

Highlights of Polio Fax Bulletin No. 1118 for Week 10 2020

I. Wild Poliovirus Transmission

Endemic countries (PAKISTAN & AFGHANISTAN): Following was reported this week:

- 4 new WPV1 cases were reported this week all from Pakistan.
 - 13 new positive WPV1 environmental samples 1 from Afghanistan and 12 from Pakistan.
- a. *Human samples:* Four new WPV1 cases reported this week in 2020. Total WPV1 cases in 2020 to date is 27 (2 from Afghanistan and 25 from Pakistan). This compares with 10 cases in 2019 in the same period (4 from Afghanistan and 6 from Pakistan).
- Afghanistan: No newly reported cases this week. In 2020, 2 WPV1 cases are reported, 1 from Hilmand and 1 from Zabul provinces. The most recent case has onset of paralysis on 21 January 2020.
 - Pakistan: 4 new WPV1 cases reported this week in 2020 and details are as follows:
 - Case (1): The case is from Karak district, Khyber Pakhtunkhwa (KP) province, with date of onset 20 January 2020. The case is a 14-month old male child. The child reportedly received 6 OPV doses from supplementary immunization activities (SIAs) and none from routine. The index case was identified as wild by a positive contact.
 - Case (2): The case is from Naushero Feroze district, Sindh province, with date of onset 8 February 2020. The case is a 28-month old male child. The child reportedly received 3 OPV doses from routine and 7+ doses from routine.
 - Case (3): The case is from Shikarpur district, Sindh province, with date of onset 11 February 2020. The case is a 36-month old female child. The child reportedly received 1 OPV dose from routine and 7+ doses from SIAs.
 - Case (4): The case is from Sohbatpur district, Balochistan province, with date of onset 12 February 2020. The case is an 84-month old male child. The child reportedly received 7 OPV doses from SIAs and none from routine.
 In 2020, 25 WPV1 cases are reported, 12 from KP, 8 from Sindh, 4 from Balochistan and 1 from Punjab provinces. The most recent case has onset of paralysis on 12 February 2020.
- b. *Environmental samples:* 13 new WPV1 positive environmental samples reported this week one from Afghanistan and twelve from Pakistan all in 2020:
- Afghanistan: In 2020 to date, 4 WPV1 positive environmental samples including 1 combined (WPV1 and cVDPV2) with most recent sample collected on 28 January 2020.
 - Pakistan: In 2020 to date, there are 69 WPV1 positive environmental samples including 2 combined (WPV1 and cVDPV2) with most recent positive sample collected on 20 February 2020.

II. Circulating Vaccine Derived Polioviruses (cVDPVs)

1. AFGHANISTAN: No new cVDPV cases or environmental samples reported this week. In 2020 to date, 2 cVDPV2 positive environmental samples including 1 combined (WPV1 and cVDPV2) were reported both from Jalalabad district, Nangarhar province, with most recent collection on 8 January 2020.
2. PAKISTAN: No new cVDPV cases or environmental samples reported this week. In 2020 to date, 12 cVDPV2 cases reported. Cases include six cases from Khyber district, two cases each from Peshawar and Bajour districts, and one case from Nowshera district from KP province; and one case from Rawalpindi district, Punjab province. Onset of the most recent is on 29 January 2020.

Environment: In 2019, 30 positive environmental samples for cVDPV2, the recent most sample collected on 31 December 2019 (including nine combined WPV1 and cVDPV2).

In addition, cVDPV2 has been isolated from 16 healthy children and 7 contacts.

3. SOMALIA: No new cVDPV isolates from human or environmental samples were reported.

In 2020 to date: 4 cVDPV2 were isolated from environmental samples most recent collected on 4 February 2020.

Note: A new Event: VDPV1 has been isolated from an AFP case from Lughaya district, Awdal province, with date of onset 26 January 2020. Investigations are underway and based on findings further action(s) will be taken.

III. **Surveillance performance indicators**

In 2020, 16 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.

- Djibouti and Qatar are missing both indicators since they did not report any AFP case in 2020
- Morocco has a percentage of AFP cases with adequate stool specimens of 71.4%
- Palestine, Saudi Arabia, and Tunisia have a non-polio AFP rate of 1.7, 1.5 and 0.2 respectively

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

Country	Reported AFP cases by week of onset - Week (10/20) / Ending on : 08/03/2020														
	Total AFP 2018	Total AFP 2019	Total AFP to date, 2020	W51 22 Dec 19	W52 29 Dec 19	W01 05 Jan 20	W02 12 Jan 20	W03 19 Jan 20	W04 26 Jan 20	W05 02 Feb 20	W06 09 Feb 20	W07 16 Feb 20	W08 23 Feb 20	W09 01 Mar 20	W10 08 Mar 20
Afghanistan	3378	3768	632	70	67	80	67	72	87	97	59	63	75	40	3
Bahrain	35	17	6	0	0	0	0	0	0	1	1	1	2	1	0
Djibouti	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	1246	1343	190	18	13	29	18	21	24	23	22	11	23	19	1
Iran	896	1070	159	17	24	20	21	30	22	25	21	15	4	1	0
Iraq	1023	1157	145	25	13	23	20	12	22	19	25	16	10	0	0
Jordan ****	115	113	17	1	1	1	4	0	3	0	3	2	3	1	0
Kuwait	72	48	7	0	2	1	1	1	0	0	2	1	1	0	0
Lebanon ****	89	87	21	3	4	4	2	2	3	2	2	1	2	3	1
Libya	122	107	30	3	4	4	4	5	1	4	3	3	3	2	1
Morocco	212	247	35	4	2	4	2	3	5	6	4	2	8	1	0
Oman	28	30	5	0	1	0	1	0	0	2	0	0	1	1	0
Pakistan	12276	15197	2595	309	293	361	324	329	349	317	296	353	277	67	1
Palestine ****	44	62	6	2	1	0	1	0	2	1	1	1	0	0	0
Qatar	10	9	0	2	0	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	242	236	23	4	4	1	5	8	3	0	5	2	0	0	0
Somalia	353	361	86	4	5	10	6	8	16	16	6	12	6	6	1
Sudan	579	608	84	17	5	14	10	12	13	13	13	2	7	2	0
Syria ****	362	377	81	8	3	7	7	11	12	15	8	12	5	6	1
Tunisia	68	79	1	2	0	1	0	0	0	0	0	0	0	0	0
U.A.E	40	50	11	0	2	3	0	1	1	3	2	1	0	0	0
Yemen	730	779	120	10	25	9	18	14	13	16	14	19	11	6	0
Total EMR	21920	25750	4254	499	469	572	511	529	576	560	487	517	438	156	9

No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2018	Total year 2019	08/03		Confirmed polio cases by month of onset											
			2019	2020	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	January 2020	February 2020	March 2020
Afghanistan	21	29	4	2	1	5	1	2	2	3	1	7	1	2		
Bahrain	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Djibouti	0	0	0	0	0	0	0	0	0	0	0	0	0	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	12	146	6	25	11	11	16	12	14	5	16	23	32	18	7	
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	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		
Total EMR	33	175	10	27	12	16	17	14	16	8	17	30	33	20	7	0

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

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Table 3: Investigation of AFP cases with paralysis onset in 2019 & 2020 up to Week (10/20) / Ending on : 08/03/2020

COUNTRY	2019												2020												Latest line List Date
	AFP									Specimen	Wild cases ****		AFP									Specimen	Wild cases ****		
	Total AFP cases onset 2019	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 2020	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	3768	29	1	15	3723	0	18.5	5	0	94.1	29	0	632	2	0	168	462	0	16.7	0	0	95.7	2	0	08/03/2020
Bahrain	17	0	0	2	15	0	5.9	2	0	100.0	0	0	6	0	0	6	0	0	11.1	0	0	100.0	0	0	08/03/2020
Djibouti	5	0	0	0	5	0	1.4	0	0	80.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	16/02/2019
Egypt	1343	0	0	3	1340	0	3.6	1	0	93.4	0	0	190	0	0	113	77	0	2.7	0	0	86.8	0	0	05/03/2020
Iran	1070	0	0	0	1069	1	5.2	0	0	97.1	0	0	159	0	0	19	140	0	4.1	0	0	100.0	0	0	07/03/2020
Iraq	1157	0	0	1	1156	0	7.4	0	0	94.3	0	0	145	0	0	65	80	0	4.8	0	0	89.0	0	0	03/03/2020
Jordan	113	0	0	0	113	0	3.9	0	0	100.0	0	0	17	0	0	5	12	0	2.4	0	0	100.0	0	0	05/03/2020
Kuwait	48	0	0	0	48	0	5.4	0	0	89.6	0	0	7	0	0	4	3	0	4.2	0	0	85.7	0	0	06/03/2020
Lebanon	87	0	0	8	79	0	4.7	8	0	89.7	0	0	21	0	0	12	9	0	6.1	0	0	90.5	0	0	06/03/2020
Libya	107	0	0	0	107	0	4.3	0	0	98.1	0	0	30	0	0	12	18	0	6.4	0	0	100.0	0	0	07/03/2020
Morocco	247	0	0	0	247	0	2.8	0	0	84.2	0	0	35	0	0	21	14	0	2.1	0	0	71.4	0	0	08/03/2020
Oman	30	0	0	0	30	0	2.7	0	0	80.0	0	0	5	0	0	2	3	0	2.4	0	0	80.0	0	0	08/03/2020
Pakistan	15197	146	5	285	14739	23	19.3	182	0	86.7	146	0	2595	25	0	779	1779	12	17.7	0	0	88.6	25	0	07/03/2020
Palestine	62	0	0	4	58	0	3.3	1	0	98.4	0	0	6	0	0	6	0	0	1.7	0	0	100.0	0	0	23/02/2020
Qatar	9	0	0	0	9	0	2.5	0	0	88.9	0	0	0	0	0	0	0	0	0.0	0	0		0	0	08/03/2020
Saudi Arabia	236	0	0	2	234	0	2.8	0	0	93.2	0	0	23	0	0	23	0	0	1.5	0	0	91.3	0	0	05/03/2020
Somalia	361	0	0	4	354	3	5.7	4	0	95.6	0	0	86	0	0	22	63	1	5.7	0	0	96.5	0	0	08/03/2020
Sudan	608	0	0	0	608	0	3.4	0	0	96.4	0	0	84	0	0	16	68	0	2.4	0	0	95.2	0	0	08/03/2019
Syria	377	0	0	0	377	0	4.8	0	0	88.1	0	0	81	0	0	25	56	0	5.5	0	0	96.3	0	0	07/03/2020
Tunisia	79	0	0	0	78	1	2.9	0	0	74.7	0	0	1	0	0	0	1	0	0.2	0	0	100.0	0	0	26/02/2019
U.A.E	50	0	0	3	47	0	4.0	3	1	90.0	0	0	11	0	0	7	4	0	4.7	0	0	100.0	0	0	08/03/2020
Yemen	779	0	0	328	451	0	5.5	274	241	89.0	0	0	120	0	0	120	0	0	4.6	0	0	91.7	0	0	07/03/2020
EMR	25750	175	6	655	24887	28	10.2	480	242	89.5	175	0	4254	27	0	1425	2789	13	8.8	0	0	90.6	27	0	
2018	21920	33	1	86	21785	15	8.7	86	80	89.8	33	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 <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	2019						2020					
	# OF CONTACTS	LAB RESULTS					# OF CONTACTS	LAB RESULTS				
		WILD	VDPV	SL	NPEV	PENDING		WILD	VDPV	SL	NPEV	PENDING
AFG	1138	8	0	48	202	0	169	2	0	8	5	50
BAH	0	0	0	0	0	0	0	0	0	0	0	0
DJI	1	0	0	0	0	0	0	0	0	0	0	0
EGY	498	0	0	8	57	0	38	0	0	0	0	18
IRN	216	0	0	4	7	0	0	0	0	0	0	0
IRQ	603	0	0	12	39	6	64	0	0	0	2	10
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	24	0	0	0	3	2	0	0	0	0	0	0
LIB	6	0	0	0	3	0	0	0	0	0	0	0
MOR	85	0	0	3	1	30	2	0	0	0	0	0
OMA	78	0	0	2	28	0	22	0	0	1	3	7
PAK	5497	26	8	248	959	1	1280	9	0	104	102	272
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	44	0	0	1	0	0	0	0	0	0	0	0
SOM	1080	0	1	45	140	15	260	0	0	2	30	72
SUD	402	0	0	0	31	90	27	0	0	0	2	5
SYR	813	0	0	23	36	0	160	0	0	0	0	36
TUN	27	0	0	0	2	0	0	0	0	0	0	0
UAE	0	0	0	0	0	0	0	0	0	0	0	0
YEM	422	0	0	0	0	219	43	0	0	0	0	43
EMR	10934	34	9	394	1508	363	2065	11	0	115	144	513

Table 4 (B): Most recent wild contacts in EMRO, 2019-2020

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
2020	Afghanistan	2	19-Jan-20
	Pakistan	9	18/Feb/20
2020 Total		11	18/Feb/20
2019	Afghanistan	8	17/Aug/19
	Pakistan	26	26/Dec/19
2019 Total		34	26/Dec/19

Table 4 (C): Number of distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2019-2020

YEAR	COUNTRY	PROVINCE	DISTRICT	COUNT	First case	Last case
2020	AFG	HILMAND	WASHER	1	4-Jan-20	4-Jan-20
	PAK	PUNJAB KHYBER PAKHTUNKHWA	DG KHAN	1	18-Jan-20	18-Jan-20
			KARAK	1	20-Jan-20	20-Jan-20
2020 Total				3	04-Jan-20	20-Jan-20
2019	AFG	URUZGAN	TIRINKOT	1	2-Aug-19	2-Aug-19
		HILMAND	MUSAQALAH	1	05-Jun-19	05-Jun-19
	PAK	PUNJAB	SANGIN	1	06-Mar-19	06-Mar-19
			DG KHAN	2	2-Dec-19	10-Dec-19
		SINDH	KHIORANGI	1	28-Aug-19	28-Aug-19
			SUJAWAL	1	25-Sep-19	25-Sep-19
			JAMSHORO	1	09-Oct-19	09-Oct-19
			T. ALLAHYAR	1	10-Nov-19	10-Nov-19
			KAMBAR	1	02-Nov-19	02-Nov-19
			MIRPURKHAS	2	01-Dec-19	18-Dec-19
			LARKANA	1	24-Dec-19	24-Dec-19
			JACOBABAD	1	19-Dec-19	19-Dec-19
	BALOCHSITAN	MASTUNG	1	18-Nov-19	18-Nov-19	
		KILLABDULLAH	2	2-Jul-19	19-Nov-19	
		KHYBER PAKHTUNKHWA (KP)	BANNU	1	13-Nov-19	13-Nov-19
SWABI	1		17-Nov-19	17-Nov-19		
TANK	1		30-Oct-19	30-Oct-19		
LAKKIMRWAT	3		27-May-19	04-Oct-19		
TORGHAR	1	25-May-19	25-May-19			
2019 Total				24	06-Mar-19	24-Dec-19

Table 5: Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (10/2020) / Ending on : (08/03/2020)

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	604	43	4	44	394	122		1	29						28				6	7%	100%	100%	100%	08/03/2020	
Bahrain	NPL Oman / CDC																								02/03/2020	
Djibouti	NPL Kenya / CDC																								16/02/2020	
Egypt***	RRL Egypt	179	4	1	12	123	36	3		4									1		6%	100%	100%	100%	08/03/2020	
Iran	NPL Iran / CDC	182	2		2	166	11	1		2						1					1%	100%	100%	100%	07/03/2020	
Iraq	RRL Egypt	154			14	115	20	5													10%	100%		100%	05/03/2020	
Jordan	NPL Jordan / RRL EGYPT	16			3	11	2														21%	100%		100%	08/03/2020	
Kuwait	RRL Kuwait / RIVM	8				6	2														5%	100%		100%	08/03/2020	
Lebanon	NPL Jordan / RRL EGYPT	16			4	10	2														29%	100%		100%	08/03/2020	
Libya	RRL Tunisia / RIVM	27	3			15	9									3					0%	100%	100%	100%	06/03/2020	
Morocco	NPL Morocco / RRL Tunisia	24			1	18	5														3%	100%		100%	28/02/2020	
Oman	NPL Oman / CDC	4				3	1														14%	100%		100%	02/03/2020	
Pakistan	RRL Pakistan	2574	229	12	172	1648	485	25	23	55		40	12		80				72		7%	100%	100%	99%	08/03/2020	
Palestine & UNRWA		6				4		2													0%	25%		100%	23/02/2020	
Qatar	NPL Oman / CDC																								02/03/2020	
Saudi Arabia	NPL Saudi Arabia / CDC	30				26	4														0%	100%			05/03/2020	
Somalia	NPL Kenya / CDC	86	1		15	48	13	9			1										23%	6%		100%	08/03/2020	
Sudan	NPL Sudan / RRL Egypt	84			10	65	9														15%	100%			08/03/2020	
Syria	NPL Syria / RRL Egypt	80	3			54	19	4													0%	100%			05/03/2020	
Tunisia	RRL Tunisia	6				4	2														0%	100%		100%	06/03/2020	
U.A.E	NPL Oman / CDC	9				3	6														0%	100%		0%	02/03/2020	
Yemen	NPL Kenya / CDC	24	2				6	16							2						0%	100%	100%	0%	07/03/2020	
Total EMR 2020		4113	287	17	277	2713	754	65	24	90	1	40	12		114			1		78	7%	98%	100%	99%		
Total EMR 2019		24673	1048	98	3614	19862	3	33	151	572	1	46	24		623	1	3	21	6	1	12%	95%	99%	97%		

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

** This indicator reflects surveillance and laboratory activities

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Table 6: Environmental isolate by year and type

COUNTRY	LAB RESULTS	2016	2017	2018	2019	2020
AFG	Wild	2	42	83	56	3
	Wild+cVDPV2					1
	cVDPV2					1
	EV/SL	177	265	248	196	16
	Negative	6	9	5	3	
AFG Total		185	316	336	259	51
EGY	EV/SL	492	481	508	666	59
	Negative	36	41	32	34	5
	Pending					16
EGY Total		528	522	540	700	80
IRN	Wild				3	
	EV/SL		5	51	65	3
	Negative		1	3	3	
	Pending					2
IRN Total			6	54	71	5
JOR	EV/SL	2	29	36	36	1
	Negative		2			1
	Pending					4
JOR Total		2	31	36	36	6
KUW	EV/SL			3	3	
	Pending				8	
KUW Total				3	11	
LEB	EV/SL	2	26	44	44	2
	Negative	2	1	1	3	
	Pending					2
LEB Total		4	27	45	47	4
PAK	Wild	60	106	139	368	67
	Wild+cVDPV2	2			9	2
	cVDPV2	2			22	2
	aVDPV2	3	4		2	
	EV/SL	456	523	531	419	15
	Negative	6		3	4	2
	Pending				7	43
PAK Total		529	633	673	831	131
SOM	cVDPV2		2	19	5	4
	cVDPV3			11		
	aVDPV2			2	1	
	EV/SL		20	43	28	3
	Negative		14	138	29	5
SOM Total			36	213	63	16
SUD	EV/SL			15	41	
	Negative				1	
	Pending				18	5
SUD Total				15	60	5
SYR	EV/SL		4	81	155	14
	Negative			21	30	5
	Pending					6
SYR Total			4	102	185	25
TOTAL		1248	1575	2017	2263	323

Table 7: Environmental Wild/VDPV isolate by site 2019-2020

YEAR	COUNTRY	LAB RESULTS	PROVINCE	Count	First date	Last date
2019	AFG	Wild	HILMAND	19	6/Jan/19	25/Dec/19
			KANDAHAR	24	6/Jan/19	25/Dec/19
			NANGARHAR	13	26/Jan/19	25/Dec/19
	AFG Total			56	6/Jan/19	25/Dec/19
	IRN	Wild	S & B	3	22/Apr/19	20/May/19
			IRN Total	3	22/Apr/19	20/May/19
	PAK	Wild	BALOCHISTAN	72	1/Jan/19	20/Dec/19
			ISLAMABAD	3	12/Apr/19	21/Aug/19
			KPAKHTUNKHWA	40	8/Jan/19	28/Dec/19
			PUNJAB	98	5/Jan/19	17/Dec/19
			SINDH	155	2/Jan/19	20/Dec/19
			Wild+cVDPV2	KPAKHTUNKHWA	1	31/Dec/19
		cVDPV2	PUNJAB	4	6/Aug/19	15/Nov/19
			SINDH	4	7/Oct/19	18/Dec/19
			GBALTISTAN	5	24/Aug/19	6/Nov/19
		aVDPV2	ISLAMABAD	1	12/Nov/19	12/Nov/19
			KPAKHTUNKHWA	7	9/Oct/19	24/Dec/19
PUNJAB			8	21/Aug/19	17/Dec/19	
SINDH			1	19/Dec/19	19/Dec/19	
PUNJAB	2	11/Apr/19	18/Dec/19			
PAK Total			401	1/Jan/19	31/Dec/19	
SOM	cVDPV2	BANADIR	5	10/Nov/19	22/Dec/19	
		aVDPV2	1	3/Feb/19	3/Feb/19	
SOM Total			6	3/Feb/19	22/Dec/19	
2019 Total			466	1/Jan/19	31/Dec/19	
2020	AFG	Wild	HILMAND	1	1/Jan/20	1/Jan/20
			KANDAHAR	1	28/Jan/20	28/Jan/20
			NANGARHAR	1	26/Jan/20	26/Jan/20
			Wild+cVDPV2	1	8/Jan/20	8/Jan/20
			cVDPV2	1	7/Jan/20	7/Jan/20
	AFG Total			5	1/Jan/20	28/Jan/20
	PAK	Wild	BALOCHISTAN	17	1/Jan/20	20/Feb/20
			ISLAMABAD	1	16/Jan/20	16/Jan/20
			KPAKHTUNKHWA	3	28/Jan/20	8/Feb/20
			PUNJAB	15	4/Jan/20	20/Feb/20
		Wild+cVDPV2	SINDH	31	3/Jan/20	20/Feb/20
			PUNJAB	1	4/Jan/20	4/Jan/20
		cVDPV2	SINDH	1	3/Jan/20	3/Jan/20
KPAKHTUNKHWA			2	10/Jan/20	20/Jan/20	
PAK Total			71	1/Jan/20	20/Feb/20	
SOM	cVDPV2	BANADIR	4	5/Jan/20	4/Feb/20	
		SOM Total	4	5/Jan/20	4/Feb/20	
2020 Total			80	1/Jan/20	20/Feb/20	
TOTAL			546	1/Jan/19	20/Feb/20	

Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2020 - 08/03/2020

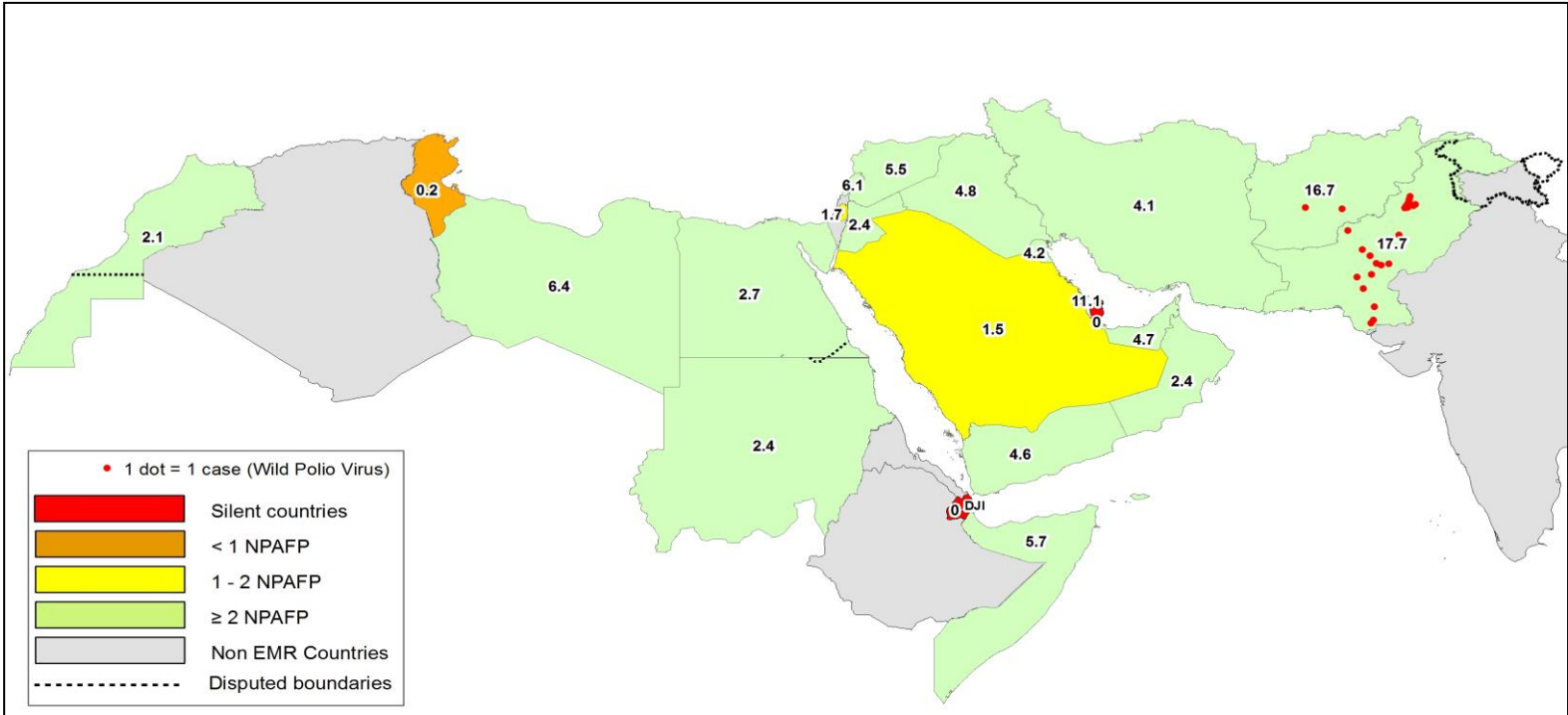


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2020 - 08/03/2020

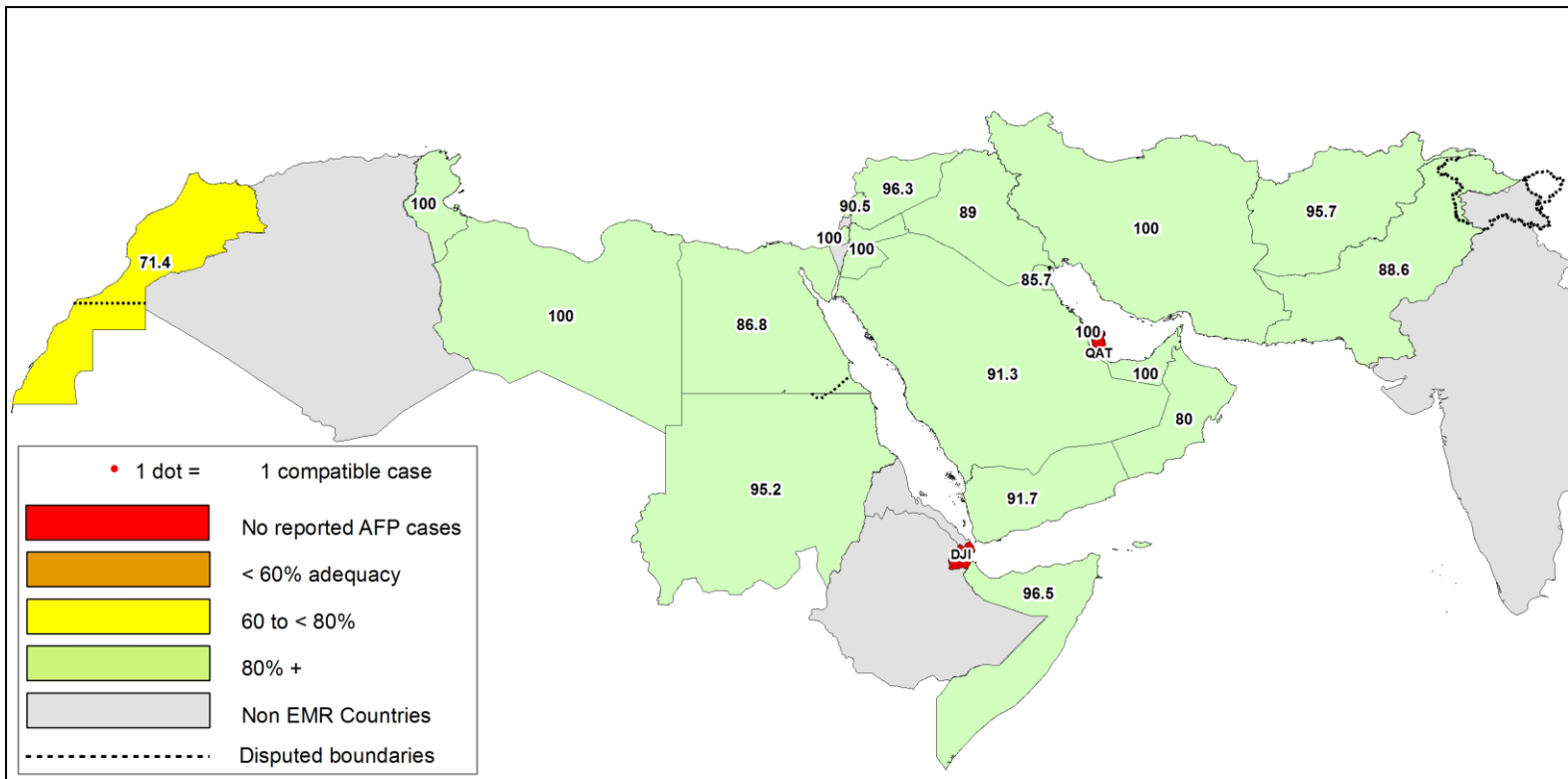


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2019 - 2020

Year	COUNTRY	Count	First Case	Last Case
2020	AFG	2	4-Jan-20	21-Jan-20
	PAK	25	1-Jan-20	12-Feb-20
2020 Total		27	1-Jan-20	12-Feb-20
2019	AFG	29	4-Jan-19	7-Dec-19
	PAK	146	15-Jan-19	31-Dec-19
2019 Total		175	4-Jan-19	31-Dec-19

Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2020 - 08/03/2020

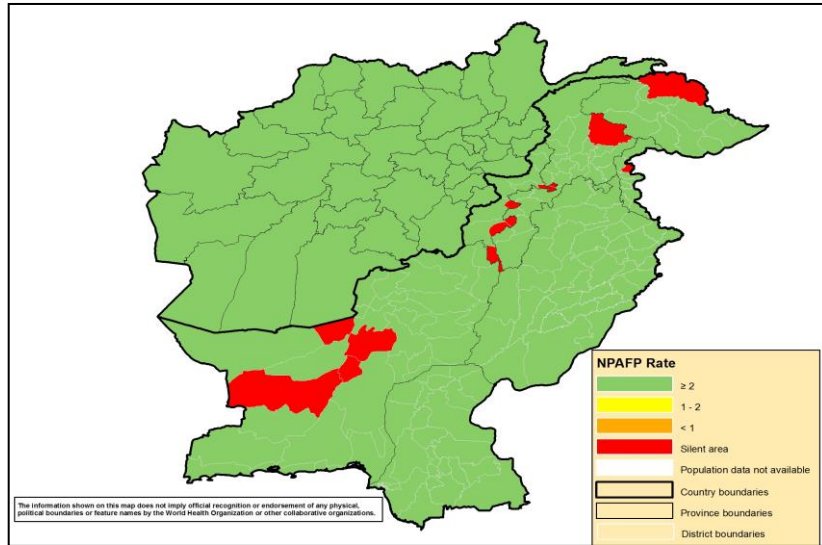


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2020 - 08/03/2020

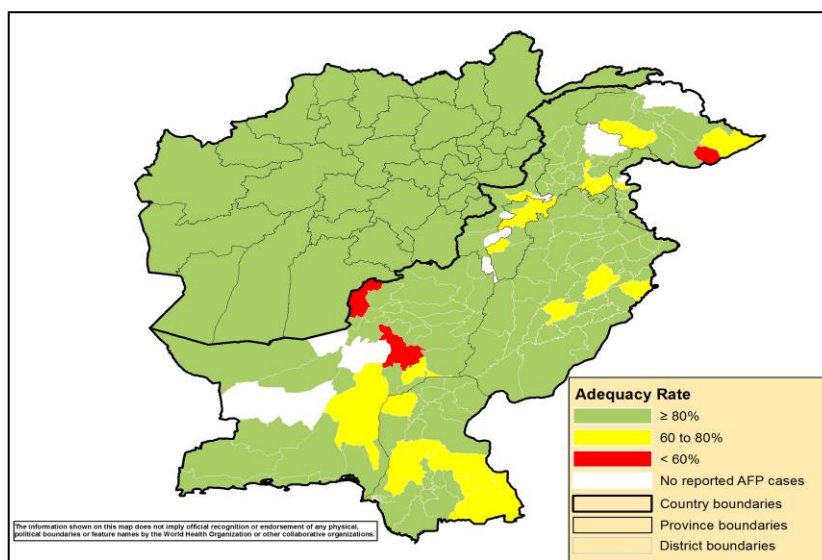
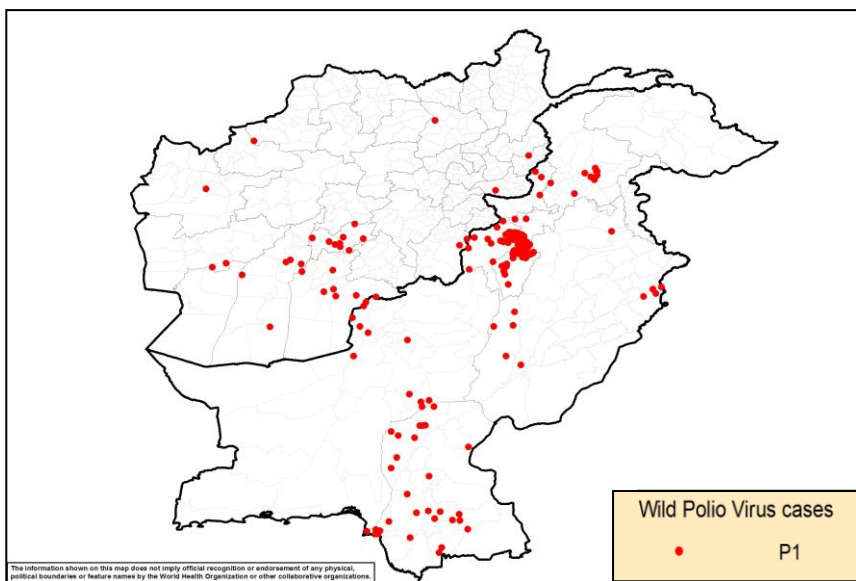
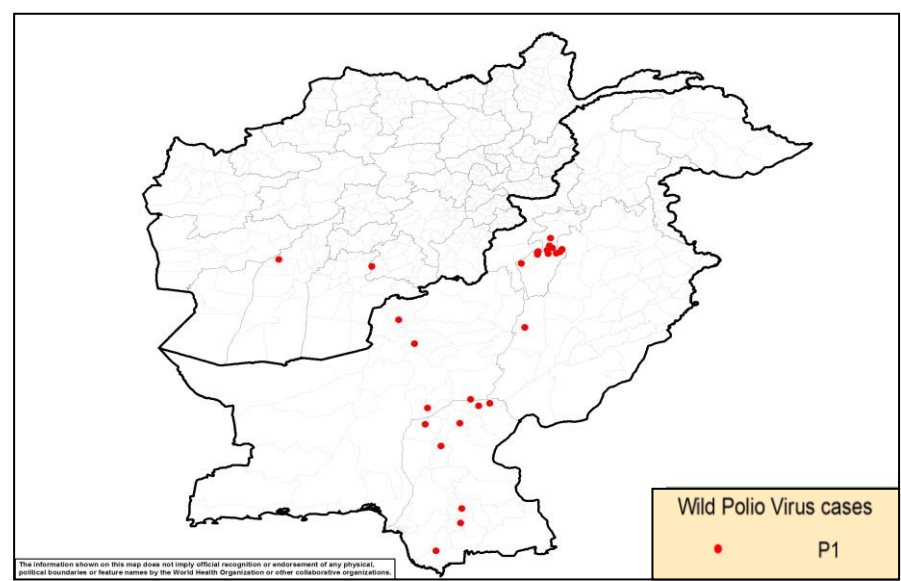


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

5(a) 01/01/2019 - 31/12/2019



5(b) 01/01/2020 - 08/03/2020



World Health Organization – Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

Week 10, ending 08 March 2020

9-Mar-20

Number 1118

Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2019-2020

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case	
2020	ZABUL	MIZAN	1	21-Jan-20	21-Jan-20	
	HILMAND	WASHER	1	4-Jan-20	4-Jan-20	
2020 Total			2	4-Jan-20	21-Jan-20	
2019	KANDAHAR	SHAHWALIKOT	1	7-Dec-19	7-Dec-19	
		SPINBOLDAK	2	4-Jan-19	22-Nov-19	
		KANDAHAR	2	17-Aug-19	10-Nov-19	
		GHORAK	1	12-Jan-19	12-Jan-19	
	FARAH	BAKWA	2	14-Nov-19	25-Nov-19	
	HIRAT	PASHTUNZARGHUN	1	19-Nov-19	19-Nov-19	
	BAGHLAN	PUL-E- KHUMRI	1	14-Nov-19	14-Nov-19	
	URUZGAN	KHASURUZGAN	1	2-Nov-19	2-Nov-19	
		TIRINKOT	4	19-May-19	2-Aug-19	
		CHORA	3	20-Mar-19	23-Jul-19	
		SHAHID-E-HASSAS	1	25-Feb-19	25-Feb-19	
	BADGHIS	BALAMURGHAB	1	17-Oct-19	17-Oct-19	
	PAKTIKA	BERMEL	2	15-Sep-19	28-Sep-19	
	NANGARHAR	KHOGYANI	1	18-Sep-19	18-Sep-19	
	HILMAND	GARMSEER	1	26-May-19	26-May-19	
		MUSAQALAH	1	5-May-19	5-May-19	
		NAWZAD	1	3-Apr-19	3-Apr-19	
		WASHER	1	23-Mar-19	23-Mar-19	
		SANGIN	1	6-Mar-19	6-Mar-19	
	KUNAR	WATAPUR	1	8-May-19	8-May-19	
	2019 Total			29	4-Jan-19	7-Dec-19

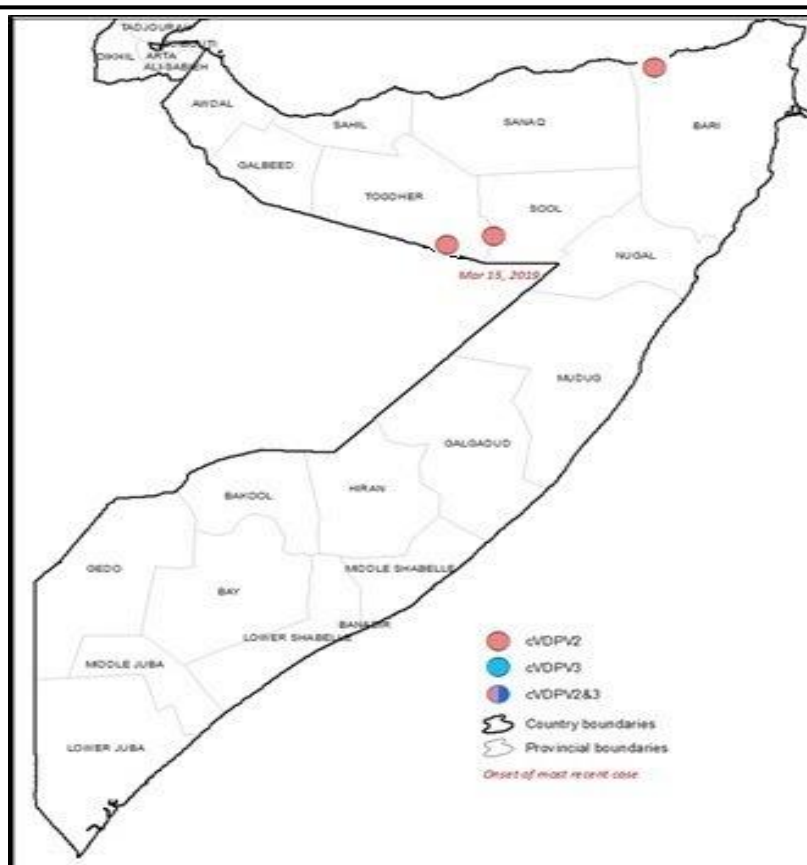
Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2019-2020

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case	
2020	BALOCHISTAN	SOHBATPUR	1	12-Feb-20	12-Feb-20	
		SIBI	1	7-Feb-20	7-Feb-20	
		PISHIN	1	31-Jan-20	31-Jan-20	
		NSIRABAD	1	3-Jan-20	3-Jan-20	
	SINDH	SHIKARPUR	1	11-Feb-20	11-Feb-20	
		NFEROZ	1	8-Feb-20	8-Feb-20	
		KASHMORE	2	16-Jan-20	3-Feb-20	
		KAMBAR	1	8-Jan-20	8-Jan-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	
	KHYBER PAKHTUNKHWA	LAKKIMRWT	10	2-Jan-20	2-Feb-20	
		KARAK	1	20-Jan-20	20-Jan-20	
TANK		1	11-Jan-20	11-Jan-20		
PUNJAB	DGKHAN	1	18-Jan-20	18-Jan-20		
2020 Total			25	1-Jan-20	12-Feb-20	
2019	KHYBER PAKHTUNKHWA	LAKKIMRWT	32	27-May-19	31-Dec-19	
		DIKHAN	4	5-May-19	21-Dec-19	
		TANK	6	11-Oct-19	18-Dec-19	
		BANNU	26	15-Jan-19	30-Nov-19	
		SWABI	1	17-Nov-19	17-Nov-19	
		TORGHAR	7	25-May-19	13-Sep-19	
		HANGU	2	20-Jan-19	28-Jul-19	
		CHARSADA	1	21-Jul-19	21-Jul-19	
		SHANGLA	1	18-May-19	18-May-19	
		BALOCHISTAN	KABDULAH	5	9-Jun-19	31-Dec-19
			JAFARABAD	3	28-May-19	18-Dec-19
			NSIRABAD	1	5-Dec-19	5-Dec-19
			MASTUNG	1	18-Nov-19	18-Nov-19
			HARNAI	1	27-Sep-19	27-Sep-19
	PUNJAB	QUETTA	1	6-Jul-19	6-Jul-19	
		LAHORE	5	20-Jan-19	28-Dec-19	
		DGKHAN	4	2-Dec-19	25-Dec-19	
		OKARA	1	8-Dec-19	8-Dec-19	
		MUZFARGARH	1	26-Nov-19	26-Nov-19	
		JHELUM	1	21-Jun-19	21-Jun-19	
		SINDH	THATTA	1	26-Dec-19	26-Dec-19
			DADU	2	6-Dec-19	26-Dec-19
			LARKANA	3	17-Apr-19	24-Dec-19
			JAMSHORO	3	23-Aug-19	22-Dec-19
	JACOBABAD		1	19-Dec-19	19-Dec-19	
	MIRPURKHAS		4	17-Nov-19	18-Dec-19	
	KAMBAR		3	2-Nov-19	14-Dec-19	
	BADIN		1	28-Nov-19	28-Nov-19	
	T.ALLAHYAR		1	10-Nov-19	10-Nov-19	
	KHIKAMARI		1	29-Oct-19	29-Oct-19	
	SUKKUR		1	27-Oct-19	27-Oct-19	
	KHIJAMSHEED		1	24-Oct-19	24-Oct-19	
	SBENAZIRABAD		1	19-Oct-19	19-Oct-19	
	SUJAWAL		1	25-Sep-19	25-Sep-19	
	KP TRIBAL DISTRICTS	KHIORANGI	2	20-Aug-19	26-Aug-19	
		HYDERABAD	2	20-Jul-19	5-Aug-19	
		KHIGIQBAL	1	29-Apr-19	29-Apr-19	
		KHILAYARI	1	25-Feb-19	25-Feb-19	
		MOHMAND	1	20-Dec-19	20-Dec-19	
		WAZIR-S	1	20-Aug-19	20-Aug-19	
		WAZIR-N	8	4-Apr-19	21-Jul-19	
KHYBER		1	14-Feb-19	14-Feb-19		
BAJOUR	1	18-Jan-19	18-Jan-19			
2019 Total			146	15-Jan-19	31-Dec-19	

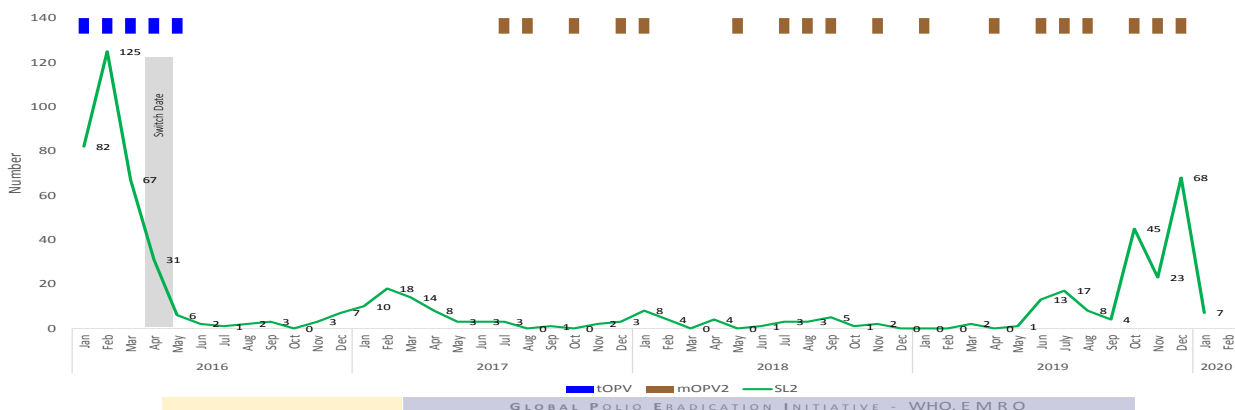
Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2019-2020

COUNTRY	YEAR	PROVINCE	DISTRICT	cVDPV2		
				Count	First Case	Last Case
PAK	2020	PUNJAB	RAWALPINDI	1	18-Jan-20	18-Jan-20
		KHYBER PAKHTUNKHWA	PESHAWAR	2	02-Jan-20	29-Jan-20
			BAJOUR	2	03-Jan-20	28-Jan-20
			KHYBER	6	12-Jan-20	29-Jan-20
			NOWSHERA	1	18-Jan-20	18-Jan-20
Total 2020				12	2-Jan-20	29-Jan-20
PAK	2019	PUNJAB	GUJRANWALA	1	22-Nov-19	22-Nov-19
		KHYBER PAKHTUNKHWA	KHYBER	3	12-Dec-19	28-Dec-19
			MOHMAND	3	12-Dec-19	21-Dec-19
			BAJOUR	1	1-Dec-19	1-Dec-19
			PESHAWAR	1	8-Dec-19	8-Dec-19
			LAKKI MARWAT	1	13-Dec-19	13-Dec-19
			CHARSADA	1	3-Nov-19	3-Nov-19
			KOHISTANUPPER	1	27-Oct-19	27-Oct-19
			KOHISTANLOWER	2	6-Oct-19	11-Oct-19
		TORGHAR	3	4-Sep-19	17-Dec-19	
		ISLAMABAD	CDA	1	11-Sep-19	11-Sep-19
GILGIT BALTISTAN	DIAMER	4	7-Jul-19	28-Aug-19		
SOM		BARI	BOSSASO	1	8-May-19	8-May-19
		TOGDHER	BUHODLE	1	21-Apr-19	21-Apr-19
		SOOL	LAS ANOD	1	15-Mar-19	15-Mar-19
Total 2019				25	15-Mar-19	28-Dec-19

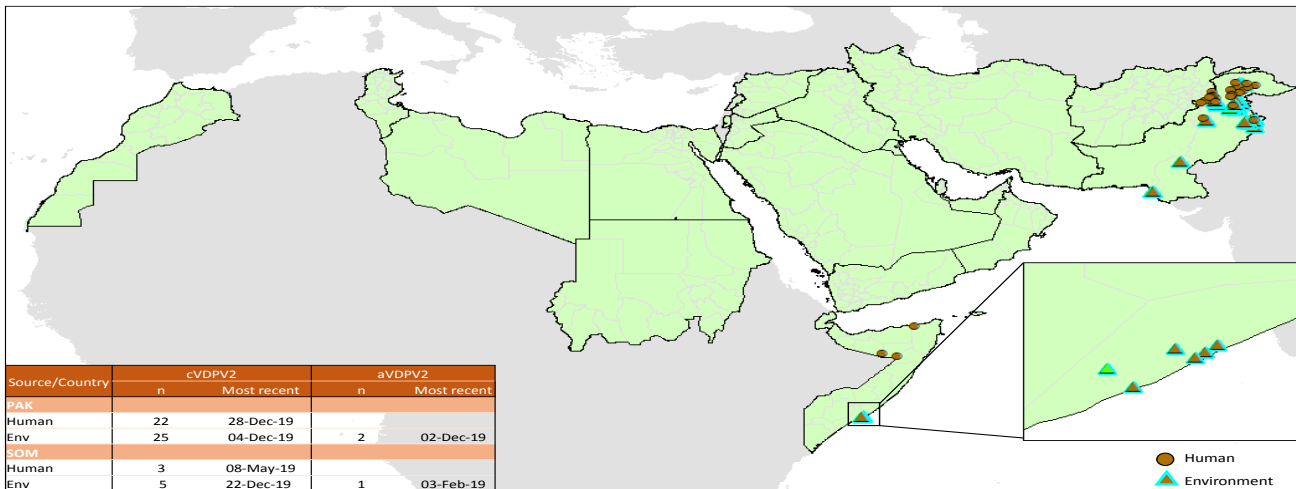
Figure 6: Somalia cVDPV cases by type and district 01/01/2019 - 31/12/2019



Sabin like type-2 poliovirus isolates (H&E) and vaccine types used during SIAs, EMRO, 2016 to 2020



VDPV2 isolates, EMR countries, 2019



VDPV2 isolates, EMR countries, 2020

