Highlights of Polio Fax Bulletin No. 1112 for Week 04 2020

I. Wild Poliovirus Transmission

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

- 3 new wild poliovirus type-1 (WPV1) cases all from Pakistan
- 4 new Circulating Vaccine Derived Poliovirus type-2 (cVDPV2) cases all from Pakistan
- 1 new positive WPV1 environmental sample from Afghanistan
- 1 new cVDPV2 environmental sample from Pakistan

<u> 2020</u>

- 3 new wild poliovirus type-1 (WPV1) cases from Pakistan
- 10 new positive WPV1 environmental samples from Pakistan
- a. *Human samples*: 6 new WPV1 cases reported this week. Total WPV1 cases in 2019 to date is 168 (29 from Afghanistan and 139 from Pakistan). This compares with 33 cases in 2018 in the same period (Afghanistan 21 and Pakistan 12). Also 3 new WPV1 cases in 2020 were reported this week from Pakistan. Total WPV1 cases in 2020 to date is 4 all from Pakistan. This compares with 6 cases in 2019 in the same period all from Pakistan.
 - Afghanistan: No new WPV1 cases were reported this week:
 In 2019 to date, 29 WPV1 cases are reported. They include 9 cases from Uruzgan province,
 5 cases from Hilmand province, 6 from Kandahar province, 2 each from Paktika and Farah provinces and 1 each from Kunar, Nangarhar, Badghis, Baghlan and Herat provinces. The most recent case has onset of paralysis on 7 December 2019.
 - Pakistan: Six new WPV1 cases reported this week and details are as follows:

<u>Case (1)</u>: The case is from Kambar district, Sindh province, with date of onset 8 December 2019. The case is a 96-month old male child. The child reportedly received 7+ OPV doses all from SIAs and none from routine. The index case was identified as wild by a positive contact.

<u>Case (2)</u>: The case is from Dadu district, Sindh province, with date of onset 26 December 2019. The case is a 24-month old male child. The child reportedly received 3 OPV doses from routine and 7+ doses from SIAs.

<u>Case (3)</u>: The case is from Killa Abdullah district, Balochistan province, with date of onset 31 December 2019. The case is an 18-month old female child. The child reportedly received 3 OPV doses all from SIAs and none from routine.

<u>Case (4)</u>: The case is from Lakki Marwat district, Khyber Pakhtunkhwa (KP) province, with date of onset 4 January 2020. The case is an 8-month old male child. The child reportedly received 3 OPV doses all from SIAs and none from routine.

<u>Case (5)</u>: The case is from Sujawal district, Sindh province, with date of onset 7 January 2020. The case is a 42-month old male child. The child reportedly received 2 OPV doses from routine and 7+ doses from SIAs.

<u>Case (6)</u>: The case is from Tando Allah Yar district, Sindh province, with date of onset 7 January 2020. The case is a 7-month old female child. The child reportedly received 2 OPV doses from routine and 1 dose from SIAs.

In 2019 to date, 139 WPV1 cases are reported from Pakistan. They include 80 from Khyber Pakhtunkhwa (KP) province, 12 from KP Tribal Districts (KPTD), 27 from Sindh province, 12 from Balochistan province and 8 from Punjab province. While in 2020, 4 WPV1 cases are reported, two each from KP and Sindh provinces. The most recent case has onset of paralysis on 7 January 2020.

- b. *Environmental samples*: Eleven new WPV1 positive environmental samples reported this week 1 in 2019 from Afghanistan and 10 from Pakistan in 2020:
 - Afghanistan: In 2019 to date, there are 56 wild positive environmental samples with most recent positive sample collected on 25 December 2019.
 - Pakistan: In 2019 to date, there are 375 WPV1 positive environmental samples including 7 combined (WPV1 and cVDPV2) with most recent positive sample collected on 31 December 2019. In 2020 to date, there are 12 WPV1 positive environmental samples with most recent positive sample collected on 9 January 2020.

II. Circulating Vaccine Derived Polioviruses (cVDPVs)

PAKISTAN: Four new cVDPV2 cases and one environmental sample were reported this week in 2019.
 <u>Case (1)</u>: The case is from Khyber district, KP province, with date of onset 12 December 2019. The case is a 24-month old male child. The child reportedly received 7 OPV doses all from SIAs and none from routine.

<u>Case (2)</u>: The case is from Mohmand district, KP province, with date of onset 12 December 2019. The case is a 6-month old female child. The child reportedly received 2 OPV doses all from SIAs and none from routine.

<u>Case (3)</u>: The case is from Mohmand district, KP province, with date of onset 19 December 2019. The case is a 15-month old male child. The child reportedly received 8 OPV doses out of which 1 dose was from routine and 7 doses from SIAs.

<u>Case (4)</u>: The case is from Khyber district, KP province, with date of onset 28 December 2019. The case is a 9-month old male child. The child reportedly received a total of 3 OPV doses all from SIAs and none from routine.

In 2019 to date, 22 cVDPV2 cases reported (onset of the most recent case is 28th December). 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.

Environment: 26 positive environmental samples for cVDPV2, the recent most sample collected on 16 December 2019 (including seven combined WPV1 and cVDPV2).

In addition, cVDPV2 has been isolated form 16 healthy children and 7 contacts.

2. <u>SOMALIA</u>: No new cVDPV2 or cVDPV3 isolates from human were reported this week, but 3 new cVDPV2 environmental samples from Banadir were reported.

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

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

5 cVDPVs were isolated from environmental samples with most recent positive sample collected on 22 December 2019.

III. Surveillance performance indicators

In 2019, 20 of 22 member states are meeting the global target of both key surveillance indicators, namely non polio AFP rate of 2 per 100,000 children aged below 15 years and percent AFP cases with adequate specimen 80% and above.

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

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

		R	eported A	FP cas	es by w	eek of	onset	- Wee	k (04/2	0) / Enc	ling on	: 26/01	/2020		
Country	Total AFP 2018	Total AFP 2019	Total AFP to date, 2020	W45 10 Nov 19	W46 17 Nov 19	W47 24 Nov 19	W48 01 Dec 19	W49 08 Dec 19	W50 15 Dec 19	W51 22 Dec 19	W52 29 Dec 19	W01 05 Jan 20	W02 12 Jan 20	W03 19 Jan 20	W04 26 Jan 20
Afghanistan	3378	3763	181	65	61	54	79	76	63	67	65	77	62	47	6
Bahrain	35	17	0	0	1	0	0	1	0	0	0	0	0	0	0
Djibouti	0	5	0	0	0	1	0	0	0	0	0	0	0	0	0
Egypt	1246	1343	48	34	39	34	28	31	26	18	13	29	16	4	
Iran	896	1070	0	31	43	33	25	24	24	18	24	0	0		
Iraq	1023	1157	38	28	26	36	33	31	20	25	13	22	16	2	
Jordan ****	115	113	5	0	1	2	0	4	1	1	1	1	3	0	1
Kuwait	72	48	3	0	1	1	1	3	1	0	2	1	1	1	0
Lebanon ****	89	87	9	2	2	1	1	4	1	3	4	4	2	2	2
Libya	122	107	14	1	1	2	1	4	4	3	4	4	4	5	1
Morocco	212	248	5	4	4	9	10	14	6	4	2	4	1	0	
Oman	28	30	0	1	0	2	1	3	1	0	1	0	0	0	0
Pakistan	12276	15094	610	307	318	337	320	350	346	297	265	302	254	119	2
Palestine ****	44	62	1	2	0	2	3	1	0	2	1	0	1	0	0
Qatar	10	9	0	1	0	0	0	0	0	2	0	0	0	0	0
Saudi Arabia	242	236	0	7	2	5	3	5	4	4	4	1	0	0	
Somalia	353	361	18	4	7	5	3	11	7	4	5	10	6	3	0
Sudan	579	608	26	11	11	14	13	6	17	17	5	14	10	4	0
Syria ****	362	377	16	6	3	13	9	11	16	8	3	7	6	6	0
Tunisia	68	77	1	1	1	2	2	0	0	0	0	1	0	0	
U.A.E	40	49	2	2	2	1	3	1	1	0	2	1	0	1	0
Yemen	730	777	24	16	17	15	14	26	19	9	23	8	12	5	
Total EMR	21920	25638	1001	<i>523</i>	<i>540</i>	569	549	606	<i>557</i>	482	437	486	394	199	12

No data = No report received

Table 2: Confirmed polio cases by month of onset

Table 2: Confirm			26/0					Confir	ned po	lio cas	es by n	nonth c	of onse	t		
Country	Total year 2018	Total year 2019	2019	2020	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	January 2020
Afghanistan	21	29	2	0	1	3	1	5	1	2	2	3	1	7	1	
Bahrain	0	0	0	0	0	0	0	0	0	0	0					
Djibouti	0	0	0	0	0	0	0	0	0	0	0	0	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	0	
Kuwait	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lebanon ****	0	0	0	0	0	0	0	0	0	0	0	0	0			
Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Morocco	0	0	0	0	0		0	0	0	0	0	0	0	0		
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	12	139	4	4	2	0	11	11	16	12	14	5	16	23	25	4
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				
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	0		
Syria ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
U.A.E	0	0	0	0	0	0	0	0	0	0	0	0				
Yemen	0	0	0	0		0										
Total EMR	33	168	6	4	3	3	12	16	17	14	16	8	17	30	26	4

^{****} 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 (04/20) / Ending on : 26/01/2020)

COUNTRY COUN					2019							011001	2010	<u>u 2020</u>	up io	,,,	0 1,120,1	Liidiiiş	, 0	202						
COUNTRY Country Count								20				Wild	cases							202						
COUNTRY						AFP					Specimen							AFP					Specimen			
Late Fine		61		Case	classif	fication			E C	0 sis				50		Case	classific	cation		L	Ĕ	0 sis				
Bahrain	COUNTRY	Total AFP cases onset	•	Polio Compatible		Discarded (non polio AFP)	VDPV				adec mens	Wild P1 Poliovirus	Wild P3 Poliovirus	Total AFP cases	Total Confirmed Polio Cases *	Polio Compatible		Discarded (non polio AFP)	VDPV		AFP cases pending classification > 90 days fro onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralys	% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus	Latest line List Date
Dibouti 5	Afghanistan	3763	29	1	58	3675	0		31	0	94.2	29	0	181	0	0	151	30	0	12.6	0	0	98.9	0	0	26/01/2020
Egypt 1343 0 0 32 1311 0 3.6 0 0 93.0 0 0 48 0 0 48 0 0 1.8 0 0 60.4 0 0 16/01/L Iran 1070 0 0 9 1060 1 5.2 0 0 97.0 18/01/L 0 <t< th=""><th>Bahrain</th><th>17</th><th>0</th><th>0</th><th>6</th><th>11</th><th>0</th><th>5.9</th><th>2</th><th>2</th><th>100.0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0.0</th><th>0</th><th>0</th><th></th><th>0</th><th>0</th><th>20/01/2020</th></t<>	Bahrain	17	0	0	6	11	0	5.9	2	2	100.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	20/01/2020
Figure 1070 0 0 9 1060 1 5.2 0 0 97.0 0 0 0 0 0 0 0 0 0	Djibouti		0	0	5	0	0	1.4	3	0	80.0	0	0	0	0	0		0	0	0.0	0	0		0	0	26/01/2019
First 1157 0 0 27 1130 0 7.6 3 0 94.3 0 0 38 0 0 19 19 0 3.5 0 0 100.0 0 0 25/01/L Jordan 113 0 0 3 110 0 3.9 0 0 100.0 0 0 5 0 0 5 0 0 1.8 0 0 100.0 0 0 26/01/L Kuwait 48 0 0 1 47 0 5.4 0 0 89.6 0 0 3 0 0 3 0 0 4.8 0 0 66.7 0 0 26/01/L Lebanon 87 0 0 16 71 0 4.7 8 0 89.7 0 0 9 0 0 9 0 0 6.8 0 0 66.7 0 0 24/01/L Libya 107 0 0 6 101 0 4.3 0 0 98.1 0 0 14 0 0 14 0 0 7.8 0 0 100.0 0 0 25/01/L Morocco 248 0 0 24 224 0 2.8 14 0 82.7 0 0 5 0 0 5 0 0 0.8 0 0 80.0 0 0 19/01/L Pakistan 15094 139 2 527 14404 22 19.2 192 0 87.2 139 0 610 4 0 479 127 0 10.9 0 0 90.2 4 0 26/01/L Palestine 62 0 0 11 51 0 3.3 1 0 98.4 0 0 1 0 0 0 0 0 0 0	Egypt	1343	0	0	32	1311	0	3.6	0	0	93.0	0	0	48	0	0	48	0	0	1.8	0	0	60.4	0	0	16/01/2020
Dordan 113 0 0 3 110 0 3.9 0 0 100.0 0 0 5 0 0 5 0 0 1.8 0 0 100.0 0 0 26/01/Lebanon 87 0 0 16 71 0 4.7 8 0 89.6 0 0 0 9 0 0 9 0 0 6.8 0 0 66.7 0 0 24/01/Lebanon 87 0 0 16 71 0 4.7 8 0 89.7 0 0 9 0 0 9 0 0 6.8 0 0 66.7 0 0 24/01/Lebanon 107 0 0 6 101 0 4.3 0 0 98.1 0 0 14 0 0 7.8 0 0 100.0 0 0 25/01/Lebanon 30 0 0 1 29 0 3.3 0 0 86.7 0 0 5 0 0 5 0 0 0 0	Iran	1070	0	0	9	1060	1	5.2	0	0	97.0	0	0	0	0	0	0	0	0	0.0	0	0		0	0	18/01/2020
Note Column Col				0	27	1130	0		3	0		0	0	38	0	0	_	19	0	3.5	0	0		0	0	25/01/2020
Lebanon 87 0 0 16 71 0 4.7 8 0 89.7 0 0 9 0 0 9 0 0 66.8 0 0 66.7 0 0 24/01/L Libya 107 0 0 6 101 0 4.3 0 0 98.1 0 0 14 0 0 14 0 0 7.8 0 0 100.0 0 25/01/L Morocco 248 0 0 24 224 0 2.8 14 0 82.7 0 0 5 0 0 0.8 0	Jordan	113	0	0	3	110	0		0	0	100.0	0	0	5	0	0	5	0	0	1.8	0	0	100.0	0	0	26/01/2020
Libya 107 0 0 6 101 0 4.3 0 0 98.1 0 0 14 0 0 14 0 0 7.8 0 0 100.0 0 0 25/01/2 Morocco 248 0 0 0 24 224 0 2.8 14 0 82.7 0 0 0 5 0 0 0 5 0 0 0.8 0 0 80.0 0 19/01/2 Oman 30 0 0 1 29 0 3.3 0 0 86.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kuwait	48	0	0	1	47	0	5.4	0	0	89.6	0	0	3	0	0	3	0	0	4.8	0	0	66.7	0	0	26/01/2020
Morocco 248 0 0 24 224 0 2.8 14 0 82.7 0 0 5 0 0 0 0 0 0 19/01/10 Oman 30 0 0 1 29 0 3.3 0 0 86.7 0	Lebanon	87	0	0	16	71	0	4.7	8	0	89.7	0	0	9	0	0	9	0	0	6.8	0	0	66.7	0	0	24/01/2020
Oman 30 0 0 1 29 0 3.3 0 0 86.7 0 <th< th=""><th>Libya</th><th>107</th><th>0</th><th>0</th><th>6</th><th>101</th><th>0</th><th>4.3</th><th>0</th><th>0</th><th>98.1</th><th>0</th><th>0</th><th>14</th><th>0</th><th>0</th><th>14</th><th>0</th><th>0</th><th>7.8</th><th>0</th><th>0</th><th>100.0</th><th>0</th><th>0</th><th>25/01/2020</th></th<>	Libya	107	0	0	6	101	0	4.3	0	0	98.1	0	0	14	0	0	14	0	0	7.8	0	0	100.0	0	0	25/01/2020
Pakistan 15094 139 2 527 14404 22 192 192 0 87.2 139 0 610 4 0 479 127 0 10.9 0 0 90.2 4 0 26/01/L Palestine 62 0 0 11 51 0 3.3 1 0 98.4 0 0 1 0 </th <th>Morocco</th> <th>248</th> <th>0</th> <th>0</th> <th>24</th> <th>224</th> <th>0</th> <th></th> <th>14</th> <th>0</th> <th>82.7</th> <th>0</th> <th>0</th> <th>5</th> <th>0</th> <th>0</th> <th>5</th> <th>0</th> <th>0</th> <th>8.0</th> <th>0</th> <th>0</th> <th>80.0</th> <th>0</th> <th>0</th> <th>19/01/2020</th>	Morocco	248	0	0	24	224	0		14	0	82.7	0	0	5	0	0	5	0	0	8.0	0	0	80.0	0	0	19/01/2020
Palestine 62 0 0 11 51 0 3.3 1 0 98.4 0 0 1 0	Oman	30		0	,	29	0		0	0	86.7	0	0	0	0	0			0	0.0	0	0		0	0	19/01/2020
Qatar 9 0 0 3 6 0 2.5 0 0 88.9 0	Pakistan	15094	139	2	527	14404	22	19.2	192	0	87.2	139	0	610	4	0	479	127	0	10.9	0	0	90.2	4	0	26/01/2020
Saudi Arabia 236 0 0 35 201 0 2.8 6 4 93.2 0	Palestine	62	0	0	11	51	0	3.3	1	0	98.4	0	0	1	0	0	1	0	0	0.7	0	0	100.0	0	0	26/01/2020
Somalia 361 0 0 5 353 3 5.7 3 3 95.6 0 0 18 0 0 13 5 0 3.1 0 0 100.0 0 26/01/2 Sudan 608 0 0 11 597 0 3.4 2 0 96.4 0 0 26 0 0 23 3 0 1.9 0 0 96.2 0 0 26/01/2 Syria 377 0 0 6 371 0 4.9 0 0 88.1 0 0 14 2 0 2.9 0 0 100.0 0 25/01/2 Tunisia 77 0 0 1 75 1 2.8 0 0 75.3 0 0 1 0 0 1 0 0 100.0 0 0 26/01/2 U.A.E	Qatar	9	0	0	3	6	0	2.5	0	0	88.9	0	0	0	0	0	0	0	0	0.0	0	0		0	0	26/01/2020
Sudan 608 0 0 11 597 0 3.4 2 0 96.4 0 0 26 0 0 23 3 0 1.9 0 0 96.2 0 0 26/01/2 Syria 377 0 0 6 371 0 4.9 0 0 88.1 0 0 16 0 0 14 2 0 2.9 0 0 100.0 0 25/01/2 Tunisia 77 0 0 1 75 1 2.8 0 0 75.3 0 0 1 0 0 1 0 0 1 0 0 0 100.0 0 24/01/2 U.A.E 49 0 0 26 23 0 3.9 11 2 89.8 0 0 2 0 0 0 0 100.0 0 0 0	Saudi Arabia	236	0	0	35	201	0		6	4	93.2	0	0	0	0	0	0	0	0	0.0	0	0		0	0	23/01/2020
Syria 377 0 0 6 371 0 4.9 0 0 88.1 0 0 16 0 0 14 2 0 2.9 0 0 100.0 0 25/01/2 Tunisia 77 0 0 1 75 1 2.8 0 0 75.3 0 0 1 0 0 0.5 0 0 100.0 0 0 24/01/2 U.A.E 49 0 0 26 23 0 3.9 11 2 89.8 0 0 2 0 0 2.2 0 0 100.0 0 0 26/01/2	Somalia	361	0	0	5	353	3		3	3	95.6	0	0	18	0	0	13	5	0	3.1	0	0	100.0	0	0	26/01/2020
Tunisia 77 0 0 1 75 1 2.8 0 0 75.3 0 0 1 0 0 0.5 0 0 100.0 0 24/01/2 U.A.E 49 0 0 26 23 0 3.9 11 2 89.8 0 0 2 0 0 2.2 0 0 100.0 0 0 26/01/2	Sudan	608	0	0	11	597	0	3.4	2	0	96.4	0	0	26	0	0	23	3	0	1.9	0	0	96.2	0	0	26/01/2019
U.A.E 49 0 0 26 23 0 3.9 11 2 89.8 0 0 2 0 0 2 0 0 2.2 0 0 100.0 0 0 26/01/2	Syria	377	0	0	6	371	0	4.9	0	0	88.1	0	0	16	0	0	14	2	0	2.9	0	0	100.0	0	0	25/01/2020
		77	0	0	1	75	1	2.8	0	0	75.3	0	0	1	0	0	1	0	0	0.5	0	0	100.0	0	0	24/01/2019
Ny	U.A.E		0	0			0	_			89.8	0	0		0	0	2	0	0	2.2	0	0	100.0	0	0	26/01/2020
remen /// 0 0 326 451 0 5.5 168 148 89.3 0 0 24 0 0 24 0 0 2.4 0 0 100.0 0 0 25/01/	Yemen	777	0	0	326	451	0	5.5	168	148	89.3	0	0	24	0	0	24	0	0	2.4	0	0	100.0	0	0	25/01/2020
EMR 25638 168 3 1139 24301 27 10.1 444 159 89.8 168 0 1001 4 0 811 186 0 5.5 0 0 91.3 4 0	EMR	25638	168	3	1139	24301	27	10.1	444	159	89.8	168	0	1001	4	0	811	186	0	5.5	0	0	91.3	4	0	
2018 21920 33 1 85 21786 15 8.7 85 80 89.8 33 0	2018	21920	33	1	85	21786	15	8.7	85	80	89.8	33	0													

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

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

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

^{****} AFP cases co infected with P1 and P3 are counted 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	1137	8	0	48	202	0	33	0	0	0	1	26
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	55	13	15	0	0	0	0	15
IRN	213	0	0	4	7	0	0	0	0	0	0	0
IRQ	603	0	0	10	39	6	9	0	0	0	0	3
JOR	0	0	0	0	0	0	0	0	0	0	0	0
KUW	0	0	0	0	0	0	0	0	0	0	0	0
LEB	24	0	0	0	3	2	0	0	0	0	0	0
LIB	6	0	0	0	3	0	0	0	0	0	0	0
MOR	79	0	0	3	1	29	0	0	0	0	0	0
OMA	79	0	0	2	28	1	0	0	0	0	0	0
PAK	5492	26	7	246	959	3	318	1	0	10	14	178
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	1078	0	1	45	140	15	65	0	0	0	2	41
SUD	402	0	0	0	31	90	13	0	0	0	2	5
SYR	813	0	0	23	36	0	35	0	0	0	0	30
TUN	26	0	0	0	2	0	0	0	0	0	0	0
UAE	0	0	0	0	0	0	0	0	0	0	0	0
YEM	423	0	0	0	0	220	14	0	0	0	0	14
EMR	10918	34	8	390	1506	379	502	1	0	10	19	312

Tahla	4 (R)	Most	recent	- wild	contacts	in	EMRO	2019-2020	
I avie	4 (D).	IVIUSE	recen	wilu	CUIILACIS		LIVINU.	2013-2020	

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

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
		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
			KHIORANGI	1	28-Aug-19	28-Aug-19
			SUJAWAL	1	25-Sep-19	25-Sep-19
		SINDH	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
2019			MIRPURKHAS	1	01-Dec-19	01-Dec-19
	PAK	BALOCHSITAN	MASTUNG	1	18-Nov-19	18-Nov-19
		BALOCISTAN	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	25-May19
	2019 Total			19	06-Mar-19	01-Dec-19

World Health Organization - Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

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Table 5:

Week 04, ending 26 January 2020

Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (04/2020) / Ending on : (26/01/2020)

Table 5:								P cases v	vith p	araly	/SIS	onse						•	•	aing (on : (26	/01/2020)				
Country	Polio laboratories				virus is	olation re	sults of AF											ion results#					Indi	icators	_	1
		mens	Referre	d for ITD			Pe	nding		Type 1		L.,	Type 2	2	<u> </u>	Type 3	-					يَ	e	sults	results set**	ø.
	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	Aday	Wild	Sabin	VDDV	Wild	Sabin	VDPV	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	147	5			31	114			2						3					2	1%	100%	100%	100%	26/01/2020
Bahrain	NPL Oman / CDC																									27/01/2020
Djibouti	NPL Kenya / CDC																									26/01/2020
Egypt***	RRL Egypt	61			1	20	39	1														4%	100%		100%	23/01/2020
Iran	NPL Iran / CDC	33				2	12	19														0%	100%		100%	18/01/2020
Iraq	RRL Egypt	43			2	18	23															9%	100%		100%	24/01/2020
Jordan	NPL Jordan / RRL EGYPT	4			1	3																25%	100%		100%	23/01/2020
Kuwait	RRL Kuwait / RIVM	2					2															0%				23/01/2020
Lebanon	NPL Jordan / RRL EGYPT																									23/01/2020
Libya	RRL Tunisia / RIVM	6					6																			25/01/2020
Morocco	NPL Morocco / RRL Tunisia	3						3														0%				17/01/2020
Oman	NPL Oman / CDC	1					1															50%				27/01/2020
Pakistan	RRL Pakistan	582	30		11	115	423	6	4	2						3					23	8%	100%	100%	100%	26/01/2020
Palestine & UNR	WA .	1					1																			26/01/2020
Qatar	NPL Oman / CDC																									27/01/2020
Saudi Arabia	NPL Saudi Arabia / CDC	1				1																0%	100%			23/01/2020
Somalia	NPL Kenya / CDC	18				5	5	8														0%	0%		100%	26/01/2020
Sudan	NPL Sudan / RRL Egypt	2						2																		12/01/2020
Syria	NPL Syria / RRL Egypt	10				2	6	2														0%	100%			16/01/2020
Tunisia	RRL Tunisia																									25/01/2020
U.A.E	NPL Oman / CDC																									27/01/2020
Yemen	NPL Kenya / CDC																									25/01/2020
	Total EMR 2020	914	35		15	197	632	41	4	4						6					25	7%	98%	100%	100%	
	Total EMR 2019	24581	1031	97	3588	19645	68	137	149	561	1		39	24		614	1	3	21	6	7	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	
	EV/SL	177	265	248	196	
	Negative	6	9	5	3	
	Pending			_	4	7
AFG Total		185	316	336	259	7
EGY	EV/SL	492	481	508	666	11
	Negative	36	41	32	34	
	Pending					22
EGY Total		528	522	540	700	33
IRN	Wild				3	
	EV/SL		5	51	65	
	Negative		1	3	3	
IRN Total			6	54	71	
JOR	EV/SL	2	29	36	33	
	Negative		2			
	Pending				3	3
JOR Total		2	31	36	36	3
KUW	EV/SL			3	3	
	Pending				8	
KUW Total	•			3	11	
LEB	EV/SL	2	26	44	37	
	Negative	2	1	1	3	
	Pending				7	
LEB Total		4	27	45	47	
PAK	Wild	60	106	139	368	12
	Wild+cVDPV2	2			7	
	cVDPV2	2			19	
	aVDPV2	3	4		1	
	EV/SL	456	523	531	411	4
	Negative	6		3	4	
	Pending				21	39
PAK Total		529	633	673	831	55
SOM	cVDPV2		2	19	5	
	cVDPV3			11		
	aVDPV2			2	1	
	EV/SL		20	43	28	
	Negative		14	138	31	2
	Pending					6
SOM Total			36	213	65	8
SUD	EV/SL			15	41	
	Negative				1	
	Pending				18	
SUD Total				15	60	
SYR	EV/SL		4	81	153	1
	Negative			21	30	3
	Pending				2	8
SYR Total			4	102	185	12
TOTAL		1248	1575	2017	2265	118

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
			FATA	9	15/Jan/19	31/Dec/19
			ISLAMABAD	3	12/Apr/19	21/Aug/19
			KPAKHTUNKHWA	31	8/Jan/19	28/Dec/19
			PUNJAB	97	5/Jan/19	17/Dec/19
			SINDH	156	2/Jan/19	20/Dec/19
		Wild+cVDPV2	PUNJAB	4	6/Aug/19	15/Nov/19
			SINDH	3	7/Oct/19	7/Nov/19
		cVDPV2	GBALTISTAN	5	24/Aug/19	6/Nov/19
			ISLAMABAD	1	12/Nov/19	12/Nov/19
			KPAKHTUNKHWA	6	9/Oct/19	27/Nov/19
			PUNJAB	7	21/Aug/19	16/Dec/19
		aVDPV2	PUNJAB	1	11/Apr/19	11/Apr/19
	PAK Total			395	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				460	1/Jan/19	31/Dec/19
2020	PAK	Wild	BALOCHISTAN	3	1/Jan/20	2/Jan/20
			PUNJAB	2	4/Jan/20	4/Jan/20
			SINDH	7	3/Jan/20	9/Jan/20
	PAK Total			12	1/Jan/20	9/Jan/20
2020 Total				12	1/Jan/20	9/Jan/20

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Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2020 - 26/01/2020

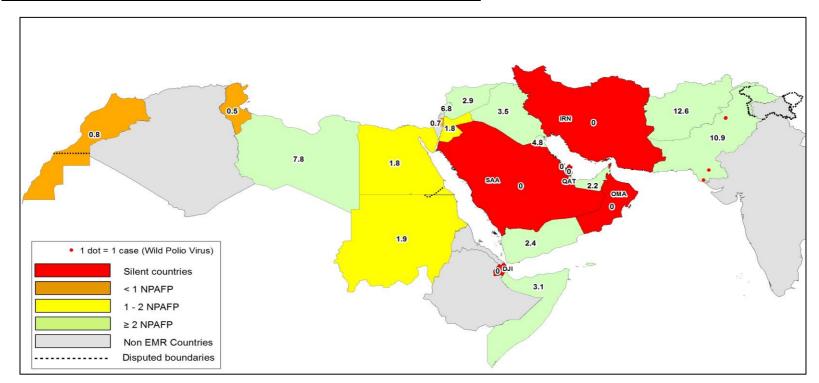


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2020 - 26/01/2020

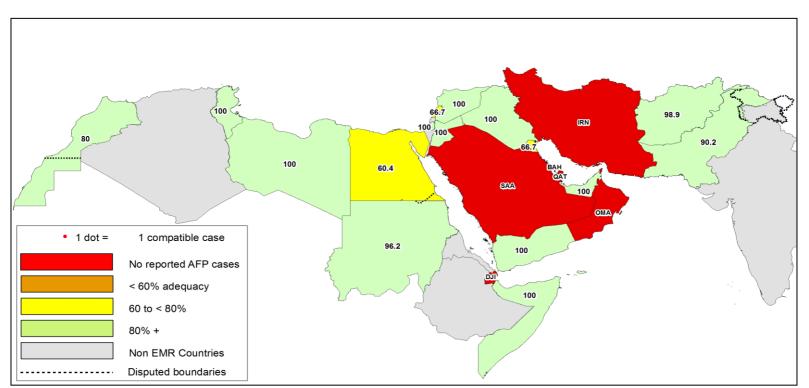


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2019 - 2020

Year	COUNTRY	Count	First Case	Last Case
2020	PAK	4	3-Jan-20	7-Jan-20
2020 Tot	al	4	3-Jan-20	7-Jan-20
2019	AFG	29	4-Jan-19	7-Dec-19
	PAK	139	15-Jan-19	31-Dec-19
2019 Tot	al	168	4-Jan-19	31-Dec-19

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Figure 3: Non Polio AFP rate by Province in Afghanistan & by District in Pakistan 01/01/2020 - 26/01/2020

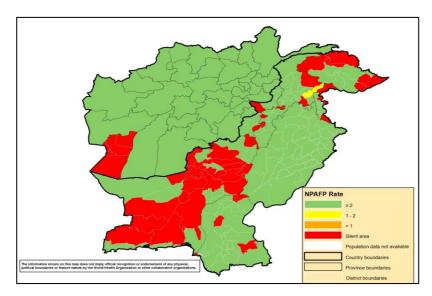


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2020 - 26/01/2020

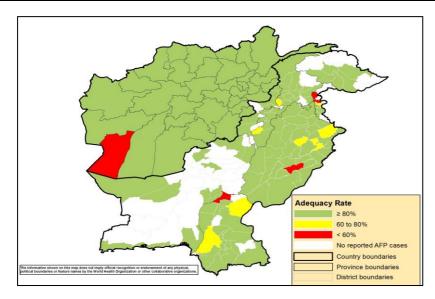
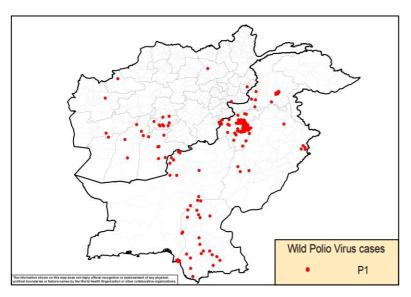
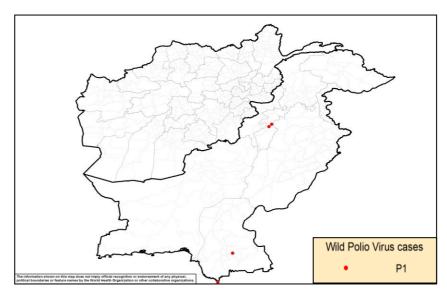


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5(b) 01/01/2020 - 26/01/2020



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

	,		, pananyone, r	9	
ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2019	KANDAHAR	SHAHWALIKOT	1	7-Dec-19	7-Dec-19
		SPINBOLDAK	2	4-Jan-19	22-Nov-19
		KANDAHAR	2	17-Aug-19	10-Nov-19
		GHORAK	1	12-Jan-19	12-Jan-19
	FARAH	BAKWA	2	14-Nov-19	25-Nov-19
	HIRAT	PASHTUNZARGHUN	1	19-Nov-19	19-Nov-19
	BAGHLAN	PUL-E- KHUMRI	1	14-Nov-19	14-Nov-19
	URUZGAN	KHASURUZGAN	1	2-Nov-19	2-Nov-19
		TIRINKOT	4	19-May-19	2-Aug-19
		CHORA	3	20-Mar-19	23-Jul-19
		SHAHID-E-HASSAS	1	25-Feb-19	25-Feb-19
	BADGHIS	BALAMURGHAB	1	17-Oct-19	17-Oct-19
	PAKTIKA	BERMEL	2	15-Sep-19	28-Sep-19
	NANGARHAR	KHOGYANI	1	18-Sep-19	18-Sep-19
	HILMAND	GARMSER	1	26-May-19	26-May-19
		MUSAQALAH	1	5-May-19	5-May-19
		NAWZAD	1	3-Apr-19	3-Apr-19
		WASHER	1	23-Mar-19	23-Mar-19
		SANGIN	1	6-Mar-19	6-Mar-19
	KUNAR	WATAPUR	1	8-May-19	8-May-19
2019 Total			29	4-Jan-19	7-Dec-19

Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2019-2020

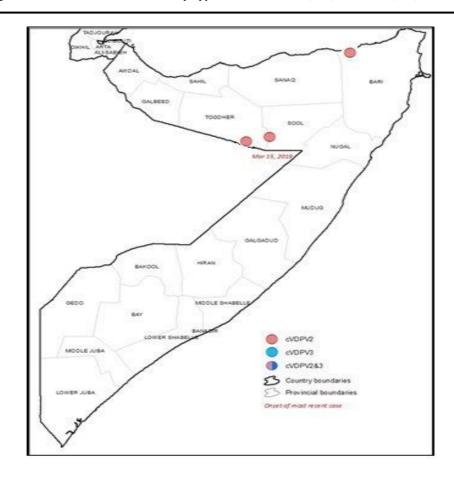
ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2020	SINDH	SUJAWAL	1	7-Jan-20	7-Jan-20
		T.ALLAHYAR	1	7-Jan-20	7-Jan-20
	KHYBER PAKHTUNKHWA	LAKKIMRWT	2	3-Jan-20	4-Jan-20
2020 Total			4	3-Jan-20	7-Jan-20
2019	BALOCHISTAN	KABDULAH	5	9-Jun-19	31-Dec-19
		JAFARABAD	3	28-May-19	18-Dec-19
		NSIRABAD	1	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
	KHYBER PAKHTUNKHWA	LAKKIMRWT	32	27-May-19	31-Dec-19
		DIKHAN	4	5-May-19	21-Dec-19
		TANK	6	11-Oct-19	18-Dec-19
		BANNU	26	15-Jan-19	30-Nov-19
		SWABI	1	17-Nov-19	17-Nov-19
		TORGHAR	7	25-May-19	13-Sep-19
		HANGU	2	20-Jan-19	28-Jul-19
		CHARSADA	1	21-Jul-19	21-Jul-19
		SHANGLA	1	18-May-19	18-May-19
	SINDH	DADU	2	6-Dec-19	26-Dec-19
		THATTA	1	26-Dec-19	26-Dec-19
		JAMSHORO	3	23-Aug-19	22-Dec-19
		KAMBAR	3	2-Nov-19	14-Dec-19
		MIRPURKHAS	3	17-Nov-19	1-Dec-19
		BADIN	1	28-Nov-19	28-Nov-19
		T.ALLAHYAR	1	10-Nov-19	10-Nov-19
		LARKANA	2	17-Apr-19	9-Nov-19
		KHIKAMARI	1	29-Oct-19	29-Oct-19
		SUKKUR	1	27-Oct-19	27-Oct-19
		KHIJAMSHEED	1	24-Oct-19	24-Oct-19
		SBENAZIRABAD	1	19-Oct-19	19-Oct-19
		SUJAWAL	1	25-Sep-19	25-Sep-19
		KHIORANGI	2	20-Aug-19	26-Aug-19
		HYDERABAD	2	20-Jul-19	5-Aug-19
		KHIGIQBAL	1	29-Apr-19	29-Apr-19
		KHILAYARI	1	25-Feb-19	25-Feb-19
	PUNJAB	DGKHAN	2	18-Dec-19	25-Dec-19
		MUZFARGARH	1	26-Nov-19	26-Nov-19
		LAHORE	4	20-Jan-19	22-Jun-19
	<u> </u>	JHELUM	1	21-Jun-19	21-Jun-19
	KP TRIBAL DISTRICTS	MOHMAND	1	20-Dec-19	20-Dec-19
		WAZIR-S	1	20-Aug-19	20-Aug-19
		WAZIR-N	8	4-Apr-19	21-Jul-19
		KHYBER	1	14-Feb-19	14-Feb-19
		BAJOUR	1	18-Jan-19	18-Jan-19
2019 Total			139	15-Jan-19	31-Dec-19

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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	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				25	15-Mar-19	28-Dec-19

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



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Sabin like type-2 poliovirus isolates (H&E) and vaccine types used during SIAs, EMRO, 2016 to 2019

