

World Health Organization – Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

21-Dec-20

Week 51, ending 20 December 2020

Number 1159

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

Country	Reported AFP cases by week of onset - Week (51/20) / Ending on : 20/12/2020														
	Total AFP 2018	Total AFP 2019	Total AFP to date, 2020	W40 04 Oct 20	W41 11 Oct 20	W42 18 Oct 20	W43 25 Oct 20	W44 1 Nov 20	W45 8 Nov 20	W46 15 Nov 20	W47 22 Nov 20	W48 29 Nov 20	W49 6 Dec 20	W50 13 Dec 20	W51 20 Dec 20
Afghanistan	3378	3768	3708	94	98	93	91	76	82	77	63	75	51	21	2
Bahrain	35	17	13	0	0	0	0	1	0	0	1	0	0	0	0
Djibouti	0	5	5	0	0	0	1	0	0	1	0	0	0	0	0
Egypt	1246	1343	964	31	23	13	31	22	27	20	24	30	24	25	8
Iran	896	1070	551	9	8	6	13	10	9	7	6	13	7	2	
Iraq	1023	1157	440	5	13	14	8	14	7	10	10	10	19	5	
Jordan ****	115	113	32	1	2	1	0	0	0	0	0	0	0	0	
Kuwait	72	48	31	0	1	1	1	1	0	0	1	0	1	0	
Lebanon ****	89	87	46	0	2	1	1	0	0	0	2	2	0		
Libya	122	107	92	0	1	3	1	1	1	2	0	1	3	0	
Morocco	212	247	79	0	3										
Oman	28	30	20	1	1	0	1	2	0	1	0	0	0	0	0
Pakistan	12276	15218	11186	294	258	244	229	244	231	225	200	223	189	64	1
Palestine ****	44	62	15	0	0	0	1	0	0	0	0	1	2	0	
Qatar	10	9	9	0	0	0	0	0	0	1	0	0	0		
Saudi Arabia	242	236	173	10	2	8	6	3	9	10	9	10	4	0	0
Somalia	353	361	357	5	6	4	6	3	8	5	6	6	2	0	1
Sudan	579	608	685	18	27	20	30	16	13	15	28	14	8	1	0
Syria ****	362	377	332	3	1	3	11	5	6	11	6	3	8	3	
Tunisia	68	79	35	0	0	0	1	1	1	2	1	1	0	0	
U.A.E	40	50	19	0	0	1	1	0	0	0	0	0	0	0	
Yemen	730	779	743	29	17	16	20	23	27	26	10	18	8		
Total EMR	21920	25771	19535	500	463	428	453	422	421	412	368	407	326	121	12

No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2018	Total year 2019	20/12		Confirmed polio cases by month of onset											
			2019	2020	January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
Afghanistan	21	29	29	56	2	3	7	0	12	10	7	6	6	3		
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		
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	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		
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	0		
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pakistan	12	147	136	83	18	17	7	6	6	6	6	5	7	3	2	
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		
U.A.E	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total EMR	33	176	165	139	20	20	14	6	18	16	13	11	13	6	2	0

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

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Table 3: Investigation of AFP cases with paralysis onset in 2019 & 2020 up to Week (51/20) / Ending on : 20/12/2020)

COUNTRY	2019											2020											Latest line List Date		
	AFP								Specimen	Wild cases ****		AFP								Specimen	Wild cases ****				
	Total AFP cases onset 2019	Case classification					Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis		AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus	Total AFP cases onset 2020	Case classification						Annualized Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis		AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens
		Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV			Total Confirmed Polio Cases *						Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV							
Afghanistan	3768	29	1	0	3738	0	18.1	0	0	94.1	29	0	3708	56	1	286	3150	215	17.8	64	3	93.2	56	0	20/12/2020
Bahrain	17	0	0	0	17	0	5.7	0	0	100.0	0	0	13	0	0	3	10	0	4.5	0	0	92.3	0	0	20/12/2020
Djibouti	5	0	0	0	5	0	1.4	0	0	80.0	0	0	5	0	0	4	1	0	1.4	3	0	100.0	0	0	20/12/2019
Egypt	1343	0	0	0	1343	0	3.6	0	0	93.4	0	0	964	0	0	101	863	0	2.6	1	0	91.4	0	0	19/12/2020
Iran	1070	0	0	0	1069	1	5.2	0	0	97.1	0	0	551	0	0	16	535	0	2.7	0	0	98.7	0	0	19/12/2020
Iraq	1157	0	0	0	1157	0	7.4	0	0	94.3	0	0	440	0	0	29	411	0	2.8	0	0	93.6	0	0	19/12/2020
Jordan	113	0	0	0	113	0	3.9	0	0	100.0	0	0	32	0	0	0	32	0	0.9	0	0	96.9	0	0	17/12/2020
Kuwait	48	0	0	0	48	0	5.4	0	0	89.6	0	0	31	0	0	1	30	0	3.6	0	0	87.1	0	0	13/12/2020
Lebanon	87	0	0	0	87	0	4.7	0	0	89.7	0	0	46	0	0	10	36	0	2.6	2	0	93.5	0	0	11/12/2020
Libya	107	0	0	0	107	0	4.3	0	0	98.1	0	0	92	0	0	14	77	1	3.6	0	0	100.0	0	0	19/12/2020
Morocco	247	0	0	0	247	0	2.8	0	0	84.2	0	0	79	0	0	35	44	0	0.8	32	8	64.6	0	0	16/10/2020
Oman	30	0	0	0	30	0	2.7	0	0	80.0	0	0	20	0	0	0	20	0	1.8	0	0	100.0	0	0	20/12/2020
Pakistan	15218	147	6	0	15042	23	19.3	0	0	86.6	147	0	11186	83	11	840	10127	126	14.7	205	4	86.7	83	0	20/12/2020
Palestine	62	0	0	0	62	0	3.5	0	0	98.4	0	0	15	0	0	8	7	0	0.8	4	0	100.0	0	0	13/12/2020
Qatar	9	0	0	0	9	0	2.2	0	0	88.9	0	0	9	0	0	7	2	0	2.2	6	0	33.3	0	0	12/12/2020
Saudi Arabia	236	0	0	0	236	0	2.8	0	0	93.2	0	0	173	0	0	69	104	0	2.1	3	0	96.5	0	0	20/12/2020
Somalia	361	0	0	0	358	3	5.7	0	0	95.6	0	0	357	0	0	20	322	15	4.6	3	1	95.2	0	0	20/12/2020
Sudan	608	0	0	0	608	0	3.4	0	0	96.4	0	0	685	0	0	50	587	48	3.7	2	0	93.3	0	0	20/12/2020
Syria	377	0	0	0	377	0	4.8	0	0	88.1	0	0	332	0	0	16	316	0	4.3	0	0	91.3	0	0	19/12/2020
Tunisia	79	0	0	0	78	1	2.9	0	0	74.7	0	0	35	0	0	9	26	0	1.3	2	1	60.0	0	0	18/12/2020
U.A.E	50	0	0	0	50	0	4.0	0	0	90.0	0	0	19	0	0	2	17	0	1.6	0	0	100.0	0	0	14/12/2020
Yemen	779	0	0	0	778	1	5.5	0	0	89.0	0	0	743	0	1	386	338	18	5.4	184	151	89.9	0	0	12/12/2020
EMR	25771	176	7	0	25559	29	10.2	0	0	89.5	176	0	19535	139	13	1906	17055	423	7.7	511	168	89.3	139	0	
2018	21920	33	4	0	21868	15	8.7	0	0	89.8	33	0													

* Confirmed polio cases refer to wild isolation from AFP cases or from contacts of negative index AFP cases

** Non-polio AFP per 100,000 children <15 years

*** Adequate here refers to two stool specimens collected at least 24 hours apart, within 14 days of paralysis onset and specimens received in the lab in Good Condition

**** AFP cases co infected with P1 and P3 are counted separately as wild isolates

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COUNTRY	2019						2020					
	# OF CONTACTS	LAB RESULTS					# OF CONTACTS	LAB RESULTS				
		WILD	VDPV	SL	NPEV	PENDING		WILD	VDPV	SL	NPEV	PENDING
AFG	1138	8	0	48	202	0	1194	14	52	43	237	96
BAH	0	0	0	0	0	0	1	0	0	0	0	0
DJI	1	0	0	0	0	0	2	0	0	0	0	0
EGY	498	0	0	8	57	0	282	0	0	11	29	14
IRN	216	0	0	4	7	0	22	0	0	0	0	0
IRQ	603	0	0	12	39	6	162	0	0	4	8	0
JOR	0	0	0	0	0	0	0	0	0	0	0	0
KUW	0	0	0	0	0	0	0	0	0	0	0	0
LEB	24	0	0	0	3	0	5	0	0	0	0	0
LIB	7	0	0	0	3	0	2	0	0	0	0	0
MOR	85	0	0	3	1	30	8	0	0	0	0	4
OMA	78	0	0	2	28	0	60	0	0	2	8	0
PAK	5497	26	9	248	959	0	4491	19	12	354	723	207
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	0	0	0	18	0	0	0	0	6
SOM	1081	0	1	45	141	5	872	0	9	16	114	25
SUD	402	0	0	1	31	90	331	0	18	1	4	249
SYR	813	0	0	23	36	0	280	0	0	11	15	4
TUN	27	0	0	0	2	0	5	0	0	0	0	1
UAE	0	0	0	0	0	0	0	0	0	0	0	0
YEM	423	0	2	6	68	5	207	0	0	0	29	35
EMR	10937	34	12	400	1577	136	7942	33	91	442	1167	641

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

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
2020	Afghanistan	14	26/Jul/20
	Pakistan	19	4/Sep/20
2020 Total		33	4/Sep/20
2019	Afghanistan	8	17/Aug/19
	Pakistan	26	26/Dec/19
2019 Total		34	26/Dec/19

Table 4 (C): Number of distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2019-2020

YEAR	COUNTRY	PROVINCE	DISTRICT	COUNT	First case	Last case
2020	AFG	KANDAHAR	NESH	1	23-May-20	23-May-20
			HILMAND	1	04-Jan-20	04-Jan-20
			NIMROZ	1	28-Feb-20	28-Feb-20
			FARAH	1	06-May-20	06-May-20
			WASHER	1	04-Jan-20	04-Jan-20
	PAK	BALOCHISTAN	KSAIFULLAH	1	01-Sep-20	01-Sep-20
	PUNJAB	LAHORE	1	24-Jul-20	24-Jul-20	
		DG KHAN	2	18-Jan-20	05-Jul-20	
		KARAK	1	20-Jan-20	20-Jan-20	
		SINDH	2	07-Feb-20	14-Jul-20	
			11	04-Jan-20	01-Sep-20	
2019	AFG	URUZGAN	TIRINKOT	1	02-Aug-19	02-Aug-19
			HILMAND	1	05-Jun-19	05-Jun-19
	PAK	PUNJAB	SANGIN	1	06-Mar-19	06-Mar-19
			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
			KAMBAR	1	02-Nov-19	02-Nov-19
			MIRPURKHAS	2	01-Dec-19	18-Dec-19
			LARKANA	1	24-Dec-19	24-Dec-19
			JACOBABAD	1	19-Dec-19	19-Dec-19
		BALOCHSITAN	MASTUNG	1	18-Nov-19	18-Nov-19
			KILLABDULLAH	2	2-Jul-19	19-Nov-19
			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		
		24	06-Mar-19	24-Dec-19		

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Table 5: Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (51/2020) / Ending on : (20/12/2020)

Country	Polio laboratories ITD / Nucleotide Sequencing (Nucleotide Sequencing performed by EGY, PAK, TUN, CDC and RIVM laboratories)	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results #									Indicators				Latest report Date				
			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD		% specimens positive for NPEV*	% AFP cases with culture results within 14 days	% AFP cases with ITD results within 7 days	% AFP cases with ITD results within 45 days of onset**
			L20B+	L20B+/NPEV			received < / = 14 days	received > 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV									
Afghanistan	RRL Pakistan	3677	494	21	598	2441	88	3	53	104			63	192		87	1		2		65	16%	94%	99%	97%	20/12/2020
Bahrain	NPL Oman / CDC	10			1	9																9%	100%		0%	17/12/2020
Djibouti	NPL Kenya / CDC	5						1															0%		100%	20/12/2020
Egypt***	RRL Egypt	923	26	13	107	724	48	5		13						15		10	3			11%	96%	100%	99%	20/12/2020
Iran	NPL Iran / CDC	543	9		5	520		9		5						6						1%	100%	100%	99%	12/12/2020
Iraq	RRL Egypt	439	1		39	373	25			2												9%	96%	67%	98%	19/12/2020
Jordan	NPL Jordan / RRL EGYPT	32			5	26		1														16%	100%		100%	26/11/2020
Kuwait	RRL Kuwait / RIVM	33				30	1	2														1%	83%		93%	20/12/2020
Lebanon	NPL Jordan / RRL EGYPT	44			5	37	2															11%	98%		100%	11/12/2020
Libya	RRL Tunisia / RIVM	88	4			84										3	1					0%	100%	100%	53%	23/11/2020
Morocco	NPL Morocco / RRL Tunisia	69			1	58	1	9														1%	100%		98%	18/12/2020
Oman	NPL Oman / CDC	20			3	17																14%	100%		100%	17/12/2020
Pakistan	RRL Pakistan	10938	887	50	1680	7912	378	18	76	172			349	118		269		1	8	2	39	14%	94%	98%	97%	20/12/2020
Palestine & UNRWA		15				12	2	1														0%	42%		100%	13/12/2020
Qatar	NPL Oman / CDC	3				3																0%	100%		100%	17/12/2020
Saudi Arabia	NPL Saudi Arabia / CDC	181	1			166	14									1						0%	100%	100%	99%	20/12/2020
Somalia	NPL Kenya / CDC	357	21	5	56	255	3	16		3	1		11		14							18%	6%		97%	20/12/2020
Sudan	NPL Sudan / RRL Egypt	667	50		83	504	3	31		2			29	45		1						14%	99%	100%	55%	10/12/2020
Syria	NPL Syria / RRL Egypt	329	14	2	16	283	13	1														5%	100%			17/12/2020
Tunisia	RRL Tunisia	24				23		1														0%	100%		96%	11/12/2020
U.A.E	NPL Oman / CDC	16				16																0%	100%		50%	17/12/2020
Yemen	NPL Kenya / CDC	374	25		61	162		126		2	17					5		1		1		24%	97%	20%	0%	12/12/2020
Total EMR 2020		18787	1532	91	2660	13655	578	224	129	303	18		441	366		401	2	2	20	6	104	14%	93%	97%	95%	
Total EMR 2019		24920	1057	100	3669	20059		23	152	576	1		46	25		629	1	3	21	5		13%	95%	99%	96%	

* Specimens from all sources including non-AFP cases, excluding environmental samples

** This indicator reflects surveillance and laboratory activities

Table 6: Environmental isolate by year and type

COUNTRY	LAB RESULTS	2016	2017	2018	2019	2020
AFG	Wild	2	42	83	56	28
	Wild+cVDPV2					6
	cVDPV2					143
	aVDPV2					1
	EV/SL	177	265	248	200	167
AFG Total	Negative	6	9	5	3	3
	Pending					42
		185	316	336	259	390
						1
EGY	aVDPV2					1
	EV/SL	493	481	508	666	460
	Negative	35	41	32	34	36
	Pending					23
	aVDPV3					1
EGY Total	aVDPV1					1
	VDPV3					1
		528	522	540	700	523
						3
IRN	Wild					1
	VDPV2					34
	EV/SL		5	51	65	
	Negative		1	3	3	
IRN Total	Pending					1
			6	54	71	36
		2	29	36	36	19
			2			1
JOR	EV/SL					1
	Negative					1
	Pending					1
		2	31	36	36	21
KUW	EV/SL			3	3	
	Negative					8
	Pending					11
		2	26	44	44	21
LEB	EV/SL		1	1	3	2
	Negative					4
	Pending					4
		4	27	45	47	27
PAK	Wild	59	105	139	367	328
	Wild+cVDPV2	2			10	75
	Wild+aVDPV2	1	1		2	4
	cVDPV2	2			29	31
	aVDPV2	3	4			8
	EV/SL	456	523	531	420	266
	Negative	6		3	4	5
PAK Total	Pending					80
		529	633	673	832	797
			2	18	5	26
				11		
SOM	aVDPV2					1
	cVDPV3					1
	aVDPV2					1
	cVDPV2+cVDPV3					1
SOM Total	EV/SL		20	43	28	18
	Negative		14	138	29	32
	Pending					1
			36	213	63	77
SUD	cVDPV2					11
	EV/SL			15	42	12
	Negative				1	2
	Pending				17	25
SUD Total				15	60	50
			4	81	155	172
				21	30	17
						7
SYR	EV/SL					1
	Negative					1
	Pending					1
		4	102	185	185	196
TOTAL		1248	1575	2017	2264	2117

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
	PAK	Wild	BALUCHISTAN	72	1/Jan/19	20/Dec/19	
			GBALISTAN	1	9/Dec/19	9/Dec/19	
			ISLAMABAD	3	12/Apr/19	21/Aug/19	
			KPAKHTUNKHWA	40	8/Jan/19	28/Dec/19	
			PUNJAB	97	5/Jan/19	17/Dec/19	
			SINDH	154	2/Jan/19	17/Dec/19	
			Wild+cVDPV2	KPAKHTUNKHWA	1	31/Dec/19	31/Dec/19
				PUNJAB	5	6/Aug/19	16/Dec/19
				SINDH	4	7/Oct/19	18/Dec/19
			cVDPV2	GBALISTAN	5	24/Aug/19	6/Nov/19
				ISLAMABAD	1	12/Nov/19	12/Nov/19
				KPAKHTUNKHWA	10	9/Oct/19	28/Dec/19
				PUNJAB	12	11/Apr/19	18/Dec/19
			SINDH		1	19/Dec/19	19/Dec/19
PAK Total				406	1/Jan/19	31/Dec/19	
SOM	cVDPV2	BANADIR		5	10/Nov/19	22/Dec/19	
		BANADIR		1	3/Feb/19	3/Feb/19	
SOM Total				6	3/Feb/19	22/Dec/19	
2019 Total				471	1/Jan/19	31/Dec/19	
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	
			KHOST	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	3	25/Jun/20	27/Sep/20
				NANGARHAR	2	8/Jan/20	25/Jul/20
			cVDPV2	HILMAND	23	27/May/20	6/Nov/20
				HIRAT	2	26/Sep/20	24/Oct/20
				KABUL	19	26/Apr/20	5/Nov/20
				KANDAHAR	27	9/Jul/20	6/Nov/20
				KHOST	5	24/Jun/20	24/Oct/20
				KUNAR	4	6/Jun/20	4/Aug/20
				KUNDUZ	2	23/Aug/20	24/Oct/20
	LAGHMAN	4		24/Jul/20	6/Oct/20		
	NANGARHAR	56		7/Jan/20	5/Nov/20		
	PAKTYA	1		26/Jul/20	26/Jul/20		
	aVDPV2	HILMAND	1	27/Sep/20	27/Sep/20		
		AFG Total				178	1/Jan/20
	EGY	aVDPV2	GIZA		1	21/Sep/20	21/Sep/20
			EGY Total				1
	PAK	Wild	AJK	1	25/Feb/20	25/Feb/20	
			BALUCHISTAN	79	1/Jan/20	2/Dec/20	
			GBALISTAN	1	12/May/20	12/May/20	
			ISLAMABAD	5	16/Jan/20	10/Nov/20	
			KPAKHTUNKHWA	21	28/Jan/20	1/Dec/20	
			PUNJAB	113	4/Jan/20	18/Nov/20	
			SINDH	108	3/Jan/20	10/Nov/20	
			Wild+cVDPV2	BALUCHISTAN	17	1/Feb/20	28/Oct/20
				KPAKHTUNKHWA	1	11/Mar/20	11/Mar/20
PUNJAB				14	4/Jan/20	12/Oct/20	
cVDPV2			SINDH	43	3/Jan/20	6/Nov/20	
			BALUCHISTAN	8	2/Jun/20	17/Nov/20	
			KPAKHTUNKHWA	5	10/Jan/20	15/Oct/20	
			PUNJAB	2	16/Jan/20	17/Apr/20	
SINDH				16	8/Jun/20	11/Nov/20	
			aVDPV2	BALUCHISTAN	1	17/Sep/20	17/Sep/20
	KPAKHTUNKHWA	4		10/Apr/20	28/Oct/20		
	PUNJAB	1	4/May/20	4/May/20			
SINDH	2	13/Oct/20	3/Nov/20				
PAK Total				442	1/Jan/20	2/Dec/20	
SOM	cVDPV2	BANADIR		23	5/Jan/20	24/Oct/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/20	
SUD	cVDPV2	KHARTOUM		11	29/Mar/20	6/Sep/20	
		SUD Total				11	29/Mar/20
2020 Total				658	1/Jan/20	2/Dec/20	

Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2020 - 20/12/2020

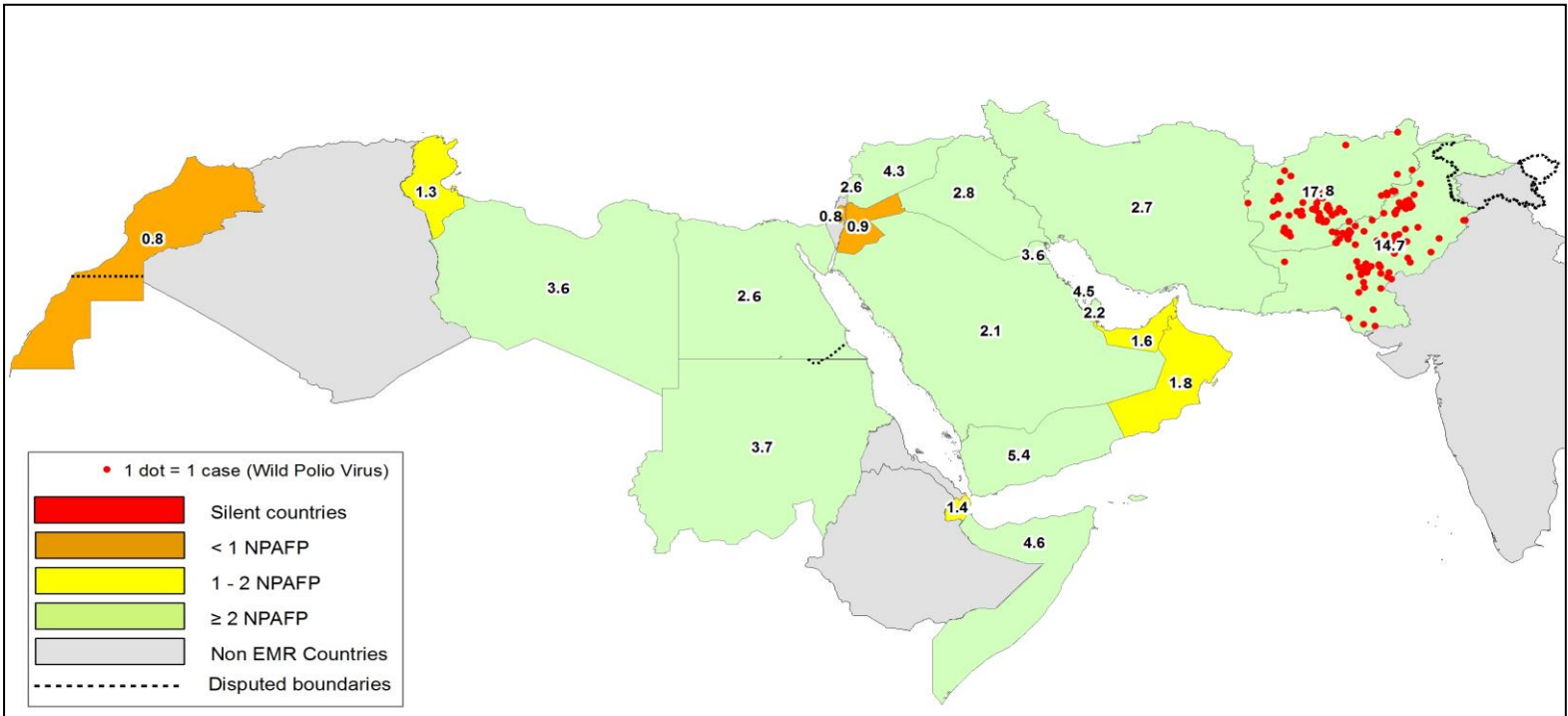


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2020 - 20/12/2020

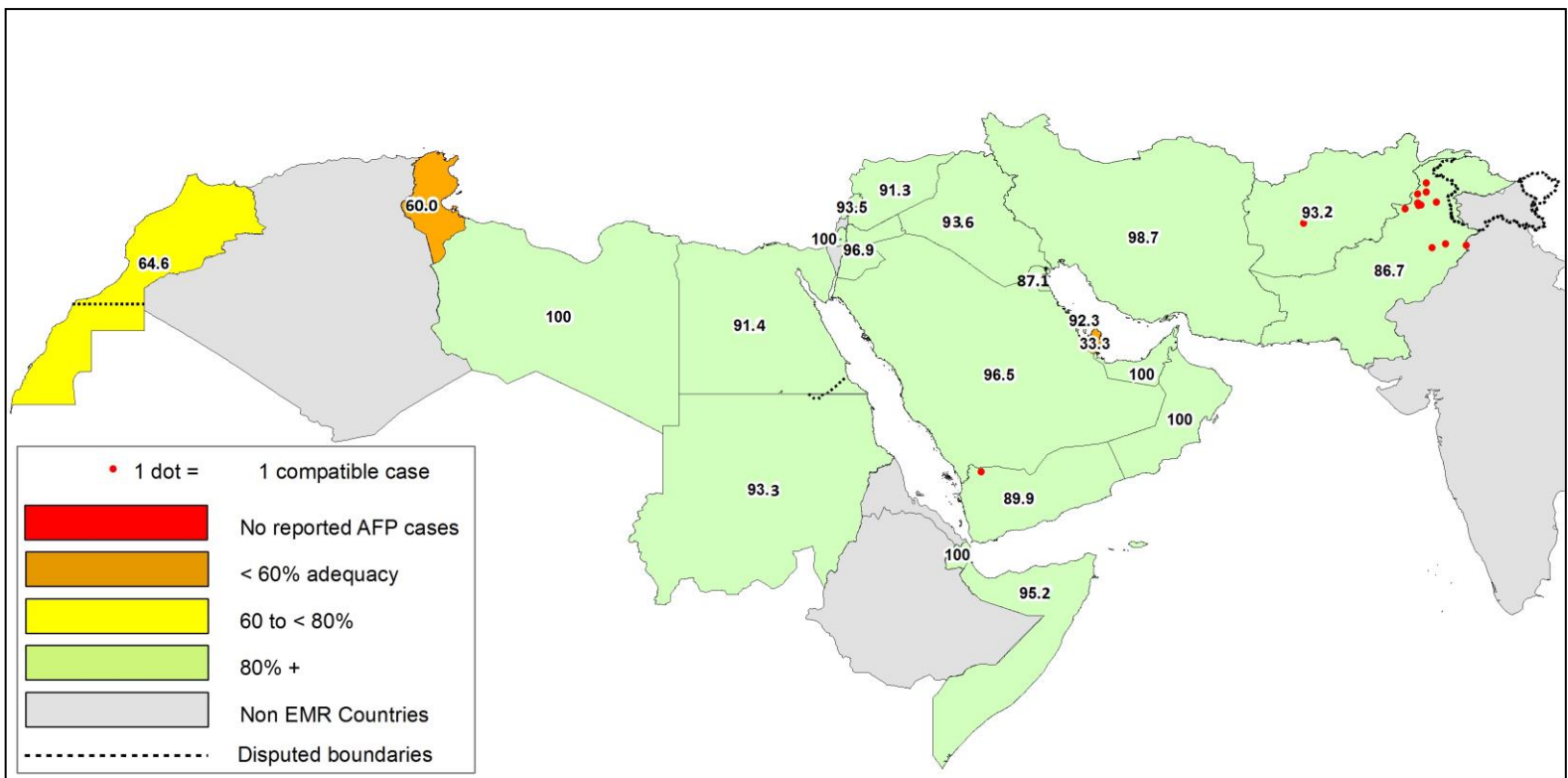


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2019 - 2020

Year	COUNTRY	Count	First Case	Last Case
2020	AFG	56	4-Jan-20	19-Oct-20
	PAK	83	1-Jan-20	23-Nov-20
2020 Total		139	1-Jan-20	23-Nov-20
2019	AFG	29	4-Jan-19	7-Dec-19
	PAK	147	15-Jan-19	31-Dec-19
2019 Total		176	4-Jan-19	31-Dec-19

Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2020 - 20/12/2020

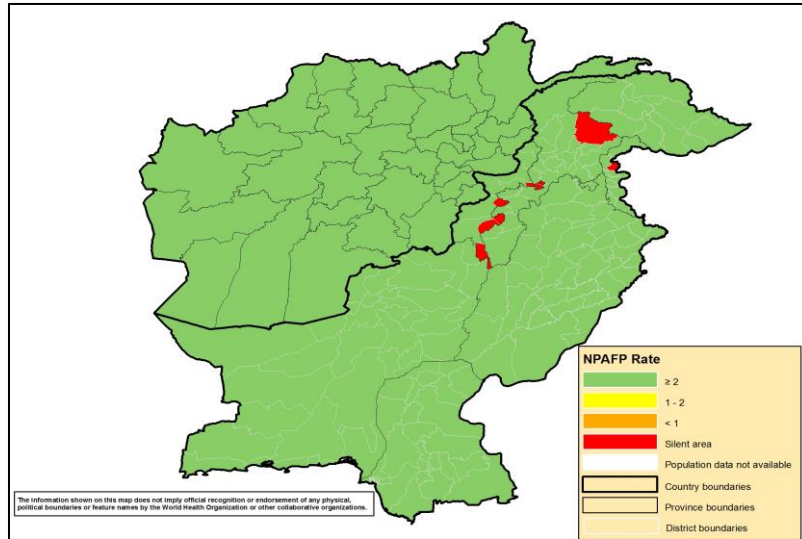


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2020 - 20/12/2020

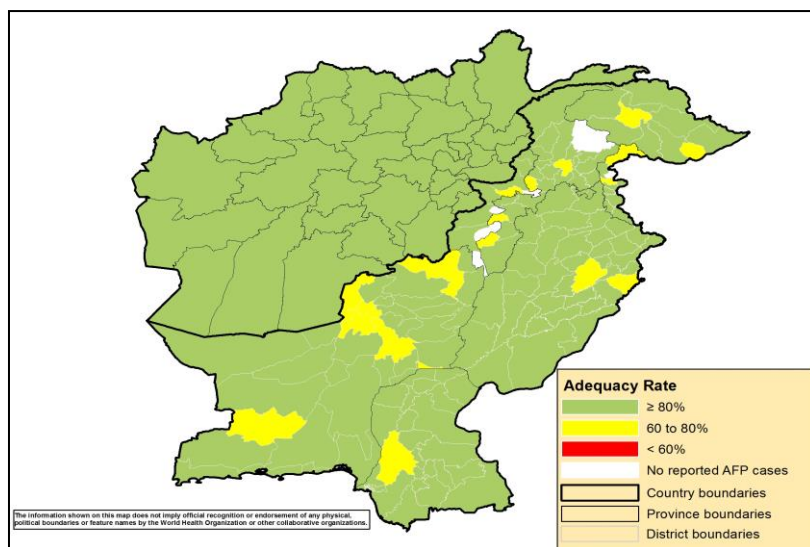
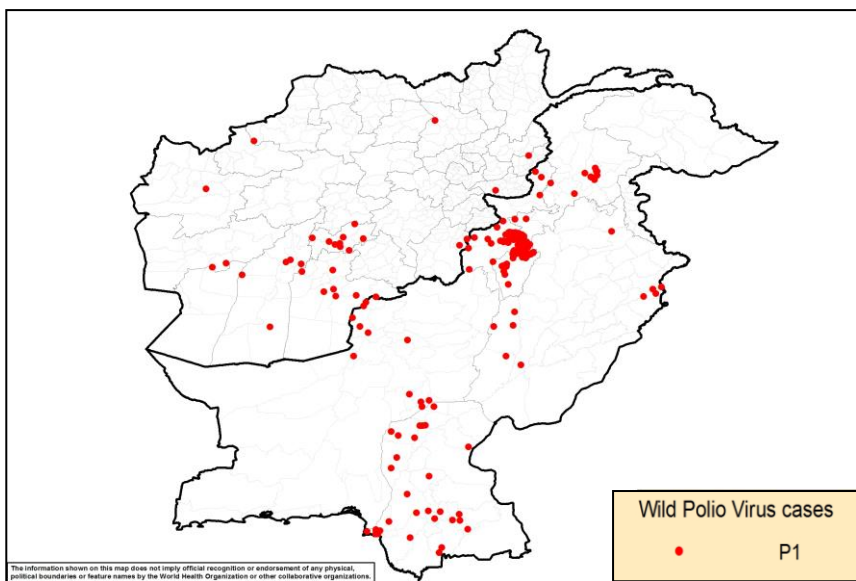
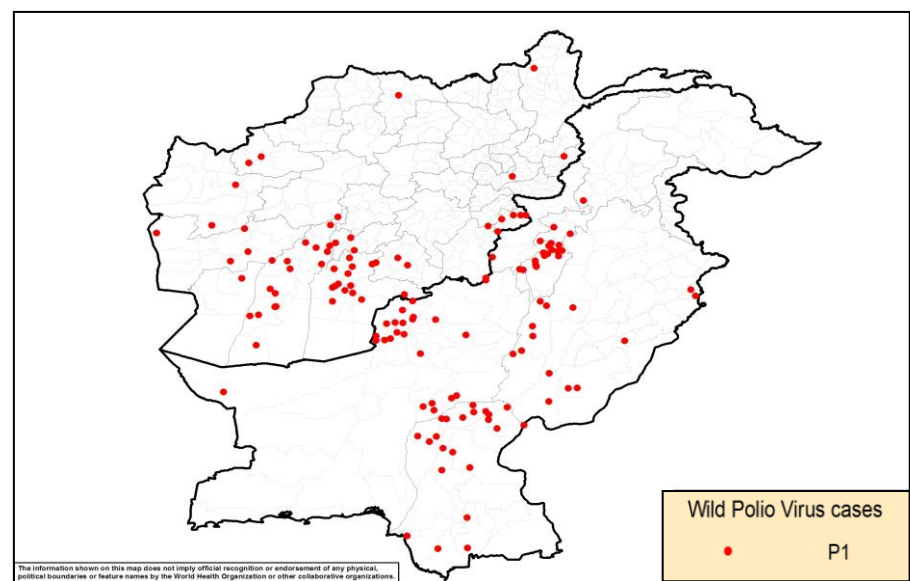


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5(b) 01/01/2020 - 20/12/2020



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

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2020	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 SHELTON	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 (Z)	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
2019	HIRAT	PASHTUNZARGHUN	1	19-Nov-19	19-Nov-19
	FARAH	BAKWA	2	14-Nov-19	25-Nov-19
	BADGHIS	BALAMURGHAB	1	17-Oct-19	17-Oct-19
	NANGARHAR	KHOGYANI	1	18-Sep-19	18-Sep-19
	KUNAR	WATAPUR	1	8-May-19	8-May-19
	PAKTIKA	BERMEL	2	15-Sep-19	28-Sep-19
	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
	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
	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	
BAGHLAN	PUL-E- KHUMRI	1	14-Nov-19	14-Nov-19	
2019 Total			29	4-Jan-19	7-Dec-19

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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	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		
		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			83	1-Jan-20	23-Nov-20
		2019	KHYBER PAKHTUNKHWA	LAKKIMRWT	32	27-May-19	31-Dec-19
	DIKHAN			4	5-May-19	21-Dec-19	
	MOHMAND			1	20-Dec-19	20-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	
	WAZIR-N			9	4-Apr-19	10-Oct-19	
	TORGHAR			7	25-May-19	13-Sep-19	
WAZIR-S	1			20-Aug-19	20-Aug-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		
KHYBER	1			14-Feb-19	14-Feb-19		
BAJOUR	1			18-Jan-19	18-Jan-19		
BALOCHISTAN	KABDULAH			5	9-Jun-19	31-Dec-19	
	JAFARABAD			3	28-May-19	18-Dec-19	
	NSIRABAD			1	5-Dec-19	5-Dec-19	
	MASTUNG			1	18-Nov-19	18-Nov-19	
	HARNAI			1	27-Sep-19	27-Sep-19	
	QUETTA		1	6-Jul-19	6-Jul-19		
PUNJAB	LAHORE		5	20-Jan-19	28-Dec-19		
	DGKHAN		4	2-Dec-19	25-Dec-19		
	OKARA		1	8-Dec-19	8-Dec-19		
	MUZFARGARH		1	26-Nov-19	26-Nov-19		
SINDH	JHELUM		1	21-Jun-19	21-Jun-19		
	THATTA		1	26-Dec-19	26-Dec-19		
	DADU		2	6-Dec-19	26-Dec-19		
	LARKANA		3	17-Apr-19	24-Dec-19		
	JAMSHORO		3	23-Aug-19	22-Dec-19		
	JACOBABAD		1	19-Dec-19	19-Dec-19		
	MIRPURKHAS		4	17-Nov-19	18-Dec-19		
	KAMBAR		3	2-Nov-19	14-Dec-19		
	BADIN		1	28-Nov-19	28-Nov-19		
	T.ALLAHYAR		1	10-Nov-19	10-Nov-19		
	KHIKAMARI		1	29-Oct-19	29-Oct-19		
	SUKKUR		1	27-Oct-19	27-Oct-19		
	KHIJAMSHEED		1	24-Oct-19	24-Oct-19		
	SBENAZIRABAD		1	19-Oct-19	19-Oct-19		
	SUJAWAL		1	25-Sep-19	25-Sep-19		
	KHIORANGI		2	20-Aug-19	26-Aug-19		
	HYDERABAD		2	20-Jul-19	5-Aug-19		
	KHIGIQBAL		1	29-Apr-19	29-Apr-19		
KHILAYARI	1		25-Feb-19	25-Feb-19			
2019 Total				147	15-Jan-19	31-Dec-19	

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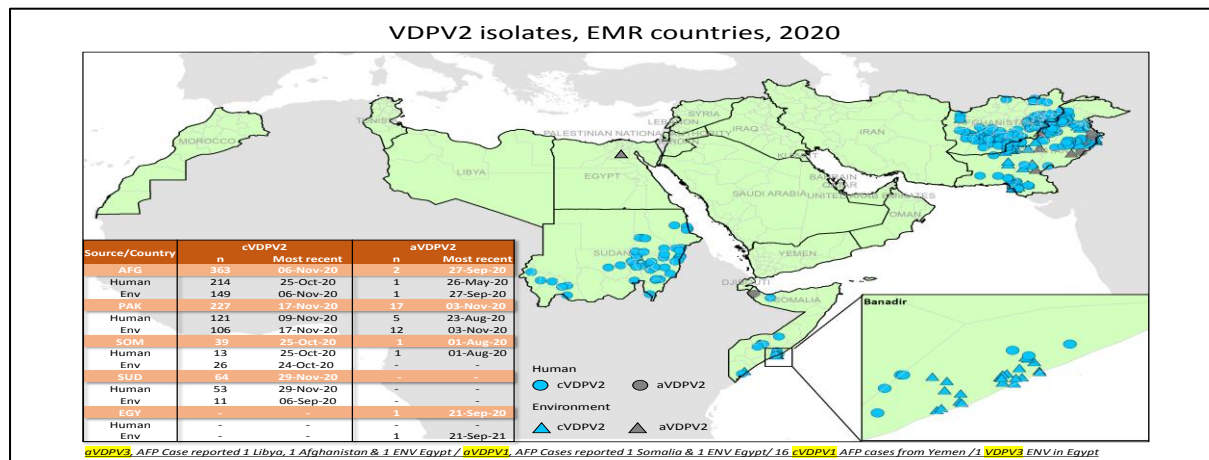
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Table 11: Circulating VDPV2 cases and date of onset of paralysis in EMR countries by provinces 2019-2020

YEAR	COUNTRY	PROVINCE	Count	First Case	Last Case
2020	SOM	LOWER JUBA	1	29-Aug-20	29-Aug-20
		GALBEED	1	29-Sep-20	29-Sep-20
		HIRAN	1	18-Oct-20	18-Oct-20
		MIDDLE SHABELLE	1	17-Jul-20	17-Jul-20
		BAY	2	3-Sep-20	25-Oct-20
	SUD	BANADIR	7	18-Jun-20	30-Sep-20
		SOUTH DARFUR	2	7-Mar-20	29-Apr-20
		EAST DARFUR	3	12-May-20	24-Jul-20
		KHARTOUM	3	15-Jul-20	24-Oct-20
		KASSALA	10	28-Jul-20	22-Sep-20
		GEZIRA	5	9-Jul-20	19-Sep-20
		RIVER NILE	5	29-Jun-20	27-Sep-20
		RED SEA	7	29-Apr-20	21-Oct-20
		WEST DARFUR	1	19-May-20	19-May-20
		BLUE NILE	3	7-Aug-20	3-Sep-20
		NORTH KORDOFAN	2	29-Aug-20	5-Oct-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	8	1-Jun-20	14-Oct-20
		HIRAT	2	10-Aug-20	15-Aug-20
		LOGAR	3	20-Aug-20	24-Oct-20
		KANDAHAR	53	4-Aug-20	25-Oct-20
		HILMAND	21	1-Aug-20	23-Oct-20
		JAWZIAN	1	4-Aug-20	4-Aug-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	16	5-Jul-20	19-Oct-20
		PAKTYA	4	18-Jun-20	5-Sep-20
		KUNDUZ	3	28-Aug-20	3-Oct-20
		PAKTIKA	5	25-Aug-20	7-Oct-20
		GHAZNI	1	29-Aug-20	29-Aug-20
		BADAKHSAN	1	23-Apr-20	23-Apr-20
		LAGHMAN	14	20-May-20	23-Sep-20
		TAKHAR	1	20-Sep-20	20-Sep-20
		ZABUL	5	17-Sep-20	22-Oct-20
		URUZGAN	5	28-Aug-20	21-Oct-20
		PARWAN	1	4-Sep-20	4-Sep-20
		WARDAK	4	6-Sep-20	22-10-20
		KUNAR	9	6-Apr-20	29-Sep-20
		NANGARHAR	45	5-Feb-20	21-Sep-20
	PAK	SINDH	40	2-May-20	9-Nov-20
		BALUCHISTAN	16	29-Feb-20	5-Nov-20
		PUNJAB	23	5-Feb-20	1-Oct-20
KHYBER PAKHTUNKHWA		42	2-Jan-20	24-May-20	
Total 2020			396	2-Jan-20	9-Nov-20
2019	PAK	PUNJAB	1	22-Nov-19	22-Nov-19
		KHYBER PAKHTUNKHWA	16	4-Sep-19	28-Dec-19
		ISLAMABAD	1	11-Sep-19	11-Sep-19
		GILGIT BALTISTAN	4	7-Jul-19	28-Aug-19
	SOM	BARI	1	8-May-19	8-May-19
		TOGDHER	1	21-Apr-19	21-Apr-19
SOOL	1	15-Mar-19	15-Mar-19		
Total 2019			25	15-Mar-19	28-Dec-19



A positive VDPV2 environmental sample was reported from Iran, from S & B province, with collection date 3 October 2020 - classification type still awaited