Highlights of Polio Fax Bulletin No. 1183 for Week 22 2021

I. Salient features this week

- 1. Polio eradication teams at the Regional and Country levels continue to contribute to the COVID19 Response, particularly in areas of surveillance (field and laboratory), data analysis, communications and coordination.
- 2. No new wild poliovirus type-1 (WPV1) cases reported, but two new positive WPV1 environmental samples from Pakistan reported this week.
- 3. No new circulating vaccine derived poliovirus type-1 (cVDPV1) cases reported this week.
- 4. One new circulating vaccine derived poliovirus type-2 (cVDPV2) case from Afghanistan reported this week and one new cVDPV2 positive environmental sample from Pakistan. In addition, four VDPV2 positive environmental samples from Egypt are reported. These isolates are neither related with each other nor with earlier cVDPV2s reported in country or elsewhere.

II. Wild Poliovirus Type-1 (WPV1) Transmission

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

As of week 22 of 2021, two WPV1 cases were reported [83 in the same period in 2020; Afghanistan – 27, Pakistan - 56].

a. Human samples: No new WPV1 cases reported this week.

Afghanistan:

In 2021 to date, **1 WPV1** case has been reported so far from Southeast Region with onset of paralysis **1 January 2021**.

Pakistan:

In 2021 to date, **1 WPV1** case has been reported so far from Balochistan province with date of onset **27 January 2021.**

- b. *Environmental samples*: Two new WPV1 positive environmental samples from Pakistan reported this week.
- **Afghanistan:** In 2021 to date, there is **1** WPV1 combined with cVDPV2 positive environmental sample reported with collection date on **23 February 2021**.
- Pakistan: In 2021, there are 57 WPV1 positive environmental samples (including 16 mixture of WPV1 and cVDPV2 and 4 mixture of WPV1 and aVDPV2) with most recent sample collected on 24 May 2021.
- III. Vaccine Derived Polioviruses (VDPVs): One new cVDPV2 case reported from Afghanistan, in addition to one new cVDPV2 and one aVDPV2 positive environmental samples from Pakistan, and four new VDPV2 positive environmental samples from Egypt (not classified yet) reported this week.

In 2021 to date, two cVDPV1 reported from Yemen and 48 cVDPV2 cases were reported (Afghanistan 40 and Pakistan 8).

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

<u>Afghanistan</u>: One new cVDPV2 case reported this week and no new positive environmental samples were reported.

The newly reported cVDPV2 case is from Badghis province, West Region, with date of onset 29 April 2021.

In 2021 to date, there are **40 cVDPV2** cases: 16 from West Region, 12 from South Region, seven from South East Region, three from Central Region and two from North Region. **The most recent case had onset on 29 April 2021.**

Environment: In 2021 to date, there are *39* cVDPV2 positive environmental samples including 1 mixture of WPV1 and cVDPV2 reported with *most recent sample collected on 25 April 2021*.

<u>Pakistan</u>: No new VDPV cases reported this week, but one new cVDPV2 positive environmental sample was reported this week.

In 2021, there are *eight* cVDPV2 cases reported four from Balochistan, two from Sindh and one each from Khyber Pakhtunkhwa (KP) and Punjab provinces with *most recent onset on 23 April 2021*.

Environment: In 2021 to date; there are *32* cVDPV2 positive samples including 16 mixture of WPV1 and cVDPV2 with *most recent sample collected on 18 May 2021*.

SOMALIA: No new cVDPV2 isolates from human or environmental samples reported this week. No VDPV isolates from human or environmental sample in 2021 so far.

The most recent isolate was from a case having onset of paralysis on 25 October 2020.

SUDAN: No new cVDPV2 isolates from human or environmental samples reported this week. No VDPV isolates from human or environmental sample in 2021 so far.

The most recent isolate was from a case having onset of paralysis on 18 December 2020.

Egypt: Four new positive VDPV2 isolates from environmental samples were reported this week, one from Aswan province (Aswan site) stool collection date on 8 May 2021, one each from Menofia province (Shebeen El-Kom site), Qena province (Qena site) and Port Said province (Port Said site) all with stool collection date on 9 May 2021. These VDPV2 isolates are awaiting classification type. These are not related to each other and other cVDPV2s nonetheless.

In 2021 to date, *nine* cVDPV2 positive environmental samples are reported. These include two each from Aswan, Qena and Alexandria provinces; and one each from Beni Suef, Kafr El Sheikh and Giza provinces. The samples are genetically related with each other and belong to CHA-NDG-1 emergence (importation from Sudan/Chad). *Date of the recent most cVDPV2 positive environmental sample is* 25 February 2021. There is no child paralyzed due to cVDPV2.

In addition to two aVDPV2 positive environmental samples reported one from Cairo province and the other from Giza province with most recent stool collection date on 4 May 2021.

YEMEN: No new cVDPV1 cases reported this week.

In 2021 to date, **2** cVDPV1 cases were reported with most recent date of onset on 15 February 2021. **VDPV Events:** There is one country having an Event due to VDPV2. Response per WHO's SOPs are ongoing.

<u>Iran</u>: In 2021 to date, **1** cVDPV2 positive environmental sample was collected from Zehedan district, Sistan & Balochistan province. The isolate is genetically related with earlier Pakistan virus. **Date of collection was on 20 February 2021**. **There is no child paralyzed due to cVDPV2**.

IV. Surveillance performance indicators

In 2021, 11 out of 22 member states (14 in the same period in 2020) are meeting the global target of both key surveillance indicators: non polio AFP rate of 2/100,000 children aged below 15 years and percent AFP cases with adequate specimen 80% and above.

- Morocco, and Tunisia are missing both indicators as their non-polio AFP rates are 0.7 and 1.1 and the percentages of AFP cases with adequate stool specimens is 34.5% and 66.7% respectively.
- Bahrain, Jordan, Lebanon, Oman, Palestine, Qatar, Saudi Arabia, and United Arab Emirates have a non-polio AFP rate of 1.5, 0.2, 1.8, 1.0, 0.4, 1.0, 1.5, and 1.1 respectively.
- Djibouti has AFP cases with adequate stool specimens is 75.0%.

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

	Reported AFP cases by week of onset - Week (22/21) / Ending on : 06/06/2021														
Country	Total AFP 2019	Total AFP 2020	Total AFP to date, 2021	W11 21 Mar 21	W12 28 Mar 21	W13 4 Apr 21	W14 11 Apr 21	W15 18 Apr 21	W16 25 Apr 21	W17 02 May 21	W18 09 May 21	W19 16 May 21	W20 23 May 21	W21 30 May 21	W22 06 Jun 21
Afghanistan	3768	3972	1735	77	83	85	100	81	91	86	64	71	78	59	7
Bahrain	17	15	2	0	1	0	0	0	0	0	0	0	0	0	0
Djibouti	5	5	4	0	0	0	1	0	0	0	0	0	0	0	0
Egypt	1343	1009	504	46	21	27	18	14	27	9	11	16	26	25	1
Iran	1070	618	237	8	8	10	12	12	9	10	12	4	1	0	
Iraq	1157	476	285	6	16	14	18	9	5	7	6	10	7	8	
Jordan ****	113	32	4	0	0	0	1	0	0	0	0	0	0	0	1
Kuwait	48	36	12	1	0	0	1	2	1	0	0	0	0	0	
Lebanon ****	87	49	12	1	0	1	0	0	1	0	1	3	0	0	
Libya	107	95	34	3	4	4	3	2	2	0	1	1	2	0	
Morocco	247	87	29	3	3	2	0	2	3	1	1	0	1	1	
Oman	30	22	5	0	0	0	0	1	2	0	0	1	0	0	
Pakistan	15218	11971	4464	210	247	237	209	186	196	144	136	161	214	78	1
Palestine ****	62	16	3	0	0	0	0	0	0	0	0	0	0	0	
Qatar	9	9	2	0	0	0	0	0	0	1	0	0	0	0	
Saudi Arabia	236	200	55	3	3	2	1	1	3	2	0	0	0	0	0
Somalia	361	376	149	8	6	3	4	5	3	8	6	6	9	3	0
Sudan	608	733	228	11	14	8	9	7	5	9	1	4	10	6	
Syria ****	377	343	161	7	16	8	8	10	5	9	2	6	8	10	1
Tunisia	79	40	12	1	0	3	0	1	1	0	0	0	0	0	
U.A.E	50	19	7	0	0	0	1	1	0	0	0	1	0		
Yemen	779	825	303	15	19	9	9	10	9	7	8	7	12	10	
Total EMR	25771	20948	8247	400	441	413	395	344	363	293	249	291	368	200	11

No data = No report received

Table 2: Confirmed polio cases by month of onset

Table 2: Confirm		o cases L			-											
	2019	20	06/0)6				Confir	ned po	lio cas	es by n	nonth c	of onse	t		
Country	Total year 20	Total year 2020	2020	2021	July 2020	Augsut 2020	September 2020	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021
Afghanistan	29	56	27	1	7	6	6	3	0	0	1	0	0	0		
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				
Libya	0	0	0	0	0	0	0	0	0	0	0	0	0			
Morocco	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	147	84	56	1	6	5	7	4	2	0	1	0	0	0		
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		
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Somalia	0	0	0	0	0	0	0	0	0	0	0		0			
Sudan	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	
U.A.E	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yemen	0	0	0	0	0	0	0	0	0		0					
Total EMR	176	140	83	2	13	11	13	7	2	0	2	0	0	0	0	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 2020 & 2021 up to Week (22/21) / Ending on : 06/06/2021)

	Table 3: Investigation of AFP cases with paralysis of 2020								2021																
							202				Wild	cases							2021				Wi	ld	
					AFP	•				Specimen		**** AFP Specimen case													
	9		Case	e class	ification			٤	is				-		Case	classif	ication		n	٤	is o				
	202			_	AFP)		*	g s from	g > 90 alysi	Φ	"	40	202			_	AFP)		AFI	g s from	g > 90 alysis	Φ	"		
COUNTRY	Total AFP cases onset 2020	Total Confirmed Polio Cases *	e e	Pending Classification	0 AI		AFP rate	AFP cases pending sification > 90 days to onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis	adequate mens	Wild P1 Poliovirus	Wild P3 Poliovirus	Total AFP cases onset 2021	Total Confirmed Polio Cases *	<u>e</u>	Pending Classification	o Al		Annualized Non polio AFP rate **	AFP cases pending sification > 90 days to onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis	adequate nens	Wild P1 Poliovirus	Poliovirus	
	S 01	ed F	atik	ific	poli	* *	FP	per 90 o	per and it of	adec	olio	oj oj	is of	ed F	atik	sific	poli	*	d uc	per 90 o aral	per and st of	adec Jens	ollo	olio	
	ase	onfirm Cases	omp	lass	nor	* ^	lo A	ses on > of p	ses ion ionse	ith *** adequ specimens	1 Pc	3 Pc	ase	onfirm Cases	dwo	lass	nor	* >	d No rate	ses on > of p	ses ion inse		1 Pc	3 Pc	
	윤	Con	Polio Compatible) gc	l b	VDPV ****	Non polio	AFP cases classification > onset of p	P ca icat om c	% with *** speci	ld P	Ы Б	FP	Con	Polio Compatible	o gc	ı) þé	VDPV ****	ılize	AFP cases classification > onset of p	P ca icat om c	% with *** speci	ld P	Wild P3	Latest
	al A	tal	Poli	ndir	arde		Nor	AFI sific	AFI ISSIÍ	۸ %	W	≶	al A	tal (Poli	ndir	arde	-	enui	AFI sific	AFI Issif	۸%	Wi	Ň	line List
	Tot	ř		Pe	Discarded (non polio			clas	cla				Tot	ĭ		Pe	Discarded (non polio		Ā	clas	cla day				Date
Afghanistan	3972	56	3	0	3600	314	18.5	0	0	92.6	56	0	1735	1	0	244	1448	42	18.7	29	0	93.7	1	0	06/06/2021
Bahrain	15	0	0	0	15	0	5.0	0	0	93.3	0	0	2	0	0	1	1	0	1.5	0	0	100.0	0	0	06/06/2021
Djibouti	5	0	0	0	5	0	1.4	0	0	100.0	0	0	4	0	0	0	4	0	2.4	0	0	75.0	0	0	06/06/2021
Egypt	1009	0	0	0	1009	0	2.6	0	0	94.6	0	0	504	0	0	122	382	0	3.0	8	0	85.5	0	0	03/06/2021
Iran	618	0	0	0	618	0	3.0	0	0	98.5	0	0	237	0	0	5	232	0	2.7	0	0	94.5	0	0	30/05/2021
Iraq	476	0	0	0	476	0	2.8	0	0	93.3	0	0	285	0	0	39	246	0	3.8	6	0	93.0	0	0	05/06/2021
Jordan	32	0	0	0	32	0	0.8	0	0	96.9	0	0	4	0	0	2	2	0	0.2	0	0	100.0	0	0	06/06/2021
Kuwait	36	0	0	0	36	0	4.1	0	0	91.7	0	0	12	0	0	0	12	0	3.2	0	0	83.3	0	0	30/05/2021
Lebanon	49	0	0	0	49	0	3.1	0	0	89.8	0	0	12	0	0	7	5	0	1.8	0	0	83.3	0	0	31/05/2021
Libya	95	0	0	0	94	1	3.6	0	0	100.0	0	0	34	0	0	6	28	0	3.0	0	0	100.0	0	0	05/06/2021
Morocco	87	0	0	0	87	0	0.9	0	0	78.2	0	0	29	0	0	23	6	0	0.7	3	1	34.5	0	0	28/05/2020
Oman	22	0	0	0	22	0	1.9	0	0	100.0	0	0	5	0	0	1	4	0	1.0	0	0	80.0	0	0	01/06/2021
Pakistan	11971	84	27	8	11712	142	15.2	8	0	85.4	84	0	4464	1	2	625	3822	14	10.3	100	0	88.4	1	0	06/06/2021
Palestine	16	0	0	0	16	0	0.9	0	0	100.0	0	0	3	0	0	3	0	0	0.4	3	0	100.0	0	0	30/05/2021
Qatar	9	0	0	0	9	0	2.1	0	0	33.3	0	0	2	0	0	2	0	0	1.0	0	0	100.0	0	0	30/05/2021
Saudi Arabia	200	0	0	0	200	0	2.4	0	0	96.0	0	0	55	0	0	12	43	0	1.5	0	0	94.5	0	0	06/06/2021
Somalia	376	0	0	1	360	15	4.7	1	0	94.7	0	0	149	0	0	32	117	0	4.2	1	1	96.6	0	0	06/06/2021
Sudan	733	0	0	0	675	58	3.8	0	0	92.9	0	0	228	0	0	33	195	0	2.7	3	0	94.7	0	0	03/06/2021
Syria	343	0	0	0	343	0	4.3	0	0	91.0	0	0	161	0	0	33	128	0	4.9	0	0	91.9	0	0	06/06/2021
Tunisia	40	0	0	0	40	0	1.4	0	0	55.0	0	0	12	0	0	2	10	0	1.0	0	0	66.7	0	0	04/06/2021
U.A.E	19	0	0	0	19	0	1.5	0	0	100.0	0	0	7	0	0	6	1	0	1.1	3	0	100.0	0	0	25/05/2021
Yemen	825	0	1	1	792	31	5.4	1	1	88.7	0	0	303	0	0	168	133	2	4.6	26	16	91.1	0	0	05/06/2021
EMR	20948	140	31	10	20209	561	8.0	10	1	88.6	140	0	8247	2	2	1366	6819	58	6.7	182	18	90.1	2	0	
2019	25771	176	7	0	25559	29	10.2	0	0	89.5	176	0									<u> </u>				

^{*} 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)20	•	-			20)21	•	-
COUNTRY	# OF			LAB RESULTS			# OF			LAB RESULTS		
	CONTACTS	WILD	VDPV	SL	NPEV	PENDING	CONTACTS	WILD	VDPV	SL	NPEV	PENDING
AFG	1252	14	79	52	270	0	601	0	16	53	78	40
BAH	1	0	0	0	0	0	0	0	0	0	0	0
DJI	2	0	0	0	0	0	1	0	0	0	0	0
EGY	330	0	0	12	32	1	248	0	0	29	17	36
IRN	46	0	0	0	0	0	79	0	0	11	1	3
IRQ	168	0	0	4	10	0	80	0	0	3	7	6
JOR	0	0	0	0	0	0	0	0	0	0	0	0
KUW	0	0	0	0	0	0	0	0	0	0	0	0
LEB	5	0	0	0	0	0	13	0	0	0	0	4
LIB	19	0	0	0	0	0	0	0	0	0	0	0
MOR	8	0	0	0	0	4	17	0	0	0	0	17
OMA	64	0	0	2	8	1	7	0	0	1	0	2
PAK	4652	21	19	379	787	0	1880	0	3	131	233	148
PAL	0	0	0	0	0	0	0	0	0	0	0	0
QAT	0	0	0	0	0	0	0	0	0	0	0	0
SAA	18	0	0	0	0	6	9	0	0	0	0	9
SOM	1110	0	10	23	149	8	437	0	0	0	28	103
SUD	364	0	18	3	29	11	53	0	0	0	0	22
SYR	280	0	0	11	15	0	28	0	0	3	3	2
TUN	6	0	0	0	0	1	1	0	0	0	0	0
UAE	0	0	0	0	0	0	0	0	0	0	0	0
YEM	230	0	0	7	41	0	109	0	0	2	4	82
EMR	8555	35	126	493	1341	32	3563	0	19	233	371	474

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

 Year
 Country
 Date of Most Recent stool wild contacts wild contacts collection

 2020
 Afghanistan Pakistan Pakistan 21 14/Dec/20

 2020 Total 35 14/Dec/20

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

YEAR	COUNTRY	PROVINCE	DISTRICT	COUNT	First case	Last case
	AFG	KANDAHAR	NESH	1	23-May-20	23-May-20
		HILMAND	WASHER	1	04-Jan-20	04-Jan-20
		NIMROZ	KHASHROD	1	28-Feb-20	28-Feb-20
		FARAH	ANARDARA	1	06-May-20	06-May-20
2020	PAK	BALOCHISTAN	KSAIFULLAH	1	01-Sep-20	01-Sep-20
2020		PUNJAB	LAHORE	1	24-Jul-20	24-Jul-20
			DG KHAN	2	18-Jan-20	05-Jul-20
		KHYBER PAKHTUNKHWA (KP)	KARAK	1	20-Jan-20	20-Jan-20
		SINDH	JACOBABAD	2	07-Feb-20	14-Jul-20
	2020 Total			11	04-Jan-20	01-Sep-20

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 (22/2021) / Ending on : (06/06/2021)

Table 5:	_		_			_		P cases v	vitii þ	arary	313	Ulise			_		_		Lilui	ng oi	1. (00/0	0/2021)				
Country	Polio laboratories	"			virus is	olation re	sults of AFI	P cases										on results #					Indi	cators		İ
		imens	Referre	ed for ITD	-		Pe	nding I		Type 1		ı	Туре	2		Type 3						for	a. re	sults	results set**	ā
	ITD / Nucleotide Sequencing (Nucleotide Sequencing performed by EGY, PAK, TUN, CDC and RIVM laboratories)	AFP cases with speci	L20B+	L20B+/NPEV	NPEV only	Negative	received < /= 14 days	received > 14 days ago	Mild	Sabin	VAOV	Niid	Sabin	VDPV	Wild	Sabin	Adav	Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD	% specimens positive f NPEV*	% AFP cases with cultur results within 14 days	% AFP cases with ITD res within 7 days	% AFP cases with ITD res within 45 days of onset	Latest report Date
Afghanistan	RRL Pakistan	1709	173	20	214	1120	144		1	57	1		71	36		63			1		2	12%	100%	99%	98%	06/06/2021
Bahrain	NPL Oman / CDC																									01/06/2021
Djibouti	NPL Kenya / CDC	4			1																	100%			100%	06/06/2021
Egypt***	RRL Egypt	475	58	3	30	334	48	2		2			57			1		1		1		6%	91%	100%	99%	03/06/2021
Iran	NPL Iran / CDC	286	9		3	252	22			1			6			2						1%	100%	100%	98%	05/06/2021
Iraq	RRL Egypt	280	5		12	245	18			1						9						5%	100%	44%	97%	05/06/2021
Jordan	NPL Jordan / RRL EGYPT	4			1	2	1															33%	100%		100%	06/06/2021
Kuwait	RRL Kuwait / RIVM	13				12	1															0%	100%		100%	03/06/2021
Lebanon	NPL Jordan / RRL EGYPT	12			1	7	4															7%	100%			06/06/2021
Libya	RRL Tunisia / RIVM	28				28																0%	100%		96%	19/05/2021
Morocco	NPL Morocco / RRL Tunisia	21				21																2%	100%		95%	04/06/2021
Oman	NPL Oman / CDC	5				4	1															0%	100%		100%	01/06/2021
Pakistan	RRL Pakistan	4408	258	24	618	3126	370	1	1	82			146	12		91			2		1	12%	100%	100%	97%	06/06/2021
Palestine & UNR	RWA .	3				3																0%	0%		100%	30/05/2021
Qatar	NPL Oman / CDC	2				1	1															0%	100%		100%	01/06/2021
Saudi Arabia	NPL Saudi Arabia / CDC	61				53	7	1														0%	98%		100%	06/06/2021
Somalia	NPL Kenya / CDC	149			12	105	8	24														10%	5%		96%	06/06/2021
Sudan	NPL Sudan / RRL Egypt	228			28	182	17	1														12%	100%			03/06/2021
Syria	NPL Syria / RRL Egypt	155	4		4	128	19															3%	100%		0%	05/06/2021
Tunisia	RRL Tunisia	12				12																0%	100%		100%	19/05/2021
U.A.E	NPL Oman / CDC	4				4																0%	100%		50%	01/06/2021
Yemen	NPL Kenya / CDC	132	6		20	106				1	1					3		1				13%	100%	100%	1%	05/06/2021
	Total EMR 2021		513	47	944		661	29	2	144	2		280	48		169		2	3	1	3	11%	98%	99%	96%	
	Total EMR 2020	20389	1681	93	3046	15556		4	129	352	32		509	468		462	2	3	18	11		14%	94%	97%	93%	
			-																							

^{*} 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	2021
□ AFG	Wild	2	42	83	56	28	
	Wild+cVDPV2					7	1
	aVDPV2					2	2
	cVDPV2					167	38
	Entero	125	170	177	138	111	25
	Negative	6	9	5	3	3	2
	Pending						30
	SL1/3	36	94	71	60	31	4
	SL2	16	1		2	64	81
AFG Total	Jee	185	316	336	259	413	183
	T	185	316	336	259		183
□ EGY	aVDPV1					1	
	aVDPV2					1	2
	aVDPV3					1	
	cVDPV2						9
	Entero	354	322	321	397	288	45
	Negative	34	41	32	34	41	13
		34	71	32	34	71	
	Pending						16
	SL1/3	79	159	187	269	212	36
	SL2	60					127
	VDPV2	1					4
	VDPV3					1	
EGY Total		528	522	540	700	545	252
■ IRN	Wild				3		
		1			-		
	cVDPV2					3	1
	Entero	-	1	29	55	23	9
	Negative		1	3	3		
	Pending						2
	SL1/3		4	22	10	16	3
	SL2					1	5
IRN Total			6	54	71	43	20
	Te						
□ JOR	Entero	1	13	27	24	9	3
	Negative		2			1	
	Pending					1	2
	SL1/3	1	16	9	12	14	9
JOR Total		2	31	36	36	25	14
⊫ KUW	Entero			2	9		
		1					
	SL1/3			1	4		
	(blank)	-	1	1	1		
KUW Total	_			3	14		
⊫ LEB	Entero	2	12	24	15	16	12
	Negative	2	1	1	3	2	1
	Pending						4
	SL1/3		14	20	29	13	3
LEB Total	321/3	4	27		47		
		4	27	45	47	31	20
■ PAK	aVDPV1						1
	Wild	59	105	139	367	337	37
	Wild+cVDPV2	2			10	91	16
	Wild+aVDPV2	1	1		2	6	4
	aVDPV2	3	4			16	18
	cVDPV2	2			29	44	16
	Entero	300	392	404	308	135	61
	Negative	6		3	4	6	1
	Pending						53
	SL1/3	77	106	127	90	49	14
	SL2	79	25		22	146	141
PAK Total		529	633	673	832	830	362
ESOM	aVDPV2			2	1		
	cVDPV2	-	2	18	5	26	
	cVDPV2+cVDPV3	-		1			
	cVDPV3	-		11			
	Entero	-	16	25	22	12	14
	Negative		14	138	29	34	24
	Pending	-	_	_	_		2
	SL1/3	1	2	8	6	6	3
	SL2	1	2	10		5	1
SONA T-1	VDPV2		2.0	310	6.0		1
SOM Total	cVDPV2		36	213	63	83	45
= SUD				1-		14	
	Entero	+		15	51	32	11
	Negative				4	2	5
	Pending	+			-		5
	SL1/3				5	2	1
	SL2	-	1				3
SUD Total	Entero		4	15 72	60	50 152	25 55
LSYK		+	4	72	111		
	Negative			21	30	17	6
	Pending	+		6			9
the state of the s					44	36	14
	SL1/3						
CVD T-1-1	SL1/3 SL2			3			0.4
SYR Total	SL1/3 SL2	1248	4 1575		185 2267	205 2225	84 1005

Table 7: Environmental Wild/VDPV isolate by site 2020-2021 LAB RESULTS **■** PROVINCE Last date 1/Jan/20 26/Apr/20 24/Aug/20 23/Aug/20 ∃ AFG ■Wild HILMAND HIRAT KABUL 26/Sep/20 26/Sep/20 KANDAHAR 28/Jan/20 25/Jun/20 25/Apr/20 27/Sep/20 25/Apr/20 27/Sep/20 KHOST KUNDUZ NANGARHAR 26/Jan/20 6/Oct/20 ■ Wild+cVDPV2 6/Sep/20 25/Jun/20 6/Sep/20 6/Dec/20 HILMAND KANDAHAR NANGARHAR 8/Jan/20 25/Jul/20 HILMAND HIRAT 27/May/20 26/Sep/20 27/Dec/20 26/Dec/20 ■ cVDPV2 34 KABUL 19 26/Apr/20 5/Nov/20 KANDAHAR 9/Jul/20 27/Dec/20 24/Jun/20 6/Jun/20 23/Nov/20 KHOST 7/Nov/20 KUNAR KUNDUZ 23/Aug/20 24/Oct/20 24/Jul/20 7/Jan/20 6/Oct/20 23/Dec/20 LAGHMAN NANGARHAR 58 PAKTYA 26/Jul/20 26/Jul/20 ■ aVDPV2 HILMAND 27/Sep/20 27/Sep/20 26/Dec/20 1/Jan/20 26/Dec/20 27/Dec/20 KABUL AFG Total 204 21/Sep/20 ■ aVDPV2 GIZA 21/Sep/20 21/Sep/20 **EGY Total** S & B ■ cVDPV2 ∃IRN 25/Dec/20 3/Oct/20 3/Oct/20 25/Dec/20 **■** PAK ■Wild AJK 25/Feb/20 25/Feb/20 1/lan/2021/Sep/20 GBALTISTAN 12/May/20 12/May/20 ISLAMABAD 16/Jan/20 10/Nov/20 23 122 28/Jan/20 4/Jan/20 18/Dec/20 28/Dec/20 KPAKHTUNKHWA PUNJAB 8/Dec/20 114 3/Jan/20 21/Dec/20 11/Mar/20 1/Feb/20 11/Mar/20 ■ Wild+cVDPV2 BALOCHISTAN 27 KPAKHTUNKHWA 1 14 4/Jan/20 PUNJAB 12/Oct/20 10/Dec/20 SINDH 49 3/Jan/20 BALOCHISTAN ■ Wild+aVDPV2 17/Dec/20 17/Dec/20 21/Dec/20 16/Mar/20 PUNJAB 2/Jun/20 ■ cVDPV2 BALOCHISTAN 28/Dec/20 15/Oct/20 18/Dec/20 10/Jan/20 16/Jan/20 KPAKHTUNKHWA PUNJAB SINDH 8/Jun/20 10/Dec/20 21 BALOCHISTAN ■ aVDPV2 17/Sep/20 17/Nov/20 10/Apr/20 4/May/20 2/Dec/20 30/Dec/20 KPAKHTUNKHWA PUNJAB SINDH 13/Oct/20 3/Nov/20 PAK Total **30/Dec/20** 24/Oct/20 494 1/Jan/20 **■** cVDPV2 BANADIR ■ SOM 23 2 5/Jan/20 19/Jun/20 20/Jun/20 LOWER JUBA 8/Sep/20 8/Sep/20 **5/Jan/20** 29/Mar/20 **24/Oct/20** 9/Nov/20 SOM Total 26 KHARTOUM SUD **□** cVDPV2 14 **SUD Total** 14 29/Mar/20 9/Nov/20 2020 Total HILMAND 23/Feb/21 AFG ■ Wild+cVDPV2 23/Feb/21 1 □ cVDPV2 HILMAND 14 4/Jan/21 24/Mar/21 23/Mar/21 6/Mar/21 HIRAT 23/Mar/21 KABUL 6/Mar/21 KANDAHAR 5/Jan/21 25/Apr/21 KUNDUZ 23/Feb/21 23/Feb/21 NANGARHAR 5/Jan/21 25/Apr/21 3/Feb/21 ■aVDPV2 3/Feb/21 KABUL KANDAHAR 7/Mar/21 7/Mar/21 AFG Total 41 4/Jan/21 25/Apr/21 □ cVDPV2 ALEXANDRIA 10/Jan/21 20/Jan/21 ■ EGY 25/Feb/21 ASWAN 9/Feb/21 BENI SUEF 27/Jan/21 27/Jan/21 31/Jan/21 27/Jan/21 31/Jan/21 27/Jan/21 GIZA KAFR EL-SHEIKH 23/Jan/21 23/Feb/21 **■** aVDPV2 CAIRO 28/Apr/21 28/Apr/21 4/May/21 10/Jan/21 GIZA 4/May/21 **EGY Total** 4/May/21 20/Feb/21 20/Feb/21 20/Feb/21 20/Feb/21 ∃IRN □ cVDPV2 S & B BALOCHISTAN 28/Feb/21 ∃Wild 20/Jan/21 ISLAMABAD 11/Jan/21 17/Mar/21 18/Jan/21 4/Jan/21 24/May/21 19/May/21 KPAKHTUNKHWA PUNJAB 13 SINDH 4/Jan/21 12/Apr/21 12/Apr/21 11/Jan/21 ■ Wild+cVDPV2 BALOCHISTAN 2/Jan/21 KPAKHTUNKHWA 11/Jan/21 PUNJAB 11/Jan/21 18/Jan/21 SINDH 2/Mar/21 10/Mar/21 BALOCHISTAN ■ Wild+aVDPV2 1/Jan/21 1/Jan/21 8/Jan/21 8/Jan/21 PUNJAB SINDH 12/Jan/21 4/Feb/21 BALOCHISTAN □ cVDPV2 11 1/Jan/21 18/May/21 16/Jan/21 2/Mar/21 KPAKHTUNKHWA SINDH 12/Jan/21 9/Feb/21 ■ aVDPV2 AJK 16/Mar/21 16/Mar/21 KPAKHTUNKHWA 1/Mar/21 1/Mar/21 21/Apr/21 19/Apr/21 PUNJAB SINDH 4/May/21 PAK Total 91 1/Jan/21 24/May/21

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Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2021 - 06/06/2021

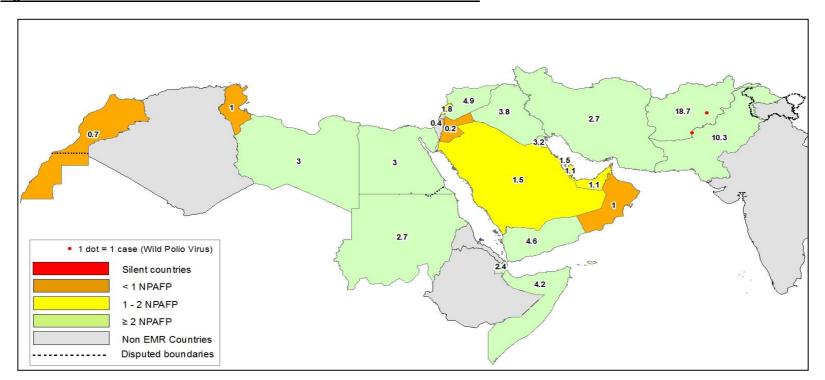


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2021 - 06/06/2021

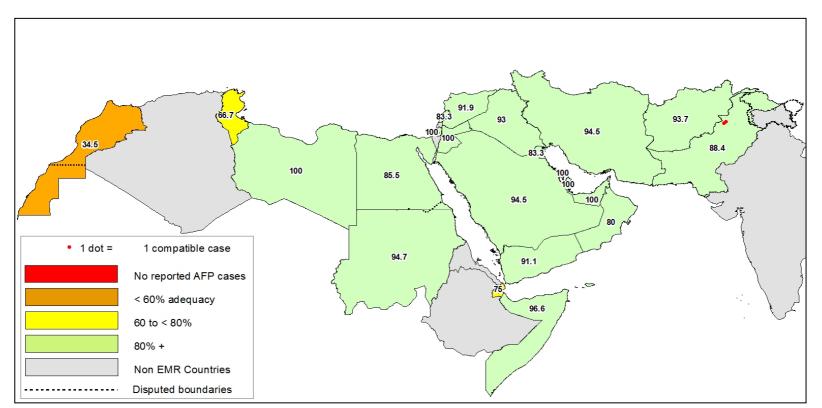


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2020 - 2021

		_			
Year	COUNTRY	Count		First Case	Last Case
2020	AFG		56	4-Jan-20	19-Oct-20
	PAK		84	1-Jan-20	23-Nov-20
2020 Tot	:al		140	1-Jan-20	23-Nov-20
2021	AFG		1	1-Jan-21	1-Jan-21
	PAK		1	27-Jan-21	27-Jan-21
2021 Tot	:al		2	1-Jan-21	27-Jan-21

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Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2021 - 06/06/2021

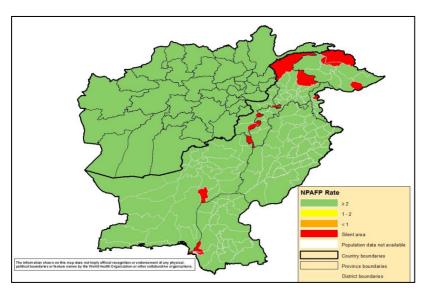


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2021 - 06/06/2021

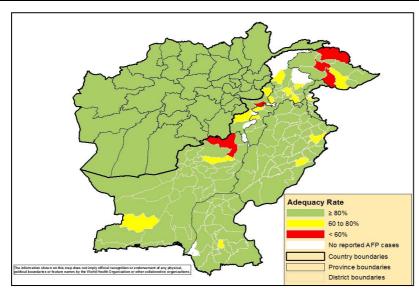
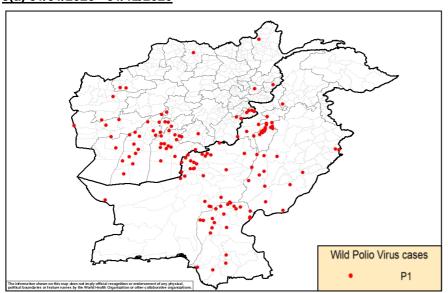
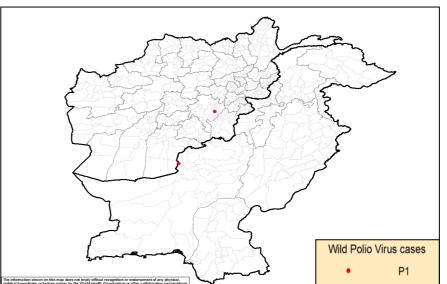


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5(b) 01/01/2021 - 06/06/2021



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

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

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

ONSETYR	DPOVINCE	DISTRICT	Count	First saco	Lacticaco
	PROVINCE KHYBER PAKHTUNKHWA	DISTRICT	Count	First case	Last case
2020	KITTBER PAKTI UNKTWA		1	13-Jul-20	13-Jul-20
		WAZIR-S	2	21-Feb-20	8-Jun-20
		BANNU	1	27-Apr-20	27-Apr-20
		TANK	4	11-Jan-20	15-Mar-20
		KARAK	2	20-Jan-20	13-Mar-20
		LAKKIMRWT	12	2-Jan-20	9-Mar-20
	BALOCHISTAN	KABDULAH	3	11-May-20	23-Nov-20
		QUETTA	5	17-Jul-20	5-Nov-20
		MASTUNG	1	15-Oct-20	15-Oct-20
		PISHIN	6	31-Jan-20	3-Oct-20
		KSAIFULAH	1	1-Sep-20	1-Sep-20
		CHAGHAI	1	4-Jun-20	4-Jun-20
		DUKKI	1	26-May-20	26-May-20
		JHALMAGSI	1	19-Apr-20	19-Apr-20
		ZHOB	2	22-Feb-20	13-Apr-20
		NSIRABAD	2	3-Jan-20	13-Apr-20
		SOHBATPUR	1	12-Feb-20	12-Feb-20
		JAFARABAD	1	12-Feb-20	12-Feb-20
		SIBI	1	7-Feb-20	7-Feb-20
	PUNJAB	LAYYAH	1	21-Oct-20	21-Oct-20
		MUZFARGARH	1	4-Oct-20	4-Oct-20
		VEHARI	1	16-Sep-20	16-Sep-20
		DGKHAN	5	18-Jan-20	14-Sep-20
		BAHAWALPUR	2	17-Aug-20	5-Sep-20
		RYKHAN	1	1-Sep-20	1-Sep-20
		LAHORE	2	12-Jun-20	24-Jul-20
		RAJANPUR	1	2-Jun-20	2-Jun-20
	SINDH	JACOBABAD	4	7-Feb-20	14-Jul-20
		GНОТКІ	4	2-Mar-20	9-Jul-20
		KHILANDHI	1	9-Jun-20	9-Jun-20
		LARKANA	1	21-May-20	21-May-20
		KAMBAR	3	8-Jan-20	11-Apr-20
		KHAIRPUR	1	27-Mar-20	27-Mar-20
		NFEROZ	2	8-Feb-20	22-Feb-20
		SHIKARPUR	1	11-Feb-20	11-Feb-20
		KASHMORE	2	16-Jan-20	3-Feb-20
		SUJAWAL	1	7-Jan-20	7-Jan-20
		T.ALLAHYAR	1	7-Jan-20	7-Jan-20
		BADIN	1	1-Jan-20	1-Jan-20
2020 Total			84	1-Jan-20	23-Nov-20
	BALOCHISTAN	KABDULAH	1	27-Jan-21	27-Jan-21
2021 Total	5, 1200111317114	I. I	1	27-Jan-21	27-Jan-21
LULI IUIAI				Zi-jaii-ZI	Z7-Jaii-Z1

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

YEAR	COLINTRY	PROVINCE	Count	First Case	Last Case
	20011111	FARAH	5	1-Jan-21	16-Apr-21
		LOGAR	1	19-Feb-21	19-Feb-21
		KANDAHAR	1	16-Feb-21	16-Feb-21
		WARDAK	2	3-Mar-21	22-Apr-21
		HIRAT	5	20-Feb-21	11-Apr-21
	AFG	BADGHIS	6	12-Jan-21	29-Apr-21
2021		FARYAB	2	28-Jan-21	26-Mar-21
2021		HILMAND	2	5-Jan-21	11-Mar-21
		GHAZNI	7	8-Jan-21	15-Mar-21
		ZABUL	9	7-Jan-21	4-Apr-21
		KHYBER PAKHTUNKHWA	1	14-Jan-21	14-Jan-21
	PAK	PUNJAB	1	7-Jan-21	7-Jan-21
		SINDH	2	5-Jan-21	7-Jan-21
		BALOCHISTAN	4 48	2-Jan-21 1-Jan-21	23-Apr-21
	1	LOWER JUBA	1	1-Jan-21 29-Aug-20	29-Apr-21 29-Aug-20
		AWDAL	1	1-Aug-20	1-Aug-20
		GALBEED	1	29-Sep-20	29-Sep-20
	SOM	HIRAN	1	18-Oct-20	18-Oct-20
	30.0.	MIDDLE SHABELLE	1	17-Jul-20	17-Jul-20
		BAY	2	3-Sep-20	25-Oct-20
		BANADIR	7	18-Jun-20	30-Sep-20
		SOUTH DARFUR	3	7-Mar-20	18-Dec-20
		NORTH DARFUR	2	26-Nov-20	13-Dec-20
		EAST DARFUR	3	12-May-20	24-Jul-20
		KHARTOUM	4	15-Jul-20	16-Nov-20
		KASSALA	11	28-Jul-20	6-Nov-20
		GEZIRA	5	9-Jul-20	19-Sep-20
		RIVER NILE	5	29-Jun-20	27-Sep-20
	SUD	RED SEA	8	29-Apr-20	29-Nov-20
		WEST DARFUR	1	19-May-20	19-May-20
		BLUE NILE	4	7-Aug-20	26-Nov-20
		SOUTH KORDOFAN	2	20-Nov-20	25-Nov-20
		NORTH KORDOFAN	3	29-Aug-20	2-Dec-20
		SENNAR WHITE NILE	3	16-Aug-20 15-Jun-20	16-Aug-20 22-Aug-20
		GEDARIF	3	1-Apr-20	1-Aug-20
		FARAH	17	1-Jun-20	27-Dec-20
		BALKH	2	29-Oct-20	3-Nov-20
		BADGHIS	10	1-Nov-20	27-Dec-20
		FARYAB	1	18-Oct-20	18-Oct-20
2020		SAMANGAN	1	1-Nov-20	1-Nov-20
2020		HIRAT	2	10-Aug-20	15-Aug-20
		LOGAR	4	20-Aug-20	18-Nov-20
		KANDAHAR	75	4-Aug-20	30-Dec-20
		HILMAND	40	1-Aug-20	24-Dec-20
		JAWZIAN	3	4-Aug-20	21-Nov-20
		KABUL	7	6-Jul-20	12-Oct-20
I		NURISTAN	2	21-Jun-20	13-Jul-20
I		NIMROZ	3 17	6-Jul-20	8-Aug-20
	AFG	KHOST PAKTYA	5	5-Jul-20 18-Jun-20	19-Oct-20 25-Oct-20
		KUNDUZ	3	28-Aug-20	3-Oct-20
		PAKTIKA	5	25-Aug-20 25-Aug-20	7-Oct-20
		GHAZNI	7	29-Aug-20	26-Dec-20
		BADAKHSHAN	1	23-Apr-20	23-Apr-20
		LAGHMAN	14	20-May-20	23-Sep-20
		TAKHAR	1	20-Sep-20	20-Sep-20
I		ZABUL	12	17-Sep-20	15-Nov-20
I		GHOR	1	14-Nov-20	14-Nov-20
		URUZGAN	15	28-Aug-20	22-Dec-20
I		PARWAN	1	4-Sep-20	4-Sep-20
I		WARDAK	5	6-Sep-20	22-11-20
		KUNAR NANGARHAR	9	6-Apr-20 5-Feb-20	29-Sep-20
	l	SINDH	45	2-May-20	21-Sep-20 28-Nov-20
		BALOCHISTAN	23	2-10lay-20 29-Feb-20	28-N6V-20 24-Dec-20
	PAK	PUNJAB	25	5-Feb-20	5-Nov-20
		KHYBER PAKHTUNKHWA	42	2-Jan-20	24-May-20
	To	tal 2020	515	2-Jan-20	30-Dec-20

