

## Highlights of Polio Fax Bulletin No. 1170 for Week 09 2021

### I. Salient features this week

1. Polio eradication teams at the Regional and Country levels continue to contribute to the COVID19 Response, particularly in areas of surveillance (field and laboratory), data analysis, communications and coordination.
2. No new wild poliovirus cases reported this week, but six new positive environmental samples collected in 2021 all from Pakistan were reported.
3. No new cVDPV1 cases reported this week.
4. Eight new cVDPV2 cases (Afghanistan 7 and Sudan 1) three reported in 2020 and five in 2021 in addition to 15 new cVDPV2 positive environmental samples all collected in 2021 from Afghanistan (10) and Pakistan (5) were reported this week.
5. New VDPV2 from Egypt collected in 2021 was reported this week.

### II. Wild Poliovirus Type-1 (WPV1) Transmission

WPV1 transmission continues though restricted globally to only two countries in the EMR namely Pakistan and Afghanistan – the remaining polio endemic countries in the world.

As of week 09 of 2021, two WPV1 cases were reported [43 in the same period in 2020; Afghanistan – 7, Pakistan - 36].

- a. *Human samples:* No new wild poliovirus cases reported this week, but six positive environmental samples reported from Pakistan collected in 2021.

#### Afghanistan:

In 2021 to date, **1 WPV1** case has been reported so far from Southeast Region with onset of paralysis **1 January 2021**. In 2020, **56 WPV1 cases** have been reported: 38 cases from South Region; 8 from West Region; 6 from Southeast Region; 2 from East Region; and one each from North and Badakhshan Regions. **The most recent case has onset of paralysis on 19 October 2020.**

#### Pakistan:

In 2021 to date, **1 WPV1** case has been reported so far from Balochistan province with date of onset **27 January 2021**. In 2020, **84 WPV1** cases are reported, 26 from Balochistan province, 22 cases each from Khyber Pakhtunkhwa (KP) and Sindh provinces, and 14 from Punjab. **The most recent case has onset of paralysis on 23 November 2020.**

- b. *Environmental samples:* Six new WPV1 positive environmental samples from Pakistan in 2021 reported this week.
  - **Afghanistan:** In 2021 to date, there are no wild poliovirus positive environmental samples reported. In 2020, there are **35** WPV1 positive environmental samples including seven combined (WPV1 and cVDPV2) with most recent sample collected on 6 December 2020.
  - **Pakistan:** In 2021, there are **38** WPV1 positive environmental samples (including 7 mixture of WPV1 and cVDPV2 and 3 mixture of WPV1 and aVDPV2) with most recent sample collected on 20 February 2021. In 2020, there are **435** WPV1 positive environmental samples including 91 mixture of WPV1 and cVDPV2 and 6 mixtures of WPV1 and aVDPV2. Most recent positive sample collected on 28 December 2020.

- III. **Vaccine Derived Polioviruses (VDPVs):** Eight new cVDPV2 cases reported (3 in 2020 and 5 in 2021) from Afghanistan (7) and Sudan (1); fifteen new cVDPV2 positive environmental samples all collected in 2021 from Afghanistan (10) and Pakistan (5). One new VDPV2 from Egypt in 2021 are all reported this week.

In 2021, 17 cVDPV2 cases were reported (Afghanistan 11 and Pakistan 6). In 2020, a total of 29 cVDPV1 cases reported from Yemen and a total number of 514 cVDPV2 cases (307 from Afghanistan, 135 from Pakistan, 14 from Somalia and 58 from Sudan).

1. **Outbreaks:** Six countries have VDPVs outbreaks, five with cVDPV2 and one with cVDPV1.

**Afghanistan:** Seven new cVDPV2 cases (two in 2020 and five in 2021) reported this week and ten new positive environmental samples collected in 2021.

The seven newly reported cVDPV2 cases are: two from South Region (Kandahar and Uruzgan provinces) with dates of onset on 16 and 22 December 2020, respectively and five cVDPV2 cases in 2021 two from South Region (Zabul and Hilmand provinces) and one each from West Region (Farah province), South East Region (Ghazni province) and North Region (Faryab province). The dates of onset of the 2021 cases vary between 5-28 January 2021.

In 2021 to date, there are **11 cVDPV2** cases: five from West Region, three from South Region, two from South East Region and one from North Region. **The most recent case had onset on 28 January 2021.**

In 2020, there are **307 cVDPV2** cases; 144 from South Region, 70 reported from East Region, 34 from Southeast Region, 30 from West Region, 17 from Central Region, seven from North Region, four from Northeast Region and one from Badakhshan Region. **The most recent case had onset on 30 December 2020.**

**Environment:** In 2021 to date, there are **19** cVDPV2 positive environmental samples reported with **most recent sample collected on 6 February 2021.**

In 2020, **174** cVDPV2 positive environmental samples including 7 mixture of WPV1 and cVDPV2 were reported. **The most recent cVDPV2 positive environmental sample was collected on 27 December 2020.**

**Egypt:** One new VDPV2 positive environmental sample was collected from Giza province (Al Haram site) with collection date on 31 January 2021 – The isolate is genetically related with earlier viruses seen in Qena province - final classification awaited.

In 2021, **Seven** VDPV2 (six cVDPV2 + one VDPV2) positive samples collected two from Aswan province and one each from Alexandria, Quena, Beni Suef, Kafr El Sheikh and Giza provinces. The samples are genetically related with each other and belong to CHA-NDG-1 emergence (importation from Sudan/Chad). **Date of the recent most VDPV2 positive environmental sample is 9 February 2021.**

**Pakistan:** No new VDPV cases reported, but five new cVDPV2 positive environmental samples collected in 2021 were reported this week.

In 2021, there is **six** cVDPV2 cases reported two each from Sindh and Balochistan provinces and one each from KP and Punjab provinces with **most recent onset on 14 January 2021.** In 2020, there are **135** cVDPV2 cases reported: 45 from Sindh province, 42 from KP, 25 from Punjab and 23 from Balochistan, with **most recent case's onset on 24 December 2020.**

**Environment:** In 2021 to date; there are **14** cVDPV2 positive samples including seven mixture of WPV1 and cVDPV2 with **most recent sample collected on 9 February 2021.**

In 2020, there are **135** cVDPV2 positive environmental samples (including 91 mixture of WPV1 and cVDPV2), the **most recent sample collected on 28 December 2020.**

**SOMALIA:** No new VDPV cases or positive environmental samples reported.

In 2020 to date, **14** cVDPV2 cases reported, seven from Banadir province, two from Bay and one each from Lower Juba, Middle Shabelle, Galbeed, Hiran and Awdal provinces, with **most recent date of onset 25 October 2020.**

Also, there are **26** cVDPV2 positive environmental samples reported, the most recent collected on 24 October 2020.

**SUDAN:** One new cVDPV2 case reported in 2020 this week and no new positive environmental samples were reported.

The newly reported cVDPV2 case is from Alwaha locality, North Darfur State, with date of onset 13 December 2020. In 2020 to date, **58** cVDPV2 cases reported. **The most recent case has onset of paralysis on 18 December 2020.**

A total of **14** environmental samples have been positive for cVDPV2 so far, all from Khartoum with most recent collection on 9 November 2020.

**YEMEN:** No new VDPV cases reported this week.

In 2020, **29** cVDPV1 cases are reported. 28 cases are from Saadah province and 1 case from Sana'a City province. **The most recent case has onset of paralysis on 25 September 2020.**

2. **VDPV Events:** There is one country having an Event due to VDPV2. Response per WHO's SOPs are ongoing.

**Iran:** In 2020, Iran reported 3 cVDPV2 positive environmental samples, one from Zaboul district (Zaboul site) and two from Zehedan district (Shirabad site), Sistan & Balochistan province. The isolates are genetically related with earlier viruses seen in Afghanistan and Pakistan. **Date of most recent sample collection is 25 December 2020.**

#### IV. Surveillance performance indicators

In 2020, 14 out of 22 member states are meeting the global target of both key surveillance indicators: non polio AFP rate of 2/100,000 children aged below 15 years and percent AFP cases with adequate specimen 80% and above.

- Morocco and Tunisia are missing both indicators as their non-polio AFP rates are 0.9 and 1.3 and their percentage of AFP cases with adequate stool specimens is 70.9%, and 57.9%, respectively.
- Djibouti, Jordan, Oman, Palestine and United Arab Emirates have a non-polio AFP rate of 1.4, 0.8, 1.9, 0.9 and 1.5 respectively.
- Qatar has AFP cases with adequate stool specimens is 33.3%.

## World Health Organization – Regional Office for Eastern Mediterranean

## AFP SURVEILLANCE

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

Country	Reported AFP cases by week of onset - Week (09/21) / Ending on : 07/03/2021														
	Total AFP 2019	Total AFP 2020	Total AFP to date, 2021	W51 20 Dec 20	W52 27 Dec 20	W53 03 Jan 21	W01 10 Jan 21	W02 17 Jan 21	W03 24 Jan 21	W04 31 Jan 21	W05 07 Feb 21	W06 14 Feb 21	W07 21 Feb 21	W08 28 Feb 21	W09 7 Mar 21
Afghanistan	3768	3971	635	77	60	71	90	90	65	61	83	80	78	43	4
Bahrain	17	15	0	1	0	0	0	0	0	0	0	0	0	0	0
Djibouti	5	5	2	0	0	0	0	0	2	0	0	0	0	0	0
Egypt	1343	1009	174	38	9	12	12	13	29	21	27	23	15	22	3
Iran	1070	618	83	15	13	25	11	13	12	18	9	6	0		
Iraq	1157	476	150	13	11	12	16	24	27	18	16	14	15	7	5
Jordan ****	113	32	2	0	0	0	1	0	0	1	0	0	0	0	
Kuwait	48	36	6	1	1	0	2	0	1	2	1	0	0	0	
Lebanon ****	87	49	5	1	0	1	1	0	1	0	0	2	0		
Libya	107	95	9	2	0	1	0	1	1	1	1	1	3	0	
Morocco	247	86	7	0	0	0	0	0	2	0	1	2	2		
Oman	30	22	1	0	1	0	0	0	1	0	0	0	0	0	
Pakistan	15218	11949	1653	188	204	194	261	222	217	203	206	227	179	46	2
Palestine ****	62	16	3	1	0	1	0	1	0	0	1	0	0	0	
Qatar	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	236	200	35	8	6	6	6	7	2	6	1	9	2	0	0
Somalia	361	376	47	7	4	2	4	3	10	11	7	7	4	0	
Sudan	608	733	106	9	14	14	17	10	16	12	16	9	9	7	
Syria ****	377	343	45	3	6	0	3	6	3	7	7	5	5	8	1
Tunisia	79	38	2	0	0	2	0	0	0	0	0	0	0	0	
U.A.E	50	19	2	0	0	0	1	1	0	0	0	0	0		
Yemen	779	825	118	16	13	14	14	14	12	23	18	12	13	5	
<b>Total EMR</b>	<b>25771</b>	<b>20922</b>	<b>3085</b>	<b>380</b>	<b>342</b>	<b>355</b>	<b>439</b>	<b>405</b>	<b>401</b>	<b>384</b>	<b>394</b>	<b>397</b>	<b>325</b>	<b>138</b>	<b>15</b>

No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2019	Total year 2020	07/03		Confirmed polio cases by month of onset											
			2020	2021	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021
Afghanistan	29	56	7	1	0	12	10	7	6	6	3	0	0	1		
Bahrain	0	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	0	0	0	0	0	0
Egypt	0	0	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	0	0
Iraq	0	0	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	0	0
Kuwait	0	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	0	0
Libya	0	0	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	0	0
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	147	84	36	1	6	6	6	6	5	7	4	2		1		
Palestine ****	0	0	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	0	0
Saudi Arabia	0	0	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	0	0
Sudan	0	0	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	0	0
Tunisia	0	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	0	0
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total EMR</b>	<b>176</b>	<b>140</b>	<b>43</b>	<b>2</b>	<b>6</b>	<b>18</b>	<b>16</b>	<b>13</b>	<b>11</b>	<b>13</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</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 2020 &amp; 2021 up to Week (09/21) / Ending on : 07/03/2021)

COUNTRY	2020												2021												Latest line List Date				
	AFP										Specimen		Wild cases ****		AFP											Specimen		Wild cases ****	
	Total AFP cases onset 2020	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 2021	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	3971	56	1	28	3575	314 #	18.5	14	0	92.6	56	0	635	1	0	193	430	11 #	16.6	0	0	94.0	1	0	07/03/2021				
Bahrain	15	0	0	0	15	0	5.0	0	0	93.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	28/02/2021				
Djibouti	5	0	0	1	4	0	1.4	1	1	100.0	0	0	2	0	0	2	0	0	3.0	0	0	100.0	0	0	07/03/2021				
Egypt	1009	0	0	8	1001	0	2.6	5	0	94.6	0	0	174	0	0	73	101	0	2.5	0	0	78.2	0	0	04/03/2021				
Iran	618	0	0	0	618	0	3.0	0	0	98.5	0	0	83	0	0	30	53	0	2.3	0	0	95.2	0	0	27/02/2021				
Iraq	476	0	0	0	476	0	2.9	0	0	93.3	0	0	150	0	0	37	113	0	5.1	0	0	98.7	0	0	06/03/2021				
Jordan	32	0	0	0	32	0	0.8	0	0	96.9	0	0	2	0	0	0	2	0	0.3	0	0	100.0	0	0	28/02/2021				
Kuwait	36	0	0	0	36	0	4.1	0	0	91.7	0	0	6	0	0	3	3	0	3.7	0	0	100.0	0	0	01/03/2021				
Lebanon	49	0	0	3	46	0	2.6	1	0	89.8	0	0	5	0	0	4	1	0	1.5	0	0	100.0	0	0	22/02/2021				
Libya	95	0	0	0	94	1	3.6	0	0	100.0	0	0	9	0	0	8	1	0	1.9	0	0	100.0	0	0	06/03/2021				
Morocco	86	0	0	25	61	0	0.9	25	4	70.9	0	0	7	0	0	7	0	0	0.4	0	0	57.1	0	0	26/02/2020				
Oman	22	0	0	0	22	0	1.9	0	0	100.0	0	0	1	0	0	0	1	0	0.5	0	0	100.0	0	0	03/03/2021				
Pakistan	11949	84	21	197	11507	142	15.2	112	1	85.5	84	0	1653	1	0	467	1177	8	11.7	0	0	86.2	1	0	07/03/2021				
Palestine	16	0	0	3	13	0	0.9	2	0	100.0	0	0	3	0	0	3	0	0	0.9	0	0	100.0	0	0	02/03/2021				
Qatar	9	0	0	6	3	0	2.1	6	0	33.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	07/03/2021				
Saudi Arabia	200	0	0	0	200	0	2.4	0	0	96.0	0	0	35	0	0	35	0	0	2.3	0	0	94.3	0	0	07/03/2021				
Somalia	376	0	0	5	356	15	4.7	3	1	94.7	0	0	47	0	0	32	15	0	3.2	0	0	93.6	0	0	28/02/2021				
Sudan	733	0	0	0	675	58	3.8	0	0	92.9	0	0	106	0	0	30	76	0	3.1	0	0	98.1	0	0	04/03/2021				
Syria	343	0	0	0	343	0	4.3	0	0	91.0	0	0	45	0	0	26	19	0	3.1	0	0	95.6	0	0	07/03/2021				
Tunisia	38	0	0	0	38	0	1.3	0	0	57.9	0	0	2	0	0	2	0	0	0.4	0	0	50.0	0	0	05/03/2021				
U.A.E	19	0	0	0	19	0	1.5	0	0	100.0	0	0	2	0	0	2	0	0	0.9	0	0	100.0	0	0	25/02/2021				
Yemen	825	0	1	71	724	29	5.9	31	17	88.7	0	0	118	0	0	116	2	0	4.6	0	0	92.4	0	0	04/03/2021				
EMR	20922	140	23	347	19858	559	8.0	200	24	88.6	140	0	3085	2	0	1070	1994	19	6.6	0	0	89.2	2	0					
2019	25771	176	7	0	25559	29	10.2	0	0	89.5	176	0																	

# Advance notification of 7 new cVDPV2 case from Afghanistan with onset in 2020 & 2021 - details will be shared in next bulletin

\* 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

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COUNTRY	2020						2021					
	# OF CONTACTS	LAB RESULTS					# OF CONTACTS	LAB RESULTS				
		WILD	VDPV	SL	NPEV	PENDING		WILD	VDPV	SL	NPEV	PENDING
AFG	1252	14	79	52	270	0	306	0	7	34	36	20
BAH	1	0	0	0	0	0	0	0	0	0	0	0
DJI	2	0	0	0	0	0	0	0	0	0	0	0
EGY	330	0	0	12	32	8	84	0	0	1	9	27
IRN	46	0	0	0	0	0	4	0	0	0	0	0
IRQ	168	0	0	4	10	0	35	0	0	3	3	2
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	5	0	0	0	0	0	0	0	0	0	0	0
LIB	19	0	0	0	0	0	0	0	0	0	0	0
MOR	8	0	0	0	0	4	5	0	0	0	0	5
OMA	64	0	0	2	8	1	0	0	0	0	0	0
PAK	4653	21	19	379	788	1	809	0	1	91	82	112
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	18	0	0	0	0	6	5	0	0	0	0	5
SOM	872	0	5	16	116	17	0	0	0	0	0	0
SUD	364	0	18	2	8	242	27	0	0	0	0	27
SYR	280	0	0	11	15	0	3	0	0	0	0	0
TUN	6	0	0	0	0	2	1	0	0	0	0	1
UAE	0	0	0	0	0	0	0	0	0	0	0	0
YEM	230	0	0	0	29	58	59	0	0	0	2	56
<b>EMR</b>	<b>8318</b>	<b>35</b>	<b>121</b>	<b>478</b>	<b>1276</b>	<b>339</b>	<b>1338</b>	<b>0</b>	<b>8</b>	<b>129</b>	<b>132</b>	<b>255</b>

Table 4 (B): Most recent wild contacts in EMRO, 2020-2021

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
2020	Afghanistan	14	26/Jul/20
	Pakistan	21	14/Dec/20
<b>2020 Total</b>		<b>35</b>	<b>14/Dec/20</b>

Table 4 (C): Number of distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2020-2021

YEAR	COUNTRY	PROVINCE	DISTRICT	COUNT	First case	Last case	
2020	AFG	KANDAHAR	NESH	1	23-May-20	23-May-20	
			HILMAND	WASHER	1	04-Jan-20	04-Jan-20
				KHASHROD	1	28-Feb-20	28-Feb-20
			FARAH	1	06-May-20	06-May-20	
	PAK	BALOCHISTAN	KSAIFULLAH	1	01-Sep-20	01-Sep-20	
			LAHORE	1	24-Jul-20	24-Jul-20	
		PUNJAB	DG KHAN	2	18-Jan-20	05-Jul-20	
			KARAK	1	20-Jan-20	20-Jan-20	
		SINDH	2	07-Feb-20	14-Jul-20		
	<b>2020 Total</b>				<b>11</b>	<b>04-Jan-20</b>	<b>01-Sep-20</b>

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Table 5: Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (09/2021) / Ending on : (07/03/2021)

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	567	74	8	47	258	51	73	1	18			34	5		23				20	11%	100%	100%	99%	01/03/2021	
Bahrain	NPL Oman / CDC																								03/03/2021	
Djibouti	NPL Kenya / CDC	2						2																	07/03/2021	
Egypt***	RRL Egypt	156	1		16	105	32	2		1											10%	100%	100%	100%	04/03/2021	
Iran	NPL Iran / CDC	130	6		3	102	18	1					6								2%	99%	100%	100%	06/03/2021	
Iraq	RRL Egypt	149			7	109	31	2													6%	100%		99%	05/03/2021	
Jordan	NPL Jordan / RRL EGYPT	2			1	1															50%	100%		100%	07/03/2021	
Kuwait	RRL Kuwait / RIVM	6				6															0%	100%		100%	07/03/2021	
Lebanon	NPL Jordan / RRL EGYPT	3				1		2													0%	100%			07/03/2021	
Libya	RRL Tunisia / RIVM	1						1																	15/02/2021	
Morocco	NPL Morocco / RRL Tunisia	5				2	2	1													0%	100%		100%	05/03/2021	
Oman	NPL Oman / CDC	1				1															0%	100%		100%	03/03/2021	
Pakistan	RRL Pakistan	1369	146	14	149	792	64	194	1	44			98	6		39				10	10%	100%	100%	100%	01/03/2021	
Palestine & UNRWA		3				3															0%	0%		100%	02/03/2021	
Qatar	NPL Oman / CDC																								03/03/2021	
Saudi Arabia	NPL Saudi Arabia / CDC	34				23	7	4													0%	100%		100%	01/03/2021	
Somalia	NPL Kenya / CDC	47			1	14	3	29													7%	13%		100%	28/02/2021	
Sudan	NPL Sudan / RRL Egypt	104			12	71	19	2													13%	100%			07/03/2021	
Syria	NPL Syria / RRL Egypt	32				13	3	16													0%	100%			27/02/2021	
Tunisia	RRL Tunisia	3				3															0%	100%		100%	15/02/2021	
U.A.E	NPL Oman / CDC																								03/03/2021	
Yemen	NPL Kenya / CDC	2				2															29%	100%		50%	04/03/2021	
<b>Total EMR 2021</b>		2616	227	22	236	1506	230	329	2	63			138	11		62				30	10%	99%	100%	99%		
<b>Total EMR 2020</b>		20354	1672	91	3037	15487	13	42	129	347	19		507	464		455	2	14	18	11	2	14%	94%	97%	93%	

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

\*\* This indicator reflects surveillance and laboratory activities

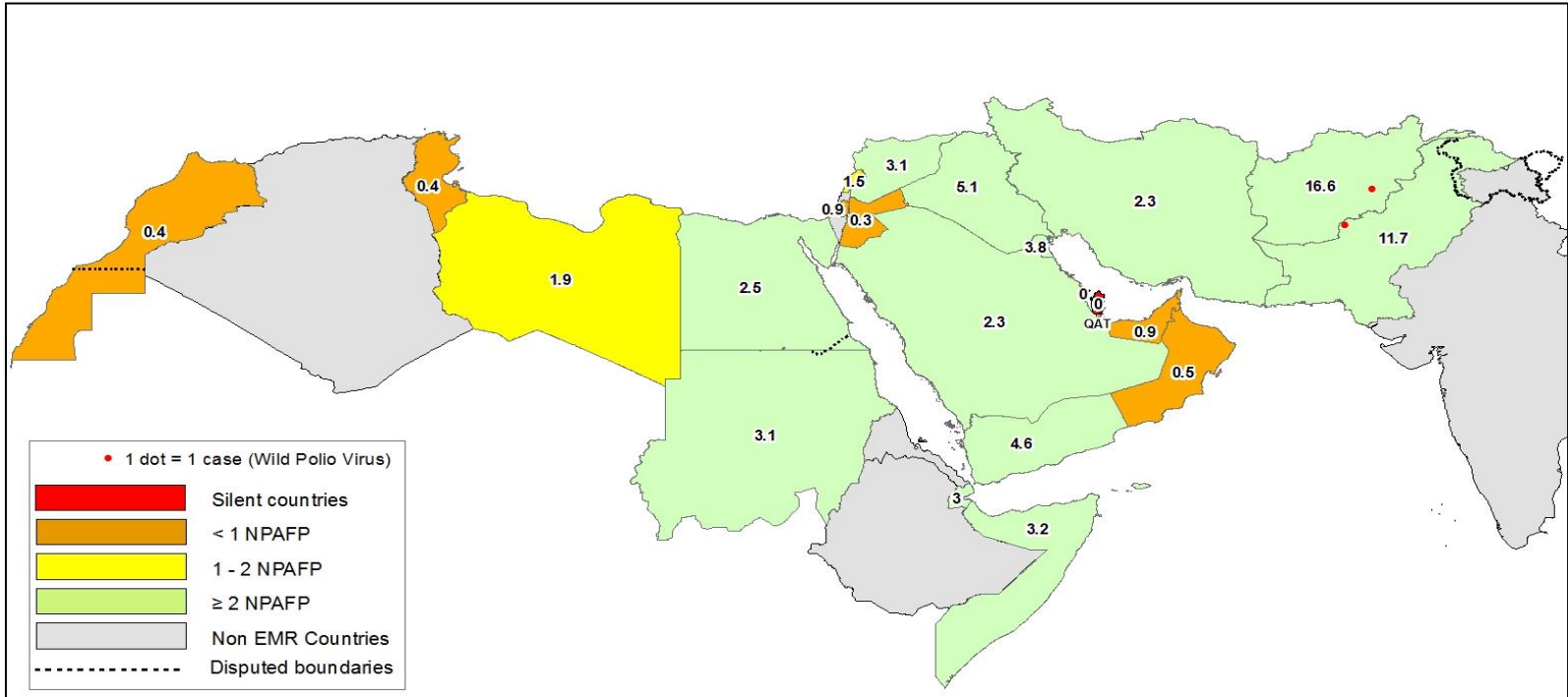
Table 6: Environmental isolate by year and type

COUNTRY	LAB RESULTS	2016	2017	2018	2019	2020	2021
AFG	Wild	2	42	83	56	28	19
	Wild+cVDPV2					7	
	cVDPV2					167	2
	aVDPV2					2	1
	Negative	6	9	5	3	3	
	Pending						26
AFG Total	Enteric	125	170	177	138	111	5
	SL1/3	36	94	71	60	31	2
	SL2	16	1	2	2	64	29
	SL2	1	1	1	1	413	32
	SL2						6
	SL2						7
EGY	cVDPV2					1	
	aVDPV2					41	
	Negative	34	41	32	34	1	23
	Pending						1
	aVDPV3					1	
	VDPV3					1	
EGY Total	Enteric	354	322	321	397	288	39
	SL1/3	79	159	187	269	212	25
	SL2	60	1	1	1	1	1
	SL2	1	1	1	1	1	1
	SL2						1
	SL2						101
IRN	Wild					3	
	cVDPV2					3	
	Negative		1	3			
	Pending		1	29	55	23	5
	Enteric		4	22	10	16	3
	SL1/3					1	3
IRN Total	Enteric			54	71	43	10
	SL1/3					1	1
	SL1/3	1	13	27	24	9	2
	SL1/3	1	16	9	12	14	3
	SL1/3	2	31	36	36	25	6
	SL1/3						1
JOR	(blank)						
	Enteric			2		9	
	SL1/3			1		4	
	SL1/3					15	
	SL1/3	2	1	3		2	1
	SL1/3	2	12	24	15	16	1
JOR Total	Enteric			20	29	13	1
	SL1/3	4	22	27	47	33	2
	Wild	59	105	139	367	337	28
	Wild+cVDPV2	2	1		10	91	7
	cVDPV2	2	1		2	6	7
	aVDPV2	3	4		29	44	7
PAK	Negative	6		3	4	6	1
	Pending						40
	Enteric	300	392	404	308	135	17
	SL1/3	77	106	127	90	49	2
	SL2	79	25	22	22	146	38
	SL2	1	1	1	1	1	1
PAK Total	cVDPV2		2	18	5	26	
	cVDPV3			11			
	aVDPV2			2			
	cVDPV2+cVDPV3			1			
	Negative		14	138	29	32	1
	Pending					4	6
SOM	Enteric		16	25	22	10	1
	SL1/3		2	8	6	4	
	SL2		2	10	6	4	
	SL2		36	213	63	5	8
	SL2					11	
	SL2					14	
SUD	Negative					4	
	Pending					2	
	Enteric			15	51	32	5
	SL1/3					5	2
	SL2					2	2
	SL2					50	9
SYR	Negative			21	30	17	
	Pending						
	Enteric		4	72	111	152	19
	SL1/3			6	44	36	3
	SL2			3			
	SL2						
TOTAL	Wild	1248	1975	2017	185	205	31
	Wild+cVDPV2						
	cVDPV2					2223	394
	aVDPV2						
	Negative						
	Pending						

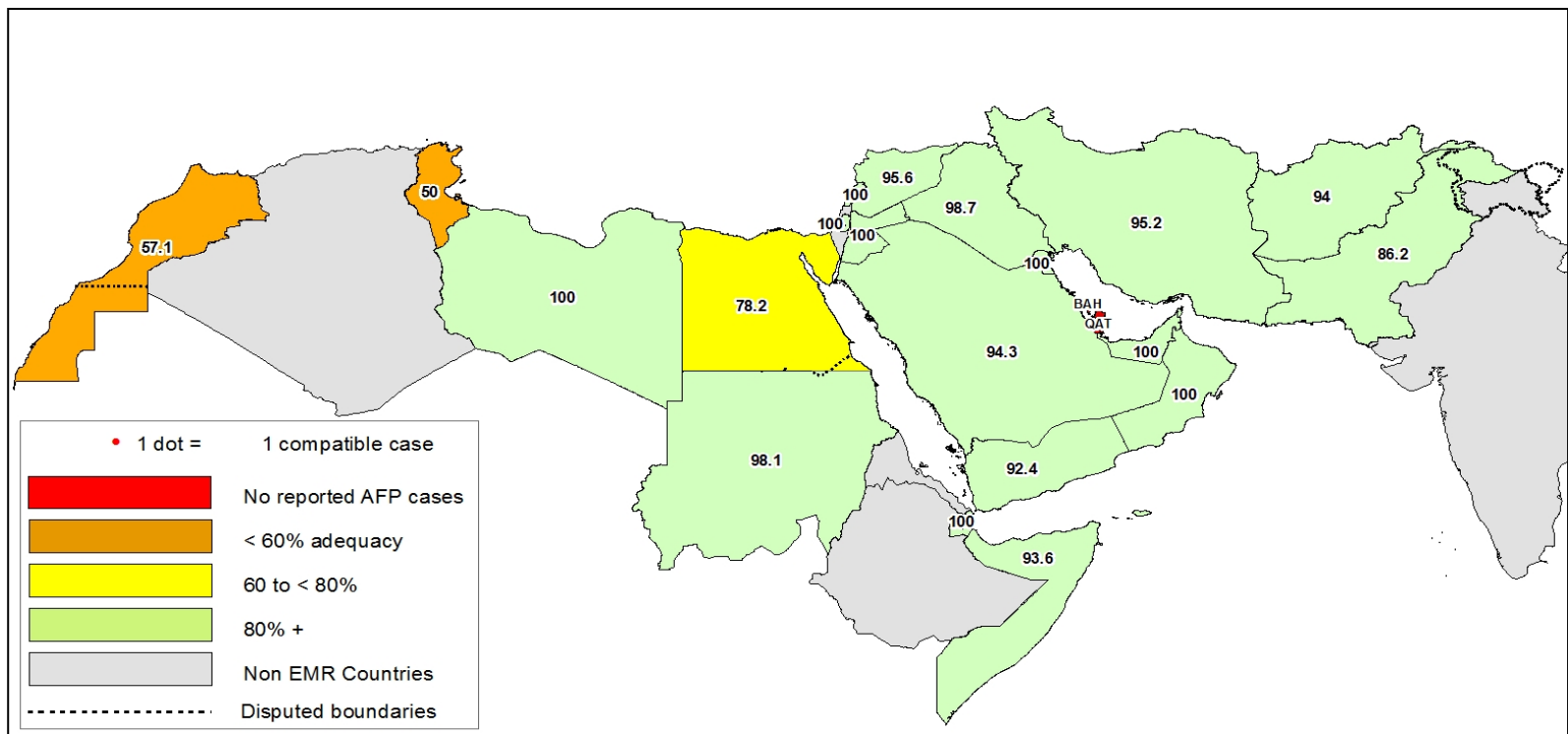
Table 7: Environmental Wild/VDPV isolate by site 2020-2021

YEAR	COUNTRY	LAB RESULTS	PROVINCE	Count	First date	Last date
2020	AFG	Wild	HILMAND	10	1/Jan/20	24/Aug/20
			HIRAT	4	26/Apr/20	23/Aug/20
			KABUL	1	26/Sep/20	26/Sep/20
			KANDAHAR	9	28/Jan/20	25/Jun/20
			KHOST	1	25/Apr/20	25/Apr/20
			KUNDUZ	1	27/Sep/20	27/Sep/20
			NANGARHAR	2	26/Jan/20	6/Oct/20
			HILMAND	1	6/Sep/20	6/Sep/20
			KANDAHAR	4	25/Jun/20	6/Dec/20
			NANGARHAR	2	8/Jan/20	25/Jul/20
		Wild+cVDPV2	HILMAND	34	27/May/20	27/Dec/20
			HIRAT	3	26/Sep/20	26/Dec/20
			KABUL	19	26/Apr/20	5/Nov/20
			KANDAHAR	35	9/Jul/20	27/Dec/20
			KHOST	6	24/Jun/20	23/Nov/20
			KUNAR	5	6/Jun/20	7/Nov/20
			KUNDUZ	2	23/Aug/20	24/Oct/20
			LAGHMAN	4	24/Jul/20	6/Oct/20
			NANGARHAR	58	7/Jan/20	23/Dec/20
			PAKTYA	1	26/Jul/20	26/Jul/20
	cVDPV2	HILMAND	1	27/Sep/20	27/Sep/20	
		KABUL	1	26/Dec/20	26/Dec/20	
		GIZA	1	21/Sep/20	21/Sep/20	
		S & B	3	3/Oct/20	25/Dec/20	
		AJK	1	25/Feb/20	25/Feb/20	
		BALUCHISTAN	71	1/Jan/20	21/Sep/20	
		GBALISTAN	1	12/May/20	12/May/20	
		ISLAMABAD	5	16/Jan/20	10/Nov/20	
		KPAKHTUNKHWA	23	28/Jan/20	18/Dec/20	
		PUNJAB	122	4/Jan/20	28/Dec/20	
	Wild+cVDPV2	SINDH	114	3/Jan/20	8/Dec/20	
		BALUCHISTAN	27	1/Feb/20	21/Dec/20	
		KPAKHTUNKHWA	1	11/Mar/20	11/Mar/20	
		PUNJAB	14	4/Jan/20	12/Oct/20	
		SINDH	49	3/Jan/20	10/Dec/20	
		BALUCHISTAN	15	2/Jun/20	28/Dec/20	
		KPAKHTUNKHWA	5	10/Jan/20	15/Oct/20	
		PUNJAB	3	16/Jan/20	18/Dec/20	
		SINDH	21	8/Jun/20	10/Dec/20	
		BALUCHISTAN	3	17/Sep/20	17/Nov/20	
	aVDPV2	KPAKHTUNKHWA	6	10/Apr/20	2/Dec/20	
		PUNJAB	5	4/May/20	30/Dec/20	
		SINDH	2	13/Oct/20	3/Nov/20	
		BANADIR	23	5/Jan/20	24/Oct/20	
		BAY	2	19/Jun/20	20/Jun/20	
		LOWER JUBA	1	8/Sep/20	8/Sep/20	
		26	5/Jan/20	24/Oct/20		
14		29/Mar/20	9/Nov/20			
14		29/Mar/20	9/Nov/20			
736		1/Jan/20	30/Dec/20			
2021	AFG	cVDPV2	HILMAND	8	4/Jan/21	4/Feb/21
			KANDAHAR	9	5/Jan/21	6/Feb/21
			NANGARHAR	2	5/Jan/21	4/Feb/21
		KABUL	1	3/Feb/21	3/Feb/21	
	20	4/Jan/21	6/Feb/21			
	EGY	cVDPV2	ALEXANDRIA	1	10/Jan/21	10/Jan/21
			ASWAN	2	20/Jan/21	9/Feb/21
			BENI SUEF	1	27/Jan/21	27/Jan/21
			KAFR EL-SHEIKH	1	27/Jan/21	27/Jan/21
			QENA	1	23/Jan/21	23/Jan/21
	6	10/Jan/21	9/Feb/21			
	PAK	Wild	BALUCHISTAN	7	20/Jan/21	20/Feb/21
			ISLAMABAD	2	11/Jan/21	10/Feb/21
			KPAKHTUNKHWA	4	11/Jan/21	10/Feb/21
			PUNJAB	10	4/Jan/21	18/Feb/21
			SINDH	5	4/Jan/21	4/Feb/21
		Wild+cVDPV2	BALUCHISTAN	5	2/Jan/21	2/Feb/21
PUNJAB			2	11/Jan/21	18/Jan/21	
BALUCHISTAN			3	1/Jan/21	28/Jan/21	
KPAKHTUNKHWA			1	16/Jan/21	16/Jan/21	
SINDH			3	12/Jan/21	9/Feb/21	
aVDPV2	SINDH	2	12/Jan/21	10/Feb/21		
	SINDH	2	12/Jan/21	10/Feb/21		
	44	1/Jan/21	20/Feb/21			
	70	1/Jan/21	20/Feb/21			

**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2021 - 07/03/2021**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2021 - 07/03/2021**

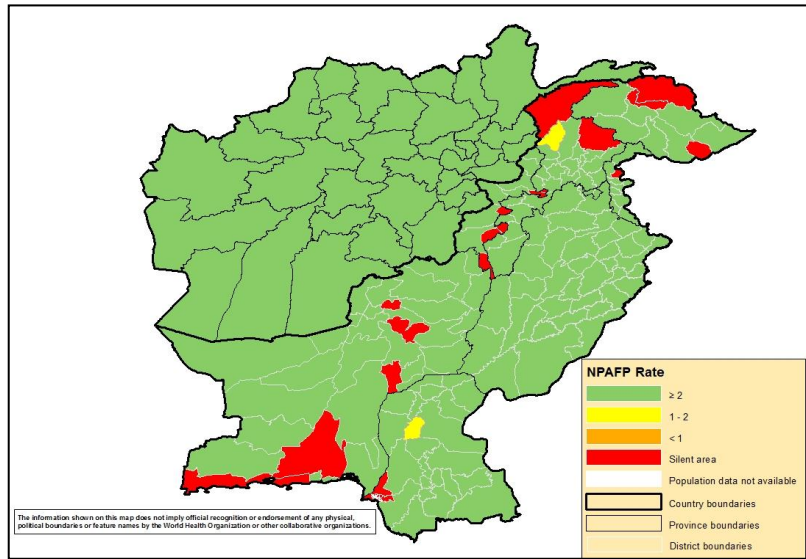


**Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2020 - 2021**

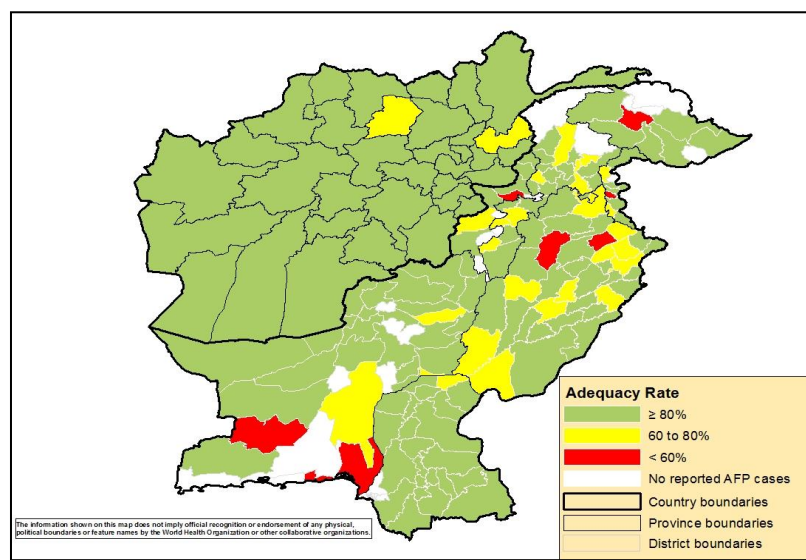
Year	COUNTRY	Count	First Case	Last Case
2020	AFG	56	4-Jan-20	19-Oct-20
	PAK	84	1-Jan-20	23-Nov-20
<b>2020 Total</b>		<b>140</b>	<b>1-Jan-20</b>	<b>23-Nov-20</b>
2021	AFG	1	1-Jan-21	1-Jan-21
	PAK	1	27-Jan-21	27-Jan-21
<b>2021 Total</b>		<b>2</b>	<b>1-Jan-21</b>	<b>27-Jan-21</b>



**Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2021 - 07/03/2021**

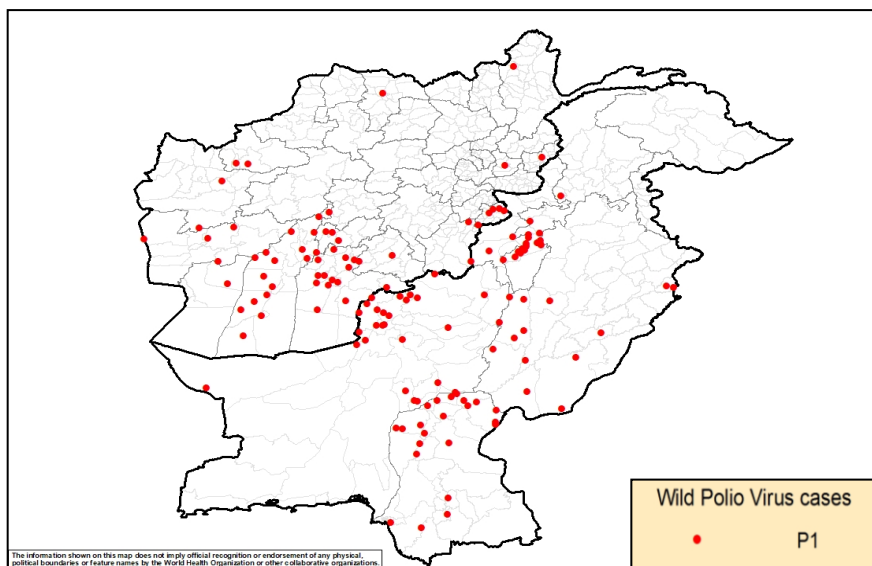


**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2021 - 07/03/2021**

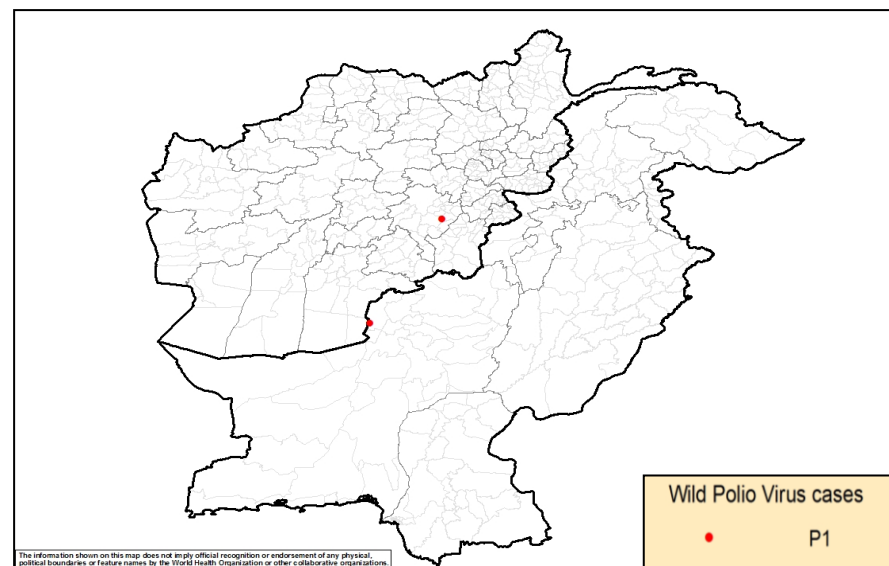


**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan**

**5(a) 01/01/2020 - 31/12/2020**



**5(b) 01/01/2021 - 07/03/2021**



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**Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2020-2021**

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2020	BALKH	DEHDADI	1	15-Mar-20	15-Mar-20
	HIRAT	PASHTUNZARGHUN	1	29-Jun-20	29-Jun-20
		SHINDAND	1	21-Mar-20	21-Mar-20
	FARAH	BALABULUK	2	11-May-20	17-May-20
		ANARDARA	1	6-May-20	6-May-20
		BAKWA	1	4-Feb-20	4-Feb-20
	BADGHIS	QALA-E-NAW	1	5-Sep-20	5-Sep-20
		QADIS	1	13-May-20	13-May-20
	KUNAR	SHIGAL WA SHEL TAN	1	5-Mar-20	5-Mar-20
	LAGHMAN	MEHTARLAM	1	10-Feb-20	10-Feb-20
	PAKTIKA	NAKA	1	12-Aug-20	12-Aug-20
	KHOST	NADIRSHAHKOT	1	7-Sep-20	7-Sep-20
		BAK	2	3-Sep-20	7-Sep-20
		SABARI	1	8-Aug-20	8-Aug-20
		SPERA	1	1-Aug-20	1-Aug-20
	KANDAHAR	MARUF	1	14-Oct-20	14-Oct-20
		KANDAHAR	3	22-Jun-20	13-Sep-20
		ZHERAY	3	20-Jul-20	24-Aug-20
		SPINBOLDAK	1	25-Jul-20	25-Jul-20
		PANJWAYI	1	10-Jun-20	10-Jun-20
		SHAHWALIKOT	3	4-Mar-20	6-Jun-20
		NESH	1	23-May-20	23-May-20
		GHORAK	1	19-Mar-20	19-Mar-20
	ZABUL	QALAT	1	6-Aug-20	6-Aug-20
		ARGHANDAB	1	14-Jul-20	14-Jul-20
		MIZAN	1	21-Jan-20	21-Jan-20
	HILMAND	NAD-E-ALI	2	1-May-20	19-Oct-20
		WASHER	3	4-Jan-20	19-Oct-20
		BAGHRAN	2	16-Jul-20	4-Sep-20
		KAJAKI	2	10-Jun-20	27-Jul-20
		REG	4	25-May-20	3-Jun-20
DEH-E-SHU		1	27-May-20	27-May-20	
NAWZAD		1	11-May-20	11-May-20	
SANGIN		1	7-May-20	7-May-20	
URUZGAN	SHAHID-E-HASSAS	3	14-Jun-20	12-Jul-20	
	TIRINKOT	1	28-May-20	28-May-20	
NIMROZ	KHASHROD	1	28-Feb-20	28-Feb-20	
BADAKHSHAN	YAWAN	1	10-Mar-20	10-Mar-20	
<b>2020 Total</b>			<b>56</b>	<b>4-Jan-20</b>	<b>19-Oct-20</b>
2021	GAZNI	ANDAR	1	1-Jan-21	1-Jan-21
<b>2021 Total</b>			<b>1</b>	<b>1-Jan-21</b>	<b>1-Jan-21</b>

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Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2020-2021

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2020	KHYBER PAKHTUNKHWA	PESHAWAR	1	13-Jul-20	13-Jul-20
		WAZIR-S	2	21-Feb-20	8-Jun-20
		BANNU	1	27-Apr-20	27-Apr-20
		TANK	4	11-Jan-20	15-Mar-20
		KARAK	2	20-Jan-20	13-Mar-20
		LAKKIMRWT	12	2-Jan-20	9-Mar-20
	BALOCHISTAN	KABDULAH	3	11-May-20	23-Nov-20
		QUETTA	5	17-Jul-20	5-Nov-20
		MASTUNG	1	15-Oct-20	15-Oct-20
		PISHIN	6	31-Jan-20	3-Oct-20
		KSAIFULAH	1	1-Sep-20	1-Sep-20
		CHAGHAI	1	4-Jun-20	4-Jun-20
		DUKKI	1	26-May-20	26-May-20
		JHALMAGSI	1	19-Apr-20	19-Apr-20
		ZHOB	2	22-Feb-20	13-Apr-20
		NSIRABAD	2	3-Jan-20	13-Apr-20
		SOHBATPUR	1	12-Feb-20	12-Feb-20
		JAFARABAD	1	12-Feb-20	12-Feb-20
		SIBI	1	7-Feb-20	7-Feb-20
		PUNJAB	LAYYAH	1	21-Oct-20
	MUZFARGARH		1	4-Oct-20	4-Oct-20
	VEHARI		1	16-Sep-20	16-Sep-20
	DGKHAN		5	18-Jan-20	14-Sep-20
	BAHAWALPUR		2	17-Aug-20	5-Sep-20
	RYKHAN		1	1-Sep-20	1-Sep-20
	LAHORE		2	12-Jun-20	24-Jul-20
	RAJANPUR		1	2-Jun-20	2-Jun-20
	SINDH	JACOBABAD	4	7-Feb-20	14-Jul-20
		GHOTKI	4	2-Mar-20	9-Jul-20
		KHILANDHI	1	9-Jun-20	9-Jun-20
		LARKANA	1	21-May-20	21-May-20
		KAMBAR	3	8-Jan-20	11-Apr-20
		KHAIRPUR	1	27-Mar-20	27-Mar-20
		NFEROZ	2	8-Feb-20	22-Feb-20
		SHIKARPUR	1	11-Feb-20	11-Feb-20
		KASHMORE	2	16-Jan-20	3-Feb-20
SUJAWAL		1	7-Jan-20	7-Jan-20	
T.ALLAHYAR		1	7-Jan-20	7-Jan-20	
BADIN		1	1-Jan-20	1-Jan-20	
<b>2020 Total</b>			<b>84</b>	<b>1-Jan-20</b>	<b>23-Nov-20</b>
2021	BALOCHISTAN	KABDULAH	1	27-Jan-21	27-Jan-21
<b>2021 Total</b>			<b>1</b>	<b>27-Jan-21</b>	<b>27-Jan-21</b>

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**Table 11: Circulating VDPV2 cases and date of onset of paralysis in EMR countries by provinces 2020-2021**

YEAR	COUNTRY	PROVINCE	Count	First Case	Last Case	
2021	AFG	FARAH	3	1-Jan-21	17-Jan-21	
		BADGHIS	2	12-Jan-21	12-Jan-21	
		FARYAB	1	28-Jan-21	28-Jan-21	
		HILMAND	1	5-Jan-21	5-Jan-21	
		GHAZNI	2	8-Jan-21	24-Jan-21	
		ZABUL	2	7-Jan-21	23-Jan-21	
	PAK	KHYBER PAKHTUNKHWA	1	14-Jan-21	14-Jan-21	
		PUNJAB	1	7-Jan-21	7-Jan-21	
		SINDH	2	5-Jan-21	7-Jan-21	
		BALOCHISTAN	2	2-Jan-21	3-Jan-21	
<b>Total 2021</b>			<b>17</b>	<b>1-Jan-21</b>	<b>28-Jan-21</b>	
2020	SOM	LOWER JUBA	1	29-Aug-20	29-Aug-20	
		AWDAL	1	1-Aug-20	1-Aug-20	
		GALBEED	1	29-Sep-20	29-Sep-20	
		HIRAN	1	18-Oct-20	18-Oct-20	
		MIDDLE SHABELLE	1	17-Jul-20	17-Jul-20	
		BAY	2	3-Sep-20	25-Oct-20	
		BANADIR	7	18-Jun-20	30-Sep-20	
	SUD	SOUTH DARFUR	3	7-Mar-20	18-Dec-20	
		NORTH DARFUR	2	26-Nov-20	13-Dec-20	
		EAST DARFUR	3	12-May-20	24-Jul-20	
		KHARTOUM	4	15-Jul-20	16-Nov-20	
		KASSALA	11	28-Jul-20	6-Nov-20	
		GEZIRA	5	9-Jul-20	19-Sep-20	
		RIVER NILE	5	29-Jun-20	27-Sep-20	
		RED SEA	8	29-Apr-20	29-Nov-20	
		WEST DARFUR	1	19-May-20	19-May-20	
		BLUE NILE	4	7-Aug-20	26-Nov-20	
		SOUTH KORDOFAN	2	20-Nov-20	25-Nov-20	
		NORTH KORDOFAN	3	29-Aug-20	2-Dec-20	
		SENNAR	1	16-Aug-20	16-Aug-20	
		WHITE NILE	3	15-Jun-20	22-Aug-20	
		GEDARIF	3	1-Apr-20	1-Aug-20	
	AFG	FARAH	17	1-Jun-20	27-Dec-20	
		BALKH	2	29-Oct-20	3-Nov-20	
		BADGHIS	10	1-Nov-20	27-Dec-20	
		FARYAB	1	18-Oct-20	18-Oct-20	
		SAMANGAN	1	1-Nov-20	1-Nov-20	
		HIRAT	2	10-Aug-20	15-Aug-20	
		LOGAR	4	20-Aug-20	18-Nov-20	
		KANDAHAR	74	4-Aug-20	30-Dec-20	
		HILMAND	40	1-Aug-20	24-Dec-20	
		JAWZIAN	3	4-Aug-20	21-Nov-20	
		KABUL	7	6-Jul-20	12-Oct-20	
		NURISTAN	2	21-Jun-20	13-Jul-20	
		NIMROZ	3	6-Jul-20	8-Aug-20	
		KHOST	17	5-Jul-20	19-Oct-20	
		PAKTYA	5	18-Jun-20	25-Oct-20	
		KUNDUZ	3	28-Aug-20	3-Oct-20	
		PAKTIKA	5	25-Aug-20	7-Oct-20	
		GHAZNI	7	29-Aug-20	26-Dec-20	
		BADAKHSHAN	1	23-Apr-20	23-Apr-20	
		LAGHMAN	14	20-May-20	23-Sep-20	
		TAKHAR	1	20-Sep-20	20-Sep-20	
		ZABUL	12	17-Sep-20	15-Nov-20	
		GHOR	1	14-Nov-20	14-Nov-20	
		URUZGAN	15	28-Aug-20	22-Dec-20	
		PARWAN	1	4-Sep-20	4-Sep-20	
		WARDAK	5	6-Sep-20	22-11-20	
		KUNAR	9	6-Apr-20	29-Sep-20	
		NANGARHAR	45	5-Feb-20	21-Sep-20	
		PAK	SINDH	45	2-May-20	28-Nov-20
			BALOCHISTAN	23	29-Feb-20	24-Dec-20
PUNJAB	25		5-Feb-20	5-Nov-20		
KHYBER PAKHTUNKHWA	42		2-Jan-20	24-May-20		
<b>Total 2020</b>			<b>514</b>	<b>2-Jan-20</b>	<b>30-Dec-20</b>	

**Advance notification of 7 new cVDPV2 case from Afghanistan with onset in 2020 & 2021 - details will be shared in next bulletin**

