

Highlights of Polio Fax Bulletin No. 1111 for Week 03 2020

I. Wild Poliovirus Transmission

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

2019

- 2 new wild poliovirus type-1 (WPV1) cases, one from Afghanistan and one from Pakistan
- 6 new Circulating Vaccine Derived Poliovirus type-2 (cVDPV2) all from Pakistan
- 5 new positive WPV1 environmental samples, three from Afghanistan and two from Pakistan

2020

- 1 new wild poliovirus type-1 (WPV1) case from Pakistan
- 2 new positive WPV1 environmental samples from Pakistan

a. *Human samples:* 3 new WPV1 cases reported this week. Total WPV1 cases in 2019 to date are 165 (29 from Afghanistan and 136 from Pakistan). This compares with 33 cases in 2018 in the same period (Afghanistan – 21 and Pakistan – 12). Also the 1st WPV1 case in 2020 was reported this week from Pakistan.

- Afghanistan: One new WPV1 case in 2019 was reported this week and details are as follows:

The case is from the newly infected district Pashtunzarghun, and newly infected province Herat, with date of onset 19 November 2019. The case is a 24 month old male child. The child reportedly received 3 OPV doses from routine and 7+ from supplementary immunization activities (SIAs).

In 2019 to date, 29 WPV1 cases are reported. They include 9 cases from Uruzgan province, 5 cases from Hilmand province, 6 from Kandahar province, 2 each from Paktika and Farah provinces and 1 each from Kunar, Nangarhar, Badghis, Baghlan and Herat provinces. The most recent case has onset of paralysis on 7 December 2019.

- Pakistan: Two new WPV1 cases reported this week and details are as follows:

Case (1): The case is from Lakki Marwat district, Khyber Pakhtunkhwa (KP) province, with date of onset 31 December 2019. The case is a 25-month old male child. The child reportedly received 7 OPV doses all from SIAs and none from routine.

Case (2): The case is from Lakki Marwat district, KP province, with date of onset 3 January 2020. The case is a 12-month old male child. The child reportedly received a total of 4 OPV doses out of which 1 dose was from routine and 3 doses from SIAs.

In 2019 to date, 136 WPV1 cases are reported from Pakistan. They include 80 from Khyber Pakhtunkhwa (KP) province, 12 from KP Tribal Districts (KPTD), 25 from Sindh province, 11 from Balochistan province and 8 from Punjab province. While in 2020 only 1 WPV1 case is reported from KP province. The most recent case has onset of paralysis on 3 January 2020

b. *Environmental samples:* Seven new WPV1 positive environmental samples reported this week – 5 in 2019 (3 from Afghanistan and 2 from Pakistan) and 2 from Pakistan in 2020:

- Afghanistan: In 2019 to date, there are 55 wild positive environmental samples with most recent positive sample collected on 25 December 2019.
- Pakistan: In 2019 to date, there are 375 WPV1 positive environmental samples including 7 combined (WPV1 and cVDPV2) with most recent positive sample collected on 31 December 2019. In 2020 to date, there are 2 WPV1 positive environmental samples with most recent positive sample collected on 1 January 2020.

II. Circulating Vaccine Derived Polioviruses (cVDPVs)

1. PAKISTAN: Six new cVDPV2 cases were reported this week and no environmental samples were reported.

Case (1): The case is from Bajour district, KP province, with date of onset 1 December 2019. The case is a 7-month old female child. The child reportedly received 5 OPV doses out of which 3 doses were from routine and 2 doses from SIAs.

Case (2): The case is from Peshawar district, KP province, with date of onset 8 December 2019. The case is a 10-month old female child. The child reportedly received a total of 10 OPV doses out of which 3 doses were from routine and 7 doses from SIAs.

Case (3): The case is from Lakki Marwat district, KP province, with date of onset 13 December 2019. The case is an 18-month old female child. The child reportedly received 7 OPV doses all from SIAs and none from routine.

Case (4): The case is from Torghar district, KP province, with date of onset 17 December 2019. The case is a 12-month old male child. The child reportedly received a total of 4 OPV doses all from SIAs and none from routine.

Case (5): The case is from Khyber district, KP province, with date of onset 19 December 2019. The case is an 18-month old female child. The child reportedly received 9 OPV doses out of which 2 doses were from routine and 7 doses from SIAs.

Case (6): The case is from Mohmand district, KP province, with date of onset 21 December 2019. The case is a 10-month old male child. The child reportedly received a total of 9 OPV doses out of which 2 doses were from routine and 7 doses from SIAs.

In 2019 to date, 18 cVDPV2 cases reported (onset of the most recent case is 21st December). Cases include four from Diamir district of Gilgit-Baltistan (GB) province; three from Torghar, two from Kohistan Lower and one each from Charsadda, Kohistan Upper, Khyber, Mohamand, Bajour, Lakki Marwat and Peshawar districts in KP; one each from Islamabad and Gujranwala district, Punjab province.

Environment: 25 positive environmental samples for cVDPV2, the recent most sample collected on 4 December 2019 (including seven combined WPV1 and cVDPV2).

In addition, cVDPV2 has been isolated from 16 healthy children and 8 contacts.

2. SOMALIA: No new cVDPV2 or cVDPV3 isolates from human or environmental samples were reported this week.

In 2019 to date, Somalia has reported three cVDPV2 cases. The most recent reported case has date of onset of paralysis on 8 May 2019.

aVDPV2 was isolated from an environmental sample collected on 3 February 2019.

2 cVDPVs were isolated from environmental samples collected on 10 November 2019.

III. Surveillance performance indicators

In 2019, 20 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 has a non-polio AFP rate of 1.4
- Tunisia has a percentage of AFP cases with adequate stool specimens of 75.3%
- In Yemen there are AFP cases pending final classification more than 90 days due to delayed lab results because of delay in shipment of specimens to reference polio laboratories and high workload in the labs.

AFP SURVEILLANCE

20-Jan-20

Week 03, ending 19 January 2020

Number 1111

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

Country	Reported AFP cases by week of onset - Week (03/20) / Ending on : 19/01/2020														
	Total AFP 2018	Total AFP 2019	Total AFP to date, 2020	W44 03 Nov 19	W45 10 Nov 19	W46 17 Nov 19	W47 24 Nov 19	W48 01 Dec 19	W49 08 Dec 19	W50 15 Dec 19	W51 22 Dec 19	W52 29 Dec 19	W01 05 Jan 20	W02 12 Jan 20	W03 19 Jan 20
Afghanistan	3378	3762	109	68	65	61	54	79	76	63	67	64	72	42	6
Bahrain	35	17	0	2	0	1	0	0	1	0	0	0	0	0	0
Djibouti	0	5	0	1	0	0	1	0	0	0	0	0	0	0	0
Egypt	1246	1343	48	27	34	39	34	28	31	26	18	13	29	16	4
Iran	896	1070	0	24	31	43	33	25	24	24	18	24	0	0	
Iraq	1023	1157	30	29	28	26	36	33	31	20	25	13	22	10	0
Jordan ****	115	113	4	4	0	1	2	0	4	1	1	1	1	3	
Kuwait	72	48	1	1	0	1	1	1	3	1	0	2	1	0	0
Lebanon ****	89	87	5	1	2	2	1	1	4	1	3	4	4	2	
Libya	122	107	6	2	1	1	2	1	4	4	3	4	4	2	
Morocco	212	248	5	3	4	4	9	10	14	6	4	2	4	1	0
Oman	28	28	0	0	1	0	1	1	3	1	0	0	0	0	0
Pakistan	12276	15043	216	301	305	319	336	316	344	341	288	251	218	61	1
Palestine ****	44	62	1	1	2	0	2	3	1	0	2	1	0	1	0
Qatar	10	9	0	0	1	0	0	0	0	0	2	0	0	0	0
Saudi Arabia	242	228	0	3	7	2	5	3	5	3	1	0			
Somalia	353	360	15	6	4	7	5	3	11	7	4	5	9	5	1
Sudan	579	607	17	20	11	11	14	13	6	17	16	5	13	6	0
Syria ****	362	377	8	6	6	3	13	9	11	16	8	3	7	4	0
Tunisia	68	77	0	0	1	1	2	2	0	0	0	0	0	0	
U.A.E	40	49	0	3	2	2	1	3	1	1	0	2	0	0	0
Yemen	730	758	0	20	16	17	16	12	25	19	8	8			
Total EMR	21920	25555	465	522	521	541	568	543	599	551	468	402	384	153	12

No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2018	Total year 2019	19/01		Confirmed polio cases by month of onset											
			2019	2020	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	January 2020
Afghanistan	21	29	2	0	1	3	1	5	1	2	2	3	1	7	1	
Bahrain	0	0	0	0	0	0	0	0	0	0	0					
Djibouti	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	0	
Pakistan	12	136	2	1	2	0	11	11	16	12	14	5	16	23	22	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		
Saudi Arabia	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				
Yemen	0	0	0	0		0										
Total EMR	33	165	4	1	3	3	12	16	17	14	16	8	17	30	23	1

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

World Health Organization – Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

Week 03, ending 19 January 2020

20-Jan-20

Number 1111

Table 3: Investigation of AFP cases with paralysis onset in 2019 & 2020 up to Week (03/20) / Ending on : 19/01/2020

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	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	3762	29	1	101	3631	0	18.4	31	0	94.2	29	0	109	0	0	108	1	0	10.3	0	0	99.1	0	0	19/01/2020		
Bahrain	17	0	0	6	11	0	5.9	2	2	100.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	20/01/2020		
Djibouti	5	0	0	5	0	0	1.4	3	2	80.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	12/01/2019		
Egypt	1343	0	0	32	1311	0	3.6	0	0	93.0	0	0	48	0	0	48	0	0	2.4	0	0	60.4	0	0	16/01/2020		
Iran	1070	0	0	9	1060	1	5.2	0	0	97.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	18/01/2020		
Iraq	1157	0	0	52	1105	0	7.6	8	0	94.3	0	0	30	0	0	30	0	0	3.8	0	0	96.7	0	0	19/01/2020		
Jordan	113	0	0	3	110	0	3.9	0	0	100.0	0	0	4	0	0	4	0	0	2.0	0	0	100.0	0	0	16/01/2020		
Kuwait	48	0	0	2	46	0	5.4	0	0	89.6	0	0	1	0	0	1	0	0	2.2	0	0	0.0	0	0	19/01/2020		
Lebanon	87	0	0	17	70	0	4.7	8	0	89.7	0	0	5	0	0	5	0	0	5.2	0	0	80.0	0	0	17/01/2020		
Libya	107	0	0	8	99	0	4.3	0	0	98.1	0	0	6	0	0	6	0	0	4.6	0	0	100.0	0	0	18/01/2020		
Morocco	248	0	0	24	224	0	2.8	14	0	82.7	0	0	5	0	0	5	0	0	1.1	0	0	80.0	0	0	19/01/2020		
Oman	28	0	0	2	26	0	3.1	0	0	89.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	19/01/2020		
Pakistan	15043	136	2	644	14243	18	19.1	171	0	87.5	136	0	216	1	0	212	3	0	5.3	0	0	67.6	1	0	19/01/2020		
Palestine	62	0	0	14	48	0	3.2	0	0	98.4	0	0	1	0	0	1	0	0	1.0	0	0	100.0	0	0	19/01/2020		
Qatar	9	0	0	3	6	0	2.5	0	0	88.9	0	0	0	0	0	0	0	0	0.0	0	0		0	0	19/01/2020		
Saudi Arabia	228	0	0	42	186	0	2.8	9	7	93.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	30/12/2019		
Somalia	360	0	0	12	345	3	5.7	3	3	95.6	0	0	15	0	0	15	0	0	4.5	0	0	100.0	0	0	19/01/2020		
Sudan	607	0	0	12	595	0	3.4	2	0	96.5	0	0	17	0	0	17	0	0	1.8	0	0	94.1	0	0	19/01/2019		
Syria	377	0	0	17	360	0	4.9	3	0	88.1	0	0	8	0	0	8	0	0	2.0	0	0	100.0	0	0	19/01/2020		
Tunisia	77	0	0	1	75	1	2.8	0	0	75.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	17/01/2019		
U.A.E	49	0	0	27	22	0	3.9	11	2	89.8	0	0	0	0	0	0	0	0	0.0	0	0		0	0	19/01/2020		
Yemen	758	0	0	330	428	0	5.4	179	149	89.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	04/01/2020		
EMR	25555	165	3	1363	24001	23	10.1	444	165	90.0	165	0	465	1	0	460	4	0	3.5	0	0	79.6	1	0			
2018	21920	33	1	85	21786	15	8.7	85	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

World Health Organization – Regional Office for Eastern Mediterranean
AFP SURVEILLANCE
Week 03, ending 19 January 2020

20-Jan-20
Number 1111

COUNTRY	2019						2020					
	# OF CONTACTS	LAB RESULTS					# OF CONTACTS	LAB RESULTS				
		WILD	VDPV	SL	NPEV	PENDING		WILD	VDPV	SL	NPEV	PENDING
AFG	1137	8	0	48	202	0	7	0	0	0	1	0
BAH	0	0	0	0	0	0	0	0	0	0	0	0
DJI	1	0	0	0	0	1	0	0	0	0	0	0
EGY	498	0	0	8	55	13	15	0	0	0	0	15
IRN	213	0	0	4	7	0	0	0	0	0	0	0
IRQ	603	0	0	10	39	7	9	0	0	0	0	9
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	79	0	0	3	1	29	0	0	0	0	0	0
OMA	74	0	0	2	26	2	0	0	0	0	0	0
PAK	5492	26	7	245	959	4	154	0	0	7	6	108
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	0	0	0	0	0	0	0	0	0	0	0	0
SOM	1078	0	1	45	138	33	53	0	0	0	0	53
SUD	402	0	0	0	31	90	5	0	0	0	0	5
SYR	813	0	0	12	36	15	25	0	0	0	0	25
TUN	26	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	413	0	0	0	0	212	0	0	0	0	0	0
EMR	10859	34	8	377	1502	408	268	0	0	7	7	215

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

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
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	
2019	AFG	URUZGAN	TIRINKOT	1	2-Aug-19	2-Aug-19	
			MUSAQALAH	1	05-Jun-19	05-Jun-19	
			SANGIN	1	06-Mar-19	06-Mar-19	
	PAK	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	1	01-Dec-19	01-Dec-19	
	PAK	BALOCHSITAN	MASTUNG	1	18-Nov-19	18-Nov-19	
			KILLABDULLAH	2	2-Jul-19	19-Nov-19	
			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	
	PAK	KHYBER PAKHTUNKHWA (KP)					
	2019 Total				19	06-Mar-19	01-Dec-19

Table 5: Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (03/2020) / Ending on : (19/01/2020)

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		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	NPEV only	Negative	received < / = 14 days	received > 14 days ago	Wild	Sabin	VPV	Wild	Sabin	VPV	Wild									
Afghanistan	RRL Pakistan	23	1		1	21												1	11%	100%		100%	19/01/2020	
Bahrain	NPL Oman / CDC																						20/01/2020	
Djibouti	NPL Kenya / CDC																						12/01/2020	
Egypt***	RRL Egypt	37				33	4																16/01/2020	
Iran	NPL Iran / CDC	33			2	31													0%	100%		100%	18/01/2020	
Iraq	RRL Egypt	29			1	28													0%	100%		100%	19/01/2020	
Jordan	NPL Jordan / RRL EGYPT																						19/01/2020	
Kuwait	RRL Kuwait / RIVM	1				1																	16/01/2020	
Lebanon	NPL Jordan / RRL EGYPT																						19/01/2020	
Libya	RRL Tunisia / RIVM	2				2																	18/01/2020	
Morocco	NPL Morocco / RRL Tunisia	3				3													0%				17/01/2020	
Oman	NPL Oman / CDC																		50%				20/01/2020	
Pakistan	RRL Pakistan	162	9		3	136		1						1			7	11%	100%	100%	100%	19/01/2020		
Palestine & UNRWA		1				1																	19/01/2020	
Qatar	NPL Oman / CDC																						20/01/2020	
Saudi Arabia	NPL Saudi Arabia / CDC																						12/01/2020	
Somalia	NPL Kenya / CDC	15				9	6																19/01/2020	
Sudan	NPL Sudan / RRL Egypt	2				2																	12/01/2020	
Syria	NPL Syria / RRL Egypt	6				6																	16/01/2020	
Tunisia	RRL Tunisia																						18/01/2020	
U.A.E	NPL Oman / CDC																						20/01/2020	
Yemen	NPL Kenya / CDC																						04/01/2020	
Total EMR 2020		314	10		7	273	10	1						1			8	10%	100%	100%	100%			
Total EMR 2019		24522	1029	97	3551	19423	232	182	147	558	1	39	20	609	1	3	21	6	18	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	55	
	EV/SL	177	265	248	196	
	Negative	6	9	5	3	
	Pending				5	7
AFG Total		185	316	336	259	7
EGY	EV/SL	492	481	508	666	2
	Negative	36	41	32	34	
	Pending					21
EGY Total		528	522	540	700	23
IRN	Wild				3	
	EV/SL		5	51	65	
	Negative		1	3	3	
IRN Total			6	54	71	
JOR	EV/SL	2	29	36	33	
	Negative		2			
	Pending				3	
JOR Total		2	31	36	36	
KUW	EV/SL			3	3	
	Pending				8	
KUW Total				3	11	
LEB	EV/SL	2	26	44	37	
	Negative	2	1	1	3	
	Pending				7	
LEB Total		4	27	45	47	
PAK	Wild	60	106	139	368	2
	Wild+cVDPV2	2			7	
	cVDPV2	2			18	
	aVDPV2	3	4		1	
	EV/SL	456	523	531	406	2
	Negative	6		3	4	
	Pending				27	29
PAK Total		529	633	673	831	33
SOM	cVDPV2		2	19	2	
	cVDPV3			11		
	aVDPV2			2	1	
	EV/SL		20	43	28	
	Negative		14	138	29	2
	Pending				3	2
SOM Total			36	213	63	4
SUD	EV/SL			15	41	
	Negative				1	
	Pending				18	
SUD Total				15	60	
SYR	EV/SL		4	81	148	1
	Negative			21	30	
	Pending				7	7
SYR Total			4	102	185	8
TOTAL		1248	1575	2017	2263	75

Table 7: Environmental Wild/DPV 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	12	26/Jan/19	25/Dec/19
	AFG Total			55	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
			FATA	9	15/Jan/19	31/Dec/19
			ISLAMABAD	3	12/Apr/19	21/Aug/19
			KPAKHTUNKHWA	31	8/Jan/19	28/Dec/19
			PUNJAB	97	5/Jan/19	17/Dec/19
			SINDH	156	2/Jan/19	20/Dec/19
		Wild+cVDPV2	PUNJAB	4	6/Aug/19	15/Nov/19
			SINDH	3	7/Oct/19	7/Nov/19
		cVDPV2	GBALISTAN	5	24/Aug/19	6/Nov/19
			ISLAMABAD	1	12/Nov/19	12/Nov/19
			KPAKHTUNKHWA	6	9/Oct/19	27/Nov/19
	aVDPV2	PUNJAB	6	21/Aug/19	4/Dec/19	
		PUNJAB	1	11/Apr/19	11/Apr/19	
	PAK Total			394	1/Jan/19	31/Dec/19
SOM	cVDPV2	BANADIR	2	10/Nov/19	10/Nov/19	
		aVDPV2	1	3/Feb/19	3/Feb/19	
SOM Total			3	3/Feb/19	10/Nov/19	
2019 Total			455	1/Jan/19	31/Dec/19	
2020	PAK	Wild	BALUCHISTAN	2	1/Jan/20	1/Jan/20
			PAK Total	2	1/Jan/20	1/Jan/20
2020 Total			2	1/Jan/20	1/Jan/20	
TOTAL			457	1/Jan/19	1/Jan/20	

Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2020 - 19/01/2020

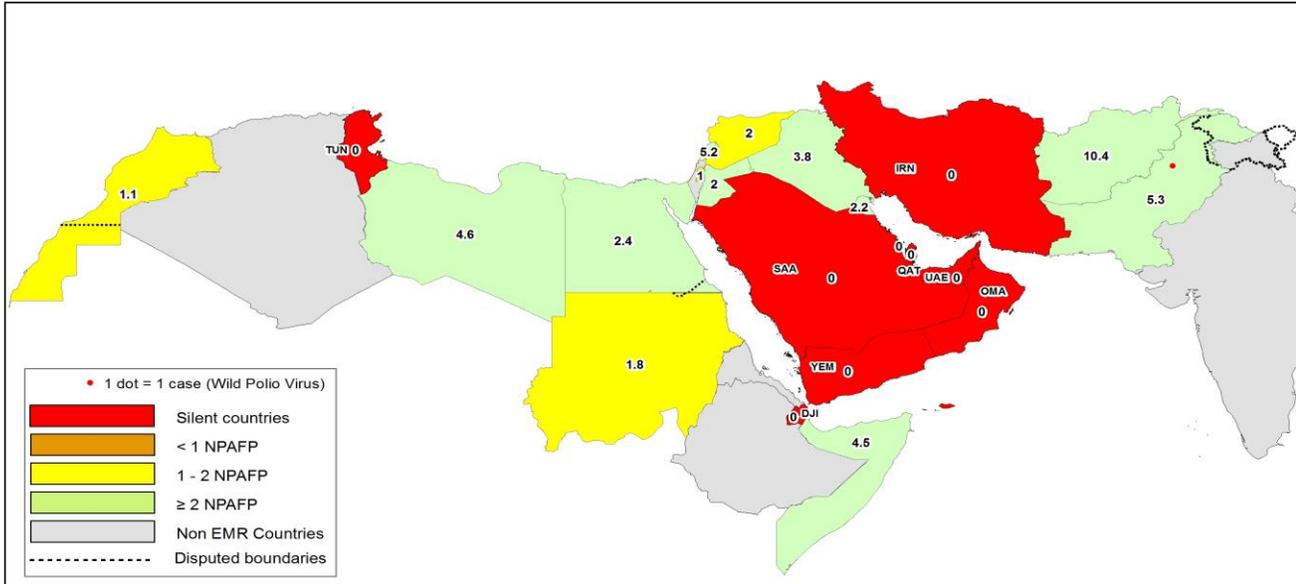


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2020 - 19/01/2020

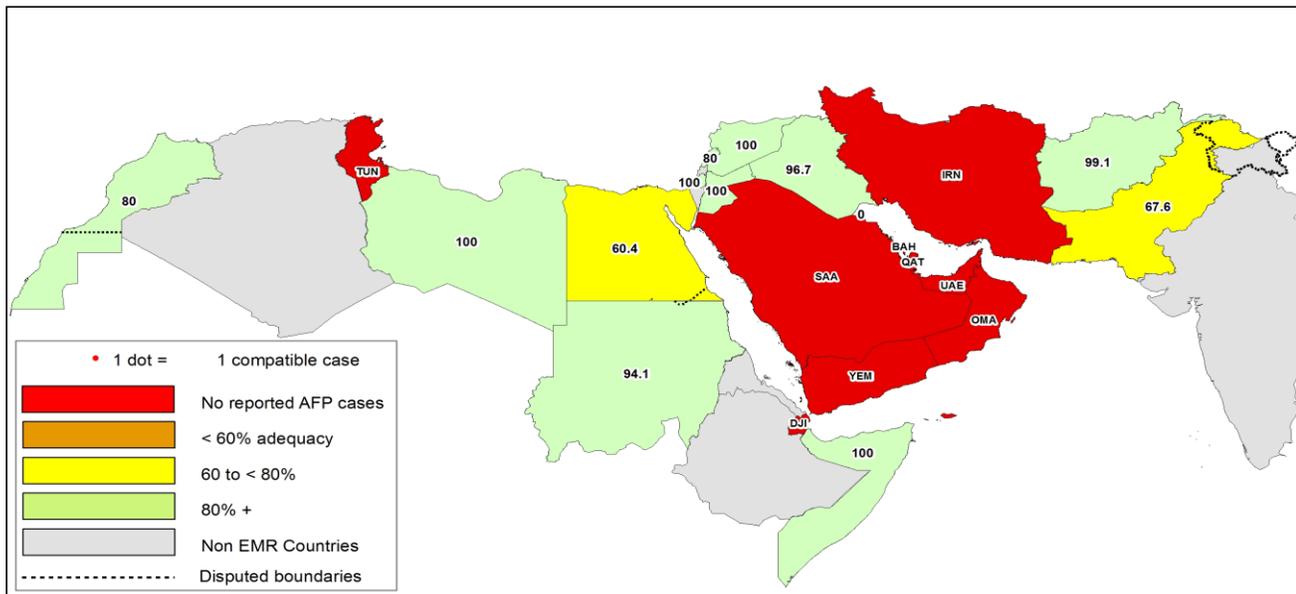


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2019 - 2020

Year	COUNTRY	Count	First Case	Last Case
2020	PAK	1	3-Jan-20	3-Jan-20
2020 Total		1	3-Jan-20	3-Jan-20
2019	AFG	29	4-Jan-19	7-Dec-19
	PAK	136	15-Jan-19	31-Dec-19
2019 Total		165	4-Jan-19	31-Dec-19

Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2020 - 19/01/2020

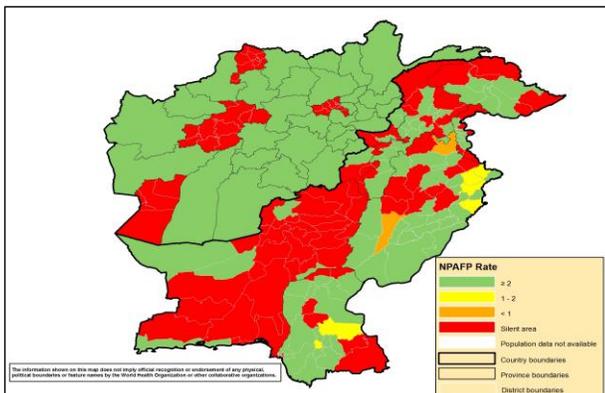


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2020 - 19/01/2020

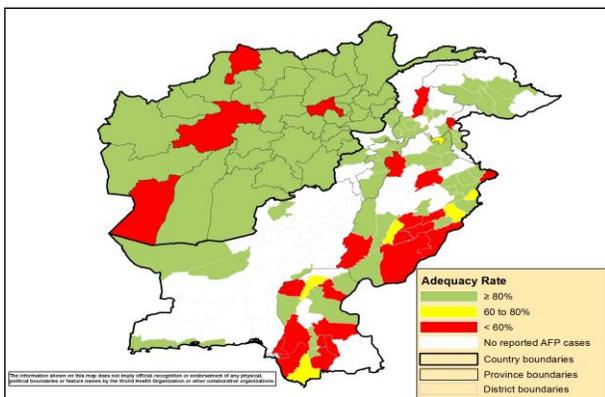
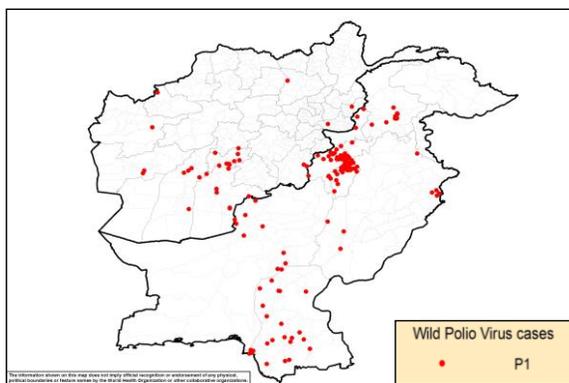


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5(b) 01/01/2020 - 19/01/2020



World Health Organization – Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

Week 03, ending 19 January 2020

20-Jan-20

Number 1111

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

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
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	GARMSER	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	1	3-Jan-20	3-Jan-20	
2020 Total			1	3-Jan-20	3-Jan-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	
		SINDH	THATTA	1	26-Dec-19	26-Dec-19
		JAMSHORO	3	23-Aug-19	22-Dec-19	
		KAMBAR	2	2-Nov-19	14-Dec-19	
		DADU	1	6-Dec-19	6-Dec-19	
		MIRPURKHAS	3	17-Nov-19	1-Dec-19	
	BADIN	1	28-Nov-19	28-Nov-19		
	T.ALLAHYAR	1	10-Nov-19	10-Nov-19		
	LARKANA	2	17-Apr-19	9-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		
	PUNJAB	DGKHAN	2	18-Dec-19	25-Dec-19	
	MUZFARGARH	1	26-Nov-19	26-Nov-19		
	LAHORE	4	20-Jan-19	22-Jun-19		
	JHELMUM	1	21-Jun-19	21-Jun-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		
	BALOCHISTAN	JAFARABAD	3	28-May-19	18-Dec-19	
	NSIRABAD	1	5-Dec-19	5-Dec-19		
	KABDULAH	4	9-Jun-19	19-Nov-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		
	2019 Total			136	15-Jan-19	31-Dec-19

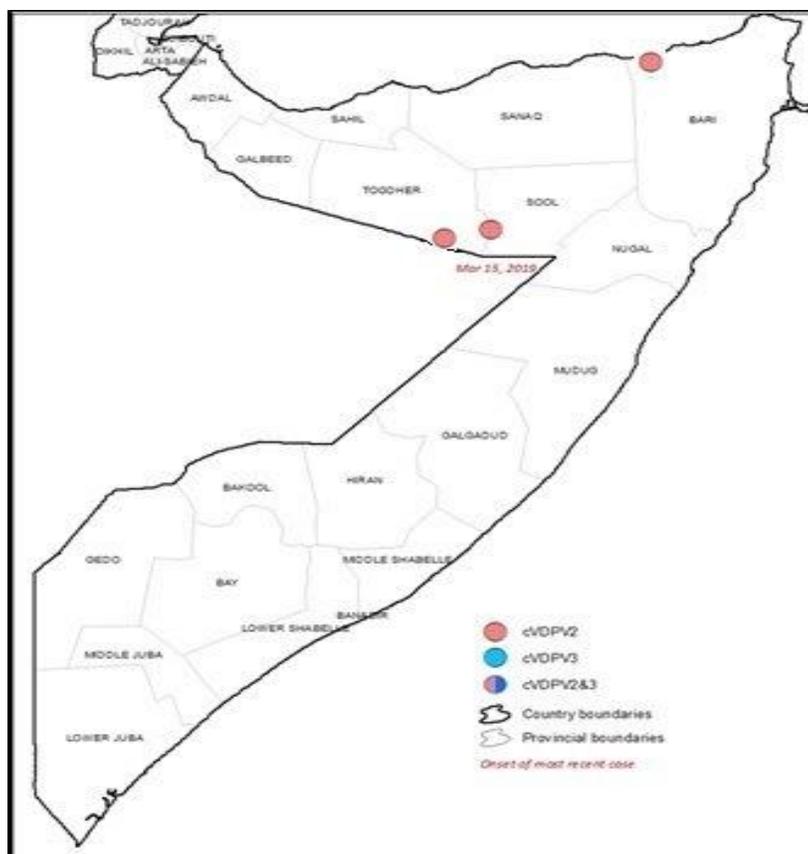
World Health Organization – Regional Office for Eastern Mediterranean
AFP SURVEILLANCE
Week 03, ending 19 January 2020

20-Jan-20
Number 1111

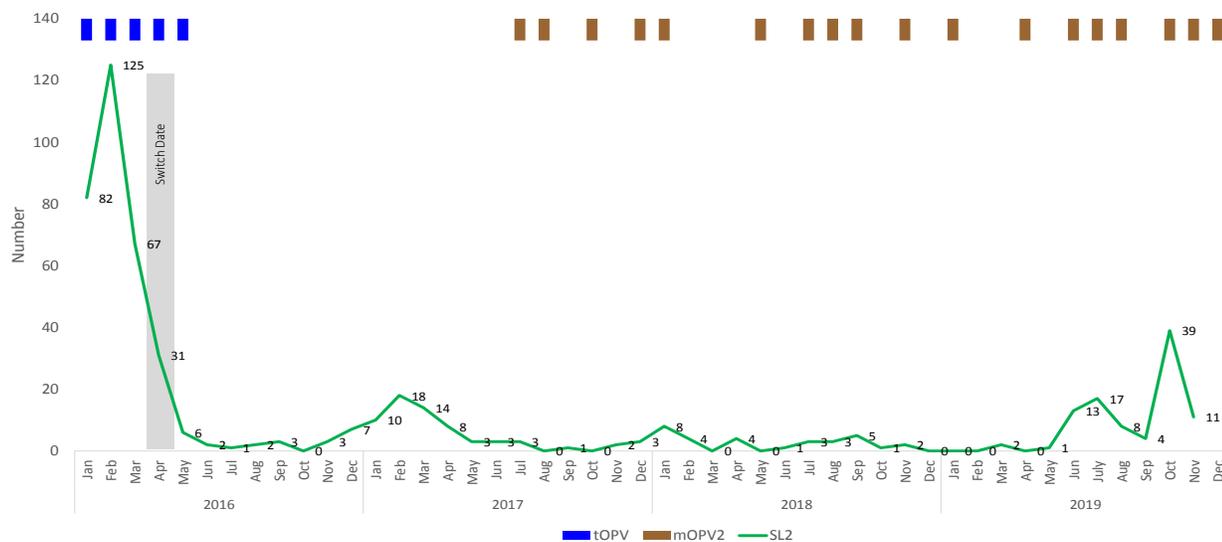
Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2019-2020

COUNTRY	YEAR	PROVINCE	DISTRICT	cVDPV2			
				Count	First Case	Last Case	
PAK	2019	PUNJAB	GUJRANWALA	1	22-Nov-19	22-Nov-19	
			KHYBER PAKHTUNKHWA	KHYBER	1	19-Dec-19	19-Dec-19
				MOHMAND	1	21-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	2019	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				21	15-Mar-19	21-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 2019



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VDPV2 isolates, EMR countries, 2019

