#### Highlights of Polio Fax Bulletin No. 1169 for Week 08\_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 cases reported this week, but three new positive environmental samples collected in 2021 all from Pakistan were reported.
- 3. No new cVDPV1 cases reported this week.
- 4. Four new cVDPV2 cases reported all in 2021 (Afghanistan 1 and Pakistan 3) and nineteen new cVDPV2 positive environmental samples (3 in 2020 and 16 in 2021) from Afghanistan (11), Egypt (2) and Pakistan (6) were reported this week.

### 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 08 of 2021, two WPV1 cases were reported [40 in the same period in 2020; Afghanistan – 5, Pakistan - 35].

a. *Human samples*: No new wild poliovirus cases reported this week, but three positive environmental samples reported from Pakistan collected in 2021.

#### Afghanistan:

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

In 2020, **56 WPV1 cases** have been reported: 38 cases from South Region; 8 from West Region; 6 from Southeast Region; 2 from East Region; and one each from North and Badakhshan Regions. **The most recent case has onset of paralysis on 19 October 2020.** 

#### Pakistan:

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

In 2020, **84 WPV1** cases are reported, 26 from Balochistan province, 22 cases each from Khyber Pakhtunkhwa (KP) and Sindh provinces, and 14 from Punjab. **The most recent case has onset of paralysis on 23 November 2020**.

- b. *Environmental samples*: 3 new WPV1 positive environmental samples from Pakistan in 2021 reported this week.
- Afghanistan: In 2021 to date, there are no wild poliovirus positive environmental samples reported.
   In 2020, there are 35 WPV1 positive environmental samples including seven combined (WPV1 and cVDPV2) with most recent sample collected on 6 December 2020.
- Pakistan: In 2021, there are 32 WPV1 positive environmental samples (including 4 mixture of WPV1 and cVDPV2 and 3 mixture of WPV1 and aVDPV2) with most recent sample collected on 15 February 2021.
   In 2020, there are 435 WPV1 positive environmental samples including 91 mixture of WPV1 and cVDPV2 and 6 mixtures of WPV1 and aVDPV2. Most recent positive sample collected on 28 December 2020.
- III. Vaccine Derived Polioviruses (VDPVs): Four new cVDPV2 cases reported in 2021 from Afghanistan (1) and Pakistan (3) and nineteen new cVDPV2 positive environmental samples (3 in 2020 and 16 in 2021) from Afghanistan (11), Egypt (2) and Pakistan (6) were reported this week.

In 2021, twelve cVDPV2 cases were reported (Afghanistan 6 and Pakistan 6). In 2020, a total of 29 cVDPV1 cases reported from Yemen and a total number of 511 cVDPV2 cases (305 from Afghanistan, 135 from Pakistan, 14 from Somalia and 57 from Sudan).

- 1. <u>Outbreaks:</u> Six countries have VDPVs outbreaks, five with cVDPV2 and one with cVDPV1.
  - <u>Afghanistan</u>: One new cVDPV2 case in 2021 reported this week and eleven new positive environmental samples collected (2 in 2020 and 9 in 2021).
  - The newly reported cVDPV2 case in 2021 is from West Region (Badghis province) with date of onset 12 January 2021.
  - In 2021 to date, there are **6 cVDPV2** cases: 4 from West Region, 1 from South Region and 1 from Southeast Region. The **most recent case has onset on 12 January 2021.**

In 2020, there are *305 cVDPV2* cases; 142 from South Region, 70 reported from East Region, 34 from Southeast Region, 30 from West Region, 17 from Central Region, 7 from North Region, 4 from Northeast Region, and 1 from Badakhshan Region. The *most recent case has onset on 30 December 2020*.

Environment: In 2021 to date, there are **9** cVDPV2 positive environmental samples reported with **most recent** sample collected on **5** January **2021**.

In 2020, **174** cVDPV2 positive environmental samples including 7 mixture of WPV1 and cVDPV2 were reported. The **most recent cVDPV2 positive environmental sample was collected on 27 December 2020.** 

**Egypt**: Two new cVDPV2 positive environmental samples were collected from Beni Suef and Kafr El Sheikh provinces with both collection date on 27 January 2021.

In 2021, 6 cVDPV2 positive samples collected 2 from Aswan province and one each from Alexandria, Quena, Beni Suef and Kafr El Sheikh 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 VDPV2 positive environmental sample is 9 February 2021.

<u>Pakistan</u>: Three new cVDPV2 cases in 2021 reported this week and six new positive environmental samples (1 collected in 2020 and 5 in 2021).

The 3 newly reported cVDPV2 cases are: 2 from Sindh province (Shikarpur and Sukkur districts) and 1 from Punjab province (DG Khan district). The dates of onset of the cases vary between 5-7 January 2021.

In 2021, there is **6** cVDPV2 cases reported 2 each from Sindh and Balochistan provinces and 1 each from KP and Punjab provinces with **most recent onset on 14 January 2021.** In 2020, there are **135** cVDPV2 cases reported: 45 from Sindh province, 42 from KP, 25 from Punjab and 23 from Balochistan, with **most recent case's onset on 24 December 2020**.

Environment: In 2021 to date; there are **9** cVDPV2 positive samples including 4 mixture of WPV1 and cVDPV2 with **most recent sample collected on 18 January 2021**.

In 2020, there are **135** cVDPV2 positive environmental samples (including 91 mixture of WPV1 and cVDPV2), the **most recent sample collected on 28 December 2020**.

**SOMALIA**: No new VDPV cases or positive environmental samples reported.

In 2020 to date, **14** cVDPV2 cases reported, 7 from Banadir province, 2 from Bay and 1 each from Lower Juba, Middle Shabelle, Galbeed, Hiran and Awdal provinces, with **most recent date of onset 25 October 2020**.

Also, there are **26** cVDPV2 positive environmental samples reported, the most recent collected on 24 October 2020.

**SUDAN**: No new VDPV cases or positive environmental samples reported.

In 2020 to date, **57** cVDPV2 cases reported. **The most recent case has onset of paralysis on 18 December 2020.** A total of **14** environmental samples have been positive for cVDPV2 so far, all from Khartoum with most recent collection on 9 November 2020.

**YEMEN**: No new VDPV cases reported this week.

In 2020, **29** cVDPV1 cases are reported. 28 cases are from Saadah province and 1 case from Sana'a City province. **The most recent case has onset of paralysis on 25 September 2020.** 

2. <u>VDPV Events:</u> There is one country having an Event due to VDPV2. <u>Response per WHO's SOPs are ongoing.</u> <u>Iran:</u> In 2020, Iran reported 3 cVDPV2 positive environmental samples, one from Zaboul district (Zaboul site) and two from Zehedan district (Shirabad site), Sistan & Balochistan province. The isolates are genetically related with earlier viruses seen in Afghanistan and Pakistan. *Date of most recent sample collection is 25 December 2020.* 

#### IV. Surveillance performance indicators

In 2020, 14 out of 22 member states 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 0.9 and 1.3 and their percentage of AFP cases with adequate stool specimens is 70.9%, and 57.9%, respectively.
- Djibouti, Jordan, Oman, Palestine and United Arab Emirates have a non-polio AFP rate of 1.4, 0.8, 1.9, 0.9 and 1.5 respectively.
- Qatar has AFP cases with adequate stool specimens is 33.3%.

Week 08, ending 28 February 2021

1-Mar-21 Number 1169

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

	Reported AFP cases by week of onset - Week (08/21) / Ending on : 28/02/2021														
Country	Total AFP 2019	Total AFP 2020	Total AFP to date, 2021	W50 13 Dec 20	W51 20 Dec 20	W52 27 Dec 20	W53 03 Jan 21	W01 10 Jan 21	W02 17 Jan 21	W03 24 Jan 21	W04 31 Jan 21	W05 07 Feb 21	W06 14 Feb 21	W07 21 Feb 21	W08 28 Feb 21
Afghanistan	3768	3971	560	67	77	60	71	90	91	65	61	82	75	49	6
Bahrain	17	15	0	1	1	0	0	0	0	0	0	0	0	0	0
Djibouti	5	5	2	0	0	0	0	0	0	2	0	0	0	0	0
Egypt	1343	1009	155	28	38	9	12	12	13	29	21	27	22	15	7
Iran	1070	618	83	21	15	13	25	11	13	12	18	9	6	0	
Iraq	1157	476	133	11	13	11	12	16	24	27	18	16	14	10	
Jordan ****	113	32	2	0	0	0	0	1	0	0	1	0	0	0	0
Kuwait	48	36	6	2	1	1	0	2	0	1	2	1	0	0	
Lebanon ****	87	49	5	2	1	0	1	1	0	1	0	0	2	0	
Libya	107	95	8	1	2	0	1	0	1	1	1	1	1	2	
Morocco	247	86	7	0	0	0	0	0	0	2	0	1	2	2	
Oman	30	22	1	1	0	1	0	0	0	1	0	0	0	0	
Pakistan	15218	11943	1399	198	185	205	194	259	219	213	201	197	170	50	0
Palestine ****	62	16	2	0	1	0	1	0	1	0	0	0			
Qatar	9	9	0	0	0	0	0	0	0	0	0	0	0	0	
Saudi Arabia	236	200	19	8	8	6	6	5	7	2	3	0	0	0	0
Somalia	361	376	47	7	7	4	2	4	3	10	11	7	7	4	0
Sudan	608	733	91	13	9	14	14	17	10	16	12	14	7	5	
Syria ****	377	343	32	5	3	6	0	3	6	3	7	6	4	3	
Tunisia	79	38	2	0	0	0	2	0	0	0	0	0	0	0	
U.A.E	50	19	2	0	0	0	0	1	1	0	0	0	0	0	
Yemen	779	825	107	18	16	13	14	14	14	12	23	18	10	9	0
Total EMR	25771	20916	2663	383	377	343	355	436	403	397	379	379	320	149	13

No data = No report received

Table 2: Confirmed polio cases by month of onset

Table 2: Confirm		o cases n														
	2019	020	28/0	)2				Confire	ned po	lio cas	es by n	nonth c	of onse	t		
Country	Total year 20	Total year 2020	2020	2021	March 2020	April 2020	May 2020	June 2020	July 2020	Augsut 2020	September 2020	October 2020	November 2020	December 2020	January 2021	February 2021
Afghanistan	29	56	5	1	7	0	12	10	7	6	6	3	0	0	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	0	
Iran	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Iraq	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	
Lebanon ****	0	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	0	
Morocco	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	147	84	35	1	7	6	6	6	6	5	7	4	2		1	
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			
Syria ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.A.E	0	0	0	0	0	0	0	0	0	0	0		0	0		
Yemen	0	0	0	0	0	0	0	0	0	0						
Total EMR	176	140	40	2	14	6	18	16	13	11	13	7	2	0	2	0

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

1-Mar-21 Number 1169

Week 08, ending 28 February 2021

Table 3: Investigation of AFP cases with paralysis onset in 2020 & 2021 up to Week (08/21) / Ending on : 28/02/2021)

		2020																	2021						
					AFP					Specimen		cases ***					AFF	)				Specimen		ild ses **	
COUNTRY	Total AFP cases onset 2020	Total Confirmed Polio Cases *	Polio Compatible se	Pending Classification	Discarded (non polio AFP) oi	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 2021	Total Confirmed Polio Cases *	atible	Pending Classification signature	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	3971	56	1	40	3565	311	18.5	19	0	92.6	56	0	560	1	0	214	339	6	16.4	0	0	93.6	1	0	28/02/2021
Bahrain	15	0	0	0	15	0	5.0	0	0	93.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	28/02/2021
Djibouti	5	0	0	1	4	0	1.4	1	1	100.0	0	0	2	0	0	2	0	0	3.4	0	0	100.0	0	0	28/02/2021
Egypt	1009	0	0	11	998	0	2.6	6	0	94.6	0	0	155	0	0	88	67	0	2.4	0	0	82.6	0	0	25/02/2021
Iran	618	0	0	0	618	0	3.0	0	0	98.5	0	0	83	0	0	30	53	0	2.5	0	0	95.2	0	0	27/02/2021
Iraq	476	0	0	3	473	0	2.9	0	0	93.3	0	0	133	0	0	49	84	0	5.1	0	0	98.5	0	0	27/02/2021
Jordan	32	0	0	0	32	0	0.8	0	0	96.9	0	0	2	0	0	0	2	0	0.3	0	0	100.0	0	0	28/02/2021
Kuwait	36	0	0	0	36	0	4.1	0	0	91.7	0	0	6	0	0	3	3	0	4.2	0	0	100.0	0	0	21/02/2021
Lebanon	49	0	0	3	46	0	2.6	1	0	89.8	0	0	5	0	0	4	1	0	1.7	0	0	100.0	0	0	22/02/2021
Libya	95	0	0	0	94	1	3.6	0	0	100.0	0	0	8	0	0	7	1	0	1.9	0	0	100.0	0	0	27/02/2021
Morocco	86	0	0	25	61	0	0.9	24	4	70.9	0	0	7	0	0	7	0	0	0.4	0	0	57.1	0	0	26/02/2020
Oman	22	0	0	0	22	0	1.9	0	0	100.0	0	0	1	0	0	0	1	0	0.5	0	0	100.0	0	0	21/02/2021
Pakistan	11943	84	21	225	11473	142	15.2	113	0	85.6	84	0	1399	1	0	403	988	7	11.1	0	0	88.0	1	0	28/02/2021
Palestine	16	0	0	4	12	0	0.9	1	0	100.0	0	0	2	0	0	2	0	0	0.7	0	0	100.0	0	0	07/02/2021
Qatar	9	0	0	6	3	0	2.1	6	0	33.3	0	0	0	0	0	0	0	0	0.0	0	0		0	0	21/02/2021
Saudi Arabia	200	0	0	11	189	0	2.4	0	0	96.0	0	0	19	0	0	19	0	0	1.4	0	0	94.7	0	0	28/02/2021
Somalia	376	0	0	5	356	15	4.7	3	1	94.7	0	0	47	0	0	32	15	0	3.6	0	0	93.6	0	0	28/02/2021
Sudan	733	0	0	22	654	57	3.8	3	0	92.9	0	0	91	0	0	28	63	0	3.0	0	0	97.8	0	0	25/02/2021
Syria	343	0	0	0	343	0	4.3	0	0	91.0	0	0	32	0	0	13	19	0	2.5	0	0	93.8	0	0	27/02/2021
Tunisia	38	0	0	0	38	0	1.3	0	0	57.9	0	0	2	0	0	2	0	0	0.4	0	0	50.0	0	0	26/02/2021
U.A.E	19	0	0	0	19	0	1.5	0	0	100.0	0	0	2	0	0	2	0	0	1.0	0	0	100.0	0	0	25/02/2021
Yemen	825	0	1	120	675	29	5.9	46	34	88.7	0	0	107	0	0	107	0	0	4.7	0	0	92.5	0	0	27/02/2021
EMR	20916	140	23	476	19726	555	8.0	223	40	88.6	140	0	2663	2	0	1012	1636	13	6.3	0	0	90.3	2	0	
2019	25771	176	7	0	25559	29	10.2	0	0	89.5	176	0													

<sup>\*</sup> Confirmed polio cases refer to wild isolation from AFP cases or from contacts of negative index AFP cases

<sup>\*\*</sup> Non-polio AFP per 100,000 children <15 years

<sup>\*\*\*</sup> 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

<sup>\*\*\*\*</sup> AFP cases co infected with P1 and P3 are counted seperately as wild isolates

1-Mar-21

#### World Health Organization - Regional Office for Eastern Mediterranean AFP SURVEILLANCE

Week 08 anding 28 February 2021

					Week 08,	ending 28 Februa	ry 2021				Number 11	169
			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	292	0	1	32	34	45
BAH	1	0	0	0	0	0	0	0	0	0	0	0
DJI	2	0	0	0	0	0	0	0	0	0	0	0
EGY	330	0	0	12	32	8	72	0	0	1	3	32
IRN	46	0	0	0	0	0	4	0	0	0	0	0
IRQ	168	0	0	4	10	0	33	0	0	2	1	21
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	0	0	0	0	0	0
LIB	19	0	0	0	0	0	0	0	0	0	0	0
MOR	8	0	0	0	0	4	5	0	0	0	0	5
OMA	64	0	0	2	8	1	0	0	0	0	0	0
PAK	4653	21	19	379	788	1	729	0	1	88	73	119
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	2	0	0	0	0	3
SOM	872	0	5	16	116	17	0	0	0	0	0	0
SUD	364	0	18	2	8	242	22	0	0	0	0	22
SYR	280	0	0	11	15	0	3	0	0	0	0	0
TUN	6	0	0	0	0	2	1	0	0	0	0	1
UAE	0	0	0	0	0	0	0	0	0	0	0	0
YEM	230	0	0	0	29	58	59	0	0	0	0	59
EMR	8318	35	121	478	1276	339	1222	0	2	123	111	307

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

		Da	ata
Year	Country	Count of wild contacts	Date of Most Recent stool collection
2020	Afghanistan	14	26/Jul/20
2020	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

1-Mar-21 Number 1169

Table 5:

Week 08, ending 28 February 2021

Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (08/2021) / Ending on : (28/02/2021)

Table 5:								P cases v	vitin þ	oaraiy	/SIS (	onse							/ Enai	ing o	11 . (20/	02/2021)				-
Country	Polio laboratories	<sub>(A</sub>		_	virus is	olation re	sults of AFI								tratypi			on results #					Ind	icators		1
		mens	Referre	ed for ITD			Pe	nding		Type 1			Туре	2		Type 3						for	re	sults	results set**	o,
	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	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD	% specimens positive fi 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	463	66	7	37	210	70	65	1	14			17	5	I	19					33	11%	100%	100%	100%	21/02/2021
Bahrain	NPL Oman / CDC																									22/02/2021
Djibouti	NPL Kenya / CDC	2						2																		28/02/2021
Egypt***	RRL Egypt	132			15	87	28	2														11%	100%		100%	25/02/2021
Iran	NPL Iran / CDC	117			2	83	31	1														2%	99%		100%	28/02/2021
Iraq	RRL Egypt	133			6	102	25															6%	100%		100%	26/02/2021
Jordan	NPL Jordan / RRL EGYPT	2			1	1																50%	100%		100%	21/02/2021
Kuwait	RRL Kuwait / RIVM	6				6																0%	100%		100%	25/02/2021
Lebanon	NPL Jordan / RRL EGYPT	3				3																0%	100%			21/02/2021
Libya	RRL Tunisia / RIVM	1						1																		15/02/2021
Morocco	NPL Morocco / RRL Tunisia	5				2	3															0%	100%		100%	26/02/2021
Oman	NPL Oman / CDC	1				1																0%	100%		100%	22/02/2021
Pakistan	RRL Pakistan	1178	129	15	124	587	91	228	1	38			56	3		36					47	11%	100%	100%	100%	21/02/2021
Palestine & UNR	WA	2				2																0%	0%		100%	07/02/2021
Qatar	NPL Oman / CDC																									22/02/2021
Saudi Arabia	NPL Saudi Arabia / CDC	27				18	7	2														0%	100%		100%	21/02/2021
Somalia	NPL Kenya / CDC	47			1	14	11	21														7%	13%		100%	28/02/2021
Sudan	NPL Sudan / RRL Egypt	89			10	58	19	2														13%	100%			25/02/2021
Syria	NPL Syria / RRL Egypt	33				20	13															0%	100%			27/02/2021
Tunisia	RRL Tunisia	3				3																0%	100%		100%	15/02/2021
U.A.E	NPL Oman / CDC																									22/02/2021
Yemen	NPL Kenya / CDC	2					2																			27/02/2021
		2246	195	22	196	1197	300	324	2	52			73	8		55					80	10%	99%	100%	100%	
	Total EMR 2020	20292	1669	90	3027	15442	36	16	129	344	19		503	464		451	2	14	18	11	6	14%	94%	97%	93%	

<sup>\*</sup> Specimens from all sources including non-AFP cases, excluding environmental samples

<sup>\*</sup> This indicator reflects surveillance and laboratory activities

## World Health Organization – Regional Office for Eastern Mediterranean AFP SURVEILLANCE Week 08, ending 28 February 2021

1-Mar-21 Number 1169

Table 6: Environmental isolate by year and type

COUNTRY	▼ LAB RESULTS	2016	2017	2018	2019	2020	2021
	Wild	2	42	83	56	28	
	Wild+cVDPV2					7	
	cVDPV2					167	9
	aVDPV2					2	
	Negative	6	9	5	3	3	
	Pending						46
	Entero	125	170	177	138	111	5
	SL1/3	36	94	71	60	31	2
	SL2	16	1		2	64	10
AFG Total		185	316	336	259	413	72
	cVDPV2						6
	aVDPV2					1	
	Negative	34	41	32	34	41	3
	Pending	_					22
	aVDPV3					1	
	aVDPV1					1	
	VDPV3					1	
	Entero	354	322	321	397	288	35
	SL1/3	79	159	187	269	212	18
	SL2	60					
	VDPV2	1		1			
EGY Total		528	522	540	700	545	84
	Wild	-			3		
	cVDPV2	4		_	_	3	
	Negative	-	1	3	3		
	Pending	-					3
	Entero	-	1	29	55	23	5
	SL1/3		4	22	10	16	2
	SL2					1	
IRN Total			6	54	71	43	10
<b>□</b> IJOR	Negative		2			1	
	Pending					1	1
	Entero	1	13	27	24	9	2
	SL1/3	1	16	9	12	14	1
JOR Total		2	31	36	36	25	4
	(blank)				1		
	Entero			2	9		
	SL1/3			1	4		
KUW Total				3	14		
	Negative	2	1	1	3	2	
	Entero	2	12	24	15	16	1
	SL1/3		14	20	29	13	1
LEB Total		4	27	45	47	31	2
	Wild	59	105	139	367	337	25
	Wild+cVDPV2 Wild+aVDPV2	2			10	91	4
		1	1		2	6	3
	cVDPV2	2			29	44	5
	aVDPV2	3	4			16	1
	Negative	6		3	4	6	
	Pending						53
	Entero	300	392	404	308	135	14
	SL1/3	77	106	127	90	49	2
	SL2	79	25	1	22	146	20
PAK Total		529	633	673	832	830	127
ESOM	cVDPV2	1	2	18	5	26	
	cVDPV3	1		11	-		
	aVDPV2	+		2	1		
	cVDPV2+cVDPV3	+		1			
	Negative	1	14	138	29	32	1
	Pending	-				4	6
	Entero	1	16	25	22	10	1
	SL1/3	-	2	8	6	4	
	SL2		2	10		5	
SOM Total			36	213	63	81	8
■ SUD	cVDPV2	+				14	
	Negative	1			4	2	
	Pending	-			_		5
	Entero			15	51	32	2
	SL1/3				5		
	SL2		I .	1		2	2
SUD Total				15	60	50	9
■ SYR	Negative			21	30	17	
	Pending	_					9
	Entero		4	72	111	152	19
				6	44	36	3
	SL1/3			U			_
	SL1/3 SL2			3			
SYR Total		1248	4 1575	3 102 2017	185 2267	205	31

Table 7: Environmental Wild/VDPV isolate by site 2020-2021

	COUNTRY	LAB RESULTS	PROVINCE	Count	First date	Last date
■ 2020	□AFG	■Wild	HILMAND	10	1/Jan/20	24/Aug/20
			HIRAT	4	26/Apr/20	23/Aug/20
			KABUL	1	26/Sep/20	26/Sep/20
			KANDAHAR	9	28/Jan/20	25/Jun/20
			кноѕт	1	25/Apr/20	25/Apr/20
			KUNDUZ	1	27/Sep/20	27/Sep/20
			NANGARHAR	2	26/Jan/20	6/Oct/20
		■Wild+cVDPV2	HILMAND	1	6/Sep/20	6/Sep/20
			KANDAHAR	4	25/Jun/20	6/Dec/20
			NANGARHAR	2	8/Jan/20	25/Jul/20
		□cVDPV2	HILMAND	34	27/May/20	27/Dec/20
			HIRAT	3	26/Sep/20	26/Dec/20
			KABUL	19	26/Apr/20	5/Nov/20
			KANDAHAR	35	9/Jul/20	27/Dec/20
			KHOST	6	24/Jun/20	23/Nov/2
			KUNAR	5	6/Jun/20	7/Nov/20
			KUNDUZ	2	23/Aug/20	24/Oct/20
			LAGHMAN	4	24/Jul/20	
						6/Oct/20
			NANGARHAR	58	7/Jan/20	23/Dec/20
			PAKTYA	1	26/Jul/20	26/Jul/20
		■aVDPV2	HILMAND	1	27/Sep/20	27/Sep/20
			KABUL	1	26/Dec/20	26/Dec/20
	AFG Total		· ·	204	1/Jan/20	27/Dec/2
	⊟EGY	■aVDPV2	GIZA		21/Sep/20	21/Sep/20
		= a VDP VZ	GIZA	1		
	EGY Total		1	1	21/Sep/20	21/Sep/2
	⊟IRN	□ cVDPV2	S & B	3	3/Oct/20	25/Dec/20
	IRN Total			3	3/Oct/20	25/Dec/2
	⊟ PAK	■Wild	AJK	1	25/Feb/20	25/Feb/20
			BALOCHISTAN	71	1/Jan/20	21/Sep/20
			GBALTISTAN	1	12/May/20	12/May/2
			ISLAMABAD	5	16/Jan/20	10/Nov/2
			KPAKHTUNKHWA	23	28/Jan/20	18/Dec/20
			PUNJAB	122	4/Jan/20	28/Dec/20
			SINDH	114	3/Jan/20	8/Dec/20
		■Wild+cVDPV2	BALOCHISTAN	27	1/Feb/20	21/Dec/20
		= WildicvBi V2				
			KPAKHTUNKHWA	1	11/Mar/20	11/Mar/2
			PUNJAB	14	4/Jan/20	12/Oct/20
			SINDH	49	3/Jan/20	10/Dec/20
		⊟cVDPV2	BALOCHISTAN	15	2/Jun/20	28/Dec/20
			KPAKHTUNKHWA	5	10/Jan/20	15/Oct/20
			PUNJAB	3	16/Jan/20	18/Dec/2
			SINDH	21	8/Jun/20	10/Dec/20
		■aVDPV2	BALOCHISTAN	3	17/Sep/20	17/Nov/2
			KPAKHTUNKHWA	6	10/Apr/20	2/Dec/20
			PUNJAB	5	4/May/20	30/Dec/20
			SINDH	2	13/Oct/20	3/Nov/20
	PAK Total			488	1/Jan/20	30/Dec/2
	⊟SOM	FIGVDBV2	BANADIB			24/Oct/20
	= SOIVI	⊟cVDPV2	BANADIR	23	5/Jan/20	
			BAY	2	19/Jun/20	20/Jun/20
			LOWER JUBA	1	8/Sep/20	8/Sep/20
	SOM Total			26	5/Jan/20	24/Oct/2
	⊟SUD	⊟cVDPV2	KHARTOUM	14	29/Mar/20	9/Nov/20
	SUD Total			14	29/Mar/20	9/Nov/20
0 Total				736	1/Jan/20	30/Dec/2
	FAEC		HILDAAND			
<b>=</b> 2021	∃AFG	⊡cVDPV2	HILMAND	4	4/Jan/21	5/Jan/21
			KANDAHAR	4	5/Jan/21	5/Jan/21
			NANGARHAR	1	5/Jan/21	5/Jan/21
	AFG Total			9	4/Jan/21	5/Jan/21
	⊟EGY	⊟cVDPV2	ALEXANDRIA	1	10/Jan/21	10/Jan/21
			ASWAN	2	20/Jan/21	9/Feb/21
			BENI SUEF	1	27/Jan/21	27/Jan/21
			KAFR EL-SHEIKH	1	27/Jan/21	27/Jan/21
			QENA	1	23/Jan/21	23/Jan/21
	EGY Total			6	10/Jan/21	9/Feb/21
	⊟PAK	⊟Wild	BALOCHISTAN	7	17/Jan/21	15/Feb/2:
			ISLAMABAD	2	11/Jan/21	10/Feb/2:
			KPAKHTUNKHWA	4	11/Jan/21	10/Feb/2:
			PUNJAB	7	4/Jan/21	12/Feb/2
			SINDH	5	4/Jan/21	4/Feb/21
		■Wild+cVDPV2	BALOCHISTAN	2	2/Jan/21	15/Jan/21
			PUNJAB	2	11/Jan/21	18/Jan/21
		ECVDBV2		2		
		⊡cVDPV2	BALOCHISTAN		1/Jan/21	14/Jan/21
			KPAKHTUNKHWA	1	16/Jan/21	16/Jan/21
			SINDH	2	12/Jan/21	13/Jan/21
		⊟aVDPV2	SINDH	1	12/Jan/21	12/Jan/21
	PAK Total			35	1/Jan/21	15/Feb/2:

# World Health Organization – Regional Office for Eastern Mediterranean AFP SURVEILLANCE Week 08, ending 28 February 2021

1-Mar-21 Number 1169

Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2021 - 28/02/2021

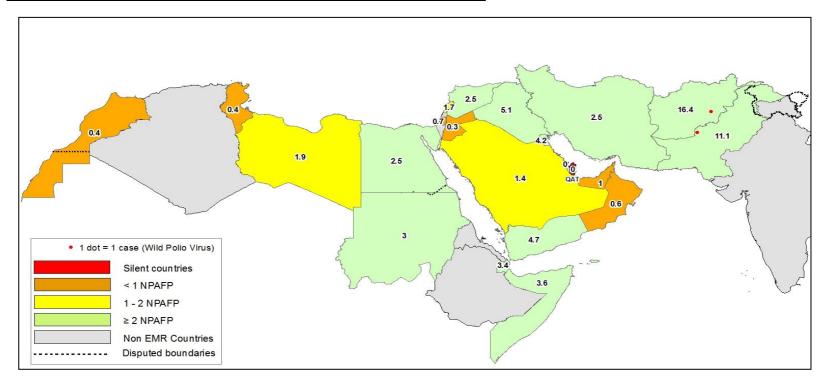


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2021 - 28/02/2021

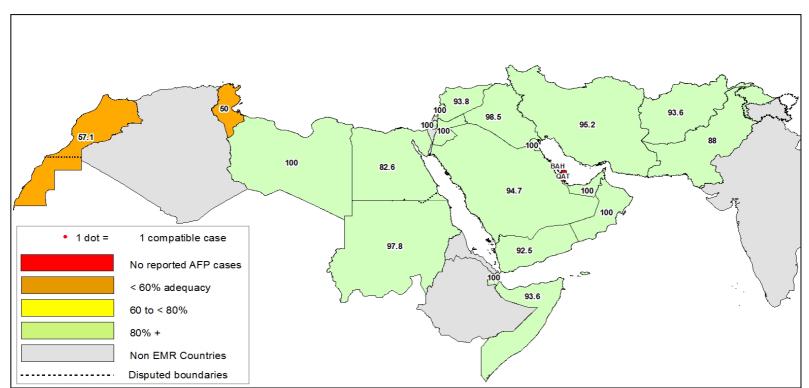


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2020 - 2021

		_			
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 Total			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

# World Health Organization – Regional Office for Eastern Mediterranean AFP SURVEILLANCE Week 08, ending 28 February 2021

28-Feb-21 Number 1169

Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2021 - 28/02/2021

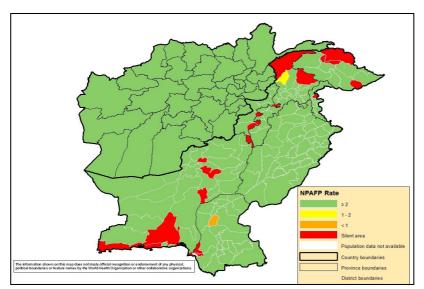


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2021 - 28/02/2021

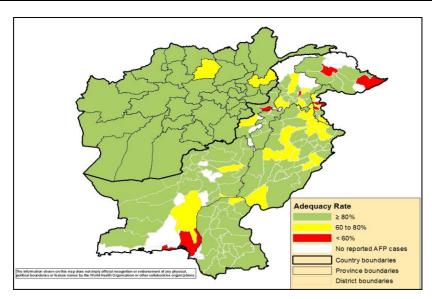
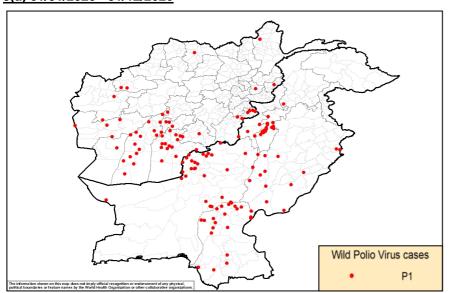
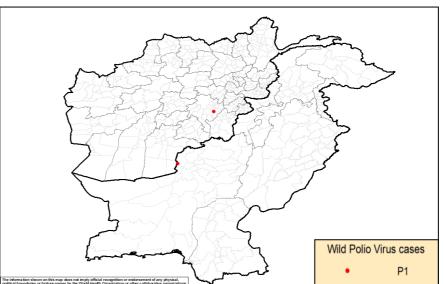


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



# 5(b) 01/01/2021 - 28/02/2021



Week 08, ending 28 February 2021

1-Mar-21 Number 1169

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

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
	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	
		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

Week 08, ending 28 February 2021

1-Mar-21 Number 1169

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

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2020	KHYBER PAKHTUNKHWA	PESHAWAR	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
		GHOTKI	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
2021	BALOCHISTAN	KABDULAH	1	27-Jan-21	27-Jan-21
2021 Total			1	27-Jan-21	27-Jan-21

AFP SURVEILLANCE 1-Mar-21
Week 08, ending 28 February 2021 Number 1169

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

YEAR	COUNTRY	PROVINCE	Count	First Case	Last Case
2021	AFG	FARAH	2	1-Jan-21	2-Jan-21
		BADGHIS	2	12-Jan-21	12-Jan-21
		GHAZNI	1	8-Jan-21	8-Jan-21
		ZABUL	1	7-Jan-21	7-Jan-21
	РАК	KHYBER PAKHTUNKHWA	1	14-Jan-21	14-Jan-21
		PUNJAB	1	7-Jan-21	7-Jan-21
		SINDH	2	5-Jan-21	7-Jan-21
		BALOCHISTAN	2	2-Jan-21	3-Jan-21
	То	tal 2021	12	1-Jan-21	14-Jan-21
2020	SOM	LOWER JUBA	1	29-Aug-20	29-Aug-20
		AWDAL	1	1-Aug-20	1-Aug-20
		GALBEED HIRAN	1	29-Sep-20	29-Sep-20
		MIDDLE SHABELLE	1	18-Oct-20 17-Jul-20	18-Oct-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
	SUD	NORTH DARFUR	1	26-Nov-20	26-Nov-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
		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	1	16-Aug-20	16-Aug-20
		WHITE NILE	3	15-Jun-20	22-Aug-20
		GEDARIF	3	1-Apr-20	1-Aug-20
	AFG	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
		SAMANGAN HIRAT	2	1-Nov-20 10-Aug-20	1-Nov-20 15-Aug-20
		LOGAR	4	20-Aug-20	15-Aug-20 18-Nov-20
		KANDAHAR	73	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
		NURISTAN	2	21-Jun-20	13-Jul-20
		NIMROZ	3	6-Jul-20	8-Aug-20
		KHOST	17	5-Jul-20	19-Oct-20
		PAKTYA	5	18-Jun-20	25-Oct-20
		KUNDUZ	3	28-Aug-20	3-Oct-20
		PAKTIKA	5	25-Aug-20	7-Oct-20
		GHAZNI	フ	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
		ZABUL	12	17-Sep-20	15-Nov-20
		GHOR	1 14	14-Nov-20	14-Nov-20
		URUZGAN PARWAN	14	28-Aug-20	18-Dec-20
		WARDAK	5	4-Sep-20 6-Sep-20	4-Sep-20 22-11-20
		KUNAR	9	6-3ep-20 6-Apr-20	29-Sep-20
		NANGARHAR	45	5-Feb-20	29-36p-20 21-Sep-20
	PAK	SINDH	45	2-May-20	28-Nov-20
		BALOCHISTAN	23	29-Feb-20	24-Dec-20
		PUNJAB	25	5-Feb-20	5-Nov-20
		KHYBER PAKHTUNKHWA	42	2-Jan-20	24-May-20
	To	tal 2020	511	2-Jan-20	30-Dec-20
10tal 2020					

