

Highlights of Polio Fax Bulletin No. 1143 for Week 35 2020

I. Salient features

1. Polio eradication teams at the Regional and Country levels are contributing into COVID19 Response, particularly in areas of surveillance (field and laboratory), data analysis, communications and coordination.
2. Wild Poliovirus Type-1 (WPV1):
 - Three new wild poliovirus cases reported this week from Afghanistan.
 - Six new WPV1 positive environmental samples reported this week, one from Afghanistan and five from Pakistan.
3. Vaccine Derived Poliovirus (VDPV):
 - cVDPV1:
 - No new cases reported this week.
 - cVDPV2:
 - 14 new cVDPV2 cases reported this week; 13 from Afghanistan and 1 from Somalia.
 - No new cVDPV2 positive environmental samples reported this week.

II. Wild Poliovirus Transmission

Endemic countries (Pakistan & Afghanistan): Total WPV1 cases in 2020 to date is 105 (40 from Afghanistan and 65 from Pakistan). This compares with 87 cases in 2019 in the same period (17 from Afghanistan and 70 from Pakistan).

• Afghanistan:

Human samples: Three new WPV1 cases reported this week and their details are as follows:

Case (1): Reported from Spinboldak district, Kandahar province, with date of onset 25 July 2020. The case is of a 22-month old female child. The child reportedly received 7+ OPV doses from supplementary immunization activities (SIAs) and none from routine.

Case (2): Reported from Kajaki district, Hilmand province, with date of onset 27 July 2020. The case is of a 21-month old male child. The child reportedly received 2 OPV doses from SIAs and none from routine.

Case (3): Reported from Spera district, Khost province, with date of onset 1 August 2020. The case is of a 20-month old female child. The child reportedly received 7 OPV doses out of which 1 was from routine and 6 from SIAs.

In 2020, 40 WPV1 cases are reported so far - 13 cases from Hilmand province; nine from Kandahar province, four each from Farah and Uruzgan provinces; 2 from Herat province; and one each from Zabul, Nimroz, Laghman, Kunar, Badakhshan, Balkh, Badghis and Khost provinces. **The most recent case has onset of paralysis on 1 August 2020.**

• Pakistan:

Human samples: No new wild poliovirus cases reported this week.

In 2020, 65 WPV1 cases are reported so far, 22 cases from Khyber Pakhtunkhwa (KP) province, 21 from Sindh, 16 from Balochistan and 6 from Punjab province. **The most recent case has onset of paralysis on 24 July 2020.**

b. *Environmental samples:* 6 new WPV1 positive environmental samples reported this week, one from Afghanistan and five from Pakistan.

- Afghanistan: In 2020 to date, there are 26 WPV1 positive environmental samples including two combined (WPV1 and cVDPV2) with most recent sample collected on 3 August 2020.
- Pakistan: In 2020 to date, there are 294 WPV1 positive environmental samples including 28 combined (WPV1 and cVDPV2) and 3 combined (WPV1 and aVDPV2) with most recent positive sample collected on 12 August 2020.

III.

Vaccine Derived Polioviruses (VDPVs): Total cVDPV2 cases in 2020 to date is 137 (69 from Afghanistan, 52 from Pakistan, 3 from Somalia and 13 from Sudan). This compares with 4 cases in 2019 in the same period (1 from Pakistan and 3 from Somalia).

1. **Afghanistan:** 13 new cVDPV2 cases and no positive environmental samples reported this week.

Human samples: The 13 new cVDPV2 cases are from Kunar province (Chapadara -1, Chawkay -1 & Sarkani -1); Laghman province (Alingar -2 & Mehterlam -1); Nangarhar province (Chaparhar -2, Muhmand Dara -1 & Achin -1); Nuristan

province (Nurgram -1); Khost province (Khost-Matun -1); and Nimroz province (Khashrod -1). The dates of onset of cases vary between 23 June and 15 July 2020.

In 2020 to date, there are 69 cVDPV2 cases; 42 reported from Nangarhar province, 11 from Laghman province, 7 from Kunar province, 2 each from Kabul and Nuristan provinces and one each from Badakhshan, Farah, Paktya, Khost and Nimroz provinces and with **most recent case's onset on 17 July 2020.**

Environment: In 2020 to date, 55 cVDPV2 positive environmental samples including 2 combined (WPV1 and cVDPV2) were reported: 32 from Jalalabad, 8 from Batikot, 2 from Behsud districts, Nangarhar province, 6 from Kabul district, Kabul province, 3 from Asadabad district, Kandahar province and one from Khost (Matun), Khost province; with **most recent collection on 9 July 2020.**

2. **Pakistan:** No new VDPV cases or positive environmental samples were reported this week.

Human samples: In 2020 to date, there are 52 cVDPV2 cases reported. Cases include 42 from KP province, 6 from Punjab province, 3 from Sindh province and 1 from Balochistan province, with most recent case's onset on 11 June 2020. In addition to 3 aVDPV2 cases all from Punjab province, with most recent case's onset on 19 July 2020.

Environment: In 2020, there are 39 positive environmental samples for cVDPV2 so far (including 28 combined WPV1 and cVDPV2), the most recent sample collected on 15 July 2020. Also, there are four aVDPV2 isolates detected in the environment samples, which include three combined (WPV1 + aVDPV2). The most recent aVDPV2 positive environmental sample was collected on 10 April 2020.

3. **SOMALIA:** One new cVDPV2 case reported this week and no new positive environmental samples were reported. The new cVDPV2 was reported from Dharkenley district, Banadir province, with date of onset 18 July 2020.

In 2020 to date: Three cVDPV2 cases reported from Abdul Aziz, Shibis and Dharkenley districts, Banadir province, with **most recent date of onset 18 July 2020.** Also there are 17 cVDPV2 positive environmental samples reported, the most recent collected on 21 June 2020.

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

In 2020 to date: 13 cVDPV2 cases were reported, with **most recent case's onset on 9 July 2020.**

In addition, there are 3 cVDPV2 positive environmental samples reported from Soba, Elgoz and Hawasha sites from Khartoum province, the most recent collected on 29 March 2020.

5. **YEMEN:** 14 confirmed (not new) cVDPV1 cases reported in 2020.

The 14 cVDPV1 confirmed cases are all from Saadah province, 5 from Kitaf Wa Buga district, 3 each from Sahar and Al Safrah districts, and one each from Sageen, Saadh City and Majz districts. The dates of onset vary between 31 January to 5 June 2020.

IV. Surveillance performance indicators

In 2020, 13 out 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 is missing both indicators and has not reported any AFP case in 2020 to date.
- Morocco and Tunisia are, also, missing both indicators as their non-polio AFP rates are 1.3 and 1.4 and their percentage of AFP cases with adequate stool specimens is 67.6% and 66.7%, respectively.
- Jordan, Oman, Palestine, Qatar, Saudi Arabia and United Arab Emirates have a non-polio AFP rate of 1.0, 1.6, 0.8, 0.4, 1.3 and 1.8 respectively.

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

| Country | Reported AFP cases by week of onset - Week (35/20) / Ending on : 30/08/2020 | | | | | | | | | | | | | | |
|------------------|---|----------------|-------------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | Total AFP 2018 | Total AFP 2019 | Total AFP to date, 2020 | W24 14 Jun 20 | W25 21 Jun 20 | W26 28 Jun 20 | W27 5 Jul 20 | W28 12 Jul 20 | W29 19 Jul 20 | W30 26 Jul 20 | W31 02 Aug 20 | W32 09 Aug 20 | W33 16 Aug 20 | W34 23 Aug 20 | W35 30 Aug 20 |
| Afghanistan | 3378 | 3768 | 2286 | 83 | 78 | 94 | 87 | 91 | 93 | 70 | 65 | 91 | 65 | 37 | 4 |
| Bahrain | 35 | 17 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Djibouti | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Egypt | 1246 | 1343 | 577 | 18 | 20 | 20 | 11 | 12 | 16 | 14 | 7 | 14 | 23 | 22 | 7 |
| Iran | 896 | 1070 | 368 | 7 | 7 | 9 | 7 | 6 | 9 | 13 | 8 | 7 | 2 | 1 | |
| Iraq | 1023 | 1157 | 287 | 6 | 8 | 2 | 2 | 4 | 7 | 1 | 3 | 2 | 3 | 4 | |
| Jordan **** | 115 | 113 | 26 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | |
| Kuwait | 72 | 48 | 22 | 1 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | |
| Lebanon **** | 89 | 87 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | |
| Libya | 122 | 107 | 72 | 1 | 1 | 0 | 3 | 3 | 0 | 0 | 1 | 3 | 5 | 5 | 1 |
| Morocco | 212 | 247 | 74 | 2 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | |
| Oman | 28 | 30 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| Pakistan | 12276 | 15216 | 7067 | 149 | 146 | 133 | 145 | 163 | 179 | 166 | 164 | 197 | 192 | 78 | 1 |
| Palestine **** | 44 | 62 | 10 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Qatar | 10 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Saudi Arabia | 242 | 236 | 71 | 2 | 0 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | | |
| Somalia | 353 | 361 | 251 | 7 | 11 | 5 | 5 | 6 | 6 | 10 | 3 | 6 | 6 | 1 | 0 |
| Sudan | 579 | 608 | 290 | 12 | 10 | 8 | 7 | 11 | 12 | 12 | 8 | 16 | 14 | 6 | |
| Syria **** | 362 | 377 | 236 | 22 | 4 | 11 | 12 | 8 | 3 | 5 | 4 | 6 | 2 | 3 | 0 |
| Tunisia | 68 | 79 | 24 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | |
| U.A.E | 40 | 50 | 15 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Yemen | 730 | 779 | 423 | 8 | 9 | 13 | 18 | 12 | 18 | 13 | 9 | 14 | 13 | 10 | 1 |
| Total EMR | 21920 | 25769 | 12154 | 321 | 296 | 307 | 301 | 320 | 346 | 310 | 275 | 363 | 329 | 168 | 14 |

No data = No report received

Table 2: Confirmed polio cases by month of onset

| Country | Total year 2018 | Total year 2019 | 30/08 | | Confirmed polio cases by month of onset | | | | | | | | | | | |
|------------------|-----------------|-----------------|-----------|------------|---|--------------|---------------|---------------|--------------|---------------|------------|------------|-----------|-----------|-----------|-------------|
| | | | 2019 | 2020 | September 2019 | October 2019 | November 2019 | December 2019 | January 2020 | February 2020 | March 2020 | April 2020 | May 2020 | June 2020 | July 2020 | August 2020 |
| Afghanistan | 21 | 29 | 17 | 40 | 3 | 1 | 7 | 1 | 2 | 3 | 7 | 0 | 12 | 10 | 5 | 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 | | | |
| 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 | | | |
| 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 | | | | |
| 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 | | |
| Pakistan | 12 | 147 | 70 | 65 | 5 | 17 | 23 | 32 | 18 | 17 | 7 | 6 | 6 | 6 | 5 | |
| 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 | 0 | |
| Somalia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | |
| Sudan | 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 | | | | |
| Yemen | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Total EMR | 33 | 176 | 87 | 105 | 8 | 18 | 30 | 33 | 20 | 20 | 14 | 6 | 18 | 16 | 10 | 1 |

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

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Table 3: Investigation of AFP cases with paralysis onset in 2019 & 2020 up to Week (35/20) / Ending on : 30/08/2020

| 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 | 2286 | 40 | 0 | 272 | 1905 | 70 | 16.0 | 27 | 1 | 94.5 | 40 | 0 | 27/08/2020 |
| Bahrain | 17 | 0 | 0 | 0 | 17 | 0 | 5.9 | 0 | 0 | 100.0 | 0 | 0 | 10 | 0 | 0 | 4 | 6 | 0 | 5.2 | 4 | 0 | 90.0 | 0 | 0 | 23/08/2020 |
| Djibouti | 5 | 0 | 0 | 0 | 5 | 0 | 1.4 | 0 | 0 | 80.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | | 0 | 0 | 16/08/2019 |
| Egypt | 1343 | 0 | 0 | 0 | 1343 | 0 | 3.6 | 0 | 0 | 93.4 | 0 | 0 | 577 | 0 | 0 | 85 | 492 | 0 | 2.2 | 0 | 0 | 89.1 | 0 | 0 | 27/08/2020 |
| Iran | 1070 | 0 | 0 | 0 | 1069 | 1 | 5.2 | 0 | 0 | 97.1 | 0 | 0 | 368 | 0 | 0 | 7 | 361 | 0 | 2.7 | 0 | 0 | 99.2 | 0 | 0 | 29/08/2020 |
| Iraq | 1157 | 0 | 0 | 0 | 1157 | 0 | 7.4 | 0 | 0 | 94.3 | 0 | 0 | 287 | 0 | 0 | 18 | 269 | 0 | 2.7 | 1 | 0 | 90.9 | 0 | 0 | 28/08/2020 |
| Jordan | 113 | 0 | 0 | 0 | 113 | 0 | 3.9 | 0 | 0 | 100.0 | 0 | 0 | 26 | 0 | 0 | 1 | 25 | 0 | 1.0 | 0 | 0 | 100.0 | 0 | 0 | 27/08/2020 |
| Kuwait | 48 | 0 | 0 | 0 | 48 | 0 | 5.4 | 0 | 0 | 89.6 | 0 | 0 | 22 | 0 | 0 | 4 | 18 | 0 | 3.7 | 1 | 0 | 86.4 | 0 | 0 | 23/08/2020 |
| Lebanon | 87 | 0 | 0 | 0 | 87 | 0 | 4.7 | 0 | 0 | 89.7 | 0 | 0 | 32 | 0 | 0 | 6 | 26 | 0 | 2.6 | 2 | 1 | 93.8 | 0 | 0 | 28/08/2020 |
| Libya | 107 | 0 | 0 | 0 | 107 | 0 | 4.3 | 0 | 0 | 98.1 | 0 | 0 | 72 | 0 | 0 | 26 | 45 | 1 | 4.2 | 2 | 2 | 100.0 | 0 | 0 | 29/08/2020 |
| Morocco | 247 | 0 | 0 | 0 | 247 | 0 | 2.8 | 0 | 0 | 84.2 | 0 | 0 | 74 | 0 | 0 | 31 | 43 | 0 | 1.3 | 21 | 6 | 67.6 | 0 | 0 | 28/08/2020 |
| Oman | 30 | 0 | 0 | 0 | 30 | 0 | 2.7 | 0 | 0 | 80.0 | 0 | 0 | 12 | 0 | 0 | 1 | 11 | 0 | 1.6 | 0 | 0 | 100.0 | 0 | 0 | 26/08/2020 |
| Pakistan | 15216 | 147 | 6 | 0 | 15040 | 23 | 19.3 | 0 | 0 | 86.6 | 147 | 0 | 7067 | 65 | 6 | 796 | 6145 | 55 | 13.5 | 206 | 0 | 88.1 | 65 | 0 | 30/08/2020 |
| Palestine | 62 | 0 | 0 | 0 | 62 | 0 | 3.5 | 0 | 0 | 98.4 | 0 | 0 | 10 | 0 | 0 | 4 | 6 | 0 | 0.8 | 1 | 0 | 100.0 | 0 | 0 | 30/08/2020 |
| Qatar | 9 | 0 | 0 | 0 | 9 | 0 | 2.2 | 0 | 0 | 88.9 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0.4 | 0 | 0 | 100.0 | 0 | 0 | 29/08/2020 |
| Saudi Arabia | 236 | 0 | 0 | 0 | 236 | 0 | 2.8 | 0 | 0 | 93.2 | 0 | 0 | 71 | 0 | 0 | 16 | 55 | 0 | 1.3 | 1 | 0 | 94.4 | 0 | 0 | 20/08/2020 |
| Somalia | 361 | 0 | 0 | 0 | 358 | 3 | 5.7 | 0 | 0 | 95.6 | 0 | 0 | 251 | 0 | 0 | 23 | 224 | 4 | 4.7 | 3 | 3 | 96.8 | 0 | 0 | 30/08/2020 |
| Sudan | 608 | 0 | 0 | 0 | 608 | 0 | 3.4 | 0 | 0 | 96.4 | 0 | 0 | 290 | 0 | 0 | 47 | 230 | 13 | 2.3 | 3 | 2 | 95.9 | 0 | 0 | 27/08/2020 |
| Syria | 377 | 0 | 0 | 0 | 377 | 0 | 4.8 | 0 | 0 | 88.1 | 0 | 0 | 236 | 0 | 0 | 15 | 221 | 0 | 4.5 | 0 | 0 | 91.5 | 0 | 0 | 30/08/2020 |
| Tunisia | 79 | 0 | 0 | 0 | 78 | 1 | 2.9 | 0 | 0 | 74.7 | 0 | 0 | 24 | 0 | 0 | 8 | 16 | 0 | 1.4 | 2 | 2 | 66.7 | 0 | 0 | 28/08/2020 |
| U.A.E | 50 | 0 | 0 | 0 | 50 | 0 | 4.0 | 0 | 0 | 90.0 | 0 | 0 | 15 | 0 | 0 | 4 | 11 | 0 | 1.8 | 1 | 1 | 100.0 | 0 | 0 | 25/08/2020 |
| Yemen | 779 | 0 | 0 | 7 | 771 | 1 | 5.5 | 7 | 4 | 89.0 | 0 | 0 | 423 | 0 | 0 | 278 | 131 | 14 | 4.5 | 134 | 123 | 91.0 | 0 | 0 | 29/08/2020 |
| EMR | 25769 | 176 | 7 | 7 | 25550 | 29 | 10.2 | 7 | 4 | 89.5 | 176 | 0 | 12154 | 105 | 6 | 1647 | 10240 | 157 | 7.0 | 409 | 141 | 90.3 | 105 | 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 | 620 | 14 | 13 | 24 | 88 | 61 |
| BAH | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| DJI | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EGY | 498 | 0 | 0 | 8 | 57 | 0 | 148 | 0 | 0 | 8 | 6 | 13 |
| IRN | 216 | 0 | 0 | 4 | 7 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| IRQ | 603 | 0 | 0 | 12 | 39 | 6 | 137 | 0 | 0 | 0 | 8 | 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 | 24 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LIB | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MOR | 85 | 0 | 0 | 3 | 1 | 30 | 8 | 0 | 0 | 0 | 0 | 4 |
| OMA | 78 | 0 | 0 | 2 | 28 | 0 | 40 | 0 | 0 | 2 | 6 | 5 |
| PAK | 5497 | 26 | 9 | 248 | 959 | 0 | 2873 | 16 | 6 | 232 | 405 | 140 |
| 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 | 9 | 0 | 0 | 1 | 0 | 0 |
| SOM | 1081 | 0 | 1 | 45 | 141 | 5 | 751 | 0 | 1 | 14 | 86 | 78 |
| SUD | 402 | 0 | 0 | 1 | 31 | 90 | 131 | 0 | 0 | 0 | 2 | 103 |
| SYR | 813 | 0 | 0 | 23 | 36 | 0 | 243 | 0 | 0 | 11 | 9 | 6 |
| TUN | 27 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| UAE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| YEM | 423 | 0 | 2 | 6 | 68 | 6 | 150 | 0 | 0 | 0 | 20 | 108 |
| EMR | 10936 | 34 | 12 | 401 | 1577 | 137 | 5122 | 30 | 20 | 292 | 630 | 525 |

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 | 16 | 31/Jul/20 |
| 2020 Total | | 30 | 31/Jul/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 | | |
| | PAK | PUNJAB | LAHORE | 1 | 24-Jul-20 | 24-Jul-20 | | |
| 2019 | AFG | HILMAND | TIRINKOT | 1 | 02-Aug-19 | 02-Aug-19 | | |
| | | | MUSAQALAH | 1 | 05-Jun-19 | 05-Jun-19 | | |
| | | | SANGIN | 1 | 06-Mar-19 | 06-Mar-19 | | |
| | | | PAK | PUNJAB | DG KHAN | 2 | 2-Dec-19 | 10-Dec-19 |
| | | | | | KHIORANGI | 1 | 28-Aug-19 | 28-Aug-19 |
| | | | | | SUJAWAL | 1 | 25-Sep-19 | 25-Sep-19 |
| | | | | | JAMSHORO | 1 | 09-Oct-19 | 09-Oct-19 |
| | | | | | 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 |
| | SINDH | LARKANA | 1 | 24-Dec-19 | 24-Dec-19 | | | |
| | | JACOBABAD | 1 | 19-Dec-19 | 19-Dec-19 | | | |
| | | BALOCHSITAN | 1 | 18-Nov-19 | 18-Nov-19 | | | |
| | PAK | KHYBER PAKHTUNKHWA (KP) | 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 | | |
| 2019 Total | | | | 24 | 06-Mar-19 | 24-Dec-19 | | |

Table 5: Laboratory investigation of AFP cases with paralysis onset in 2020 up to Week (35/2020) / Ending on : (30/08/2020)

| 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 | 2245 | 208 | 18 | 275 | 1568 | 176 | | 37 | 81 | | | 3 | 65 | | 76 | | | 2 | | 6 | 12% | 90% | 100% | 98% | 30/08/2020 |
| Bahrain | NPL Oman / CDC | 10 | | | 1 | 9 | | | | | | | | | | | | | | | | 9% | 100% | | 0% | 24/08/2020 |
| Djibouti | NPL Kenya / CDC | | | | | | | | | | | | | | | | | | | | | | | | | 16/08/2020 |
| Egypt*** | RRL Egypt | 551 | 17 | 7 | 40 | 444 | 40 | 3 | 17 | 8 | | | | | 10 | | | 4 | 3 | | 7% | 94% | 100% | 99% | 27/08/2020 | |
| Iran | NPL Iran / CDC | 382 | 5 | | 4 | 363 | 10 | | 3 | | | | | | 3 | | | | | | 1% | 100% | 100% | 100% | 29/08/2020 | |
| Iraq | RRL Egypt | 285 | | | 30 | 235 | 15 | 5 | | | | | | | | | | | | | 10% | 94% | 100% | 99% | 28/08/2020 | |
| Jordan | NPL Jordan / RRL EGYPT | 26 | | | 4 | 22 | | | | | | | | | | | | | | | 15% | 100% | | 100% | 27/08/2020 | |
| Kuwait | RRL Kuwait / RIVM | 24 | | | | 20 | 2 | 2 | | | | | | | | | | | | | 2% | 75% | | 95% | 27/08/2020 | |
| Lebanon | NPL Jordan / RRL EGYPT | 28 | | | 5 | 23 | | | | | | | | | | | | | | | 17% | 96% | | 100% | 27/08/2020 | |
| Libya | RRL Tunisia / RIVM | 51 | 4 | | | 47 | | | | | | | | | 3 | 1 | | | | | 0% | 100% | 100% | 76% | 16/07/2020 | |
| Morocco | NPL Morocco / RRL Tunisia | 59 | | | 1 | 58 | | | | | | | | | | | | | | | 1% | 100% | | 98% | 28/08/2020 | |
| Oman | NPL Oman / CDC | 12 | | | 2 | 9 | 1 | | | | | | | | | | | | | | 16% | 100% | | 100% | 24/08/2020 | |
| Pakistan | RRL Pakistan | 6960 | 478 | 39 | 827 | 5184 | 429 | 5 | 60 | 131 | | | 139 | 52 | 202 | | 1 | 1 | 1 | 16 | 11% | 94% | 99% | 97% | 30/08/2020 | |
| Palestine & UNRWA | | 10 | | | | 10 | | | | | | | | | | | | | | | 0% | 30% | | 100% | 30/08/2020 | |
| Qatar | NPL Oman / CDC | 1 | | | | 1 | | | | | | | | | | | | | | | 0% | 100% | | 100% | 26/08/2020 | |
| Saudi Arabia | NPL Saudi Arabia / CDC | 74 | | | | 70 | 4 | | | | | | | | | | | | | | 0% | 100% | | 100% | 23/08/2020 | |
| Somalia | NPL Kenya / CDC | 251 | 10 | 4 | 38 | 177 | 6 | 16 | 3 | 1 | | | 3 | | 9 | | | | | 1 | 18% | 6% | | 97% | 30/08/2020 | |
| Sudan | NPL Sudan / RRL Egypt | 241 | 13 | | 29 | 186 | | 13 | 1 | | | 16 | 13 | | | | | | | | 13% | 98% | 100% | 44% | 16/08/2020 | |
| Syria | NPL Syria / RRL Egypt | 231 | 11 | | 8 | 204 | 8 | | | | | | | | | | | | | | 3% | 100% | | | 27/08/2020 | |
| Tunisia | RRL Tunisia | 17 | | | | 17 | | | | | | | | | | | | | | | 0% | 100% | | 94% | 16/07/2020 | |
| U.A.E | NPL Oman / CDC | 10 | | | | 10 | | | | | | | | | | | | | | | 0% | 100% | | 60% | 24/08/2020 | |
| Yemen | NPL Kenya / CDC | 175 | 24 | | 30 | 95 | 26 | | 2 | 1 | | | | | 5 | | 7 | | 1 | 11 | 22% | 96% | 80% | 0% | 29/08/2020 | |
| Total EMR 2020 | | 11643 | 770 | 68 | 1294 | 8752 | 717 | 44 | 97 | 229 | 2 | 158 | 133 | 308 | 1 | 8 | 7 | 5 | 34 | | 11% | 92% | 99% | 96% | | |
| Total EMR 2019 | | 24920 | 1057 | 100 | 3669 | 20055 | | 26 | 152 | 576 | 1 | 46 | 25 | 629 | 1 | 3 | 21 | 6 | | | 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 | 24 |
| | Wild+cVDPV2 | | | | | 2 |
| | cVDPV2 | | | | | 53 |
| | EV/SL | 177 | 265 | 248 | 200 | 109 |
| | Negative | 6 | 9 | 5 | 3 | 3 |
| AFG Total | | 185 | 316 | 336 | 259 | 241 |
| EGY | EV/SL | 492 | 481 | 508 | 666 | 291 |
| | Negative | 36 | 41 | 32 | 34 | 39 |
| | Pending | | | | | 16 |
| | aVDPV3 | | | | | 1 |
| | aVDPV1 | | | | | 1 |
| EGY Total | | 528 | 522 | 540 | 700 | 348 |
| IRN | Wild | | | | 3 | |
| | EV/SL | | 5 | 51 | 65 | 18 |
| | Negative | | 1 | 3 | 3 | |
| | Pending | | | | | 2 |
| IRN Total | | | 6 | 54 | 71 | 20 |
| JOR | EV/SL | 2 | 29 | 36 | 36 | 11 |
| | Negative | | 2 | | | 1 |
| | Pending | | | | | 3 |
| JOR Total | | 2 | 31 | 36 | 36 | 15 |
| KUW | EV/SL | | | 3 | 3 | |
| | Pending | | | | 8 | |
| KUW Total | | | | 3 | 11 | |
| LEB | EV/SL | 2 | 26 | 44 | 44 | 9 |
| | Negative | 2 | 1 | 1 | 3 | 2 |
| LEB Total | | 4 | 27 | 45 | 47 | 11 |
| PAK | Wild | 59 | 105 | 139 | 367 | 263 |
| | Wild+cVDPV2 | 2 | | | 10 | 28 |
| | Wild+aVDPV2 | 1 | 1 | | 2 | 3 |
| | cVDPV2 | 2 | | | 25 | 11 |
| | aVDPV2 | 3 | 4 | | 2 | 1 |
| | EV/SL | 456 | 523 | 531 | 421 | 189 |
| | Negative | 6 | | 3 | 4 | 4 |
| PAK Total | | 529 | 633 | 673 | 831 | 538 |
| SOM | cVDPV2 | | 2 | 19 | 5 | 17 |
| | cVDPV3 | | | 11 | | |
| | aVDPV2 | | | 2 | 1 | |
| | EV/SL | | 20 | 43 | 28 | 8 |
| | Negative | | 14 | 138 | 29 | 21 |
| | Pending | | | | | 4 |
| SOM Total | | | 36 | 213 | 63 | 50 |
| SUD | cVDPV2 | | | | | 3 |
| | EV/SL | | | 15 | 42 | 10 |
| | Negative | | | | 1 | 2 |
| | Pending | | | | 17 | 15 |
| SUD Total | | | | 15 | 60 | 30 |
| SYR | EV/SL | | 4 | 81 | 155 | 110 |
| | Negative | | | 21 | 30 | 15 |
| | Pending | | | | | 7 |
| SYR Total | | | 4 | 102 | 185 | 132 |
| TOTAL | | 1248 | 1575 | 2017 | 2263 | 1385 |

Table 7: Environmental Wild/VPV 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 | BALUCHISTAN | 72 | 1/Jan/19 | 20/Dec/19 | | |
| | | | GBALTISTAN | 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 | | |
| | | | KPAKHTUNKHWA | 1 | 31/Dec/19 | 31/Dec/19 | | |
| | | | PUNJAB | 5 | 6/Aug/19 | 16/Dec/19 | | |
| | | | SINDH | 4 | 7/Oct/19 | 18/Dec/19 | | |
| | | | GBALTISTAN | 5 | 24/Aug/19 | 6/Nov/19 | | |
| | | | ISLAMABAD | 1 | 12/Nov/19 | 12/Nov/19 | | |
| | | | KPAKHTUNKHWA | 8 | 9/Oct/19 | 24/Dec/19 | | |
| | | | PUNJAB | 10 | 21/Aug/19 | 17/Dec/19 | | |
| | | | SINDH | 1 | 19/Dec/19 | 19/Dec/19 | | |
| PUNJAB | | | 2 | 11/Apr/19 | 18/Dec/19 | | | |
| PAK Total | | | 404 | 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 | | | 469 | 1/Jan/19 | 31/Dec/19 | | | |
| 2020 | AFG | Wild | HILMAND | 9 | 1/Jan/20 | 3/Aug/20 | | |
| | | | HIRAT | 2 | 26/Apr/20 | 27/May/20 | | |
| | | | KANDAHAR | 10 | 28/Jan/20 | 25/Jun/20 | | |
| | | | KHOST | 1 | 25/Apr/20 | 25/Apr/20 | | |
| | | | NANGARHAR | 2 | 26/Jan/20 | 25/Jul/20 | | |
| | | | KANDAHAR | 1 | 9/Jul/20 | 9/Jul/20 | | |
| | | | NANGARHAR | 1 | 8/Jan/20 | 8/Jan/20 | | |
| | | | HILMAND | 1 | 27/May/20 | 27/May/20 | | |
| | | | KABUL | 6 | 26/Apr/20 | 8/Jul/20 | | |
| | | | KANDAHAR | 1 | 9/Jul/20 | 9/Jul/20 | | |
| | | | KHOST | 1 | 24/Jun/20 | 24/Jun/20 | | |
| | | | KUNAR | 3 | 6/Jun/20 | 5/Jul/20 | | |
| | | | NANGARHAR | 41 | 7/Jan/20 | 6/Jul/20 | | |
| | | | AFG Total | | | 79 | 1/Jan/20 | 3/Aug/20 |
| | | | PAK | Wild | AJK | 1 | 25/Feb/20 | 25/Feb/20 |
| | BALUCHISTAN | 64 | | | 1/Jan/20 | 4/Aug/20 | | |
| | GBALTISTAN | 1 | | | 12/May/20 | 12/May/20 | | |
| | ISLAMABAD | 1 | | | 16/Jan/20 | 16/Jan/20 | | |
| | KPAKHTUNKHWA | 15 | | | 28/Jan/20 | 12/Aug/20 | | |
| | PUNJAB | 85 | | | 4/Jan/20 | 12/Aug/20 | | |
| | SINDH | 96 | | | 3/Jan/20 | 12/Aug/20 | | |
| | BALUCHISTAN | 3 | | | 1/Feb/20 | 2/Jul/20 | | |
| | KPAKHTUNKHWA | 1 | | | 11/Mar/20 | 11/Mar/20 | | |
| | PUNJAB | 5 | | | 4/Jan/20 | 5/Jun/20 | | |
| | SINDH | 19 | | | 3/Jan/20 | 15/Jul/20 | | |
| | PAK Total | | | | | 303 | 1/Jan/20 | 12/Aug/20 |
| | SOM | cVDPV2 | BANADIR | 15 | 5/Jan/20 | 21/Jun/20 | | |
| BAY | | | 2 | 19/Jun/20 | 20/Jun/20 | | | |
| SOM Total | | | 17 | 5/Jan/20 | 21/Jun/20 | | | |
| SUD | cVDPV2 | KHARTOUM | 3 | 29/Mar/20 | 29/Mar/20 | | | |
| | | SUD Total | 3 | 29/Mar/20 | 29/Mar/20 | | | |
| 2020 Total | | | 402 | 1/Jan/20 | 12/Aug/20 | | | |

Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2020 - 30/08/2020

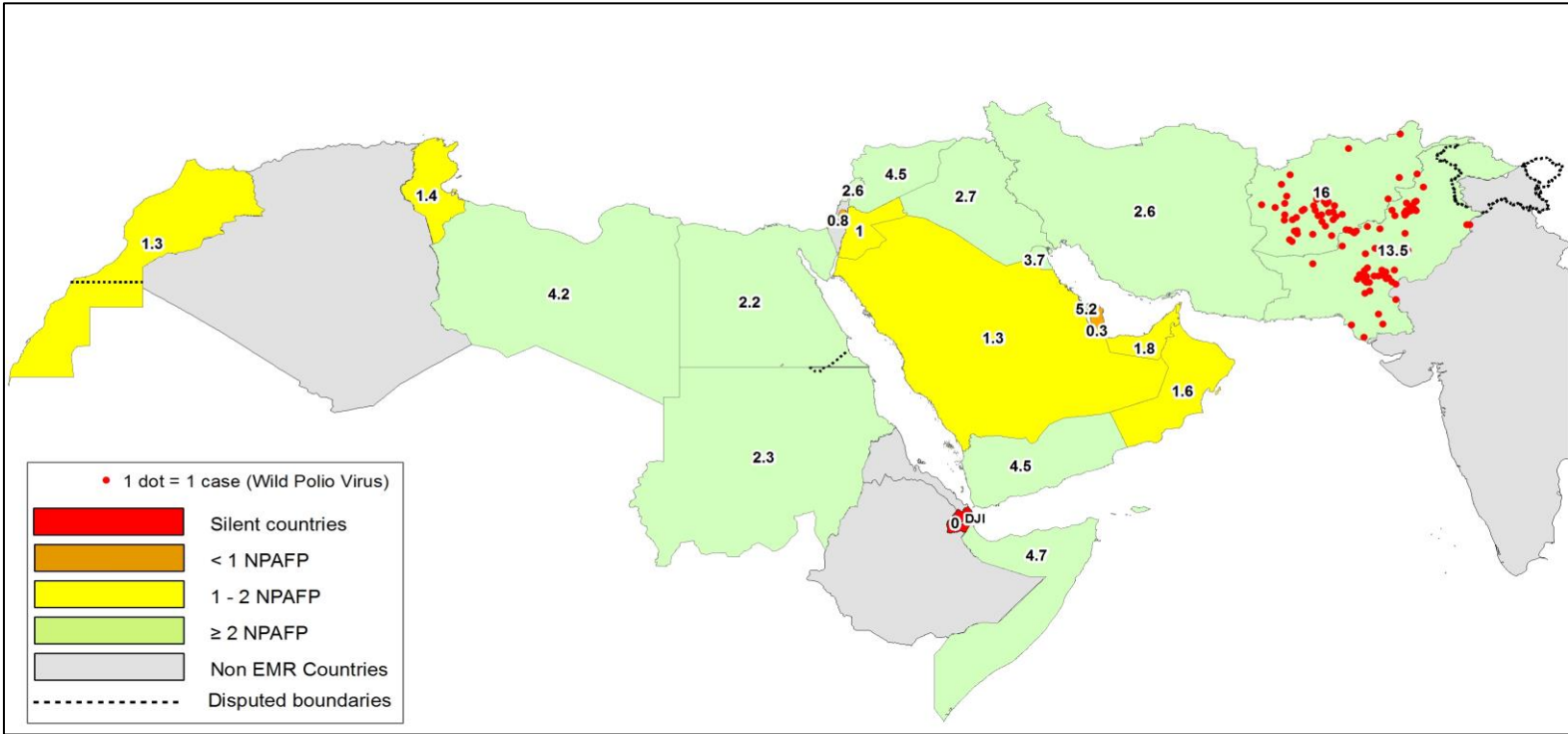


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2020 - 30/08/2020

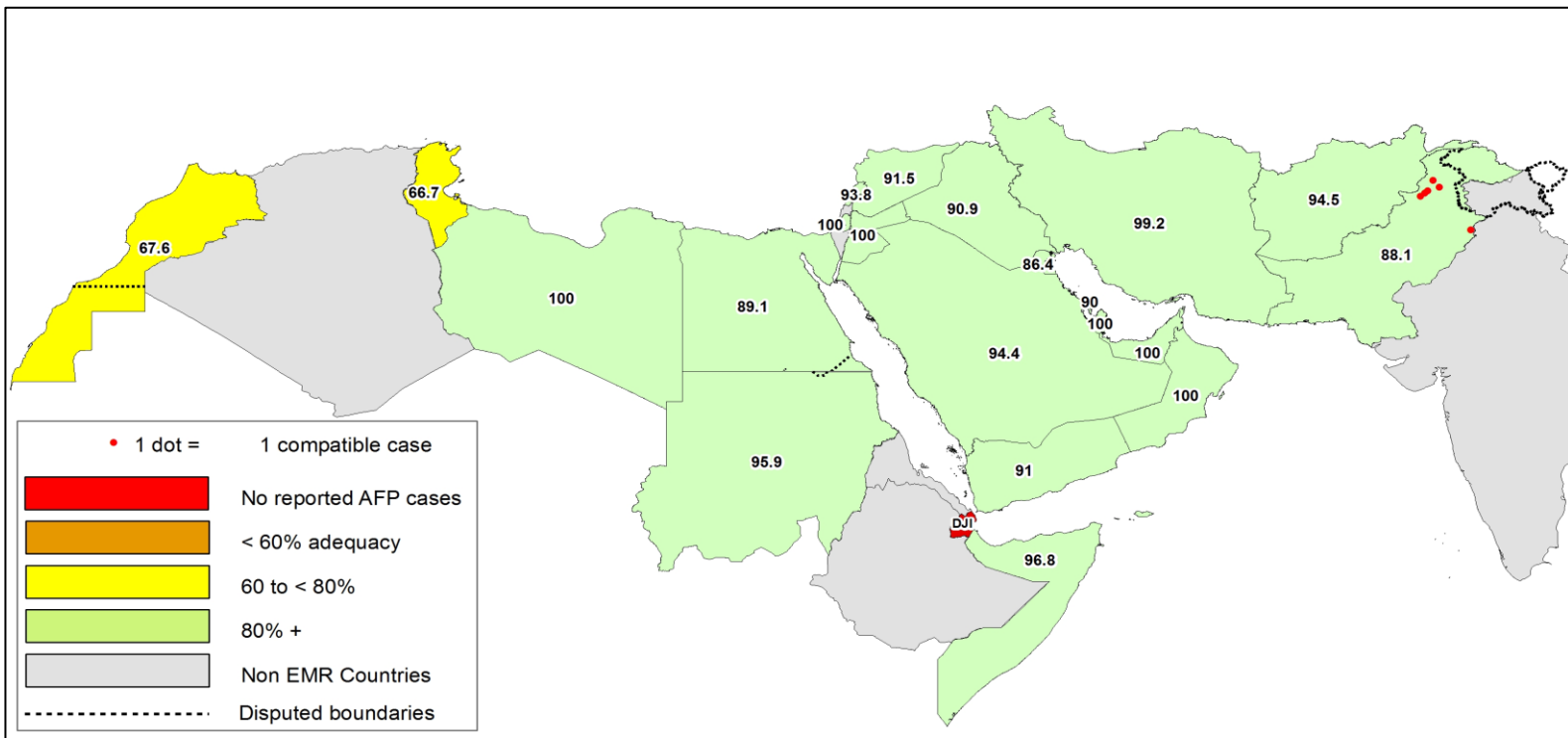


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2019 - 2020

| Year | COUNTRY | Count | First Case | Last Case |
|-------------------|---------|------------|-----------------|------------------|
| 2020 | AFG | 40 | 4-Jan-20 | 1-Aug-20 |
| | PAK | 65 | 1-Jan-20 | 24-Jul-20 |
| 2020 Total | | 105 | 1-Jan-20 | 1-Aug-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 - 30/08/2020

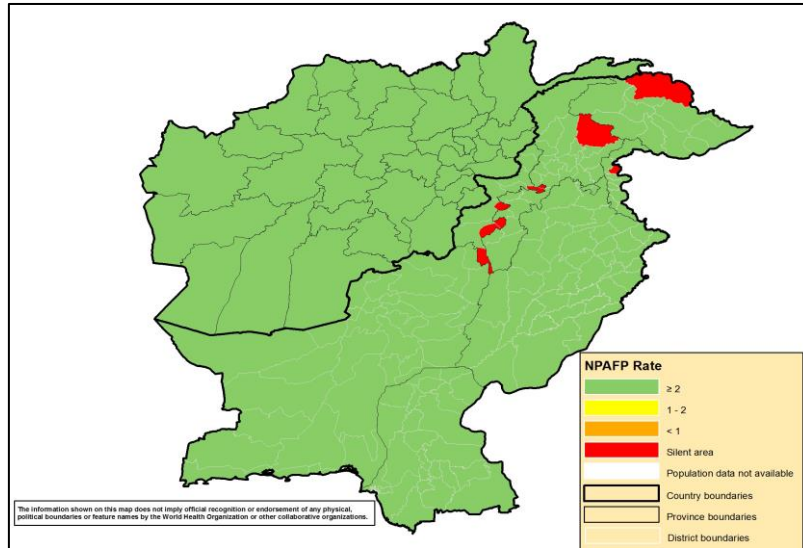


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2020 - 30/08/2020

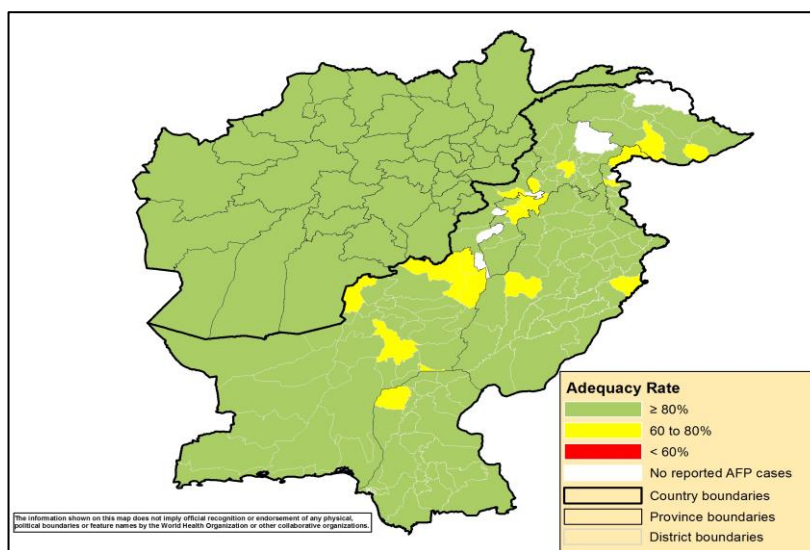
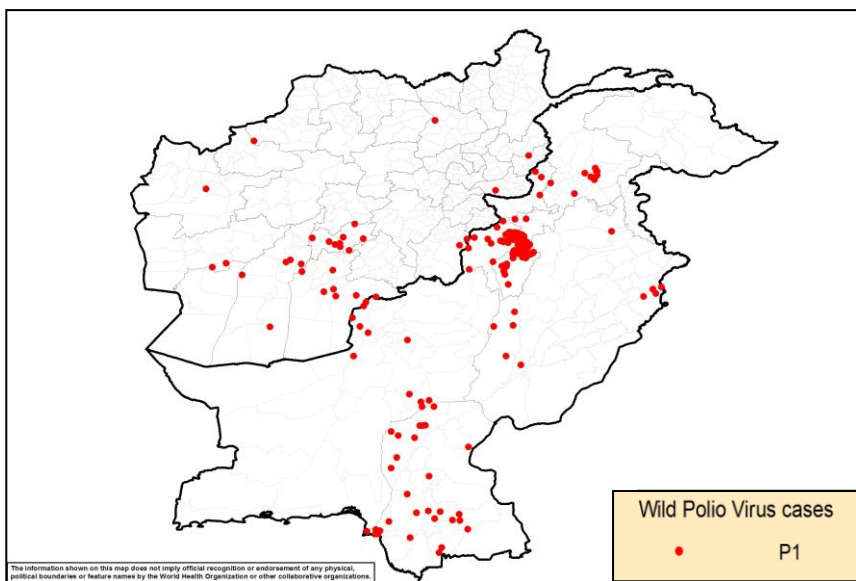
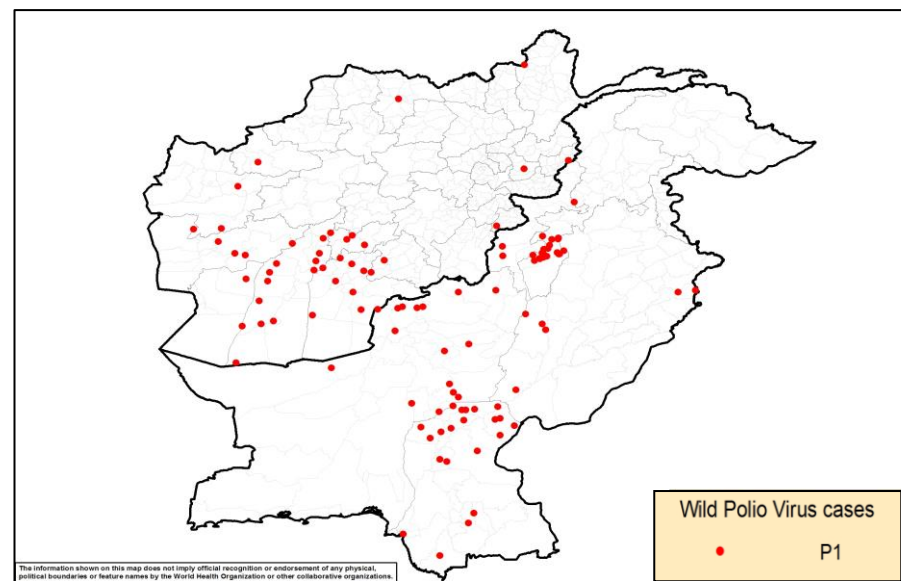


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5(b) 01/01/2020 - 30/08/2020



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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 | QADIS | 1 | 13-May-20 | 13-May-20 |
| | KUNAR | SHIGAL WA SHEL TAN | 1 | 5-Mar-20 | 5-Mar-20 |
| | LAGHMAN | MEHTARLAM | 1 | 10-Feb-20 | 10-Feb-20 |
| | KHOST | SPERA | 1 | 1-Aug-20 | 1-Aug-20 |
| | KANDAHAR | SPINBOLDAK | 1 | 25-Jul-20 | 25-Jul-20 |
| | | ZHERAY | 1 | 20-Jul-20 | 20-Jul-20 |
| | | KANDAHAR | 1 | 22-Jun-20 | 22-Jun-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 | MIZAN | 1 | 21-Jan-20 | 21-Jan-20 |
| | HILMAND | KAJAKI | 2 | 10-Jun-20 | 27-Jul-20 |
| | | BAGHRAN | 1 | 16-Jul-20 | 16-Jul-20 |
| | | WASHER | 2 | 4-Jan-20 | 13-Jun-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 |
| | | NAD-E-ALI | 1 | 1-May-20 | 1-May-20 |
| | | URUZGAN | SHAHID-E-HASSAS | 3 | 14-Jun-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 | | | 40 | 4-Jan-20 | 1-Aug-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 | QUETTA | 1 | 17-Jul-20 | 17-Jul-20 | |
| | | KABDULAH | 2 | 11-May-20 | 29-Jun-20 | |
| | | CHAGHAI | 1 | 4-Jun-20 | 4-Jun-20 | |
| | | DUKKI | 1 | 26-May-20 | 26-May-20 | |
| | | PISHIN | 3 | 31-Jan-20 | 26-May-20 | |
| | | JHALMAGSI | 1 | 19-Apr-20 | 19-Apr-20 | |
| | | NSIRABAD | 2 | 3-Jan-20 | 13-Apr-20 | |
| | | ZHOB | 2 | 22-Feb-20 | 13-Apr-20 | |
| | | JAFARABAD | 1 | 12-Feb-20 | 12-Feb-20 | |
| | | SOHBATPUR | 1 | 12-Feb-20 | 12-Feb-20 | |
| | | SIBI | 1 | 7-Feb-20 | 7-Feb-20 | |
| | | PUNJAB | LAHORE | 2 | 12-Jun-20 | 24-Jul-20 |
| | | | DGKHAN | 3 | 18-Jan-20 | 5-Jul-20 |
| | RAJANPUR | | 1 | 2-Jun-20 | 2-Jun-20 | |
| | SINDH | 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 | |
| | | JACOBABAD | 3 | 7-Feb-20 | 16-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 | | | 65 | 1-Jan-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 | |
| PUNJAB | | QUETTA | 1 | 6-Jul-19 | 6-Jul-19 | |
| | | 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 | |
| SINDH | | 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 | | |
| | | | | 147 | 15-Jan-19 | 31-Dec-19 |

World Health Organization – Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

31-Aug-20

Week 35, ending 30 August 2020

Number 1143

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

| COUNTRY | YEAR | PROVINCE | DISTRICT | Count | First Case | Last Case |
|-------------------|---------------|--------------------|-------------------|------------|-----------------|------------------|
| SOM | | BANADIR | DHARKENLEY | 1 | 18-Jul-20 | 18-Jul-20 |
| | | | SHIBIS | 1 | 29-Jun-20 | 29-Jun-20 |
| | | | ABDULAZIZ | 1 | 18-Jun-20 | 18-Jun-20 |
| SUD | | SOUTH DARFUR | NYALA NORTH | 1 | 29-Apr-20 | 29-Apr-20 |
| | | | KAS | 1 | 7-Mar-20 | 7-Mar-20 |
| | | EAST DARFUR | ASALAYA | 1 | 8-Jul-20 | 8-Jul-20 |
| | | BAHR ARAB | 1 | 12-May-20 | 12-May-20 | |
| | | GEZIRA | MADANI | 1 | 9-Jul-20 | 9-Jul-20 |
| | | RIVER NILE | ATBARA | 1 | 29-Jun-20 | 29-Jun-20 |
| | | RED SEA | PORT SUDAN | 3 | 29-Apr-20 | 8-Jun-20 |
| | | WEST DARFUR | KRAINEK | 1 | 19-May-20 | 19-May-20 |
| | | WHITE NILE | ALSALAM | 1 | 15-Jun-20 | 15-Jun-20 |
| | | GEDARIF | EAST GALABAT | 1 | 5-Jul-20 | 5-Jul-20 |
| AFG | 2020 | FARAH | ELGEDARIF | 1 | 1-Apr-20 | 1-Apr-20 |
| | | | BAKWA | 1 | 1-Jun-20 | 1-Jun-20 |
| | | | CHAHARASYAB | 1 | 06-Jul-20 | 06-Jul-20 |
| | | KABUL | AGRAHAI | 1 | 06-Jul-20 | 06-Jul-20 |
| | | | NURGERAM | 1 | 13-Jul-20 | 13-Jul-20 |
| | | | KAMDESH | 1 | 21-Jun-20 | 21-Jun-20 |
| | | NIMROZ | KHASHROD | 1 | 6-Jul-20 | 6-Jul-20 |
| | | | KHOST (MATUN) | 1 | 10-Jul-20 | 10-Jul-20 |
| | | | ALIKHEL (JAJI) | 1 | 18-Jun-20 | 18-Jun-20 |
| | | BADAKHSAN | KESHEN | 1 | 23-Apr-20 | 23-Apr-20 |
| | | | DARGAYI | 1 | 25-Jun-20 | 25-Jun-20 |
| | | | ALINGAR | 6 | 11-Jun-20 | 05-Jul-20 |
| | | LAGHMAN | ALISHANG | 1 | 24-May-20 | 24-May-20 |
| | | | MEHTERLAM | 3 | 20-May-20 | 11-Jul-20 |
| | | | CHAPADARA | 1 | 23-Jun-20 | 23-Jun-20 |
| | | KUNAR | CHAWKAY | 1 | 02-Jul-20 | 02-Jul-20 |
| | | | SARKANI | 1 | 11-Jul-20 | 11-Jul-20 |
| | | | SHIGALWA SHELTA | 1 | 27-Jun-20 | 27-Jun-20 |
| | | | WATAPUR | 1 | 1-Jul-20 | 1-Jul-20 |
| | | | NARANG | 1 | 1-May-20 | 1-May-20 |
| | | | NURGAL | 1 | 6-Apr-20 | 6-Apr-20 |
| | | NANGARHAR | DURBABA | 1 | 17-Jul-20 | 17-Jul-20 |
| | | | KHOGYANI | 1 | 20-Jun-20 | 20-Jun-20 |
| | | | JALALABAD | 1 | 28-Jun-20 | 28-Jun-20 |
| | | | ACHIN | 6 | 25-May-20 | 11-Jul-20 |
| | | | CHAPARHAR | 5 | 11-May-20 | 15-Jul-20 |
| | | | BEHSUD | 7 | 22-Apr-20 | 28-Jun-20 |
| RODAT | 2 | | 18-Apr-20 | 15-Jun-20 | | |
| LALPUR | 3 | | 30-Apr-20 | 21-May-20 | | |
| BATIKOT | 1 | | 5-Feb-20 | 05-Feb-20 | | |
| SHINWAR | 6 | | 27-Mar-20 | 12-Jun-20 | | |
| MUHMAND DARA | 5 | | 6-Apr-20 | 07-Jul-20 | | |
| KAMA | 2 | | 4-Apr-20 | 30-Apr-20 | | |
| DEHBALA | 1 | | 18-Apr-20 | 18-Apr-20 | | |
| DAR-E-NUR | 1 | | 16-Apr-20 | 16-Apr-20 | | |
| SINDH | KHIGADAP | 1 | 11-Jun-20 | 11-Jun-20 | | |
| | KHIBALDIA | 1 | 15-May-20 | 15-May-20 | | |
| | KHISITE | 1 | 2-May-20 | 2-May-20 | | |
| BALOCHISTAN | QUETTA | 1 | 29-Feb-20 | 29-Feb-20 | | |
| | MUZAFFARGARTH | 1 | 08-Jun-20 | 08-Jun-20 | | |
| ATTOCK | ATTOCK | 1 | 30-May-20 | 30-May-20 | | |
| | RAWALPINDI | 1 | 18-Jan-20 | 18-Jan-20 | | |
| | FAISALABAD | 3 | 5-Feb-20 | 14-Mar-20 | | |
| PAK | | PUNJAB | TANK | 1 | 24-May-20 | 24-May-20 |
| | | | DIRUPPER | 1 | 12-Apr-20 | 12-Apr-20 |
| | | | WAZIR-S | 1 | 21-Mar-20 | 21-Mar-20 |
| | | KHYBER PAKHTUNKHWA | PESHAWAR | 6 | 2-Jan-20 | 10-Apr-20 |
| | | | BAJOUR | 3 | 3-Jan-20 | 30-Jan-20 |
| | | | KHYBER | 15 | 12-Jan-20 | 1-Mar-20 |
| | | | NOVSHERA | 4 | 18-Jan-20 | 1-Mar-20 |
| | | | LAKKI MARWAT | 5 | 27-Jan-20 | 26-Feb-20 |
| | | | MARDAN | 1 | 2-Jan-20 | 2-Jan-20 |
| | | | DIR LOWER | 3 | 2-Feb-20 | 25-Mar-20 |
| | | | BANNU | 2 | 3-Jan-20 | 13-Feb-20 |
| Total 2020 | | | | 137 | 2-Jan-20 | 17-Jul-20 |
| PAK | 2019 | PUNJAB | GUJRANWALA | 1 | 22-Nov-19 | 22-Nov-19 |
| | | | KHYBER | 3 | 12-Dec-19 | 28-Dec-19 |
| | | | MOHMAND | 3 | 12-Dec-19 | 21-Dec-19 |
| | | KHYBER PAKHTUNKHWA | 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 |
| | | ISLAMABAD | KOHISTANLOWER | 2 | 6-Oct-19 | 11-Oct-19 |
| | | | TORGHAR | 3 | 4-Sep-19 | 17-Dec-19 |
| | | | CDA | 1 | 11-Sep-19 | 11-Sep-19 |
| GILGIT BALTISTAN | DIAMER | 4 | 7-Jul-19 | 28-Aug-19 | | |
| | BARI | 1 | 8-May-19 | 8-May-19 | | |
| SOM | | TOGDHER | BOSSASO | 1 | 21-Apr-19 | 21-Apr-19 |
| | | | BUHODLE | 1 | 15-Mar-19 | 15-Mar-19 |
| SOM | | SOOL | LAS ANOD | 1 | 15-Mar-19 | 15-Mar-19 |
| | | | Total 2019 | | | |

VDPV2 isolates, EMR countries, 2020

