

Highlights of Polio Fax Bulletin No. 1152 for Week 44 2020

I. Salient features

1. Polio eradication teams at the Regional and Country levels are contributing to COVID19 Response, particularly in areas of surveillance (field and laboratory), data analysis, communications and coordination.
2. Wild Poliovirus Type-1 (WPV1): One new case and one positive environmental sample both from Pakistan reported this week.
3. Vaccine Derived Poliovirus (VDPV):
 - cVDPV1: No new cases reported this week.
 - cVDPV2: 20 new cVDPV2 cases all from Afghanistan were reported this week in addition to 1 new positive environmental sample from Somalia.

Advance notifications:

- Iran: A newly reported VDPV2 positive environmental sample reported from Zabol district, Sistan & Balochistan province, with date of sample collection on 3 October 2020 – Details will be shared within next bulletin.

II. Wild Poliovirus Transmission

Endemic countries (Pakistan & Afghanistan): Total WPV1 cases in 2020 to date is 133 (53 from Afghanistan and 80 from Pakistan). This compares with 113 cases in 2019 in the same period (21 from Afghanistan and 92 from Pakistan).

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

Afghanistan: In 2020, **53 WPV1 cases** have been reported so far: 17 cases from Kandahar province; 10 from Hilmand province; 5 from Khost province; four each from Farah and Uruzgan provinces; three from Zabul province; two each from Herat and Badghis provinces; and one each from Nimroz, Laghman, Kunar, Badakhshan, Balkh and Paktika provinces. **The most recent case has onset of paralysis on 13 September 2020.**

Pakistan: In 2020 to date, **80 WPV1 cases** are reported, 23 from Balochistan province, 22 cases each from Khyber Pakhtunkhwa (KP) and Sindh provinces, and 13 from Punjab province. **The most recent case has onset of paralysis on 4 October 2020.**

b. *Environmental samples*: 1 newly reported positive environmental sample from Pakistan.

- **Afghanistan**: In 2020 to date, there are **33** WPV1 positive environmental samples including three combined (WPV1 and cVDPV2) with most recent sample collected on 6 October 2020.
- **Pakistan**: In 2020 to date, there are **376** WPV1 positive environmental samples including 48 combined (WPV1 and cVDPV2) and 3 combined (WPV1 and aVDPV2) with most recent positive sample collected on 14 October 2020.

III.

Vaccine Derived Polioviruses (VDPVs): Total cVDPV2 cases in 2020 to date is 248 (121 from Afghanistan, 80 from Pakistan, 8 from Somalia and 39 from Sudan). This compares with 13 cases in 2019 in the same period (10 from Pakistan and 3 from Somalia).

Afghanistan: 20 new cVDPV2 cases reported this week, and no new positive environmental samples were reported.

Human samples: The new 20 cVDPV2 cases are 12 from Kandahar province (Kandahar – 7, Panjwai – 2, Arghandab – 2 and Spinboldak – 1), 2 from Paktya province (Zurmat – 1 and Sayed Karam -1), 1 each from Khost province (Matun district), Laghman province (Alingar district), Logar province (Barakibarak district), Paktika province (Sharan district), Parwan district (Bagram district) and Farah province (Bakwa district). Dates of onset vary between 19 August to 10 September 2020.

In 2020 to date, there are 121 cVDPV2 cases; 44 reported from Nangarhar province, 17 from Kandahar province, 13 from Laghman province, 8 each from Kunar and Khost provinces, 5 from Farah province, 4 each from Kabul and Paktya provinces, 3 from Nimroz province, 2 each from Hilmand, Hirat, Paktika, Logar and Nuristan provinces and one each from Badakhshan, Jawzian, Ghazni, Parwan and Kunduz provinces and with **most recent case's onset on 10 September 2020.**

Environment: In 2020 to date, 90 cVDPV2 positive environmental samples including 3 combined (WPV1 and cVDPV2) were reported: 38 from Jalalabad, 11 from Batikot, 3 from Behsud districts, Nangarhar province, 14 from Kabul district, Kabul province, 9 from Kandahar and 4 from Asadabad districts, Kandahar province;

3 from Lashkargah district, Hilmand province, from Khost (Matun) district, Khost province and Mehtarlam (Gumeen) district, Laghman province and 1 each from Gardez district, Paktya province and Kunduz district, Kunduz province; with **most recent collection on 6 September 2020**.

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

In 2020 to date, there are **80** cVDPV2 cases reported. Cases include 42 from KP province, 20 from Sindh province, 16 from Punjab province, and 2 from Balochistan province, with most recent case's onset on 10 September 2020. In addition to 6 aVDPV2 cases all from Punjab province, with most recent case's onset on 23 August 2020.

Environment: In 2020, there are **62** positive environmental samples for cVDPV2 so far (including 48 combined WPV1 and cVDPV2), the most recent sample collected on 16 September 2020. Also, there are 7 aVDPV2 isolates detected in the environment samples, which include three combined (WPV1 + aVDPV2). The most recent aVDPV2 positive environmental sample was collected on 16 August 2020.

SOMALIA: No new VDPV cases, but one new cVDPV2 positive environmental sample was reported this week.

In 2020 to date, **8** cVDPV2 cases reported, 5 from Banadir province and 1 each from Lower Juba, Middle Shabelle and Bay provinces, with **most recent date of onset 17 September 2020**. Also, there are 25 cVDPV2 positive environmental samples reported, the most recent collected on 26 September 2020.

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

In 2020 to date, **39** cVDPV2 cases reported. ***The most recent case has onset of paralysis on 3 September 2020.***

A total of eight environmental samples have been positive for cVDPV2 so far, all from Khartoum with most recent collection on 9 August 2020.

YEMEN: No new VDPV cases were reported this week.

In 2020 to date, 16 cVDPV1 cases are reported. All cases are from Saadah province, 5 each from Kitaf Wa Buga and Sahar districts, 3 from Al Safrah district, and one each from Sageen, Saadh City and Majz districts.

The most recent case has onset of paralysis on 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.

- Morocco and Tunisia are missing both indicators as their non-polio AFP rates are 0.9 and 1.2 and their percentage of AFP cases with adequate stool specimens is 64.6%, and 60.7%, respectively.
- Djibouti, Jordan, Oman, Palestine, Qatar, Saudi Arabia and United Arab Emirates have a non-polio AFP rate of 1.3, 1.0, 1.7, 0.7, 0.6, 1.8 and 1.6 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 (44/20) / Ending on : 01/11/2020 | | | | | | | | | | | | | | | | |
|------------------|---|----------------|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---|--|
| | Total AFP 2018 | Total AFP 2019 | Total AFP to date, 2020 | W33 16 Aug 20 | W34 23 Aug 20 | W35 30 Aug 20 | W36 06 Sep 20 | W37 13 Sep 20 | W38 20 Sep 20 | W39 27 Sep 20 | W40 04 Oct 20 | W41 11 Oct 20 | W42 18 Oct 20 | W43 25 Oct 20 | W44 1 Nov 20 | | |
| Afghanistan | 3378 | 3768 | 3147 | 76 | 96 | 92 | 118 | 104 | 115 | 79 | 91 | 84 | 67 | 29 | 3 | | |
| Bahrain | 35 | 17 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Djibouti | 0 | 5 | 4 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| Egypt | 1246 | 1343 | 773 | 23 | 23 | 29 | 20 | 25 | 21 | 20 | 31 | 23 | 13 | 19 | 1 | | |
| Iran | 896 | 1070 | 481 | 11 | 15 | 10 | 18 | 12 | 14 | 9 | 9 | 6 | 3 | 2 | | | |
| Iraq | 1023 | 1157 | 360 | 4 | 4 | 8 | 6 | 8 | 8 | 8 | 5 | 13 | 13 | 4 | | | |
| Jordan **** | 115 | 113 | 31 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | | | |
| Kuwait | 72 | 48 | 27 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | | | |
| Lebanon **** | 89 | 87 | 42 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 2 | 1 | 1 | | | |
| Libya | 122 | 107 | 84 | 5 | 6 | 2 | 3 | 0 | 0 | 2 | 0 | 1 | 3 | 1 | | | |
| Morocco | 212 | 247 | 79 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | | | | | |
| Oman | 28 | 30 | 16 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | | | |
| Pakistan | 12276 | 15216 | 9463 | 235 | 247 | 190 | 275 | 268 | 324 | 278 | 276 | 235 | 178 | 57 | 1 | | |
| Palestine **** | 44 | 62 | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | | | |
| Qatar | 10 | 9 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Saudi Arabia | 242 | 236 | 125 | 5 | 5 | 1 | 2 | 5 | 5 | 8 | 10 | 2 | 8 | 3 | 0 | | |
| Somalia | 353 | 361 | 311 | 8 | 11 | 7 | 8 | 4 | 9 | 7 | 5 | 3 | 1 | 0 | 0 | | |
| Sudan | 579 | 608 | 557 | 29 | 30 | 26 | 30 | 27 | 35 | 29 | 17 | 26 | 14 | 7 | | | |
| Syria **** | 362 | 377 | 286 | 2 | 3 | 7 | 4 | 8 | 1 | 13 | 3 | 1 | 3 | 7 | | | |
| Tunisia | 68 | 79 | 28 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| U.A.E | 40 | 50 | 17 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Yemen | 730 | 779 | 612 | 18 | 25 | 17 | 27 | 19 | 20 | 21 | 29 | 14 | 12 | 9 | | | |
| Total EMR | 21920 | 25769 | 16467 | 420 | 468 | 395 | 513 | 486 | 556 | 478 | 478 | 417 | 317 | 140 | 5 | | |

No data = No report received

Table 2: Confirmed polio cases by month of onset

| Country | Total year 2018 | Total year 2019 | 01/11 | | Confirmed polio cases by month of onset | | | | | | | | | | | | |
|------------------|-----------------|-----------------|------------|------------|---|--------------|---------------|------------|------------|-----------|-----------|-----------|-------------|----------------|--------------|---------------|--|
| | 2019 | | 2019 | 2020 | December 2019 | January 2020 | February 2020 | March 2020 | April 2020 | May 2020 | June 2020 | July 2020 | August 2020 | September 2020 | October 2020 | November 2020 | |
| Afghanistan | 21 | 29 | 21 | 53 | 1 | 2 | 3 | 7 | 0 | 12 | 10 | 7 | 6 | 6 | | | |
| Bahrain | 0 | 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 | | | | |
| 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 | | | | | | | | | | | | |
| Libya | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Morocco | 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 | 92 | 80 | 32 | 18 | 17 | 7 | 6 | 6 | 6 | 6 | 5 | 7 | 2 | | |
| 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 | 0 | 0 | 0 | 0 | | |
| Sudan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Syria **** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Tunisia | 0 | 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 | | | | | | | | |
| Yemen | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | |
| Total EMR | 33 | 176 | 113 | 133 | 33 | 20 | 20 | 14 | 6 | 18 | 16 | 13 | 11 | 13 | 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 (44/20) / Ending on : 01/11/2020)

| COUNTRY | 2019 | | | | | | | | | | | | 2020 | | | | | | | | | | | | Latest line List Date | |
|--------------|----------------------------|-------------------------------|------------------|------------------------|---------------------------|------|-----------------------|--|--|----------|-----------------|--------------------|--------------------|----------------------------|-------------------------------|------------------|------------------------|---------------------------|------|-----------------------------------|--|--|----------|-----------------|-----------------------|--|
| | AFP | | | | | | | | | | | | AFP | | | | | | | | | | | | | |
| | Total AFP cases onset 2019 | Total Confirmed Polio Cases * | Polio Compatible | Pending Classification | Discarded (non polio AFP) | VDPV | Non polio AFP rate ** | AFP cases pending classification > 90 days from onset of paralysis | AFP cases pending classification and lab > 90 days from onset of paralysis | Specimen | Wild cases **** | Wild P1 Poliovirus | Wild P3 Poliovirus | Total AFP cases onset 2020 | Total Confirmed Polio Cases * | Polio Compatible | Pending Classification | Discarded (non polio AFP) | VDPV | Annualized Non polio AFP rate *** | AFP cases pending classification > 90 days from onset of paralysis | AFP cases pending classification and lab > 90 days from onset of paralysis | Specimen | Wild cases **** | | |
| Afghanistan | 3768 | 29 | 1 | 4 | 3734 | 0 | 18.1 | 4 | 0 | 94.1 | 29 | 0 | 3147 | 53 | 0 | 338 | 2633 | 123 | 17.5 | 54 | 0 | 93.9 | 53 | 0 | 01/11/2020 | |
| Bahrain | 17 | 0 | 0 | 0 | 17 | 0 | 5.7 | 0 | 0 | 100.0 | 0 | 0 | 11 | 0 | 0 | 1 | 10 | 0 | 4.4 | 0 | 0 | 90.9 | 0 | 0 | 01/11/2020 | |
| Djibouti | 5 | 0 | 0 | 0 | 5 | 0 | 1.4 | 0 | 0 | 80.0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 1.3 | 0 | 0 | 100.0 | 0 | 0 | 25/10/2019 | |
| Egypt | 1343 | 0 | 0 | 0 | 1343 | 0 | 3.6 | 0 | 0 | 93.4 | 0 | 0 | 773 | 0 | 0 | 77 | 696 | 0 | 2.4 | 1 | 0 | 92.2 | 0 | 0 | 28/10/2020 | |
| Iran | 1070 | 0 | 0 | 0 | 1069 | 1 | 5.2 | 0 | 0 | 97.1 | 0 | 0 | 481 | 0 | 0 | 15 | 466 | 0 | 2.8 | 0 | 0 | 98.8 | 0 | 0 | 31/10/2020 | |
| Iraq | 1157 | 0 | 0 | 0 | 1157 | 0 | 7.4 | 0 | 0 | 94.3 | 0 | 0 | 360 | 0 | 0 | 27 | 333 | 0 | 2.7 | 0 | 0 | 93.1 | 0 | 0 | 30/10/2020 | |
| Jordan | 113 | 0 | 0 | 0 | 113 | 0 | 3.9 | 0 | 0 | 100.0 | 0 | 0 | 31 | 0 | 0 | 1 | 30 | 0 | 1.0 | 0 | 0 | 100.0 | 0 | 0 | 28/10/2020 | |
| Kuwait | 48 | 0 | 0 | 0 | 48 | 0 | 5.4 | 0 | 0 | 89.6 | 0 | 0 | 27 | 0 | 0 | 2 | 25 | 0 | 3.6 | 0 | 0 | 88.9 | 0 | 0 | 25/10/2020 | |
| Lebanon | 87 | 0 | 0 | 0 | 87 | 0 | 4.7 | 0 | 0 | 89.7 | 0 | 0 | 42 | 0 | 0 | 25 | 17 | 0 | 2.7 | 13 | 12 | 95.2 | 0 | 0 | 30/10/2020 | |
| Libya | 107 | 0 | 0 | 0 | 107 | 0 | 4.3 | 0 | 0 | 98.1 | 0 | 0 | 84 | 0 | 0 | 24 | 59 | 1 | 3.8 | 0 | 0 | 100.0 | 0 | 0 | 31/10/2020 | |
| Morocco | 247 | 0 | 0 | 0 | 247 | 0 | 2.8 | 0 | 0 | 84.2 | 0 | 0 | 79 | 0 | 0 | 35 | 44 | 0 | 0.9 | 28 | 7 | 64.6 | 0 | 0 | 16/10/2020 | |
| Oman | 30 | 0 | 0 | 0 | 30 | 0 | 2.7 | 0 | 0 | 80.0 | 0 | 0 | 16 | 0 | 0 | 3 | 13 | 0 | 1.7 | 0 | 0 | 100.0 | 0 | 0 | 25/10/2020 | |
| Pakistan | 15216 | 147 | 6 | 0 | 15040 | 23 | 19.3 | 0 | 0 | 86.6 | 147 | 0 | 9463 | 80 | 8 | 803 | 8486 | 86 | 14.4 | 202 | 0 | 87.3 | 80 | 0 | 01/11/2020 | |
| Palestine | 62 | 0 | 0 | 0 | 62 | 0 | 3.5 | 0 | 0 | 98.4 | 0 | 0 | 11 | 0 | 0 | 4 | 7 | 0 | 0.7 | 3 | 0 | 100.0 | 0 | 0 | 18/10/2020 | |
| Qatar | 9 | 0 | 0 | 0 | 9 | 0 | 2.2 | 0 | 0 | 88.9 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0.6 | 1 | 0 | 100.0 | 0 | 0 | 25/10/2020 | |
| Saudi Arabia | 236 | 0 | 0 | 0 | 236 | 0 | 2.8 | 0 | 0 | 93.2 | 0 | 0 | 125 | 0 | 0 | 52 | 73 | 0 | 1.8 | 0 | 0 | 95.2 | 0 | 0 | 01/11/2020 | |
| Somalia | 361 | 0 | 0 | 0 | 358 | 3 | 5.7 | 0 | 0 | 95.6 | 0 | 0 | 311 | 0 | 0 | 8 | 293 | 10 | 4.6 | 2 | 1 | 96.1 | 0 | 0 | 01/11/2020 | |
| Sudan | 608 | 0 | 0 | 0 | 608 | 0 | 3.4 | 0 | 0 | 96.4 | 0 | 0 | 557 | 0 | 0 | 113 | 405 | 39 | 3.5 | 7 | 0 | 93.7 | 0 | 0 | 28/10/2020 | |
| Syria | 377 | 0 | 0 | 0 | 377 | 0 | 4.8 | 0 | 0 | 88.1 | 0 | 0 | 286 | 0 | 0 | 14 | 272 | 0 | 4.3 | 0 | 0 | 91.3 | 0 | 0 | 31/10/2020 | |
| Tunisia | 79 | 0 | 0 | 0 | 78 | 1 | 2.9 | 0 | 0 | 74.7 | 0 | 0 | 28 | 0 | 0 | 3 | 25 | 0 | 1.2 | 1 | 0 | 60.7 | 0 | 0 | 30/10/2020 | |
| U.A.E | 50 | 0 | 0 | 0 | 50 | 0 | 4.0 | 0 | 0 | 90.0 | 0 | 0 | 17 | 0 | 0 | 6 | 11 | 0 | 1.6 | 4 | 4 | 100.0 | 0 | 0 | 26/10/2020 | |
| Yemen | 779 | 0 | 0 | 0 | 778 | 1 | 5.5 | 0 | 0 | 89.0 | 0 | 0 | 612 | 0 | 1 | 419 | 176 | 16 | 5.2 | 204 | 179 | 90.5 | 0 | 0 | 31/10/2020 | |
| EMR | 25769 | 176 | 7 | 4 | 25553 | 29 | 10.2 | 4 | 0 | 89.5 | 176 | 0 | 16467 | 133 | 9 | 1976 | 14074 | 275 | 7.5 | 520 | 203 | 89.9 | 133 | 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 | | WILD | VDPV | SL | NPEV |
| AFG | 0 | 0 | 0 | 0 | 0 | 892 | 14 | 23 | 29 | 169 |
| BAH | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| DJI | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| EGY | 498 | 0 | 0 | 8 | 57 | 0 | 219 | 0 | 8 | 17 |
| IRN | 216 | 0 | 0 | 4 | 7 | 0 | 16 | 0 | 0 | 0 |
| IRQ | 603 | 0 | 0 | 12 | 39 | 6 | 156 | 0 | 3 | 8 |
| JOR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KUW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LEB | 24 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| LIB | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| MOR | 85 | 0 | 0 | 3 | 1 | 30 | 8 | 0 | 0 | 4 |
| OMA | 78 | 0 | 0 | 2 | 28 | 0 | 50 | 0 | 2 | 6 |
| PAK | 5497 | 26 | 9 | 248 | 959 | 0 | 3789 | 19 | 310 | 579 |
| PAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| QAT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SAA | 44 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 5 |
| SOM | 1081 | 0 | 1 | 45 | 141 | 5 | 872 | 0 | 4 | 114 |
| SUD | 402 | 0 | 0 | 1 | 31 | 90 | 261 | 0 | 10 | 4 |
| SYR | 813 | 0 | 0 | 23 | 36 | 0 | 265 | 0 | 0 | 11 |
| TUN | 27 | 0 | 0 | 0 | 2 | 0 | 5 | 0 | 0 | 0 |
| UAE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| YEM | 423 | 0 | 2 | 6 | 68 | 5 | 184 | 0 | 0 | 23 |
| EMR | 9798 | 26 | 12 | 352 | 1375 | 136 | 6737 | 33 | 44 | 379 |
| | | | | | | | | | | 930 |
| | | | | | | | | | | 567 |

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 | WASHER | 1 | 04-Jan-20 | 04-Jan-20 |
| | | NIMROZ | KHASHROD | 1 | 28-Feb-20 | 28-Feb-20 |
| | | FARAH | ANARDARA | 1 | 06-May-20 | 06-May-20 |
| | PAK | BALOCHISTAN | KSAIFULLAH | 1 | 01-Sep-20 | 01-Sep-20 |
| | | PUNJAB | LAHORE | 1 | 24-Jul-20 | 24-Jul-20 |
| | | KHYBER PAKHTUNKHWA (KP) | DG KHAN | 2 | 18-Jan-20 | 05-Jul-20 |
| | | SINDH | KARAK | 1 | 20-Jan-20 | 20-Jan-20 |
| | | | JACOBABAD | 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 | MUSAQALAH | 1 | 05-Jun-19 | 05-Jun-19 |
| | | | SANGIN | 1 | 06-Mar-19 | 06-Mar-19 |
| | | PUNJAB | DG KHAN | 2 | 2-Dec-19 | 10-Dec-19 |
| | | | KHORANGI | 1 | 28-Aug-19 | 28-Aug-19 |
| | PAK | | SUJAWAL | 1 | 25-Sep-19 | 25-Sep-19 |
| | | SINDH | JAMSHORO | 1 | 09-Oct-19 | 09-Oct-19 |
| | | | T. ALLAHYAR | 1 | 10-Nov-19 | 10-Nov-19 |
| | | BALOCHSITAN | 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 |
| | | | 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 (44/2020) / Ending on : (01/11/2020)

| 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 | VPDV | Wild | Sabin | VPDV | Wild | Sabin | VPDV | | | | | | | | |
| Afghanistan | RRL Pakistan | 3118 | 346 | 20 | 462 | 2120 | 170 | | | 50 | 86 | | 29 | 110 | | 79 | 1 | | 2 | 52 | 15% | 93% | 100% | 97% | 01/11/2020 | |
| Bahrain | NPL Oman / CDC | 10 | | | 1 | 9 | | | | | | | | | | | | | | | 9% | 100% | | 0% | 26/10/2020 | |
| Djibouti | NPL Kenya / CDC | 4 | | | | | 1 | 3 | | | | | | | | | | | | | | | | | 25/10/2020 | |
| Egypt*** | RRL Egypt | 754 | 20 | 12 | 79 | 590 | 38 | 15 | | 8 | | | | | | 13 | | | 9 | 3 | | 10% | 95% | 100% | 99% | 29/10/2020 |
| Iran | NPL Iran / CDC | 484 | 6 | | 5 | 463 | 8 | 2 | | 3 | | | | | | 4 | | | | | | 1% | 100% | 100% | 100% | 31/10/2020 |
| Iraq | RRL Egypt | 357 | 1 | | 30 | 305 | 20 | | | | | | | | | | | | | 1 | 8% | 95% | 100% | 98% | 30/10/2020 | |
| Jordan | NPL Jordan / RRL EGYPT | 31 | | | 5 | 25 | 1 | | | | | | | | | | | | | | 16% | 100% | | 100% | 28/10/2020 | |
| Kuwait | RRL Kuwait / RIVM | 29 | | | | 24 | 2 | 3 | | | | | | | | | | | | | 1% | 79% | | 92% | 29/10/2020 | |
| Lebanon | NPL Jordan / RRL EGYPT | 38 | | | 5 | 33 | | | | | | | | | | | | | | | 12% | 97% | | 100% | 28/10/2020 | |
| Libya | RRL Tunisia / RIVM | 65 | 4 | | | 61 | | | | | | | | | | 3 | 1 | | | | 0% | 100% | 100% | 65% | 15/09/2020 | |
| Morocco | NPL Morocco / RRL Tunisia | 64 | | | 1 | 58 | | 5 | | | | | | | | | | | | | 1% | 100% | | 98% | 23/10/2020 | |
| Oman | NPL Oman / CDC | 16 | | | 2 | 14 | | | | | | | | | | | | | | | 12% | 100% | | 100% | 26/10/2020 | |
| Pakistan | RRL Pakistan | 9272 | 726 | 45 | 1310 | 6840 | 327 | 21 | 73 | 153 | | 281 | 82 | 239 | | 1 | 3 | 2 | 33 | 13% | 93% | 99% | 97% | 01/11/2020 | | |
| Palestine & UNRWA | | 11 | | | | 11 | | | | | | | | | | | | | | | 0% | 36% | | 100% | 18/10/2020 | |
| Qatar | NPL Oman / CDC | 2 | | | | 2 | | | | | | | | | | | | | | | 0% | 100% | | 100% | 26/10/2020 | |
| Saudi Arabia | NPL Saudi Arabia / CDC | 128 | 1 | | | 115 | 12 | | | | | | | | | 1 | | | | | 0% | 100% | 100% | 100% | 01/11/2020 | |
| Somalia | NPL Kenya / CDC | 311 | 20 | 5 | 48 | 232 | | 5 | 3 | 1 | | 7 | 14 | | | | | | 3 | 18% | 5% | | 97% | 01/11/2020 | | |
| Sudan | NPL Sudan / RRL Egypt | 541 | 42 | | 64 | 370 | 21 | 45 | 1 | | 20 | 36 | | | | | | | | 14% | 99% | 100% | 53% | 29/10/2020 | | |
| Syria | NPL Syria / RRL Egypt | 279 | 12 | 1 | 12 | 246 | 8 | | | | | | | | | | | | | 4% | 100% | | | 29/10/2020 | | |
| Tunisia | RRL Tunisia | 21 | | | | 20 | | 1 | | | | | | | | | | | | 0% | 100% | | 95% | 15/09/2020 | | |
| U.A.E | NPL Oman / CDC | 16 | | | | 16 | | | | | | | | | | | | | | 0% | 100% | | 50% | 26/10/2020 | | |
| Yemen | NPL Kenya / CDC | 178 | 24 | | 42 | 108 | 4 | | 2 | 17 | | 5 | | | | 1 | | | 25% | 96% | 21% | 0% | 31/10/2020 | | | |
| Total EMR 2020 | | 15729 | 1202 | 83 | 2066 | 11662 | 612 | 100 | 123 | 256 | 18 | 330 | 235 | 358 | 2 | 1 | 14 | 6 | 89 | 13% | 92% | 98% | 96% | | | |
| Total EMR 2019 | | 24920 | 1057 | 100 | 3669 | 20059 | | 23 | 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 | 30 |
| | Wild+cVDPV2 | | | | 3 | 87 |
| | cVDPV2 | | | | | |
| | EV/SL | 177 | 265 | 248 | 200 | 145 |
| | Negative | 6 | 9 | 5 | 3 | 3 |
| AFG Total | Pending | | | | | 59 |
| | | 185 | 316 | 336 | 259 | 327 |
| EGY | aVDPV2 | | | | | 1 |
| | EV/SL | 492 | 481 | 508 | 666 | 387 |
| | Negative | 36 | 41 | 32 | 34 | 31 |
| | Pending | | | | | 21 |
| | aVDPV3 | | | | | 1 |
| EGY Total | aVDPV1 | | | | | 1 |
| | VDPV3 | | | | | 1 |
| IRN | Wild | | | | 3 | |
| | EV/SL | | 5 | 51 | 65 | 28 |
| | Negative | | 1 | 3 | 3 | 1 |
| | Pending | | | | | 2 |
| IRN Total | | | 6 | 54 | 71 | 31 |
| | | | | | | |
| JOR | EV/SL | 2 | 29 | 36 | 36 | 17 |
| | Negative | | 2 | | | 1 |
| | Pending | | | | | 2 |
| JOR Total | | 2 | 31 | 36 | 36 | 20 |
| | | | | | | |
| KUW | EV/SL | | | 3 | 3 | |
| | Pending | | | | 8 | |
| KUW Total | | | | 3 | 11 | |
| | | | | | | |
| LEB | EV/SL | 2 | 26 | 44 | 44 | 14 |
| | Negative | 2 | 1 | 1 | 3 | 2 |
| | Pending | | | | | 3 |
| LEB Total | | 4 | 27 | 45 | 47 | 19 |
| | | | | | | |
| PAK | Wild | 59 | 105 | 139 | 367 | 325 |
| | Wild+cVDPV2 | 2 | | | 10 | 48 |
| | Wild+aVDPV2 | 1 | 1 | | 2 | 3 |
| | cVDPV2 | 2 | | | 29 | 14 |
| | aVDPV2 | 3 | 4 | | | 4 |
| PAK Total | EV/SL | 456 | 523 | 531 | 420 | 233 |
| | Negative | 6 | | 3 | 4 | 4 |
| | Pending | | | | | 51 |
| | | 529 | 633 | 673 | 832 | 682 |
| SOM | cVDPV2 | | 2 | 18 | 5 | 25 |
| | cVDPV3 | | | 11 | | |
| | aVDPV2 | | | 2 | 1 | |
| | cVDPV2+cVDPV3 | | | 1 | | |
| | EV/SL | | 20 | 43 | 28 | 13 |
| SOM Total | Negative | | 14 | 138 | 29 | 26 |
| | Pending | | | | | 1 |
| SUD | cVDPV2 | | | 36 | 213 | 63 |
| | EV/SL | | | | | 65 |
| | Negative | | | | | 8 |
| | Pending | | | | | 2 |
| SUD Total | | | | 15 | 60 | 40 |
| | | | | | | |
| SYR | EV/SL | | 4 | 81 | 155 | 143 |
| | Negative | | | 21 | 30 | 16 |
| | Pending | | | | | 10 |
| SYR Total | | | 4 | 102 | 185 | 169 |
| | | | | | | |
| TOTAL | | 1248 | 1575 | 2017 | 2264 | 1796 |

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 | S & B | 3 | 22/Apr/19 | 20/May/19 | |
| | | | | 3 | 22/Apr/19 | 20/May/19 | |
| | IRN Total | PAK | BALOCHISTAN | 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 | |
| | | 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 | GBALTISTAN | 5 | 24/Aug/19 | 6/Nov/19 | |
| | | | ISLAMABAD | 1 | 12/Nov/19 | 12/Nov/19 | |
| | PAK Total | | KPAKHTUNKHWA | 10 | 9/Oct/19 | 28/Dec/19 | |
| | | | PUNJAB | 12 | 11/Apr/19 | 18/Dec/19 | |
| | | | SINDH | 1 | 19/Dec/19 | 19/Dec/19 | |
| | | | 406 | 1/Jan/19 | 31/Dec/19 | | |
| SOM | 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 | |
| | | | | 471 | 1/Jan/19 | 31/Dec/19 | |
| 2019 Total | | | | | | | |
| 2020 | AFG | Wild | HILMAND | 11 | 1/Jan/20 | 6/Sep/20 | |
| | | | HIRAT | 4 | 26/Apr/20 | 23/Aug/20 | |
| | | | KABUL | 1 | 26/Sep/20 | 26/Sep/20 | |
| | | | KANDAHAR | 11 | 28/Jan/20 | 27/Sep/20 | |
| | | | KHOST | 1 | 25/Apr/20 | 25/Apr/20 | |
| | | | NANGARHAR | 2 | 26/Jan/20 | 6/Oct/20 | |
| | | | KANDAHAR | 1 | 9/Jul/20 | 9/Jul/20 | |
| | | | NANGARHAR | 2 | 8/Jan/20 | 25/Jul/20 | |
| | | | GBALTISTAN | 1 | 28/Jan/20 | 12/Oct/20 | |
| | | | ISLAMABAD | 4 | 4/Jun/20 | 12/Oct/20 | |
| | AFG Total | | KPAKHTUNKHWA | 17 | 3/Jan/20 | 12/Oct/20 | |
| | | | PUNJAB | 109 | 4/Jun/20 | 12/Oct/20 | |
| | | | SINDH | 111 | 3/Jan/20 | 14/Oct/20 | |
| | | | BALOCHISTAN | 5 | 1/Feb/20 | 11/Mar/20 | |
| | | | KPAKHTUNKHWA | 1 | 11/Mar/20 | 12/Aug/20 | |
| | | | PUNJAB | 9 | 4/Jan/20 | 12/Aug/20 | |
| | | | SINDH | 33 | 3/Jan/20 | 14/Sep/20 | |
| | | | BALOCHISTAN | 1 | 2/Jun/20 | 2/Jun/20 | |
| | | | KPAKHTUNKHWA | 4 | 10/Jan/20 | 17/Apr/20 | |
| | | | PUNJAB | 2 | 16/Jan/20 | 17/Apr/20 | |
| EGY Total | EGY | aVDPV2 | S & B | 1 | 21/Sep/20 | 21/Sep/20 | |
| | | | GIZA | 1 | 21/Sep/20 | 21/Sep/20 | |
| | | | | 1 | 21/Sep/20 | 21/Sep/20 | |
| | | | AJK | 1 | 25/Feb/20 | 25/Feb/20 | |
| | | | BALOCHISTAN | 82 | 1/Jan/20 | 12/Oct/20 | |
| | | | GBALTISTAN | 1 | 12/May/20 | 12/May/20 | |
| | | | ISLAMABAD | 4 | 16/Jan/20 | 12/Oct/20 | |
| | | | KPAKHTUNKHWA | 17 | 28/Jan/20 | 12/Oct/20 | |
| | | | PUNJAB | 109 | 4/Jun/20 | 12/Oct/20 | |
| | | | | | | | |

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Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2020 - 01/11/2020

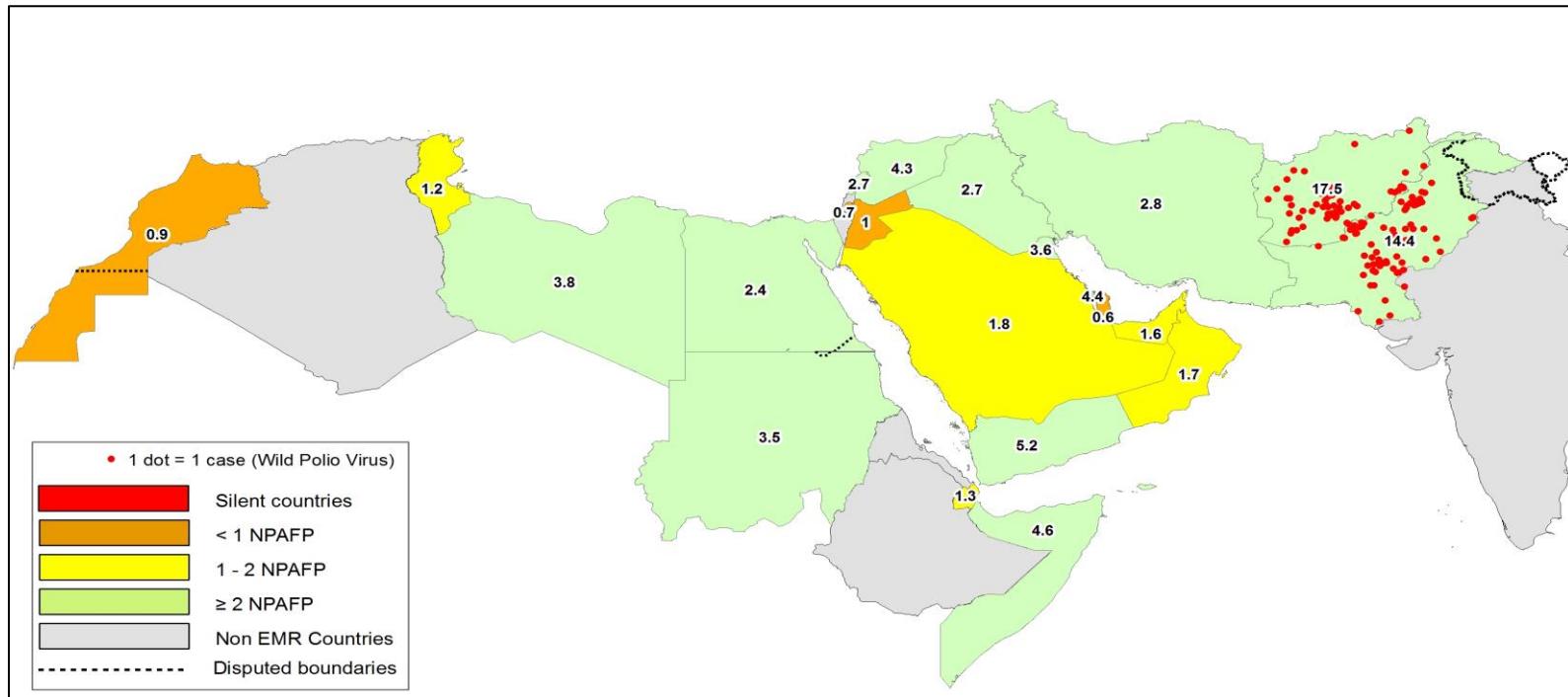


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2020 - 01/11/2020

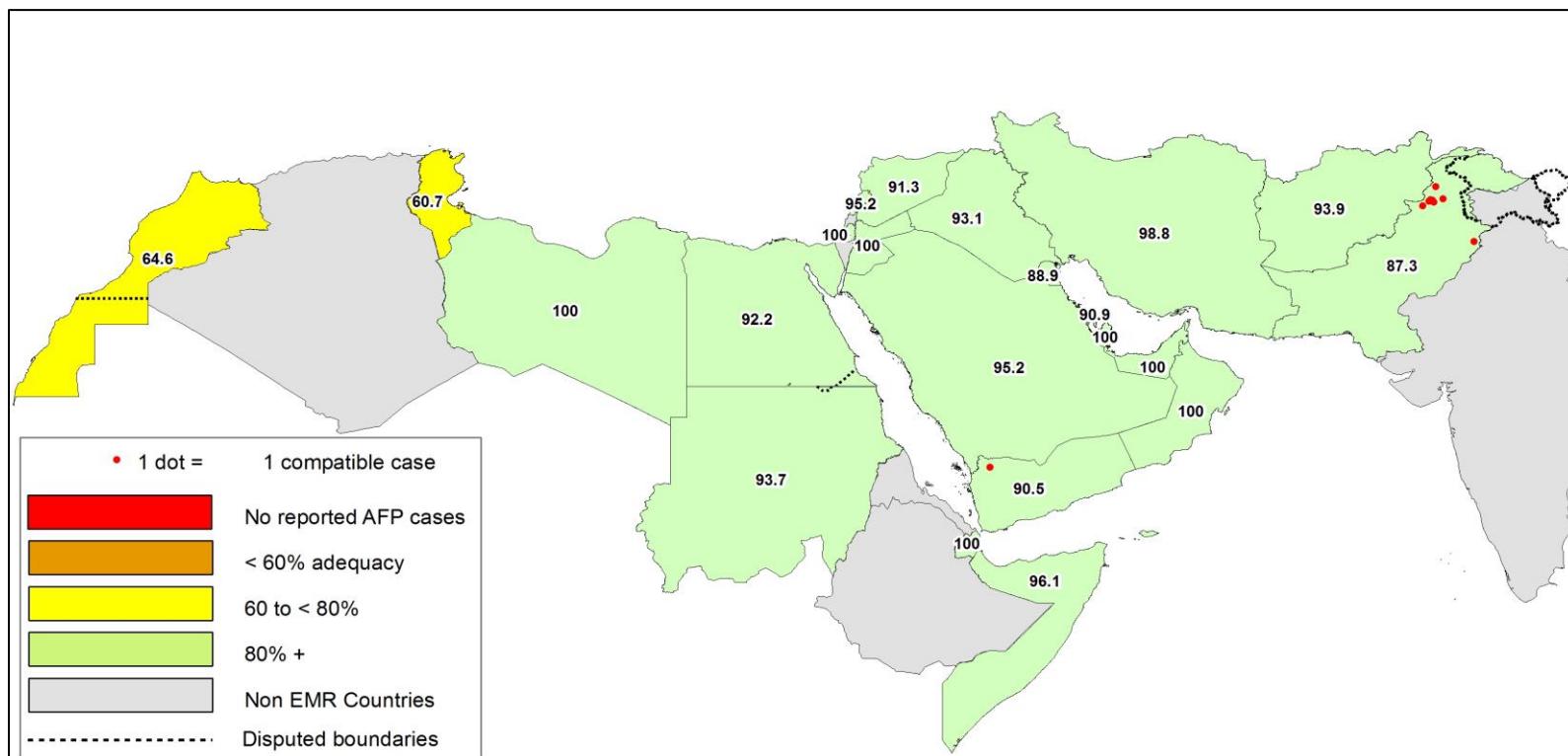


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2019 - 2020

| Year | COUNTRY | Count | First Case | Last Case |
|-------------------|---------|------------|-----------------|------------------|
| 2020 | AFG | 53 | 4-Jan-20 | 13-Sep-20 |
| | PAK | 80 | 1-Jan-20 | 4-Oct-20 |
| 2020 Total | | 133 | 1-Jan-20 | 4-Oct-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 - 01/11/2020

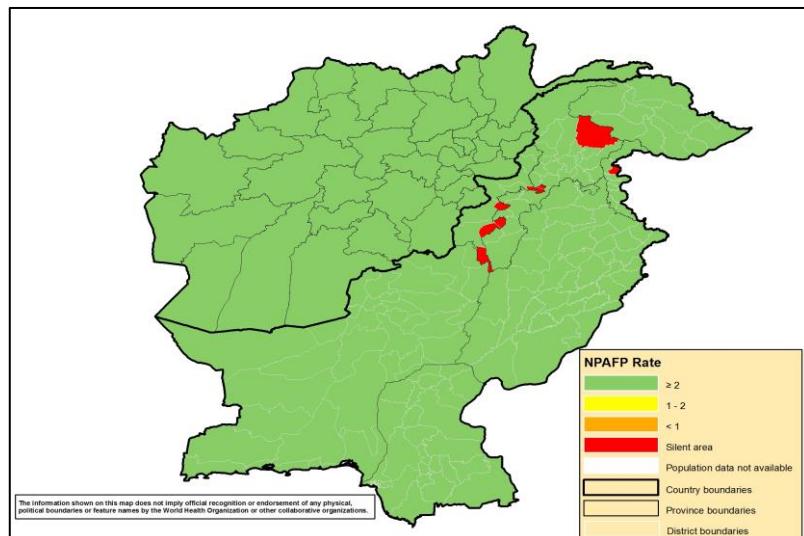


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan by Province & Pakistan by District 01/01/2020 - 01/11/2020

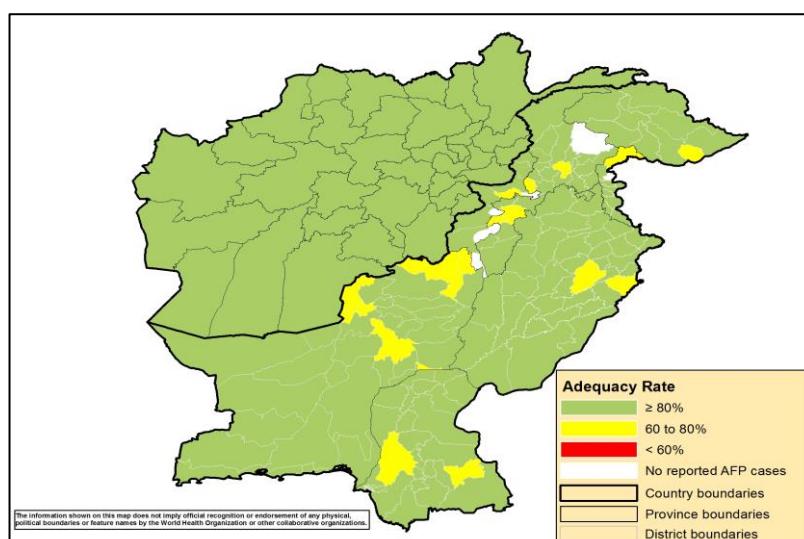
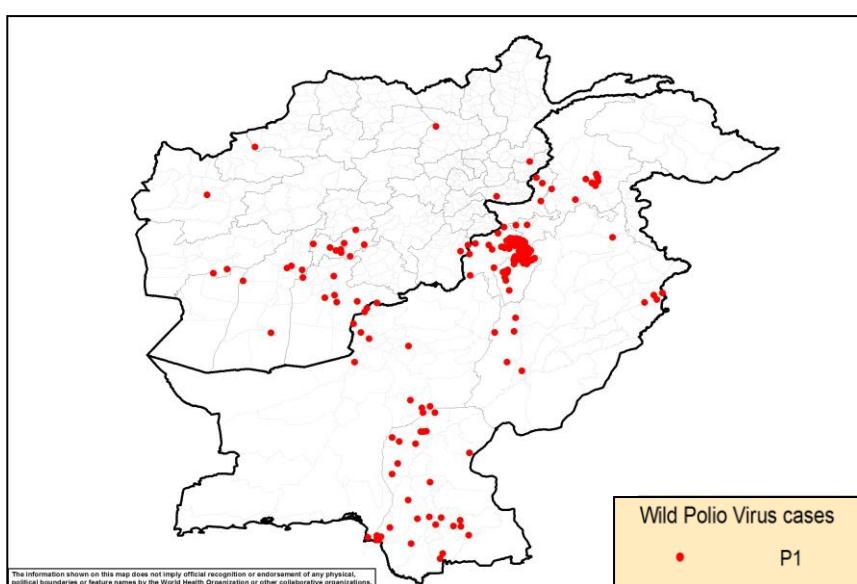
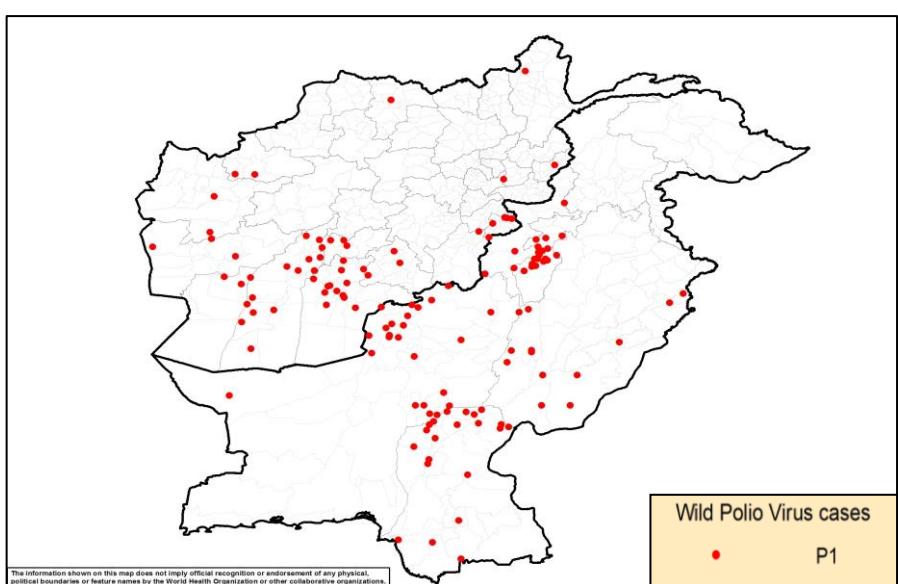


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5(b) 01/01/2020 - 01/11/2020



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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 |
| | FARAH | 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 | 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 |
| | | QALAT | 1 | 6-Aug-20 | 6-Aug-20 |
| | ZABUL | ARGHANDAB (Z) | 1 | 14-Jul-20 | 14-Jul-20 |
| | | MIZAN | 1 | 21-Jan-20 | 21-Jan-20 |
| | | HILMAND | 9 | 16-Jul-20 | 4-Sep-20 |
| | HILMAND | BAGHRAN | 2 | 10-Jun-20 | 27-Jul-20 |
| | | KAJAKI | 2 | 4-Jan-20 | 13-Jun-20 |
| | | WASHER | 4 | 25-May-20 | 3-Jun-20 |
| | | REG | 1 | 27-May-20 | 27-May-20 |
| | | DEH-E-SHU | 1 | 11-May-20 | 11-May-20 |
| | | NAWZAD | 1 | 7-May-20 | 7-May-20 |
| | | SANGIN | 1 | 1-May-20 | 1-May-20 |
| | | NAD-E-ALI | 1 | 14-Jun-20 | 12-Jul-20 |
| | URUZGAN | SHAHID-E-HASSAS | 3 | 28-May-20 | 28-May-20 |
| | | TIRINKOT | 1 | 28-Feb-20 | 28-Feb-20 |
| | NIMROZ | KHASHROD | 1 | 10-Mar-20 | 10-Mar-20 |
| | BADAKHSHAN | YAWAN | 1 | | |
| 2020 Total | | | 53 | 4-Jan-20 | 13-Sep-20 |
| 2019 | KHOST | HIRAT | PASHTUNZARGHUN | 1 | 19-Nov-19 |
| | | FARAH | BAKWA | 2 | 14-Nov-19 |
| | | BADGHIS | BALAMURGHAB | 1 | 17-Oct-19 |
| | | NANGARHAR | KHOGYANI | 1 | 18-Sep-19 |
| | | KUNAR | WATAPUR | 1 | 8-May-19 |
| | | PAKTIKA | BERMEL | 2 | 15-Sep-19 |
| | | KANDAHAR | SHAHWALIKOT | 1 | 7-Dec-19 |
| | | KANDAHAR | SPINBOLDAK | 2 | 4-Jan-19 |
| | | | KANDAHAR | 2 | 17-Aug-19 |
| | | | GHORAK | 1 | 12-Jan-19 |
| | | | GARMER | 1 | 26-May-19 |
| | HILMAND | 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 |
| | URUZGAN | 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 |
| 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 | PISHIN | 6 | 31-Jan-20 | 3-Oct-20 |
| | | QUETTA | 4 | 17-Jul-20 | 15-Sep-20 |
| | | KSAIFULAH | 1 | 1-Sep-20 | 1-Sep-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 |
| | | 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 | 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 |
| | | GHOSTKI | 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 | | | 80 | 1-Jan-20 | 4-Oct-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 |
| | | JHELUM | 1 | 21-Jun-19 | 21-Jun-19 |
| | SINDH | 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 |
| | | KHORANGI | 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 |

World Health Organization – Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

2-Nov-20

Week 44, ending 1 November 2020

Number 1152

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 |
| | | MIDDLE SHABELLE | 1 | 17-Jul-20 | 17-Jul-20 |
| | | BAY | 1 | 3-Sep-20 | 3-Sep-20 |
| | | BANADIR | 5 | 18-Jun-20 | 25-Aug-20 |
| | SUD | SOUTH DARFUR | 2 | 7-Mar-20 | 29-Apr-20 |
| | | EAST DARFUR | 3 | 12-May-20 | 24-Jul-20 |
| | | KHARTOUM | 2 | 15-Jul-20 | 3-Aug-20 |
| | | KASSALA | 8 | 28-Jul-20 | 2-Sep-20 |
| | | GEZIRA | 4 | 9-Jul-20 | 28-Aug-20 |
| | | RIVER NILE | 3 | 29-Jun-20 | 18-Aug-20 |
| | | RED SEA | 5 | 29-Apr-20 | 16-Aug-20 |
| | | WEST DARFUR | 1 | 19-May-20 | 19-May-20 |
| | | BLUE NILE | 3 | 7-Aug-20 | 3-Sep-20 |
| | | NORTH KORDOFAN | 1 | 29-Aug-20 | 29-Aug-20 |
| | | SENNAR | 1 | 16-Aug-20 | 16-Aug-20 |
| | | WHITE NILE | 3 | 15-Jun-20 | 22-Aug-20 |
| | AFG | GEDARIF | 3 | 1-Apr-20 | 1-Aug-20 |
| | | FARAH | 5 | 1-Jun-20 | 30-Aug-20 |
| | | HIRAT | 2 | 10-Aug-20 | 15-Aug-20 |
| | | LOGAR | 2 | 20-Aug-20 | 10-Sep-20 |
| | | KANDAHAR | 17 | 4-Aug-20 | 5-Sep-20 |
| | | HILMAND | 2 | 1-Aug-20 | 16-Aug-20 |
| | | JAWZIAN | 1 | 4-Aug-20 | 4-Aug-20 |
| | | KABUL | 4 | 6-Jul-20 | 24-Aug-20 |
| | | NURISTAN | 2 | 21-Jun-20 | 13-Jul-20 |
| | | NIMROZ | 3 | 6-Jul-20 | 8-Aug-20 |
| | | KHOST | 8 | 5-Jul-20 | 26-Aug-20 |
| | | PAKTYA | 4 | 18-Jun-20 | 5-Sep-20 |
| | | KUNDUZ | 1 | 28-Aug-20 | 28-Aug-20 |
| | | PAKTika | 2 | 25-Aug-20 | 4-Sep-20 |
| | | GHAZNI | 1 | 29-Aug-20 | 29-Aug-20 |
| | | BADAKHSAN | 1 | 23-Apr-20 | 23-Apr-20 |
| | | LAGHMAN | 13 | 20-May-20 | 25-Aug-20 |
| | | PARWAN | 1 | 4-Sep-20 | 4-Sep-20 |
| | | KUNAR | 8 | 6-Apr-20 | 11-Jul-20 |
| | | NANGARHAR | 44 | 5-Feb-20 | 29-Jul-20 |
| | PAK | SINDH | 20 | 2-May-20 | 10-Sep-20 |
| | | BALOCHISTAN | 2 | 29-Feb-20 | 19-Aug-20 |
| | | PUNJAB | 16 | 5-Feb-20 | 3-Sep-20 |
| | | KHYBER PAKHTUNKHWA | 42 | 2-Jan-20 | 24-May-20 |
| Total 2020 | | | 248 | 2-Jan-20 | 10-Sep-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 BALITSTAN | 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 |

