Confirmed polio cases by month of onset											
			2018	2019	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019
Afghanistan	14	21	3	1	1	1	0	2	3	2	3	2	1		1	
Bahrain	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	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			
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	8	12	0	1	1	1	1	0	0	1	3	1	0	4	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	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	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												
<b>Total EMR</b>	<b>22</b>	<b>33</b>	<b>3</b>	<b>2</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>4</b>	<b>2</b>	<b>0</b>

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

## World Health Organization – Regional Office for Eastern Mediterranean

## AFP SURVEILLANCE

Week 05, ending 03 February 2019

4-Feb-19

Number 1061

Table 3: Investigation of AFP cases with paralysis onset in 2018 &amp; 2019 up to Week (05/19) / Ending on : 03/02/2019

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		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	3376	21	0	45	3310	0	16.6	15	2	93.7	21	0	290	1	0	202	87	0	15.3	0	0	96.9	1	0	03/02/2019
Bahrain	35	0	0	11	24	0	12.1	4	0	97.1	0	0	2	0	0	2	0	0	7.4	0	0	100.0	0	0	03/02/2019
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	09/12/2018
Egypt	1246	0	0	24	1221	1	3.2	9	0	93.1	0	0	107	0	0	93	14	0	3.0	0	0	73.8	0	0	31/01/2019
Iran	896	0	0	3	892	1	4.6	0	0	97.1	0	0	51	0	0	34	17	0	2.9	0	0	98.0	0	0	03/02/2019
Iraq	1023	0	0	36	987	0	6.7	12	0	89.8	0	0	100	0	0	60	40	0	7.0	0	0	98.0	0	0	01/02/2019
Jordan	115	0	0	0	115	0	4.1	0	0	100.0	0	0	14	0	0	6	8	0	5.4	0	0	100.0	0	0	31/01/2019
Kuwait	73	0	0	0	73	0	8.2	0	0	89.0	0	0	5	0	0	3	2	0	6.1	0	0	60.0	0	0	03/02/2019
Lebanon	89	0	0	4	85	0	4.8	2	0	96.6	0	0	8	0	0	8	0	0	4.6	0	0	62.5	0	0	01/02/2019
Libya	122	0	0	1	121	0	4.9	0	0	96.7	0	0	7	0	0	7	0	0	3.0	0	0	100.0	0	0	26/01/2019
Morocco	213	0	0	80	133	0	2.4	53	8	73.7	0	0	6	0	0	6	0	0	0.6	0	0	50.0	0	0	18/01/2019
Oman	28	0	0	0	28	0	3.2	0	0	75.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	04/02/2019
Pakistan	12168	12	1	237	11918	0	15.6	81	0	87.7	12	0	792	1	0	425	366	0	10.8	0	0	96.3	1	0	03/02/2019
Palestine	43	0	0	2	41	0	2.3	0	0	93.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	24/01/2019
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	03/02/2019
Saudi Arabia	241	0	0	47	194	0	3.0	6	0	95.9	0	0	9	0	0	9	0	0	1.2	0	0	88.9	0	0	31/01/2019
Somalia	353	0	0	4	337	12	5.5	1	1	97.7	0	0	16	0	0	11	5	0	2.7	0	0	100.0	0	0	03/02/2019
Sudan	578	0	0	3	575	0	3.2	0	0	97.2	0	0	39	0	0	15	24	0	2.3	0	0	97.4	0	0	03/02/2019
Syria	361	0	0	6	355	0	4.7	0	0	87.5	0	0	23	0	0	19	4	0	3.2	0	0	91.3	0	0	02/02/2019
Tunisia	65	0	0	0	65	0	2.4	0	0	81.5	0	0	1	0	0	0	1	0	0.4	0	0	100.0	0	0	25/01/2019
U.A.E	40	0	0	3	37	0	3.2	0	0	97.5	0	0	4	0	0	4	0	0	3.4	0	0	100.0	0	0	30/01/2019
Yemen	730	0	0	640	90	0	5.2	521	480	91.6	0	0	50	0	0	50	0	0	3.8	0	0	92.0	0	0	02/02/2019
EMR	21805	33	1	1147	20610	14	8.7	704	491	90.1	33	0	1524	2	0	954	568	0	6.5	0	0	94.4	2	0	
2017	19179	22	3	72	19006	46	7.5	72	58	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

World Health Organization – Regional Office for Eastern Mediterranean  
AFP SURVEILLANCE  
Week 05, ending 03 February 2019

4-Feb-19  
Number 1061

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	0	118	0	0	3	6	44
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	58	17	44	0	0	0	0	29
IRN	145	0	0	3	6	0	3	0	0	0	0	0
IRQ	811	0	0	22	93	9	63	0	0	0	1	31
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	16	20	1	0	0	0	0	1
LIB	1	0	0	0	0	0	0	0	0	0	0	0
MOR	148	0	0	0	9	9	4	0	0	0	0	4
OMA	71	0	0	2	16	0	0	0	0	0	0	0
PAK	4208	3	0	207	882	0	390	0	0	4	9	161
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	128	28	42	0	0	0	1	30
SUD	350	0	0	3	24	88	16	0	0	0	1	13
SYR	670	0	0	8	17	0	58	0	0	0	2	33
TUN	0	0	0	0	0	0	2	0	0	0	0	0
UAE	0	0	0	0	0	0	0	0	0	0	0	0
YEM	1557	0	0	0	0	1557	97	0	0	0	0	97
<b>EMR</b>	<b>10733</b>	<b>7</b>	<b>10</b>	<b>360</b>	<b>1466</b>	<b>1733</b>	<b>838</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>20</b>	<b>443</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>

World Health Organization – Regional Office for Eastern Mediterranean  
AFP SURVEILLANCE

Week 05, ending 03 February 2019

4-Feb-19

Number 1061

**Table 5: Laboratory investigation of AFP cases with paralysis onset in 2019 up to Week (05/2019) / Ending on : (03/02/2019)**

Country	Polio laboratories  (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+INPEV			received < / = 14 days	received > 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV									
Afghanistan	RRL Pakistan	255	7		14	89		144	1		1	5									10%	100%	100%	100%	02/02/2019	
Bahrain	NPL Oman / CDC																								04/02/2019	
Djibouti	NPL Kenya / CDC																								09/12/2018	
Egypt***	RRL Egypt	92			4	23		48	17												11%	96%		100%	31/01/2019	
Iran	NPL Iran / CDC																								02/02/2019	
Iraq	RRL Egypt	101	1		5	36		59													10%	100%			31/01/2019	
Jordan	NPL Jordan / RRL EGYPT	15			4	7		4													36%	100%			03/02/2019	
Kuwait	RRL Kuwait / RIVM	6			1	1		3	1												40%	100%		100%	31/01/2019	
Lebanon	NPL Jordan / RRL EGYPT	3						3																	03/02/2019	
Libya	RRL Tunisia / RIVM	7						7																	02/02/2019	
Morocco	NPL Morocco / RRL Tunisia	10				5		5													5%	100%		100%	01/02/2019	
Oman	NPL Oman / CDC	1						1																	04/02/2019	
Pakistan	RRL Pakistan	803	4		19	351		417	13		1	1									3%	100%	100%	100%	02/02/2019	
Palestine & UNRWA																										24/01/2019
Qatar	NPL Oman / CDC	1				1																0%	100%		100%	04/02/2019
Saudi Arabia	NPL Saudi Arabia / CDC	3							3																100%	27/01/2019
Somalia	NPL Kenya / CDC	16			1	4		5	6												20%	20%		100%	03/02/2019	
Sudan	NPL Sudan / RRL Egypt	41			5	19		17	2												19%	100%			03/02/2019	
Syria	NPL Syria / RRL Egypt	24				6		15	3												4%	100%			31/01/2019	
Tunisia	RRL Tunisia	6				2		4													22%	100%		100%	02/02/2019	
U.A.E	NPL Oman / CDC																									04/02/2019
Yemen	NPL Kenya / CDC																									02/02/2019
<b>Total EMR 2019</b>		1384	12		53	544		732	46		2	6									7%	99%	100%	100%		
<b>Total EMR 2018</b>		20606	894	89	3500	16034		28	58		29	579	2		5	6 #					14%	92%	99%	97%		
* Specimens from all sources including non-AFP cases, excluding environmental samples										# Somalia in 2018 so far has a total of 12 cVDPV cases (5 cVDPV2, 6 cVDPV3 & 1 coinfection cVDPV2/cVDPV3)																
** This indicator reflects surveillance and laboratory activities																										

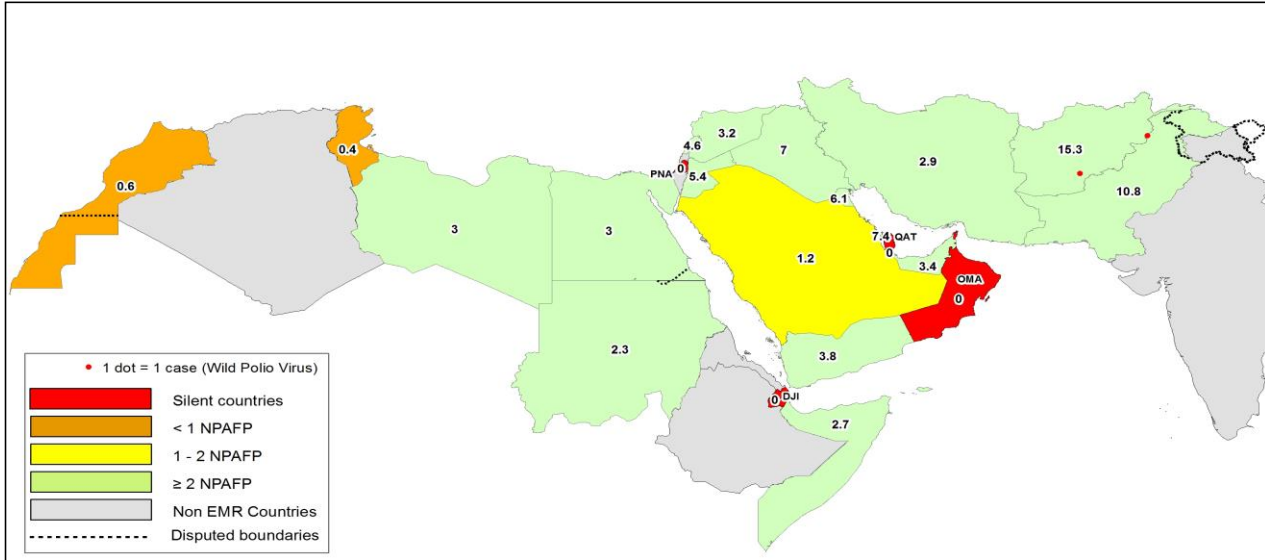
**Table 6: Environmental isolate by year and type**

Country	Status	2015	2016	2017	2018	2019
AFG	NEGATIVE	129	183	274	253	1
	PENDING					21
	WILD	20	2	42	83	5
<b>AFG Total</b>		<b>149</b>	<b>185</b>	<b>316</b>	<b>336</b>	<b>27</b>
EGY	NEGATIVE	495	528	522	539	21
	PENDING				1	26
	VDPV2	3	1			
<b>EGY Total</b>		<b>498</b>	<b>529</b>	<b>522</b>	<b>540</b>	<b>47</b>
IRN	NEGATIVE			6	54	4
	PENDING					4
<b>IRN Total</b>				<b>6</b>	<b>54</b>	<b>8</b>
JOR	NEGATIVE		2	32	19	
	PENDING				17	5
<b>JOR Total</b>			<b>2</b>	<b>32</b>	<b>36</b>	<b>5</b>
LEB	NEGATIVE		4	27	11	
	PENDING					34
<b>LEB Total</b>			<b>4</b>	<b>27</b>	<b>45</b>	<b>3</b>
PAK	NEGATIVE	347	462	523	534	14
	PENDING					25
	WILD	79	59	105	139	19
	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>58</b>
SOM	NEGATIVE				34	181
	PENDING					7
	VDPV2				2	20
	VDPV3					12
<b>SOM Total</b>				<b>36</b>	<b>213</b>	<b>12</b>
SYR	NEGATIVE			4	97	4
	PENDING					5
<b>SYR Total</b>				<b>4</b>	<b>102</b>	<b>12</b>
<b>Grand Total</b>		<b>1086</b>	<b>1249</b>	<b>1576</b>	<b>1999</b>	<b>172</b>

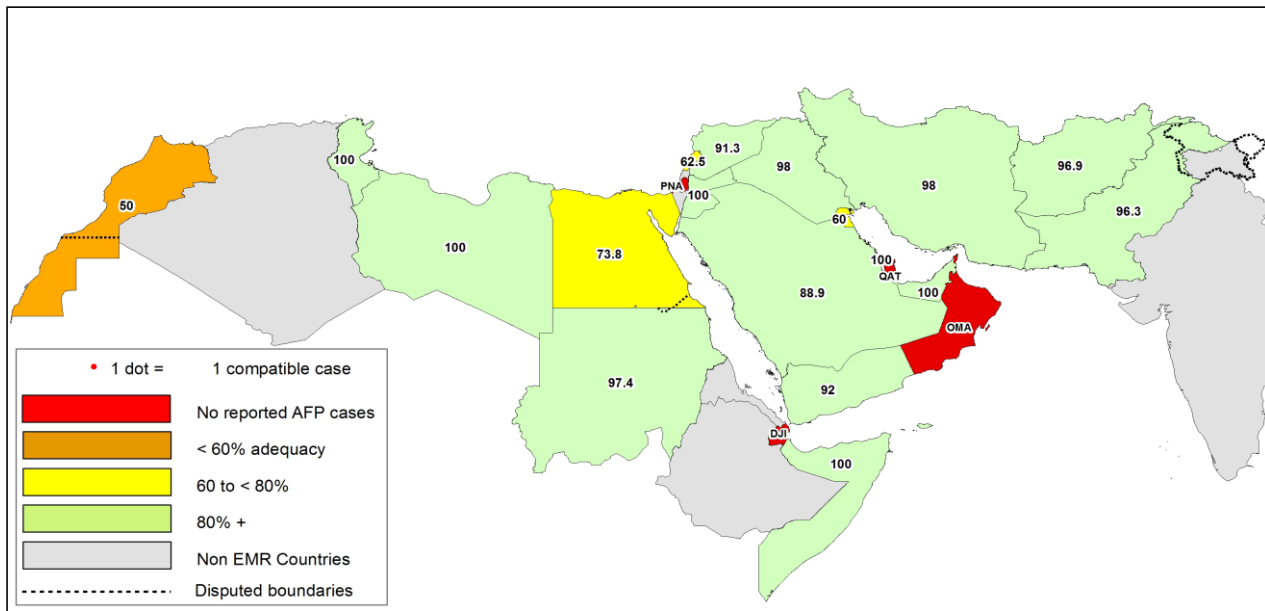
**Table 7: Environmental Wild/VDPV isolate by site**

Country	COUNTRY	Status	PROVINCE	DISTRICT	Count	First date	Last date		
2018	AFG	WILD	HILMAND	LASHKARGAH	12	8/Jan	26/Dec		
				HERAT	1	25/Jun	25/Jun		
				KABUL	3	26/Feb	26/Jun		
				KANDAHAR	42	8/Jan	26/Dec		
				MATUN	1	25/Sep	25/Sep		
				ASADABAD	2	24/Apr	25/Sep		
				BEHSUD	3	28/Jan	25/Oct		
				JALALABAD	19	27/Jan	26/Dec		
	<b>AFG Total</b>				<b>83</b>	<b>8/Jan</b>	<b>26/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	
				CDA	CDA	7	10/Jan	10/Nov	
				PUNJAB	LAHORE	12	11/Jun	18/Dec	
					RAWALPINDI	15	10/Jan	14/Dec	
					DGKHAN	2	12/Feb	12/Sep	
					HYDERABAD	1	9/Feb	9/Feb	
				SINDH	JACOBABAD	3	12/Feb	12/Sep	
					KAMBAR	3	7/Apr	9/Jul	
					KHIBALDIA	2	1/Aug	4/Sep	
					KHIGADAP	15	15/Feb	11/Dec	
					KHIKORANGI	1	14/Dec	14/Dec	
					KHILANDHI	3	10/Jan	30/Jul	
					KHISITE	2	1/Jan	3/Sep	
					SUKKUR	2	8/Feb	9/Nov	
KHILIAQAT				2	7/Mar	7/Nov			
KHISADDAR				1	10/Sep	10/Sep			
KHIMALIR	1	13/Sep	13/Sep						
BAJOUR	5	19/May	25/Oct						
FATA	WAZIR-S	2	26/Nov	27/Dec					
	BANNU	4	31/Mar	27/Dec					
KHYBER PAKHTUNKHWA	KOHAT	5	5/Jan	27/Sep					
	MARDAN	2	15/Oct	15/Nov					
	NOWSHERA	2	18/Sep	18/Oct					
	PESHAWAR	23	10/Jan	26/Dec					
<b>PAK Total</b>				<b>139</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		
			HAMAR WEYN	HAMAR WEYN	6	11/Feb	5/Apr		
			HODAN	HODAN	1	1/Feb	1/Feb		
VDPV3	BANADIR	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>254</b>	<b>1/Jan</b>	<b>27/Dec</b>			
2019	AFG	WILD	HILMAND	NAHR-E-SARAJ	1	6/Jan	6/Jan		
			KANDAHAR	KANDAHAR	4	6/Jan	6/Jan		
	<b>AFG Total</b>				<b>5</b>	<b>6/Jan</b>	<b>6/Jan</b>		
	PAK	WILD	BALOCHISTAN	KABDULLAH	KABDULLAH	2	1/Jan	15/Jan	
				QUETTA	QUETTA	2	1/Jan	12/Jan	
				DIKHAN	DIKHAN	1	8/Jan	8/Jan	
				PESHAWAR	PESHAWAR	1	11/Jan	11/Jan	
				FAISALABAD	FAISALABAD	1	3/Jan	3/Jan	
				LAHORE	LAHORE	4	5/Jan	18/Jan	
				RAWALPINDI	RAWALPINDI	2	10/Jan	10/Jan	
				SINDH	KHIBALDIA	KHIBALDIA	1	2/Jan	2/Jan
					KHIGADAP	KHIGADAP	3	8/Jan	15/Jan
					KHISITE	KHISITE	1	3/Jan	3/Jan
					KHISADDAR	KHISADDAR	1	7/Jan	7/Jan
<b>PAK Total</b>							<b>19</b>	<b>1/Jan</b>	<b>18/Jan</b>
<b>2019 Total</b>				<b>24</b>	<b>1/Jan</b>	<b>18/Jan</b>			

**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2019 - 03/02/2019**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2019 - 03/02/2019**



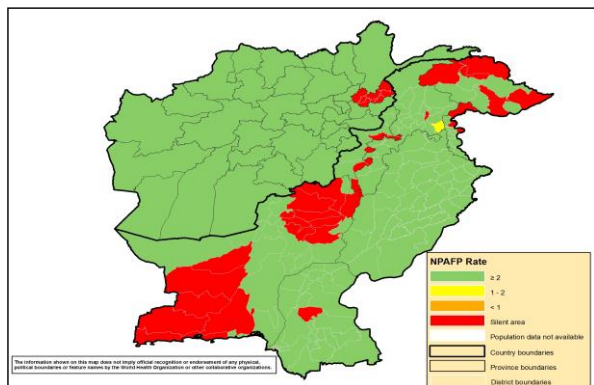
**Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2018 - 2019**

Year	COUNTRY	Count	First Case	Last Case
2018	AFG	21	1-Jan-18	6-Nov-18
	PAK	12	8-Mar-18	31-Dec-18
2018 Total		33	1-Jan-18	31-Dec-18
2019	AFG	1	4-Jan-19	4-Jan-19
	PAK	1	18-Jan-19	18-Jan-19
2019 Total		2	4-Jan-19	18-Jan-19

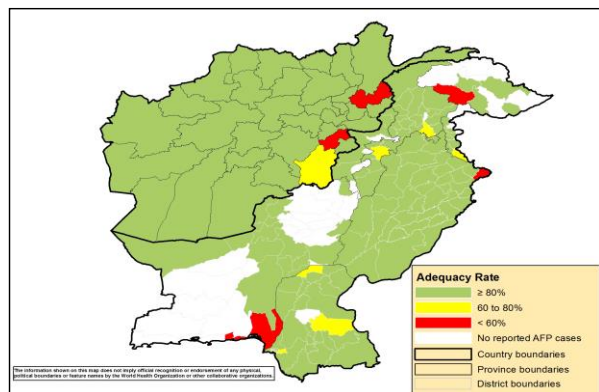
Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012



**Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2019 - 03/02/2019**

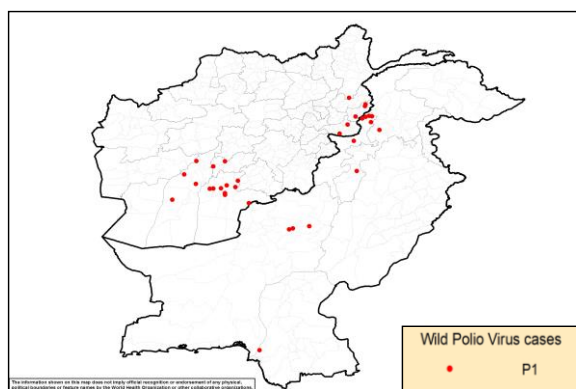


**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2019 - 03/02/2019**

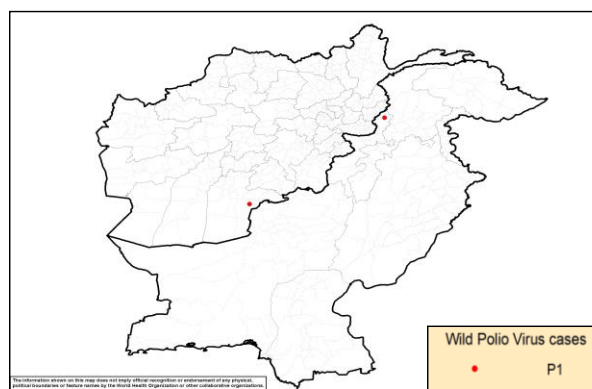


**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan**

**5(a) 01/01/2018 - 31/12/2018**



**5(b) 01/01/2019 - 03/02/2019**



World Health Organization – Regional Office for Eastern Mediterranean  
 AFP SURVEILLANCE  
 Week 05, ending 03 February 2019

4-Feb-19  
 Number 1061

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		
<b>2018 Total</b>			<b>21</b>	<b>1-Jan-18</b>	<b>6-Nov-18</b>	
2019	KANDAHAR	SPINBOLDAK	1	4-Jan-19	4-Jan-19	
<b>2019 Total</b>			<b>1</b>	<b>4-Jan-19</b>	<b>4-Jan-19</b>	

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	5	1-Sep-18	31-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	
<b>2018 Total</b>			<b>12</b>	<b>8-Mar-18</b>	<b>31-Dec-18</b>	
2019	FATA	BAJOUR	1	18-Jan-19	18-Jan-19	
<b>2019 Total</b>			<b>1</b>	<b>18-Jan-19</b>	<b>18-Jan-19</b>	

**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				1	29-Jun-18	29-Jun-18
			WARSHEIKH				2	16-May-18	23-May-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				
<b>SOM 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>
<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 - 03/02/2019**

