Highlights of Polio Fax Bulletin No. 1116 for Week 08 2020

I. Wild Poliovirus Transmission

Endemic countries (PAKISTAN & AFGHANISTAN): Following was reported this week: 2019

Two new wild poliovirus type-1 (WPV1) cases from Pakistan.

One new positive WPV1 environmental sample from Pakistan.

2020

- No new wild poliovirus cases were reported this week.
- 14 new positive WPV1 environmental samples, one from Afghanistan and thirteen from Pakistan.

Advance notification: One new WPV1 case from Pakistan (Kashmore district, Sindh province), with date of onset 3 February 2020. Details will be shared in the next bulletin.

- a. Human samples: 2 new WPV1 cases reported this week in 2019.
 - Total WPV1 cases in 2019 to date is 175 (29 from Afghanistan and 146 from Pakistan). This compares with 33 cases in 2018 in the same period (Afghanistan 21 and Pakistan 12).
 - Total WPV1 cases in 2020 to date is 17, all from Pakistan. This compares with 7 cases in 2019 in the same period (2 from Afghanistan and 5 from Pakistan).
 - Afghanistan: No new wild poliovirus cases were reported this week:
 - Pakistan: Two new WPV1 cases having onset of paralysis in 2019 reported this week and details are as follows:
 - <u>Case (1)</u>: The case is from Okara district, Punjab province, with date of onset 8 December 2019. The case is a 168-month old female child. The child reportedly received 3 OPV doses from routine and 7+ doses from supplementary immunization activities (SIAs).
 - <u>Case (2)</u>: The case is from Lahore district, Punjab province, with date of onset 28 December 2019. The case is a 54-month old female child. The child reportedly received 1 OPV dose from routine and 7+ doses from SIAs.
 - In 2019, 146 WPV1 cases were reported from Pakistan. They include 80 from Khyber Pakhtunkhwa (KP) province, 12 from KP Tribal Districts (KPTD), 30 from Sindh province, 12 each from Balochistan and Punjab provinces.

In 2020, 17 WPV1 cases are reported, 10 from KP, 5 from Sindh and 2 from Balochistan provinces. The most recent case has onset of paralysis on 2 February 2020.

- b. *Environmental samples*: Fifteen new WPV1 positive environmental samples reported this week one in 2019 from Pakistan and fourteen in 2020 (1 from Afghanistan and 13 from Pakistan):
 - Afghanistan: In 2020 to date, 3 WPV1 positive environmental samples including 1 combined (WPV1 and cVDPV2) with most recent sample collected on 28 January 2020.
 - Pakistan: In 2019, there are 376 WPV1 positive environmental samples including 9 combined (WPV1 and cVDPV2) with most recent positive sample collected on 31 December 2019.

In 2020 to date, there are 42 WPV1 positive environmental samples including 2 combined (WPV1 and cVDPV2) with most recent positive sample collected on 6 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 isolates from human or environmental samples were reported this week. In 2019, 22 cVDPV2 cases reported. Cases include four from Diamir district of Gilgit-Baltistan (GB) province; three each from Torghar, Khyber and Mohmand; two from Kohistan Lower; and one each from Charsadda, Kohistan Upper, Bajour, Lakki Marwat and Peshawar districts in KP; one each from Islamabad and Gujranwala district, Punjab province. In 2020 to date, 3 cVDPV2 cases reported from KP province (one each from Peshawar, Bajour and Khyber) with most recent onset on 12 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 form 16 healthy children and 7 contacts.

Advance notification: Six new cVDPV2 cases from Pakistan; 4 from Khyber and 1 from Nowshera districts, KP province, and 1 from Rawalpindi district, Punjab province, with dates of onset between 13-22 January 2020. Details will be shared in the next bulletin.

- 2. <u>SOMALIA</u>: No new cVDPV isolates from human or environmental samples were reported this week. In 2019:
 - 3 cVDPV2 cases. The most recent reported case has date of onset of paralysis on 8 May 2019.

In 2020 to date: 3 cVDPV2 were isolated from environmental samples most recent collected on 19 January 2020.

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 74.7%
- 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.

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

	Reported AFP cases by week of onset - Week (08/20) / Ending on : 23/02/2020														
		R	eported A	FP cas	es by w	eek of	onset	- Wee	k (08/20	0) / End	ling on	: 23/02	/2020		
Country	Total AFP 2018	Total AFP 2019	Total AFP to date, 2020	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	W04 26 Jan 20	W05 02 Feb 20	W06 09 Feb 20	W07 16 Feb 20	W08 23 Feb 20
Afghanistan	3378	3768	464	76	63	70	67	79	66	71	86	94	54	25	
Bahrain	35	17	2	1	0	0	0	0	0	0	0	1	1	0	
Djibouti	0	5	0	0	0	0	0	0	0	0	0	0	0	0	
Egypt	1246	1343	151	31	26	18	13	29	18	21	24	23	22	9	6
Iran	896	1070	121	24	24	17	24	20	22	30	18	18	10	3	
Iraq	1023	1157	126	31	20	25	13	23	20	12	22	17	22	12	
Jordan ****	115	113	12	4	1	1	1	1	4	0	3	0	3	1	
Kuwait	72	48	7	3	1	0	2	1	1	1	0	0	2	1	1
Lebanon ****	89	87	15	4	1	3	4	4	2	2	3	2	2	1	
Libya	122	107	21	4	4	3	4	4	4	5	1	4	3		
Morocco	212	248	20	14	6	4	2	4	2	3	5	3	3	0	
Oman	28	30	3	4	1	0	1	0	1	0	0	2	0	0	
Pakistan	12276	15176	1877	354	353	308	290	358	316	312	331	297	245	95	
Palestine ****	44	62	6	1	0	2	1	0	1	0	2	1	1	1	
Qatar	10	9	0	0	0	2	0	0	0	0	0	0	0	0	
Saudi Arabia	242	236	14	5	4	4	4	1	5	7	2	0	0	0	
Somalia	353	361	63	11	7	4	5	10	6	8	16	16	4	4	
Sudan	579	608	74	6	17	17	5	14	10	12	12	13	13	2	
Syria ****	362	377	57	11	16	8	3	7	6	11	11	15	6	4	
Tunisia	68	79	1	0	0	2	0	1	0	0	0	0	0	0	
U.A.E	40	50	10	1	1	0	2	2	0	1	1	3	2	1	
Yemen	730	780	81	26	19	10	25	9	16	14	11	14	13	5	
Total EMR	21920	25731	3125	611	564	498	466	<i>567</i>	<i>500</i>	510	548	<i>523</i>	406	164	7

No data = No report received

Table 2: Confirm		_	23/0		<i>r</i>			Cantin	mad na	lie eee	00 hv n	a a n t b a	fanas			
Country	Total year 2018	Total year 2019	2019	2020	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November go 2019	December 2019	January 2020	February 2020
Afghanistan	21	29	2	0	3	1	5	1	2	2	3	1	7	1		
Bahrain	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	
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				
Jordan ****	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	
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		
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	12	146	5	17	0	11	11	16	12	14	5	16	23	32	16	1
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	0	
U.A.E	0	0	0	0	0	0	0	0	0	0	0		0	0		
Yemen	0	0	0	0	0											
Total EMR	33	175	7	17	3	12	16	17	14	16	8	17	30	33	16	1

**** 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 (08/20) / Ending on : 23/02/2020)

					14510 01		20	on of AFF 19	011001	2010		.,,,	7007. (0	70,20,7		0	202								
					4						Wild	cases					455						Wild (cases	
					AFP					Specimen		***					AFP					Specimen	**	**	
	19		Case	classi	ication			ш	0 sis				20		Case	classific	cation		ட	E	0 sis				
COUNTRY	Total AFP cases onset 2019	Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV	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	Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV	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	Latest line List Date
Afghanistan	3768	29	1	15	3723	0	18.5	5	0	94.1	29	0	464	0	0	151	313	0	15.5	0	0	96.8	0	0	22/02/2020
Bahrain	17	0	0	2	15	0	5.9	2	0	100.0	0	0	2	0	0	2	0	0	4.7	0	0	100.0	0	0	20/02/2020
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	5	1338	0	3.6	0	0	93.2	0	0	151	0	0	76	75	0	2.7	0	0	88.1	0	0	20/02/2020
Iran	1070	0	0	0	1069	1	5.2	0	0	97.1	0	0	121	0	0	35	86	0	3.9	0	0	100.0	0	0	22/02/2020
Iraq	1157	0	0	6	1151	0	7.4	2	2	94.3	0	0	126	0	0	50	76	0	5.3	0	0	90.5	0	0	20/02/2020
Jordan	113	0	0	0	113	0	3.9	0	0	100.0	0	0	12	0	0	5	7	0	2.1	0	0	100.0	0	0	20/02/2020
Kuwait	48	0	0	0	48	0	5.4	0	0	89.6	0	0	7	0	0	4	3	0	4.6	0	0	42.9	0	0	22/02/2020
Lebanon	87	0	0	8	79	0	4.7	8	0	89.7	0	0	15	0	0	6	9	0	5.5	0	0	100.0	0	0	21/02/2020
Libya	107	0	0	0	107	0	4.3	0	0	98.1	0	0	21	0	0	8	13	0	5.7	0	0	100.0	0	0	15/02/2020
Morocco	248	0	0	16	232	0	2.8	10	0	83.1	0	0	20	0	0	10	10	0	1.5	0	0	80.0	0	0	17/02/2020
Oman	30	0	0	0	30	0	2.7	0	0	80.0	0	0	3	0	0	2	1	0	1.8	0	0	66.7	0	0	16/02/2020
Pakistan	15176	146	3	391	14613	22	19.3	211	0	86.8	146	0	1877	17	0	631	1226	3	16.1	0	0	90.0	17	0	22/02/2020
Palestine	62	0	0	5	57	0	3.3	0	0	98.4	0	0	6	0	0	6	0	0	2.1	0	0	100.0	0	0	16/02/2020
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	16/02/2020
Saudi Arabia	236	0	0	9	227	0	2.8	0	0	93.2	0	0	14	0	0	14	0	0	1.1	0	0	100.0	0	0	20/02/2020
Somalia	361	0	0	4	354	3	5.7	4	0	95.6	0	0	63	0	0	19	44	0	5.3	0	0	100.0	0	0	22/02/2020
Sudan	608	0	0	6	602	0	3.4	2	0	96.4	0	0	74	0	0	21	53	0	2.6	0	0	95.9	0	0	20/02/2019
Syria	377	0	0	0	377	0	4.8	0	0	88.1	0	0	57	0	0	28	29	0	4.9	0	0	98.2	0	0	21/02/2020
Tunisia	79	0	0	0	78	1	2.9	0	0	74.7	0	0	1	0	0	0	1	0	0.3	0	0	100.0	0	0	21/02/2019
U.A.E	50	0	0	3	47	0	4.0	3	1	90.0	0	0	10	0	0	10	0	0	5.4	0	0	100.0	0	0	20/02/2020
Yemen	780	0	0	329	451	0	5.5	236	208	89.0	0	0	81	0	0	81	0	0	3.9	0	0	95.1	0	0	22/02/2020
EMR	25731	175	4	799	24725	27	10.2	483	211	89.5	175	0	3125	17	0	1159	1946	3	8.2	0	0	92.0	17	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 seperately as wild isolates

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			20	19		-			20)20		
COUNTRY	# OF			LAB RESULTS			# OF			LAB RESULTS		
	CONTACTS	WILD	VDPV	SL	NPEV	PENDING	CONTACTS	WILD	VDPV	SL	NPEV	PENDING
AFG	1138	8	0	48	202	0	107	0	0	8	5	12
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	23	0	0	0	0	3
IRN	213	0	0	4	7	0	0	0	0	0	0	0
IRQ	603	0	0	10	39	6	64	0	0	0	2	15
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	15	0	0	1	1	10
PAK	5497	26	7	248	959	2	938	6	0	73	69	193
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	1079	0	1	45	140	15	192	0	0	2	21	53
SUD	402	0	0	0	31	90	27	0	0	0	2	5
SYR	813	0	0	23	36	0	122	0	0	0	0	52
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	24	0	0	0	0	24
EMR	10930	34	8	392	1508	364	1514	6	0	84	100	367

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

Data Date of Most Country Year Count of Recent stool wild contacts collection 2020 Pakistan 21/Jan/20 2020 Total 21/Jan/20 Afghanistan 17/Aug/19 2019 Pakistan 26 26/Dec/19 34 26/Dec/19 2019 Total

Tabl	e 4 (C): Nur	mber of dist	ribution by	district of	-ve index AF	P cases identified a	s wild	positive by	y con	tact in EMR	<u>, 2019-202</u>	20
1	VEAR	COLINITRY		•	BROWINGE	•		DISTRICT	-	COLINIT	First co	

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

World Health Organization - Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

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Table 5:

Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (08/2020) / Ending on : (23/02/2020)

Table 5:				_					with	parai	ysis	onse			_			•) / En	aing	on : (23	3/02/2020)				
Country	Polio laboratories			_		olation re	sults of AFI	P cases							ntratyp	ic diffe	rentiat	tion results#					Indi	icators		
		suət	Referre	ed for ITD			Pe	nding		Type 1			Type 2	2		Type 3	3					<u> </u>	ø	ults	ults *	1
	ITD / Nucleotide Sequencing (Nucleotide Sequencing performed by EGY, PAK, TUN, CDC and RIVM laboratories)	AFP cases with specimens	L20B+	L20B+/NPEV	NPEV only	Negative	received < / = 14 days	received > 14 days ago	Wild	Sabin	Adav	PI!M	Sabin	VDPV	PI!M	Sabin	VDPV	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 rest within 7 days	% AFP cases with ITD result within 45 days of onset**	Latest report Date
Afghanistan	RRL Pakistan	452	37	3	34	283	100			28						25					3	7%	100%	100%	100%	22/02/2020
Bahrain	NPL Oman / CDC																									17/02/2020
Djibouti	NPL Kenya / CDC																									16/02/2020
Egypt***	RRL Egypt	135		1	4	74	26	30											1			5%	100%	100%	100%	19/02/2020
Iran	NPL Iran / CDC	137	1		2	122	12			1												1%	100%	100%	100%	22/02/2020
Iraq	RRL Egypt	126			9	74	39	4														9%	100%		100%	22/02/2020
Jordan	NPL Jordan / RRL EGYPT	10			2	5	3															29%	100%		100%	20/02/2020
Kuwait	RRL Kuwait / RIVM	5				2	3															10%	100%		100%	20/02/2020
Lebanon	NPL Jordan / RRL EGYPT	9			1	8																11%	100%		100%	20/02/2020
Libya	RRL Tunisia / RIVM	18	3			11	4									3						0%	100%	100%	100%	21/02/2020
Morocco	NPL Morocco / RRL Tunisia	19			1	16	2															3%	100%		100%	21/02/2020
Oman	NPL Oman / CDC	3				1	2								'							18%	100%		100%	17/02/2020
Pakistan	RRL Pakistan	1850	164	8	124	1106	435	9	17	35			22	3	'	52					68	7%	100%	100%	100%	22/02/2020
Palestine & UNF	RWA	6				1	2	2							<u> </u>							0%	50%		100%	16/02/2020
Qatar	NPL Oman / CDC														'											17/02/2020
Saudi Arabia	NPL Saudi Arabia / CDC	25				14	11								'							0%	79%			20/02/2020
Somalia	NPL Kenya / CDC	63	1		11	33	10	8													1	25%	7%		100%	22/02/2020
Sudan	NPL Sudan / RRL Egypt	47			1	19		27														8%	100%			09/02/2020
Syria	NPL Syria / RRL Egypt	56	2			28	26					Ш			$oxedsymbol{oxed}$							1%	100%			20/02/2020
Tunisia	RRL Tunisia	4					4					Ш			'											21/02/2020
U.A.E	NPL Oman / CDC											Ш			$oxedsymbol{oxed}$											17/02/2020
Yemen	NPL Kenya / CDC																									22/02/2020
	Total EMR 2020		208	12	189	1797	679	80	17	64			22	3		80			1		72	7%	98%	100%	100%	
	Total EMR 2019	24664	1049	98	3614	19848	7	31	151	570	1		45	24		620	1	3	21	6	2	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	2
	Wild+cVDPV2					1
	cVDPV2					1
	EV/SL	177	265	248	196	16
	Negative	6	9	5	3	
	Pending				4	14
AFG Total		185	316	336	259	34
■ EGY	EV/SL	492	481	508	666	48
	Negative	36	41	32	34	2
	Pending					20
EGY Total		528	522	540	700	70
■IRN	Wild				3	
	EV/SL		5	51	65	3
	Negative		1	3	3	_
	Pending		_	_	_	2
IRN Total	19		6	54	71	5
■ JOR	EV/SL	2	29	36	36	1
_30K	Negative		2	30	30	1
	Pending					2
JOR Total	T Charing	2	31	36	36	4
⊨ KUW	EV/SL		31	3	3	_
	Pending			J	8	
KUW Total	renamg			3	11	
■ LEB	EV/SL	2	26	44	44	2
	Negative	2	1	1	3	2
	Pending		1	1	J	2
LEB Total	rename	4	27	45	47	4
■ PAK	Wild	60	106	139	367	40
- I AK	Wild+cVDPV2	2	100	133	9	2
	cVDPV2	2			21	1
	aVDPV2	3	4		2	_
	EV/SL	456	523	531	418	12
		6	323	3	4	2
	Negative	8		3	10	63
PAK Total	Pending	529	633	673	831	120
SOM	cVDPV2	323	2	19	5	3
= 30 W	cVDPV3			11	,	3
	aVDPV2			2	1	
	EV/SL		20	43	28	3
			14	138	29	5
	Negative		14	150	29	1
COM Total	Pending		36	213	63	12
SOM Total	EV/SL			15	41	12
300				13	1	
	Negative				18	5
SUD Total	Pending		<u> </u>	15	60	5
SUD Total	EV/SI		4	81		
■ SYR	EV/SL Nogative		4	21	155 30	14 5
	Negative			21	30	6
SYR Total	Pending		4	102	185	25
TOTAL		1248	1575	2017	2263	279

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	39	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	4	6/Aug/19	15/Nov/19
			SINDH	4	7/Oct/19	18/Dec/19
		⊡ cVDPV2	GBALTISTAN	5	24/Aug/19	6/Nov/19
			ISLAMABAD	1	12/Nov/19	12/Nov/19
			KPAKHTUNKHWA	7	9/Oct/19	24/Dec/19
			PUNJAB	8	21/Aug/19	17/Dec/19
		■aVDPV2	PUNJAB	2	11/Apr/19	18/Dec/19
	PAK Total			399	1/Jan/19	31/Dec/19
	■SOM	⊡ cVDPV2	BANADIR	5	10/Nov/19	22/Dec/19
		■aVDPV2	BANADIR	1	3/Feb/19	3/Feb/19
	SOM Total			6	3/Feb/19	22/Dec/19
2019 Total				464	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
		■Wild+cVDPV2	NANGARHAR	1	8/Jan/20	8/Jan/20
		■ cVDPV2	NANGARHAR	1	7/Jan/20	7/Jan/20
	AFG Total			4	1/Jan/20	28/Jan/20
	■ PAK	■Wild	BALOCHISTAN	12	1/Jan/20	2/Feb/20
			ISLAMABAD	1	16/Jan/20	16/Jan/20
			KPAKHTUNKHWA	2	28/Jan/20	30/Jan/20
			PUNJAB	8	4/Jan/20	6/Feb/20
			SINDH	17	3/Jan/20	6/Feb/20
		■Wild+cVDPV2	PUNJAB	1	4/Jan/20	4/Jan/20
			SINDH	1	3/Jan/20	3/Jan/20
		■ cVDPV2	KPAKHTUNKHWA	1	10/Jan/20	10/Jan/20
	PAK Total			43	1/Jan/20	6/Feb/20
	■SOM	■ cVDPV2	BANADIR	3	5/Jan/20	19/Jan/20
	SOM Total			3	5/Jan/20	19/Jan/20
2020 Total				50	1/Jan/20	6/Feb/20
TOTAL				514	1/Jan/19	6/Feb/20

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Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2020 - 23/02/2020

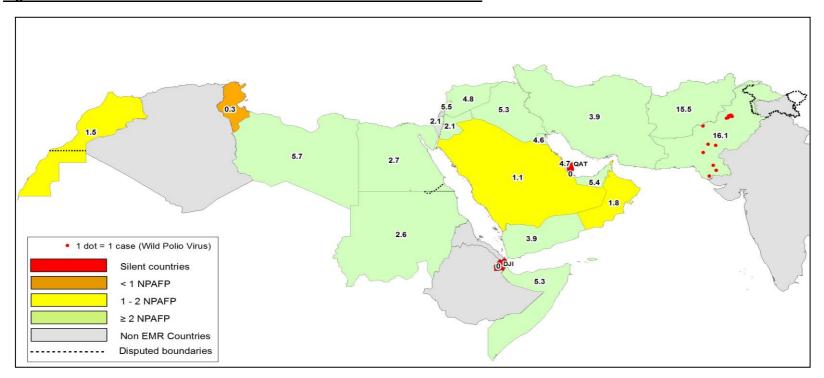


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2020 - 23/02/2020

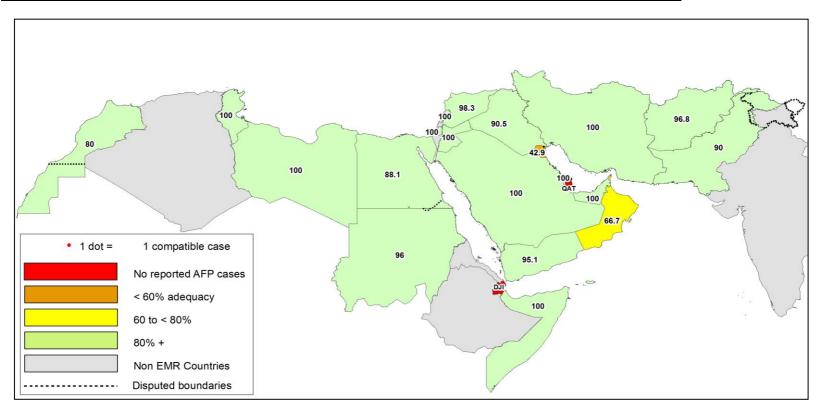


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2019 - 2020

Year	COUNTRY	Count		First Case	Last Case
2020	PAK		17	1-Jan-20	2-Feb-20
2020 Tot	:al		17	1-Jan-20	2-Feb-20
2019	AFG		29	4-Jan-19	7-Dec-19
	PAK		146	15-Jan-19	31-Dec-19
2019 Tot	:al		175	4-Jan-19	31-Dec-19

Advance notification of a new WPV1 case in Pakistan from Kashmore district, Sindh province with date of onset 03/02/2020 - details will be shared in next bulletin

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Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2020 - 23/02/2020

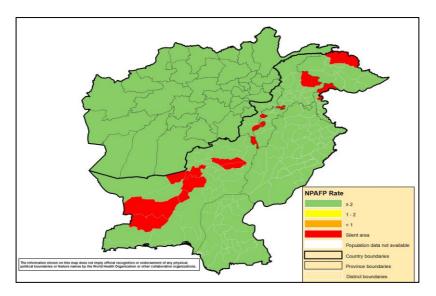


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2020 - 23/02/2020

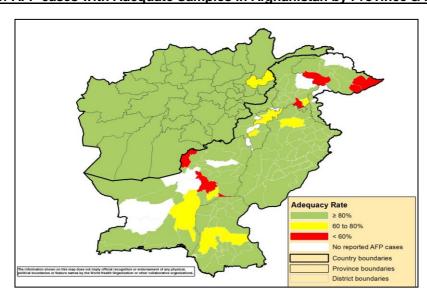
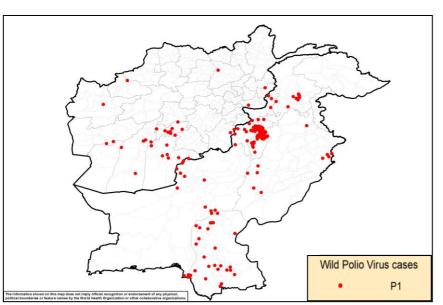
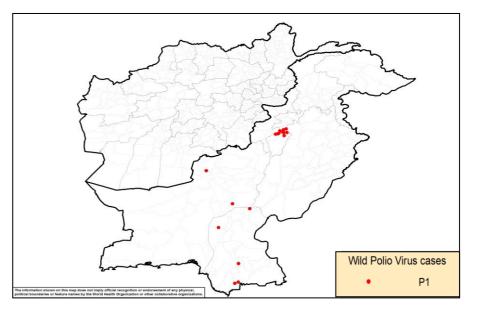


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5(b) 01/01/2020 - 23/02/2020



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Table 9: Wild	Polio cases by distr	ict and date of onset of	paralysis, Afgl	nanistan 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
019 Total			29	4-Jan-19	7-Dec-19

Table 1	0: W	ild Polio cases by district a	nd date of onset	of paralysis, Pa	kistan 2019-20	020
NSETYR		PROVINCE	DISTRICT	Count	First case	Last case
	2020	KHYBER PAKHTUNKHWA	LAKKIMRWT	9	2-Jan-20	2-Feb-
			TANK	1	11-Jan-20	11-Jan-
		BALOCHISTAN	PISHIN	1	31-Jan-20	31-Jan-
			NSIRABAD	1	3-Jan-20	3-Jan-
		SINDH	KASHMORE	1	16-Jan-20	16-Jan-:
			KAMBAR	1	8-Jan-20	8-Jan-:
			SUJAWAL	1	7-Jan-20	7-Jan-
			T.ALLAHYAR	1	7-Jan-20	7-Jan-
			BADIN	1	1-Jan-20	1-Jan-
20 Total				17	1-Jan-20	2-Feb-
	2019	KHYBER PAKHTUNKHWA	LAKKIMRWT	32	27-May-19	31-Dec-
			DIKHAN	4	5-May-19	21-Dec-
			TANK	6	11-Oct-19	18-Dec-
			BANNU	26	15-Jan-19	30-Nov-
			SWABI	1	17-Nov-19	17-Nov-
			TORGHAR	7	25-May-19	13-Sep-
			HANGU	2	20-Jan-19	28-Jul-
			CHARSADA	1	21-Jul-19	21-Jul-
			SHANGLA	1	18-May-19	18-May-
		BALOCHISTAN	KABDULAH	5	9-Jun-19	31-Dec
			JAFARABAD	3	28-May-19	18-Dec
			NSIRABAD	1	5-Dec-19	5-Dec
			MASTUNG	1	18-Nov-19	18-Nov
			HARNAI	1	27-Sep-19	27-Sep
			QUETTA	1	6-Jul-19	6-Jul
		PUNJAB	LAHORE	5	20-Jan-19	28-Dec
			DGKHAN	4	2-Dec-19	25-Dec
			OKARA	1	8-Dec-19	8-Dec
			MUZFARGARH	1	26-Nov-19	26-Nov
			JHELUM	1	21-Jun-19	21-Jun
		SINDH	THATTA	1	26-Dec-19	26-Dec
			DADU	2	6-Dec-19	26-Dec
			LARKANA	3	17-Apr-19	24-Dec
			JAMSHORO	3	23-Aug-19	22-Dec
			JACOBABAD	1	19-Dec-19	19-Dec
			MIRPURKHAS	4	17-Nov-19	18-Dec
			KAMBAR	3	2-Nov-19	14-Dec
			BADIN	1	28-Nov-19	28-Nov
			T.ALLAHYAR	1	10-Nov-19	10-Nov
			KHIKAMARI	1	29-Oct-19	29-Oct
			SUKKUR	1	27-Oct-19	27-Oct
			KHIJAMSHEED	1	24-Oct-19	24-Oct
			SBENAZIRABAD	1	19-Oct-19	19-Oct
			SUJAWAL	1	25-Sep-19	25-Sep
			KHIORANGI	2	20-Aug-19	26-Aug
			HYDERABAD	2	20-Jul-19	5-Aug
			KHIGIQBAL	1	29-Apr-19	29-Apr
			KHILAYARI	1	25-Feb-19	25-Feb
		KP TRIBAL DISTRICTS	MOHMAND	1	20-Dec-19	20-Dec
			WAZIR-S	1	20-Aug-19	20-Aug
			WAZIR-N	8	4-Apr-19	21-Jul
			KHYBER	1	14-Feb-19	14-Feb
			BAJOUR	1	18-Jan-19	18-Jan

Advance notification of a new WPV1 case in Pakistan from Kashmore district, Sindh province with date of onset 03/02/2020 - details will be shared in next bulletin

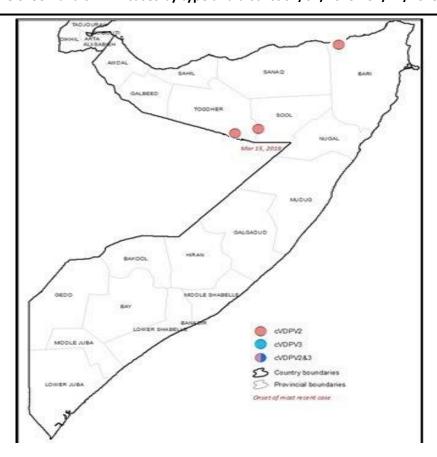
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Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2019-2020

					cVDPV2	-
COUNTRY	YEAR	PROVINCE	DISTRICT	Count	First Case	Last Case
РАК	2020	KHYBER PAKHTUNKHWA	PESHAWAR	1	02-Jan-20	02-Jan-20
			BAJOUR	1	03-Jan-20	03-Jan-20
			KHYBER	1	12-Jan-20	12-Jan-20
		Total 2020	3	2-Jan-20	12-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-Ap-19	21-Ap-19
		SOOL	LAS ANOD	1	15-Mar-19	15-Mar-19
Total 2019					15-Mar-19	28-Dec-19

Advance notification of 6 new cVDPV2 cases in Pakistan, 4 from Khyber and 1 from Nowshera,
Khyber Pakhtunkhwa (KP) province, and 1 from Rawalpindi district from Punjab province with dates
of onset between 13-22 January 2020 - details will be shared in next bulletin

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



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