

Highlights of Polio Fax Bulletin No. 1119 for Week 11 2020

I. Wild Poliovirus Transmission

Endemic countries (Pakistan & Afghanistan): Following was reported this week:

- 5 new wild poliovirus type-1 (WPV1) cases and 3 new WPV1 positive environmental samples from Pakistan.
- a. *Human samples:* Five new WPV1 cases reported this week in 2020. Total WPV1 cases in 2020 to date is 32 (2 from Afghanistan and 30 from Pakistan). This compares with 10 cases in 2018 in the same period (4 from Afghanistan and 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.
 - **Pakistan:** 5 new WPV1 cases reported and details are as follows:
 - Case (1): The case is from Tank district, Khyber Pakhtunkhwa (KP) province, with date of onset 17 February 2020. The case is a 36-month old female child. The child reportedly received 3 oral polio vaccine (OPV) doses from supplementary immunization activities (SIAs) and none from routine.
 - Case (2): The case is from South Waziristan district, KP province, with date of onset 21 February 2020. The case is a 13-month old male child. The child reportedly received 4 OPV doses from SIAs and none from routine.
 - Case (3): The case is from Zhob district, Balochistan province, with date of onset 22 February 2020. The case is a 24-month old male child. The child reportedly received 4 OPV doses from SIAs and none from routine.
 - Case (4): The case is from Naushero Feroze district, Sindh province, with date of onset 22 February 2020. The case is a 48-month old female child. The child reportedly received 3 OPV doses from routine and 7+ doses from SIAs.
 - Case (5): The case is from Lakki Marwat district, KP province, with date of onset 25 February 2020. The case is a 14-month old female child. The child reportedly received 4 OPV doses from SIAs and none from routine.
 In 2020, 30 WPV1 cases are reported, 15 from KP, 9 from Sindh, 5 from Balochistan and 1 from Punjab provinces. The most recent case has onset of paralysis on 25 February 2020.
- b. *Environmental samples:* 3 new WPV1 positive environmental samples reported this week from Pakistan all in 2020:
- **Afghanistan:** In 2020 to date, there are 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 72 WPV1 positive environmental samples including 4 combined (WPV1 and cVDPV2) with most recent positive sample collected on 25 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:** 13 new cVDPV2 cases were reported this week.
Newly reported cases are one each from Lakki Marwat, Mardan, Bajour, Dir Lower, Banuu and Nowshera districts; and seven cases from Khyber district, all from KP province, and their dates of onset varies between 2 January 2020 to 12 February 2020.

In 2020 to date, there are 25 cVDPV2 cases reported. Cases include 24 from KP and one from Punjab province, with most recent onset on 12 February 2020.

Environment: In 2020, there are 8 positive environmental samples for cVDPV2 (including 4 combined WPV1 and cVDPV2), the recent most sample collected on 10 February 2020.

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.

- *An AFP case with VDPV1 was earlier reported from Lughaya district, Awdal province, with date of onset 26 January 2020. Field investigation report of the case is awaited.*

III. **Surveillance performance indicators**

In 2020, 17 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 also is missing both indicators as it has a non-polio afp rate of 1.9 and percentage of AFP cases with adequate stool specimens of 71.4%
- Palestine and Tunisia have a non-polio AFP rate of 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 (11/20) / Ending on : 15/03/2020														
	Total AFP 2018	Total AFP 2019	Total AFP to date, 2020	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	W11 15 Mar 20
Afghanistan	3378	3768	685	67	80	67	72	87	97	60	65	76	55	34	3
Bahrain	35	17	6	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	206	13	29	18	21	24	23	22	11	23	22	14	
Iran	896	1070	176	24	20	21	30	22	25	23	25	8	1	1	
Iraq	1023	1157	165	13	23	20	12	22	20	25	17	13	11	4	
Jordan ****	115	113	17	1	1	4	0	3	0	3	2	3	1	0	0
Kuwait	72	48	9	2	1	1	1	0	0	2	1	1	2	0	
Lebanon ****	89	87	22	4	4	2	2	3	2	2	1	2	4	1	
Libya	122	107	33	4	4	4	5	1	4	3	3	3	4	2	
Morocco	212	247	35	2	4	2	3	5	6	4	2	8	1	0	
Oman	28	30	5	1	0	1	0	0	2	0	0	1	1	0	0
Pakistan	12276	15203	2899	295	361	326	331	353	323	300	363	336	223	61	1
Palestine ****	44	62	6	1	0	1	0	2	1	1	1	0	0	0	
Qatar	10	9	0	0	0	0	0	0	0	0	0	0	0	0	
Saudi Arabia	242	236	34	4	1	5	8	3	0	5	7	3	3	0	
Somalia	353	361	93	5	10	6	8	16	16	6	12	6	10	4	0
Sudan	579	608	89	5	14	10	12	13	13	13	2	7	4	3	0
Syria ****	362	377	84	3	7	7	11	12	15	8	12	5	7	3	
Tunisia	68	79	1	0	1	0	0	0	0	0	0	0			
U.A.E	40	50	11	2	3	0	1	1	3	2	1	0	0	0	
Yemen	730	779	137	25	9	18	14	13	16	15	19	15	11	7	
Total EMR	21920	25756	4713	471	572	513	531	580	567	495	545	512	361	134	4

No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2018	Total year 2019	15/03		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	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			
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			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	12	146	6	30	11	11	16	12	14	5	16	23	32	18	12	
Palestine ****	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	
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			
Yemen	0	0	0	0												
Total EMR	33	175	10	32	12	16	17	14	16	8	17	30	33	20	12	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 (11/20) / Ending on : 15/03/2020

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	11	3727	0	18.5	5	0	94.1	29	0	685	2	0	149	534	0	16.4	0	0	95.2	2	0	15/03/2020
Bahrain	17	0	0	2	15	0	5.9	2	0	100.0	0	0	6	0	0	6	0	0	10.1	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	15/03/2019
Egypt	1343	0	0	2	1341	0	3.6	1	0	93.4	0	0	206	0	0	76	130	0	2.7	0	0	90.8	0	0	12/03/2020
Iran	1070	0	0	0	1069	1	5.2	0	0	97.1	0	0	176	0	0	17	159	0	4.1	0	0	99.4	0	0	14/03/2020
Iraq	1157	0	0	0	1157	0	7.4	0	0	94.3	0	0	165	0	0	85	80	0	5.0	0	0	89.1	0	0	15/03/2020
Jordan	113	0	0	0	113	0	3.9	0	0	100.0	0	0	17	0	0	5	12	0	2.2	0	0	100.0	0	0	15/03/2020
Kuwait	48	0	0	0	48	0	5.4	0	0	89.6	0	0	9	0	0	3	6	0	4.9	0	0	100.0	0	0	14/03/2020
Lebanon	87	0	0	8	79	0	4.7	8	0	89.7	0	0	22	0	0	13	9	0	5.8	0	0	95.5	0	0	13/03/2020
Libya	107	0	0	0	107	0	4.3	0	0	98.1	0	0	33	0	0	8	25	0	6.4	0	0	100.0	0	0	14/03/2020
Morocco	247	0	0	0	247	0	2.8	0	0	84.2	0	0	35	0	0	21	14	0	1.9	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	1	4	0	2.1	0	0	80.0	0	0	15/03/2020
Pakistan	15203	146	5	228	14802	23	19.3	161	1	86.6	146	0	2899	30	0	782	2062	25	17.9	0	0	88.1	30	0	15/03/2020
Palestine	62	0	0	1	61	0	3.3	1	0	98.4	0	0	6	0	0	6	0	0	1.5	0	0	100.0	0	0	09/03/2020
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	0	236	0	2.8	0	0	93.2	0	0	34	0	0	34	0	0	2.0	0	0	94.1	0	0	12/03/2020
Somalia	361	0	0	0	358	3	5.7	0	0	95.6	0	0	93	0	0	23	69	1	5.6	0	0	96.8	0	0	15/03/2020
Sudan	608	0	0	0	608	0	3.4	0	0	96.4	0	0	89	0	0	11	78	0	2.3	0	0	95.5	0	0	15/03/2019
Syria	377	0	0	0	377	0	4.8	0	0	88.1	0	0	84	0	0	16	68	0	5.1	0	0	94.0	0	0	14/03/2020
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	4.3	0	0	100.0	0	0	08/03/2020
Yemen	779	0	0	328	451	0	5.5	293	260	89.0	0	0	137	0	0	112	25	0	4.7	0	0	92.7	0	0	14/03/2020
EMR	25756	175	6	583	24965	28	10.2	475	262	89.5	175	0	4713	32	0	1375	3280	26	8.9	0	0	90.4	32	0	
2018	21920	33	4	86	21782	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	189	2	0	9	13	40
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	41	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	90	0	0	0	2	36
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	0	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	30	0	0	1	3	13
PAK	5497	26	9	248	959	0	1381	10	1	150	120	202
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	6	284	0	0	2	33	81
SUD	402	0	0	1	31	90	30	0	0	0	2	8
SYR	813	0	0	23	36	0	171	0	0	5	1	24
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	423	0	0	0	0	220	53	0	0	0	0	53
EMR	10935	34	10	395	1508	352	2271	12	1	167	174	475

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	10	18/Feb/20
2020 Total		12	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 KARAK	1 1	18-Jan-20 20-Jan-20	18-Jan-20 20-Jan-20
	2020 Total				3	04-Jan-20
2019	AFG	URUZGAN	TIRINKOT	1	2-Aug-19	2-Aug-19
		HILMAND	MUSAQALAH SANGIN	1 1	05-Jun-19 06-Mar-19	05-Jun-19 06-Mar-19
	PAK	PUNJAB	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

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Table 5: Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (11/2020) / Ending on : (15/03/2020)

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	641	47	4	59	459	72		1	36						32				2	8%	100%	100%	100%	15/03/2020	
Bahrain	NPL Oman / CDC																								15/03/2020	
Djibouti	NPL Kenya / CDC																								15/03/2020	
Egypt***	RRL Egypt	198	11	1	16	129	33	8		6						4			1	1	7%	100%	100%	100%	11/03/2020	
Iran	NPL Iran / CDC	182	2		2	166	6	6		2						1					1%	100%	100%	100%	07/03/2020	
Iraq	RRL Egypt	164			14	129	15	6													8%	100%		100%	15/03/2020	
Jordan	NPL Jordan / RRL EGYPT	16			3	13															19%	100%		100%	15/03/2020	
Kuwait	RRL Kuwait / RIVM	10				6	2	2													5%	100%		100%	12/03/2020	
Lebanon	NPL Jordan / RRL EGYPT	16			4	11	1														27%	100%		100%	15/03/2020	
Libya	RRL Tunisia / RIVM	27	3			15	2	7								3					0%	100%	100%	100%	06/03/2020	
Morocco	NPL Morocco / RRL Tunisia	32			1	25	6														2%	100%		100%	13/03/2020	
Oman	NPL Oman / CDC	5			2	3															19%	100%		100%	15/03/2020	
Pakistan	RRL Pakistan	2852	269	20	203	1876	364	115	28	80			62	24		113				41	7%	100%	97%	98%	15/03/2020	
Palestine & UNRWA		6				6															0%	33%		100%	09/03/2020	
Qatar	NPL Oman / CDC																								15/03/2020	
Saudi Arabia	NPL Saudi Arabia / CDC	37				29	8														0%	100%			12/03/2020	
Somalia	NPL Kenya / CDC	93	1		15	54	11	12			1										21%	9%		100%	15/03/2020	
Sudan	NPL Sudan / RRL Egypt	88			10	70	8														14%	100%			15/03/2020	
Syria	NPL Syria / RRL Egypt	82	4			67	11														1%	100%			12/03/2020	
Tunisia	RRL Tunisia	6				4		2													0%	100%		100%	06/03/2020	
U.A.E	NPL Oman / CDC	9				9															0%	100%		67%	15/03/2020	
Yemen	NPL Kenya / CDC	24	2		7	15										2					29%	100%	100%	0%	14/03/2020	
Total EMR 2020		4488	339	25	336	3086	539	158	29	124	1		62	24		155			1	1	43	7%	98%	98%	98%	
Total EMR 2019		24672	1048	98	3614	19865	1	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

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	200	30
	Negative	6	9	5	3	
AFG Total		185	316	336	259	62
EGY	EV/SL	492	481	508	666	77
	Negative	36	41	32	34	3
	Pending					24
	EGY Total	528	522	540	700	104
IRN	Wild				3	
	EV/SL		5	51	65	3
	Negative		1	3	3	
	Pending					7
IRN Total		6	54	71	10	
JOR	EV/SL	2	29	36	36	2
	Negative		2			1
	Pending					6
JOR Total		2	31	36	36	9
KUW	EV/SL			3	3	
	Pending				8	
KUW Total				3	11	
LEB	EV/SL	2	26	44	44	4
	Negative	2	1	1	3	
	Pending					4
LEB Total		4	27	45	47	8
PAK	Wild	60	106	139	368	68
	Wild+cVDPV2	2			10	4
	cVDPV2	2			21	4
	aVDPV2	3	4		2	
	EV/SL	456	523	531	421	18
	Negative	6		3	4	2
	Pending				5	65
PAK Total		529	633	673	831	161
SOM	cVDPV2		2	19	5	4
	cVDPV3			11		
	aVDPV2			2	1	
	EV/SL		20	43	28	3
	Negative		14	138	29	6
SOM Total			36	213	63	20
SUD	EV/SL			15	42	5
	Negative				1	
	Pending				17	5
SUD Total			15	60	10	
SYR	EV/SL		4	81	155	22
	Negative			21	30	6
	Pending					13
SYR Total			4	102	185	41
TOTAL		1248	1575	2017	2263	425

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	BALUCHISTAN	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	31/Dec/19		
			PUNJAB	5	6/Aug/19	16/Dec/19		
			SINDH	4	7/Oct/19	18/Dec/19		
		cVDPV2	GBALISTAN	5	24/Aug/19	6/Nov/19		
			ISLAMABAD	1	12/Nov/19	12/Nov/19		
			KPAKHTUNKHWA	7	9/Oct/19	24/Dec/19		
			PUNJAB	7	21/Aug/19	17/Dec/19		
			SINDH	1	19/Dec/19	19/Dec/19		
	aVDPV2	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	NANGARHAR	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	AJK	1	25/Feb/20	25/Feb/20		
			BALUCHISTAN	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		
			BALUCHISTAN	1	1/Feb/20	1/Feb/20		
			PUNJAB	1	4/Jan/20	4/Jan/20		
		cVDPV2	SINDH	2	3/Jan/20	6/Feb/20		
			KPAKHTUNKHWA	3	10/Jan/20	10/Feb/20		
			PUNJAB	1	10/Feb/20	10/Feb/20		
			PAK Total		76	1/Jan/20	25/Feb/20	
			SOM	cVDPV2	BANADIR	4	5/Jan/20	4/Feb/20
					SOM Total	4	5/Jan/20	4/Feb/20
2020 Total			85	1/Jan/20	25/Feb/20			

Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2020 - 15/03/2020

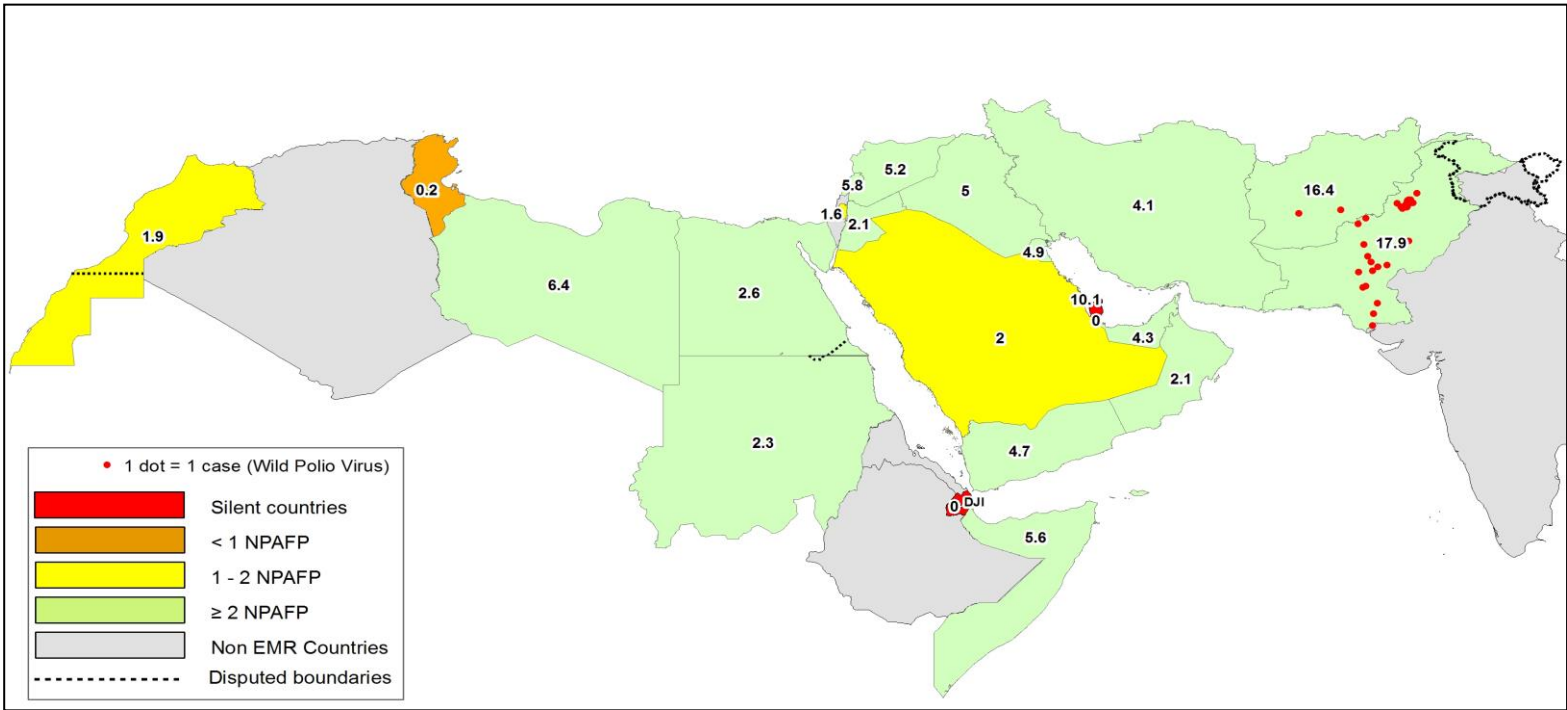


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2020 - 15/03/2020

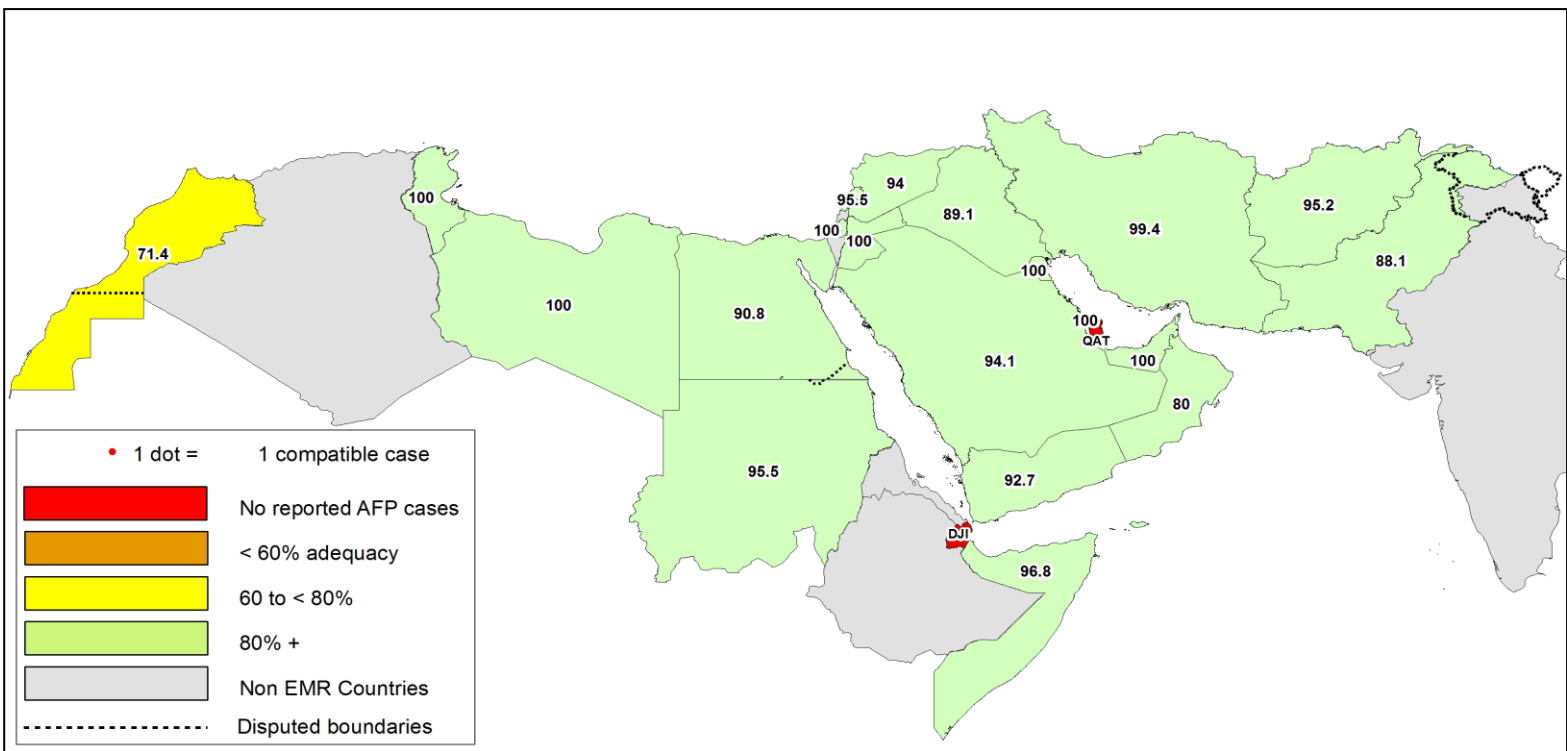


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2019 - 2020

Year	COUNTRY	Count	First Case	Last Case
2020	AFG	2	4-Jan-20	21-Jan-20
	PAK	30	1-Jan-20	25-Feb-20
2020 Total		32	1-Jan-20	25-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 - 15/03/2020

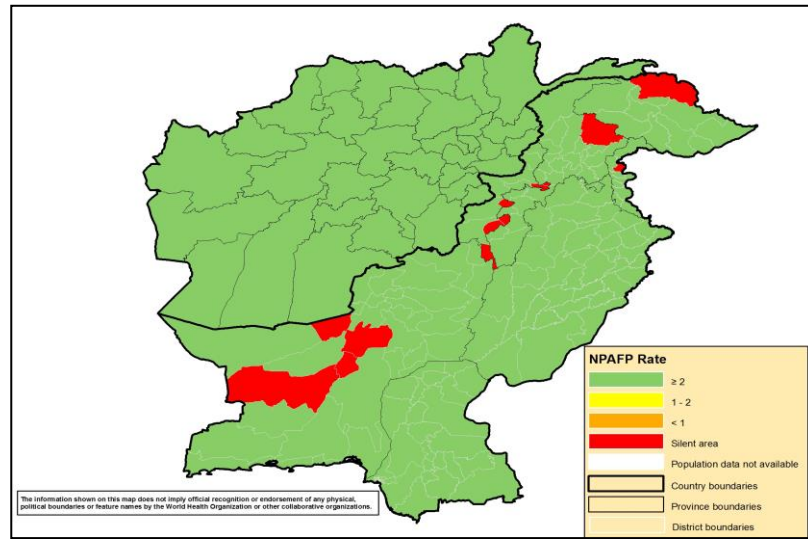


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2020 - 15/03/2020

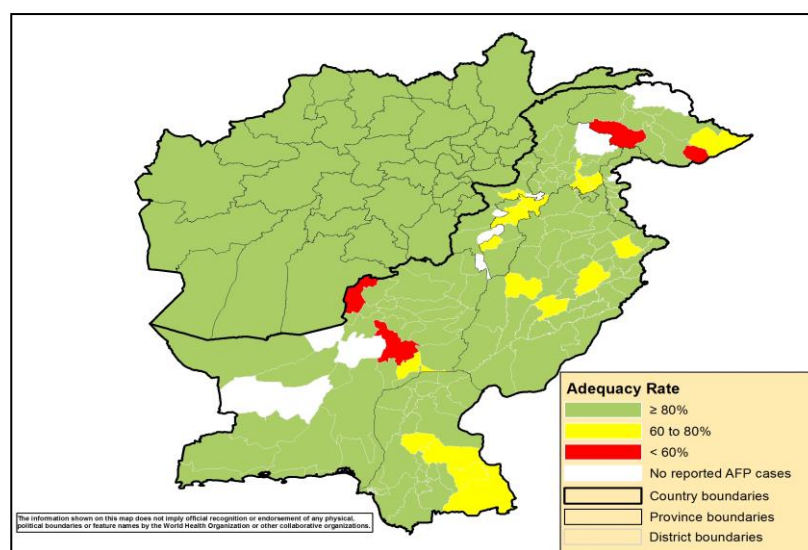
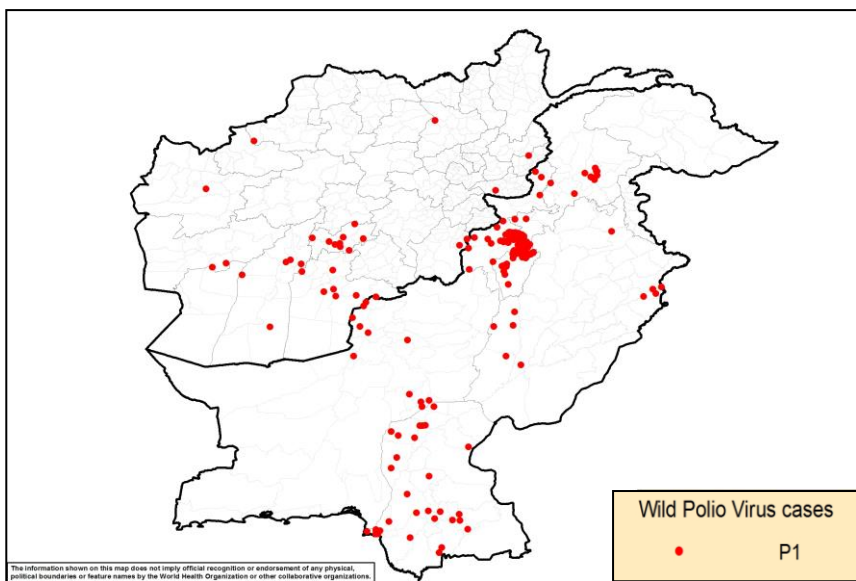
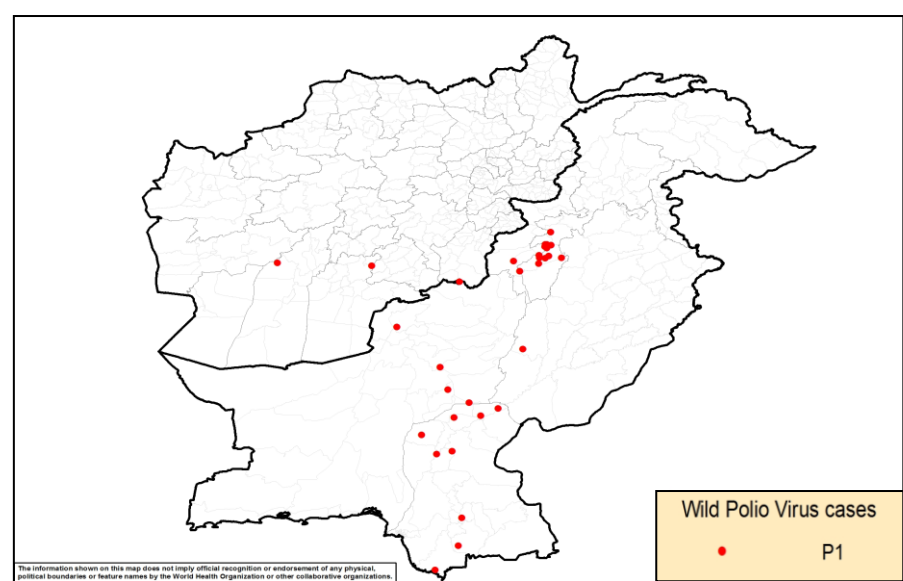


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5(b) 01/01/2020 - 15/03/2020



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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	KHYBER PAKHTUNKHWA	LAKKIMRWT	11	2-Jan-20	25-Feb-20	
		TANK	2	11-Jan-20	17-Feb-20	
		KARAK	1	20-Jan-20	20-Jan-20	
	BALOCHISTAN	ZHOB	1	22-Feb-20	22-Feb-20	
		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	NFEROZ	2	8-Feb-20	22-Feb-20	
		SHIKARPUR	1	11-Feb-20	11-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	
	KP TRIBAL DISTRICTS	BADIN	1	1-Jan-20	1-Jan-20	
		WAZIR-S	1	21-Feb-20	21-Feb-20	
	PUNJAB	DGKHAN	1	18-Jan-20	18-Jan-20	
2020 Total			30	1-Jan-20	25-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		
	QUETTA	1	6-Jul-19	6-Jul-19		
	PUNJAB	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	
		JHELMUM	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	
		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		
	KP TRIBAL DISTRICTS	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

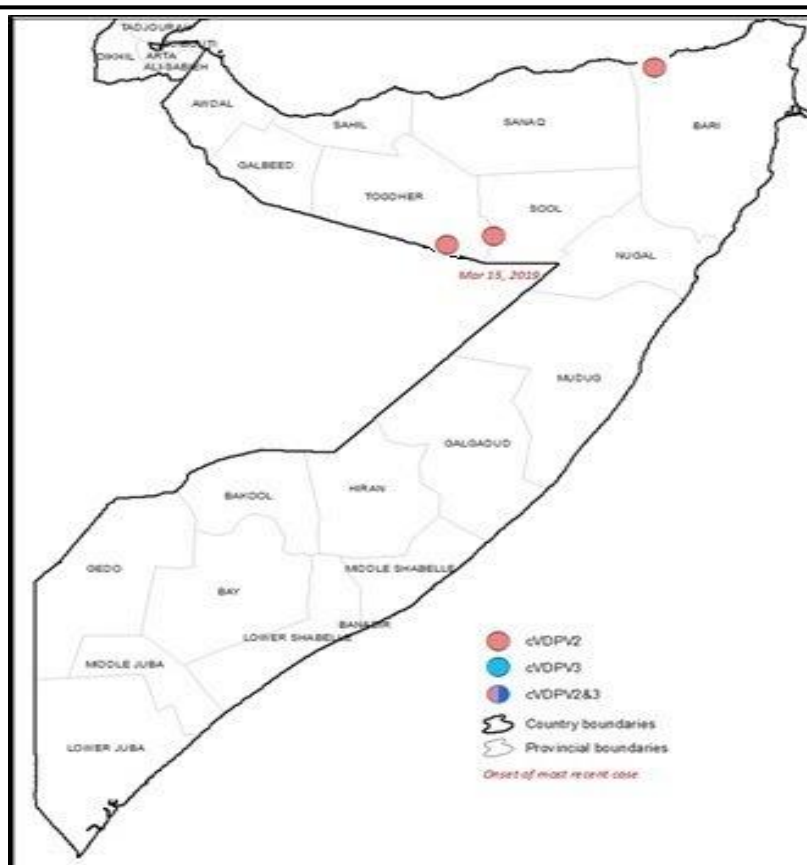
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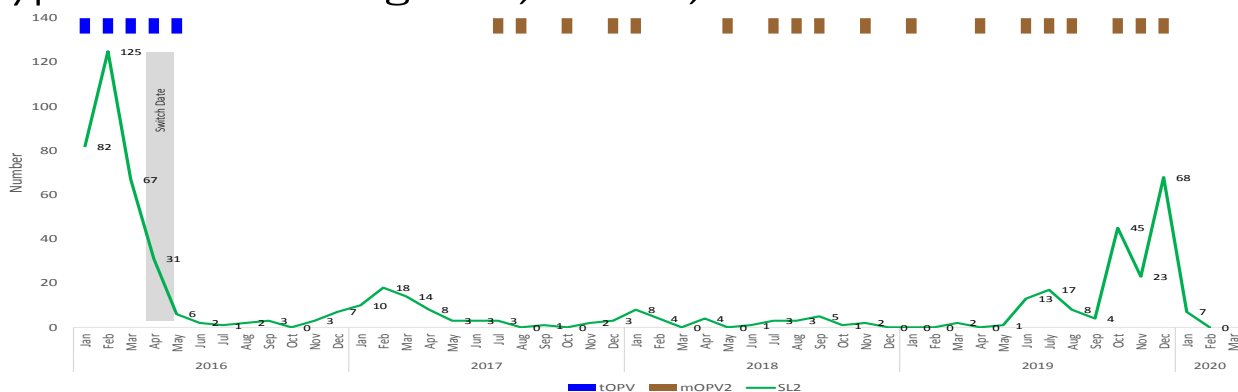
Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2019-2020

COUNTRY	YEAR	PROVINCE	DISTRICT	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	3	03-Jan-20	30-Jan-20
			KHYBER	13	12-Jan-20	12-Feb-20
			NOWSHERA	2	18-Jan-20	03-Feb-20
			LAKKI MARWAT	1	27-Jan-20	27-Jan-20
			MARDAN	1	02-Jan-20	02-Jan-20
			DIR LOWER	1	02-Feb-20	02-Feb-20
			BANNU	1	03-Jan-20	03-Jan-20
		Total 2020				25
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
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

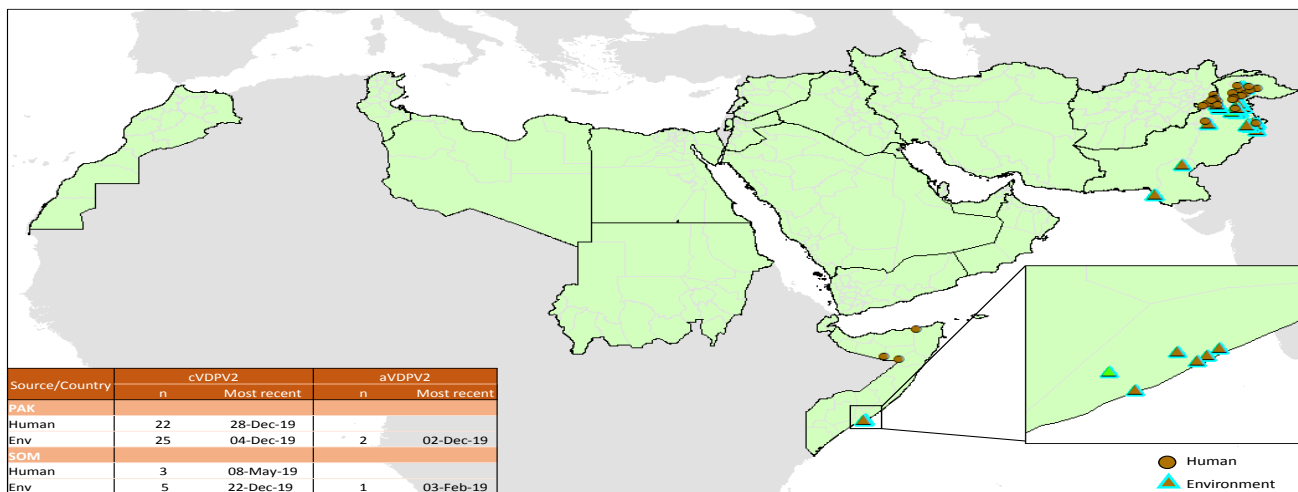
Figure 6: Somalia cVDPV cases by type and district 01/01/2019 - 31/12/2019



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

