

# EMR Polio Bulletin

World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1285, Week 20 (ending on 21/05/2023)

## Highlights



Children  
Paralyzed  
by polio

### 2022

- 22 cases of Wild Polio 1
  - 02 in Afghanistan
  - 20 in Pakistan

- 168 cases of cVDPV2
  - 05 in Somalia
  - 162 in Yemen
  - 01 in Sudan

- Zero cVDPV1 cases

### 2023

- 3 cases of Wild Polio 1
  - 02 in Afghanistan
  - 01 in Pakistan

- 2 cases of cVDPV2
  - 02 in Somalia

- Zero case of cVDPV1



Sewage  
water  
sampling

### 2022

- 59 samples Wild Polio 1
  - 22 in Afghanistan
  - 37 in Pakistan

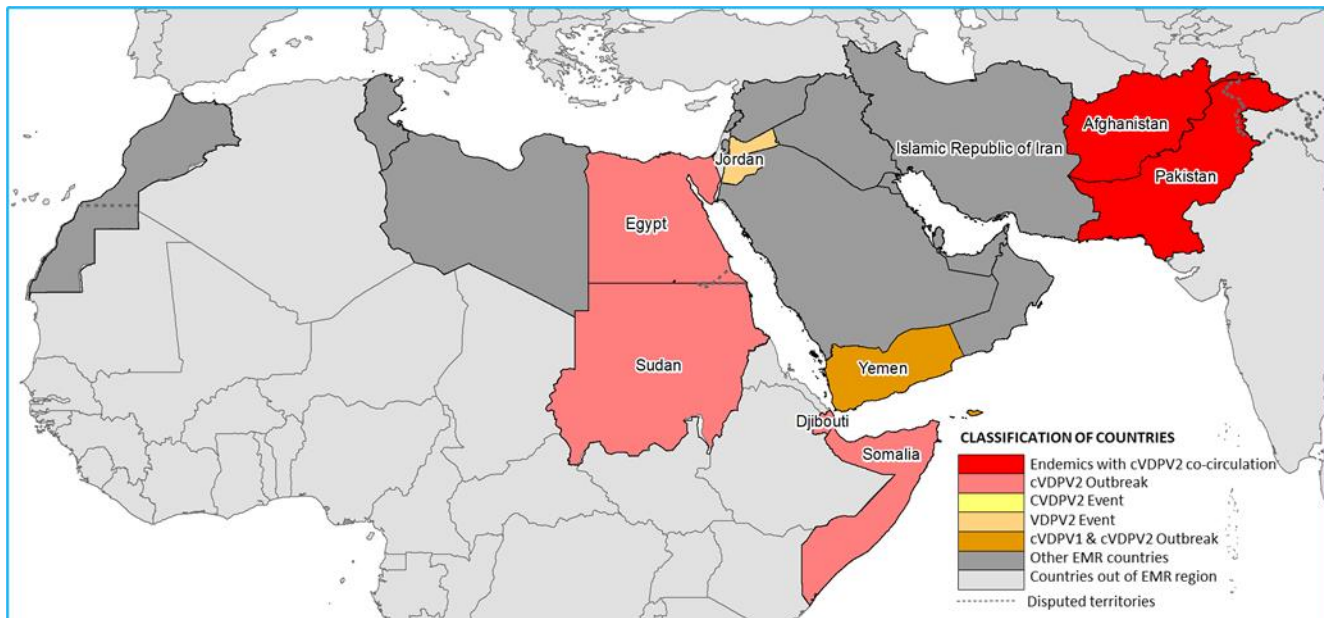
- 50 samples cVDPV2
  - 06 in Egypt
  - 12 in Djibouti
  - 06 in Somalia
  - 01 in Sudan
  - 25 in Yemen

### 2023

- 29 samples Wild Polio 1
  - 23 in Afghanistan
  - 06 in Pakistan

- Zero samples of cVDPV2

## Classification of EMR countries by type of poliovirus circulation



## Highlights of the week

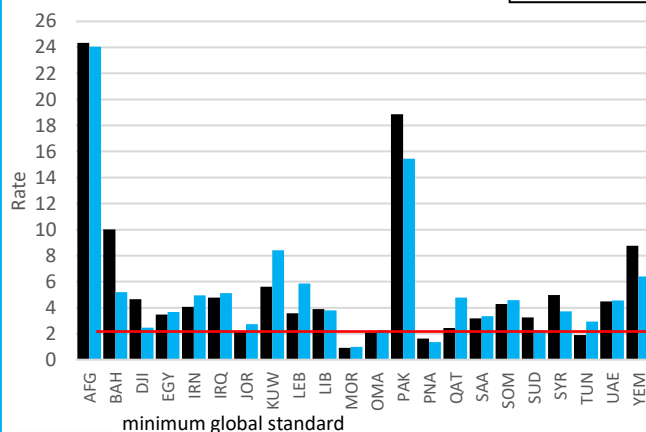
### Wild Poliovirus

- No new wild poliovirus cases reported this week. The WPV1 cases count in 2023 remains to be 3 cases (2 from Afghanistan and 1 from Pakistan) while in 2022 the WPV1 cases count is 22 cases (2 from Afghanistan and 20 from Pakistan).
- One new WPV1 positive environmental sample in 2023 from Afghanistan was reported this week from Jalalabad district of Nangarhar province, with sample collected on 25<sup>th</sup> April 2023. The positive WPV1 ES count in 2023 is 29 up to date (23 in Afghanistan and 6 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

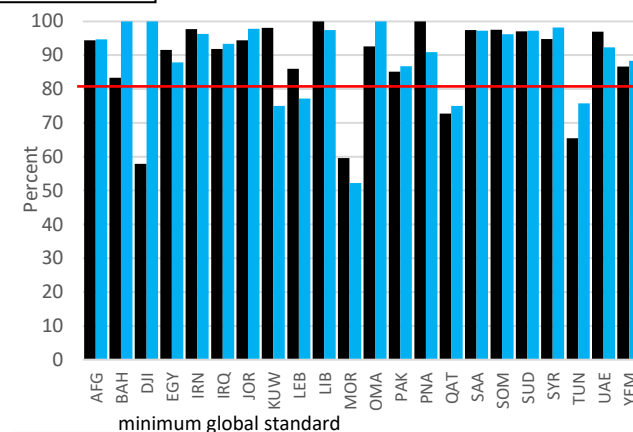
### Circulating Vaccine derived poliovirus (VDPV)

- No new cVDPV isolates from human or environmental samples reported this week.
  - In 2023 the count of cVDPV2 cases remains to be 2 cases from Somalia while the count in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
  - In 2022 to date, the positive cVDPV2 ES count remains to be 50 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 25 in Yemen) and no cVDPV ES reported in 2023 till date.

### Non polio AFP rate



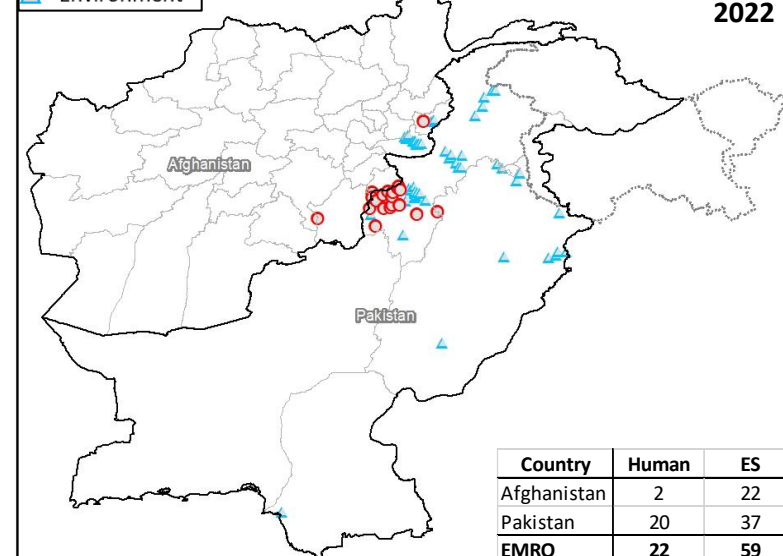
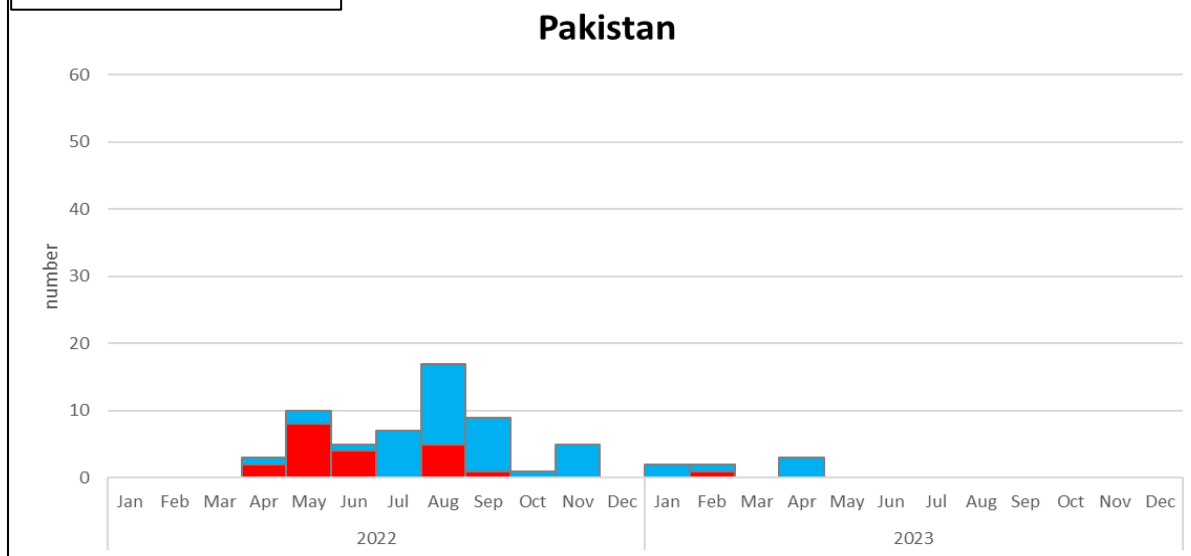
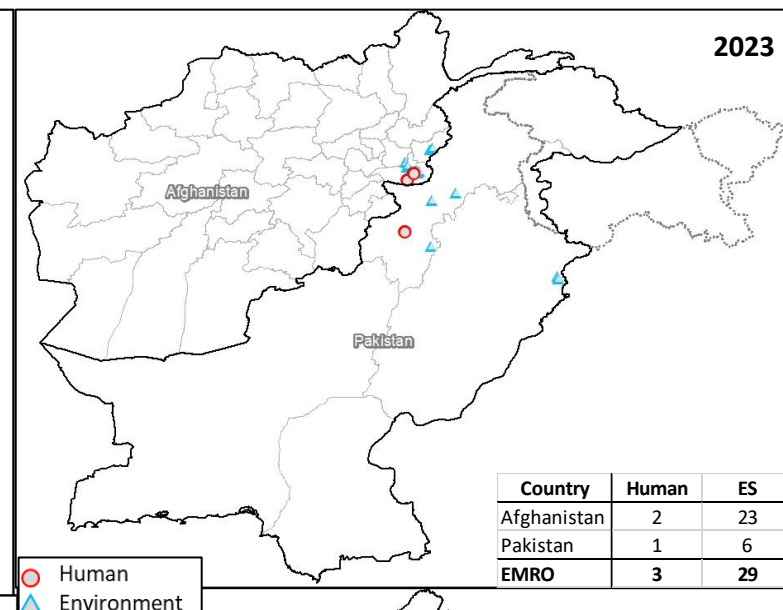
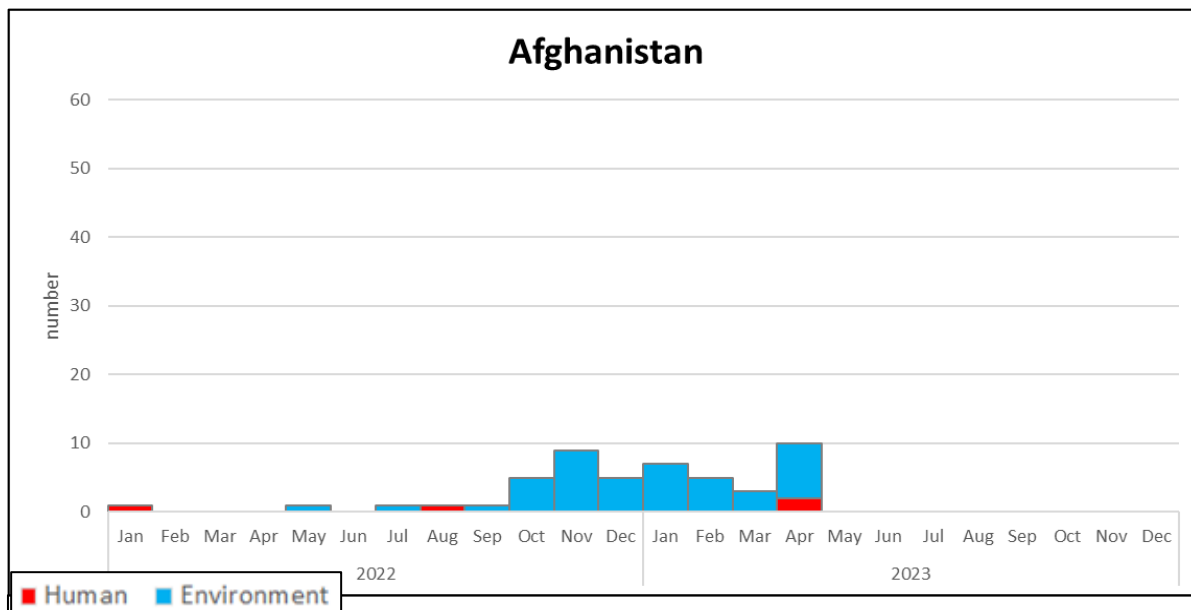
### Stool adequacy



Wild Poliovirus type-1 (WPV1) Vaccine-derived Poliovirus (VDPV)

# WPV1 Positive isolates from Afghanistan and Pakistan by source

EMR Polio Bulletin - Issue No. 1285, Week 20 (ending on 21/05/2023)



# Virus isolation by country, last 12 months (May 21, 2022 to May 21, 2023)

EMR Polio Bulletin - Issue No. 1285, Week 20 (ending on 21/05/2023)

| Source / Virus type     | AFG       | DJI      | PAK       | EGY      | JOR      | SOM      | SUD      | YEM       | Total      |
|-------------------------|-----------|----------|-----------|----------|----------|----------|----------|-----------|------------|
| <b>Human (AFP only)</b> | <b>3</b>  |          | <b>12</b> |          |          | <b>6</b> | <b>1</b> | <b>50</b> | <b>72</b>  |
| Wild                    | 3         |          | 12        |          |          |          |          |           | 15         |
| cVDPV2                  |           |          |           |          |          | 4        | 1        | 50        | 55         |
| aVDPV2                  |           |          |           |          |          | 2        |          |           | 2          |
| VDPV2                   |           |          |           |          |          |          |          |           |            |
| <b>Environment</b>      | <b>44</b> | <b>1</b> | <b>40</b> | <b>1</b> | <b>1</b> | <b>3</b> | <b>1</b> | <b>16</b> | <b>107</b> |
| Wild                    | 44        |          | 40        |          |          |          |          |           | 84         |
| cVDPV2                  |           | 1        |           | 1        |          | 3        | 1        | 16        | 22         |
| aVDPV2                  |           |          |           |          |          |          |          |           |            |
| VDPV2                   |           |          |           |          | 1        |          |          |           | 1          |
| <b>Total</b>            | <b>47</b> | <b>1</b> | <b>52</b> | <b>1</b> | <b>1</b> | <b>9</b> | <b>2</b> | <b>66</b> | <b>179</b> |

*Note: Viruses isolated from 'other' sources (example healthy children) are not included in this analysis; they are shown in page No. (8)*

# Confirmed Wild Polio 1 Cases by month of onset

EMR Polio Bulletin - Issue No. 1285, Week 20 (ending on 21/05/2023)

| Country        | Total year<br>2021 | Total year<br>2022 | 21 May |      | Confirmed Wild Polio 1 Cases by month of onset |     |     |     |     |     |     |      |     |     |     |     | Recent<br>most<br>Case |
|----------------|--------------------|--------------------|--------|------|--|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------------------------|
|                |                    |                    |        |      | 2022   |     |     |     |     |     |     | 2023 |     |     |     |     |                        |
|                |                    |                    | 2022   | 2023 | Jun  | Jul | Aug | Sep | Oct | Nov | Dec | Jan  | Feb | Mar | Apr | May |                        |
| Afghanistan    | 4                  | 2                  | 1      | 2    | 0  | 0   | 1   | 0   | 0   | 0   | 0   |      | 0   | 0   | 2   |     | 14-Apr-23              |
| Bahrain        | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0   |     |     |     |                        |
| Djibouti       | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   |     |     |                        |
| Egypt          | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0   |     |     |     |                        |
| 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   |     |     |                        |
| Lebanon ****   | 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   |     |     |     |                        |
| 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       | 1                  | 20                 | 9      | 1    | 4  | 0   | 5   | 1   | 0   | 0   |     | 0    | 1   | 0   |     |     | 20-Feb-23              |
| Palestine **** | 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   |     |     |     |                        |
| Somalia        | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   |      | 0   | 0   |     |     |                        |
| Sudan          | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0   |     |     |     |                        |
| Syria ****     | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   |     |     |                        |
| Tunisia        | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   | 0   |     |                        |
| U.A.E          | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0   |     |     |     |                        |
| Yemen          | 0                  | 0                  | 0      | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0   |      |     |     |     |     |                        |
| EMR            | 5                  | 22                 | 10     | 3    | 4  | 0   | 6   | 1   | 0   | 0   | 0   | 0    | 1   | 0   | 2   | 0   | 20-Feb-23              |

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

# Investigation of AFP cases with paralysis onset in 2022 & 2023

EMR Polio Bulletin - Issue No. 1285, Week 20 (ending on 21/05/2023)

| COUNTRY      | 2023      |                                    |                  |                           |          |   |   |                               |                                | 2022      |                                    |                  |                           |          |   |   |                                 |                                | Line List      |
|--------------|-----------|------------------------------------|------------------|---------------------------|----------|---|---|-------------------------------|--------------------------------|-----------|------------------------------------|------------------|---------------------------|----------|---|---|---------------------------------|--------------------------------|----------------|
|              | AFP cases | Case classification                |                  |                           |          |   |   | Surveillance indicators       |                                | AFP cases | Case classification                |                  |                           |          |   |   | Surveillance indicators         |                                | Date of latest |
|              |           | Total Confirmed WPV1 Polio Cases * | Polio Compatible | Discarded (non Polio AFP) | VDPV *** | Pending classification > 90 days from onset | Pending LAB classification > 90 days from onset | Annualized Non polio AFP rate | % with adequate specimens **** |           | Total Confirmed WPV1 Polio Cases * | Polio Compatible | Discarded (non polio AFP) | VDPV *** | Pending classification > 90 days from onset | Pending LAB classification > 90 days from onset | Annualized Non polio AFP rate * | % with adequate specimens **** |                |
| AFGHANISTAN  | 2094      | 2                                  | 0                | 1685                      | 0        | 23  | 3   | 24.06                         | 94.70                          | 5368      | 2                                  | 0                | 5365                      | 1        | 0   | 0   | 24.34                           | 94.41                          | 21-May-23      |
| BAHRAIN      | 6         | 0                                  | 0                | 2                         | 0        | 1   | 0   | 5.19                          | 100.00                         | 30        | 0                                  | 0                | 30                        | 0        | 0   | 0   | 10.02                           | 83.33                          | 21-May-23      |
| DJIBOUTI     | 4         | 0                                  | 0                | 2                         | 0        | 0   | 0   | 2.46                          | 100.00                         | 19        | 0                                  | 0                | 19                        | 0        | 0   | 0   | 4.65                            | 57.89                          | 21-May-23      |
| EGYPT        | 585       | 0                                  | 0                | 468                       | 0        | 5   | 0   | 3.67                          | 87.86                          | 1394      | 0                                  | 0                | 1382                      | 0        | 10  | 0   | 3.48                            | 91.54                          | 18-May-23      |
| IRAN         | 402       | 0                                  | 0                | 387                       | 0        | 0   | 0   | 4.96                          | 96.27                          | 824       | 0                                  | 0                | 824                       | 0        | 0   | 0   | 4.06                            | 97.69                          | 20-May-23      |
| IRAQ         | 347       | 0                                  | 0                | 239                       | 0        | 10  | 0   | 5.11                          | 93.37                          | 835       | 0                                  | 0                | 835                       | 0        | 0   | 0   | 4.78                            | 91.86                          | 18-May-23      |
| JORDAN       | 46        | 0                                  | 0                | 42                        | 0        | 0   | 0   | 2.74                          | 97.83                          | 89        | 0                                  | 0                | 89                        | 0        | 0   | 0   | 2.14                            | 94.38                          | 18-May-23      |
| KUWAIT       | 28        | 0                                  | 0                | 17                        | 0        | 0   | 0   | 8.42                          | 75.00                          | 52        | 0                                  | 0                | 52                        | 0        | 0   | 0   | 5.62                            | 98.08                          | 21-May-23      |
| LEBANON      | 35        | 0                                  | 0                | 19                        | 0        | 4   | 0   | 5.87                          | 77.14                          | 57        | 0                                  | 0                | 49                        | 0        | 8   | 1   | 3.58                            | 85.96                          | 14-May-23      |
| LIBYA        | 38        | 0                                  | 0                | 25                        | 0        | 0   | 0   | 3.80                          | 97.37                          | 101       | 0                                  | 0                | 101                       | 0        | 0   | 0   | 3.89                            | 100.00                         | 20-May-23      |
| MOROCCO      | 46        | 0                                  | 0                | 18                        | 0        | 13  | 1   | 0.99                          | 52.17                          | 94        | 0                                  | 0                | 84                        | 0        | 10  | 0   | 0.92                            | 59.57                          | 8-May-23       |
| OMAN         | 11        | 0                                  | 0                | 10                        | 0        | 0   | 0   | 2.26                          | 100.00                         | 27        | 0                                  | 0                | 27                        | 0        | 0   | 0   | 2.10                            | 92.59                          | 21-May-23      |
| PAKISTAN     | 5834      | 1                                  | 0                | 4844                      | 0        | 89  | 0   | 15.44                         | 86.73                          | 19028     | 20                                 | 1                | 19004                     | 0        | 3   | 0   | 18.85                           | 85.16                          | 21-May-23      |
| PALESTINE    | 11        | 0                                  | 0                | 6                         | 0        | 1   | 0   | 1.37                          | 90.91                          | 33        | 0                                  | 0                | 32                        | 0        | 0   | 0   | 1.64                            | 100.00                         | 21-May-23      |
| QATAR        | 8         | 0                                  | 0                | 3                         | 0        | 0   | 0   | 4.77                          | 75.00                          | 11        | 0                                  | 0                | 11                        | 0        | 0   | 0   | 2.44                            | 72.73                          | 21-May-23      |
| SAUDI ARABIA | 108       | 0                                  | 0                | 51                        | 0        | 0   | 0   | 3.35                          | 97.22                          | 274       | 0                                  | 0                | 274                       | 0        | 0   | 0   | 3.18                            | 97.45                          | 21-May-23      |
| SOMALIA      | 159       | 0                                  | 0                | 136                       | 2        | 1   | 1   | 4.59                          | 96.23                          | 356       | 0                                  | 0                | 349                       | 6        | 0   | 0   | 4.28                            | 97.47                          | 21-May-23      |
| SUDAN        | 179       | 0                                  | 0                | 154                       | 0        | 3   | 0   | 2.26                          | 97.21                          | 650       | 0                                  | 0                | 649                       | 1        | 0   | 0   | 3.25                            | 97.08                          | 13-Apr-23      |
| SYRIA        | 111       | 0                                  | 0                | 93                        | 0        | 0   | 0   | 3.71                          | 98.20                          | 382       | 0                                  | 0                | 382                       | 0        | 0   | 0   | 4.96                            | 94.76                          | 20-May-23      |
| TUNISIA      | 33        | 0                                  | 0                | 31                        | 0        | 0   | 0   | 2.94                          | 75.76                          | 55        | 0                                  | 0                | 55                        | 0        | 0   | 0   | 1.91                            | 65.45                          | 19-May-23      |
| U.A.E.       | 26        | 0                                  | 0                | 7                         | 0        | 6   | 0   | 4.57                          | 92.31                          | 66        | 0                                  | 0                | 66                        | 0        | 0   | 0   | 4.47                            | 96.97                          | 17-May-23      |
| YEMEN        | 394       | 0                                  | 0                | 248                       | 0        | 8   | 4   | 6.40                          | 88.32                          | 1377      | 0                                  | 1                | 1214                      | 162      | 0   | 0   | 8.76                            | 86.64                          | 20-May-23      |
| EMR POL      | 10505     | 3                                  | 0                | 8487                      | 2        | 164   | 9   | 9.33                          | 89.45                          | 31122     | 22                                 | 2                | 30893                     | 170      | 31  | 1   | 10.77                           | 88.24                          |                |

\* 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, with 14 days of paralysis onset and specimens received in the lab in 'Good Condition'

\*\*\*\* Includes all VDPV cases. Further details available in page (8)

For further details on Contacts click: [🔗 detail of contact samples](#)

# Laboratory investigation of AFP cases with paralysis onset in 2023

EMR Polio Bulletin - Issue No. 1285, Week 20 (ending on 21/05/2023)

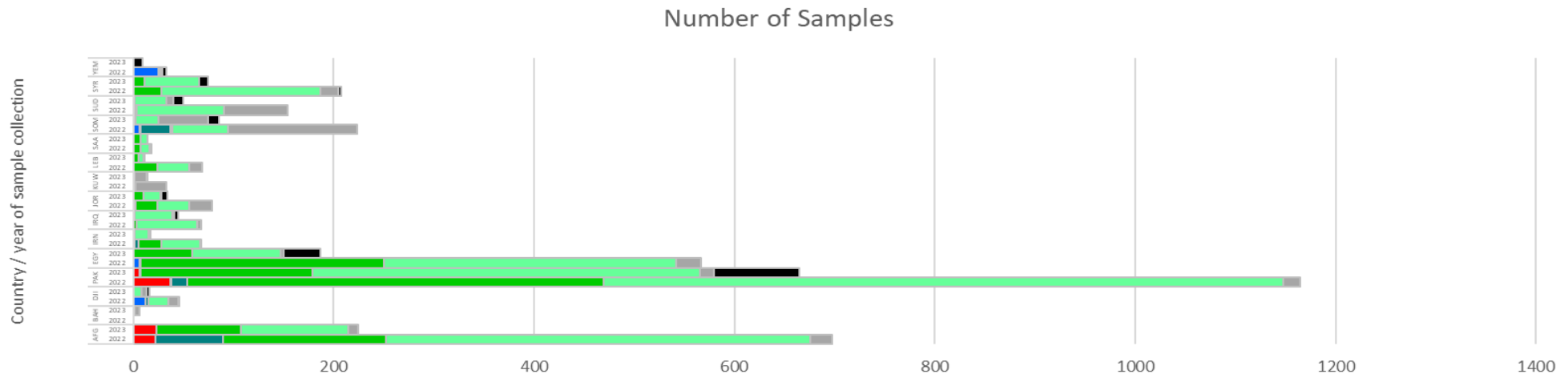
| Country           | Polio laboratories                                | AFP cases with specimens | Preliminary virus isolation results of AFP cases |              |           |          |                              |                                | Poliovirus intratypic differentiation results |       |      |        |       |        |        |       |      |                             |             |        | Indicators  |                               |   |  | Latest report Date |  |
|-------------------|---|--------------------------|--|--------------|-----------|----------|------------------------------|--------------------------------|---|-------|------|--------|-------|--------|--------|-------|------|-----------------------------|-------------|--------|-------------|-------------------------------|---|--|--------------------|--|
|                   | ITD / Nucleotide Sequencing                       |                          | 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** |
|                   | Sequencing performed by CDC and RIVM laboratories |                          | L20B+  | L20B+ / NPEV |           |          | received within last 14 days | received more than 14 days ago | Wild  | Sabin | VDPV | Wild   | Sabin | VDPV   | Wild   | Sabin | VDPV |                             |             |        |             |                               |   |  |                    |  |
| Afghanistan       | RRL Pakistan                                      | 2046                     | 110  | 7            | 167       | 1435     | 215                          | 67                             | 2   | 72    |      |        |       |        |        | 92    |      |                             | 2           | 2      |             | 8%                            | 90%   | 100%                                       | 99%                | 21-May-23  |
| Bahrain           | NPL Oman / CDC                                    | 3                        |  |              |           | 3        |                              |                                |   |       |      |        |       |        |        |       |      |                             |             |        |             | 0%                            | 100%  |  | 0%                 | 18-May-23  |
| Djibouti          | NPL Kenya / CDC                                   | 4                        |  |              |           | 2        | 1                            | 1                              |   |       |      |        |       |        |        |       |      |                             |             |        |             | 0%                            | 100%  |  | 100%               | 21-May-23  |
| Egypt             | RRL Egypt   | 559                      | 4  |              | 37        | 458      | 20                           | 41                             |   | 3     |      |        |       |        |        | 3     |      |                             |             |        |             | 7%                            | 98%   | 100%                                       | 100%               | 11-May-23  |
| Iran              | NPL Iran / CDC                                    | 437                      | 1  |              | 2         | 395      | 39                           | 1                              |   | 1     |      |        |       |        |        |       |      |                             |             |        |             | 0%                            | 100%  | 100%                                       | 99%                | 20-May-23  |
| Iraq              | NPL Iraq, RRL Egypt                               | 348                      | 3  |              | 19        | 287      | 33                           | 6                              |   | 2     |      |        |       |        |        | 2     |      |                             |             |        |             | 6%                            | 100%  | 100%                                       | 100%               | 19-May-23  |
| Jordan            | NPL Jordan, RRL Egypt                             | 46                       |  |              | 9         | 34       | 3                            |                                |   |       |      |        |       |        |        |       |      |                             |             |        |             | 20%                           | 95%   |  | 100%               | 21-May-23  |
| Kuwait            | RRL Kuwait / RIVM                                 | 25                       |  |              | 2         | 21       | 1                            | 1                              |   |       |      |        |       |        |        |       |      |                             |             |        |             | 9%                            | 100%  |  | 100%               | 18-May-23  |
| Lebanon           | NPL Jordan, NPL Syria, RRL Egypt                  | 25                       |  |              |           | 25       |                              |                                |   |       |      |        |       |        |        |       |      |                             |             |        |             | 0%                            | 100%  |  |                    | 11-May-23  |
| Libya             | RRL Tunisia / RIVM                                | 33                       |  |              | 1         | 28       | 1                            | 3                              |   |       |      |        |       |        |        |       |      |                             |             |        |             | 3%                            | 93%   |  | 100%               | 12-May-23  |
| Morocco           | NPL Morocco, RRL Tunisia                          | 47                       |  |              | 2         | 41       | 4                            |                                |   |       |      |        |       |        |        |       |      |                             |             |        |             | 3%                            | 98%   |  | 91%                | 19-May-23  |
| Oman              | NPL Oman / CDC                                    | 11                       |  |              | 1         | 9        | 1                            |                                |   |       |      |        |       |        |        |       |      |                             |             |        |             | 11%                           | 100%  |  | 100%               | 18-May-23  |
| Pakistan          | RRL Pakistan                                      | 5733                     | 158  | 7            | 460       | 4407     | 432                          | 260                            | 1   | 98    |      |        |       |        |        | 124   |      |                             |             |        |             | 8%                            | 90%   | 100%                                       | 97%                | 21-May-23  |
| Palestine & UNRWA |   | 11                       |  |              |           | 8        | 1                            | 2                              |   |       |      |        |       |        |        |       |      |                             |             |        |             | 0%                            | 43%   |  | 100%               | 21-May-23  |
| Qatar             | NPL Oman / CDC                                    | 7                        |  |              |           | 6        | 1                            |                                |   |       |      |        |       |        |        |       |      |                             |             |        |             | 0%                            | 100%  |  | 100%               | 18-May-23  |
| Saudi Arabia      | NPL Saudi Arabia / CDC                            | 103                      | 1  |              | 4         | 96       |                              | 2                              |   | 1     |      |        |       |        |        |       |      |                             |             |        |             | 4%                            | 100%  | 100%                                       | 99%                | 4-May-23   |
| Somalia           | NPL Kenya / CDC                                   | 159                      | 4  |              | 22        | 113      | 12                           | 9                              |   | 1     |      |        | 2     | 2      |        |       |      |                             |             |        |             | 16%                           | 4%  |  | 95%                | 21-May-23  |
| Sudan             | NPL Sudan / RRL Egypt                             | 187                      | 5  |              | 28        | 137      |                              | 17                             |   |       |      |        |       |        |        | 1     |      |                             |             |        |             | 16%                           | 99%   | 100%                                       | 100%               | 14-Apr-23  |
| Syria             | NPL Syria / RRL Egypt                             | 102                      | 1  |              | 2         | 89       | 7                            | 3                              |   |       |      |        |       |        |        |       |      |                             |             |        |             | 3%                            | 100%  |  |                    | 11-May-23  |
| Tunisia           | RRL Tunisia                                       | 73                       | 2  |              | 2         | 62       | 2                            | 5                              |   |       |      |        | 1     |        |        | 1     |      |                             |             |        |             | 3%                            | 97%   | 1  | 98%                | 12-May-23  |
| U.A.E             | NPL Oman / CDC                                    | 24                       |  |              | 1         | 16       | 7                            |                                |   |       |      |        |       |        |        |       |      |                             |             |        |             | 6%                            | 100%  |  | 12%                | 18-May-23  |
| Yemen             | NPLs Oman, Jordan & Kenya, RRL Egypt              | 261                      | 10   |              | 37        | 202      |                              | 12                             |   | 6     |      |        | 1     |        |        | 8     |      |                             |             |        |             | 14%                           | 12%   | 100%                                       | 4%                 | 20-May-23  |
| Total EMR 2023    |   | 10244                    | 299  | 14           | 796       | 7874     | 780                          | 430                            | 3   | 184   |      |        | 4     | 2      |        | 231   |      |                             | 2           | 2      |             | 8%                            | 88%   | 100%                                       | 95%                |  |
| Total EMR 2022    |   | 30459                    | 1065   | 119          | 4831      | 24430    |                              | 10                             | 22 *  | 555   | 1    |        | 38    | 169 ** |        | 722   |      | 6                           | 8           | 2      | 2           | 13%                           | 93%   | 89%  | 92%                |  |

\* In 2022 - Three WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

\*\* In 2022 - Five cVDPV2 cases are identified by positive contacts (Index cases were negative for cVDPV2)

# Environmental Surveillance Isolation by Classification

EMR Polio Bulletin - Issue No. 1285, Week 20 (ending on 21/05/2023)

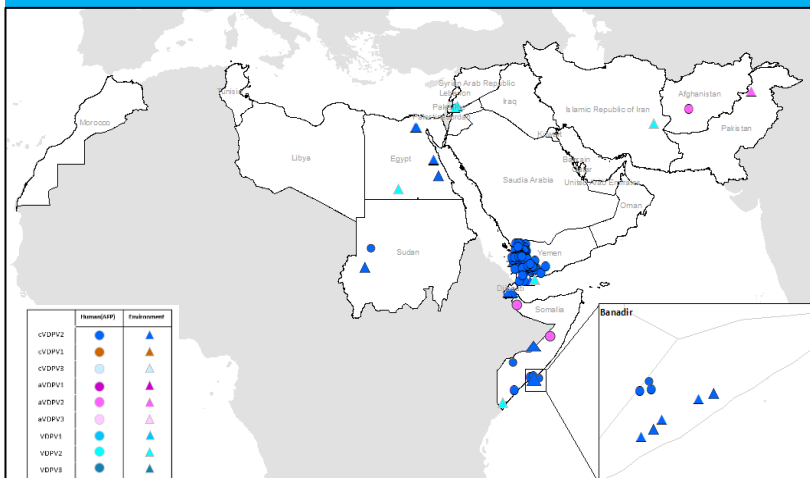


|             | AFG  |      | BAH  |      | DJI  |      | PAK  |      | EGY  |      | IRN  |      | IRQ  |      | JOR  |      | KUW  |      | LEB  |      | SAA  |      | SOM  |      | SUD  |      | SYR  |      | YEM  |      |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|             | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 | 2022 | 2023 |
| Wild        | 22   | 23   |      |      |      |      | 37   | 6    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| cVDPV2      |      |      |      |      | 12   |      |      |      | 6    |      |      |      |      |      |      |      |      |      |      |      |      | 6    |      |      | 1    |      |      |      | 25   |      |
| Wild+cVDPV2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Wild+aVDPV2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Wild+aVDPV3 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| aVDPV1      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| aVDPV2      |      |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| aVDPV3      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| VDPV1       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| VDPV2       |      |      |      |      |      |      |      |      | 1    | 1    | 1    |      |      |      | 2    |      |      |      |      |      |      |      | 1    |      |      |      |      |      | 2    |      |
| VDPV3       |      |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| SL2         | 68   |      |      |      | 3    |      | 16   |      |      |      | 4    |      |      |      |      |      |      |      |      |      |      | 30   | 2    |      |      |      |      |      | 1    |      |
| SL1/3       | 162  | 84   |      |      |      |      | 415  | 172  | 243  | 59   | 23   | 1    | 3    | 1    | 22   | 10   |      |      | 24   | 5    | 7    | 7    | 2    |      | 2    | 1    | 28   | 11   | 1    |      |
| Entero      | 424  | 108  |      | 1    | 20   | 8    | 679  | 387  | 292  | 88   | 39   | 14   | 61   | 38   | 32   | 17   | 2    | 1    | 32   | 5    | 9    | 7    | 56   | 23   | 88   | 32   | 159  | 55   |      |      |
| Negative    | 22   | 9    |      | 5    | 10   | 5    | 17   | 14   | 25   | 3    | 1    |      | 4    | 2    | 23   | 1    | 31   | 12   | 13   | 1    | 2    |      | 128  | 50   | 63   | 7    | 18   |      |      |      |
| Pending     |      |      |      |      | 1    | 3    |      | 85   |      | 37   |      | 2    |      | 4    |      | 6    |      | 1    |      |      |      |      |      | 11   |      | 10   | 3    | 9    | 4    | 9    |

# VDPVs isolations by Source and Country

EMR Polio Bulletin - Issue No. 1285 Week 20 (ending on 21/05/2023)

## VDPV Isolates, EMR countries, 2022



## VDPVs isolated from 2018-2023

| VDPV Isolate type | EMR Country | Sources          |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
|-------------------|-------------|------------------|------|------|------|------|------|-----------------|------|------|------|------|------|-------------|-------------|------|------|------|------|----------------------------------|----------|-------------|----------|------|------|------|------|------|-------------|
|                   |             | AFP cases(Human) |      |      |      |      |      | Contacts(Human) |      |      |      |      |      | Environment |             |      |      |      |      | Other Sources (Healthy Children) |          |             |          |      |      |      |      |      |             |
|                   |             | 2018             | 2019 | 2020 | 2021 | 2022 | 2023 | Most recent     | 2018 | 2019 | 2020 | 2021 | 2022 | 2023        | Most recent | 2018 | 2019 | 2020 | 2021 | 2022                             | 2023     | Most recent | 2017     | 2018 | 2019 | 2020 | 2021 | 2022 | Most recent |
| cVDPV2            | Afghanistan |                  |      | 307  | 43   |      |      | 09-07-21        |      |      |      |      |      |             |             |      |      | 174  | 40   |                                  |          | 23-06-21    |          |      |      |      |      |      |             |
|                   | Djibouti    |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      | 5    | 12                               |          |             | 22-05-22 |      |      |      |      |      |             |
|                   | Egypt       |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      | 12   | 6                                |          |             | 29-08-22 |      |      |      |      |      |             |
|                   | Iran        |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      | 3    | 1                                |          |             | 20-02-21 |      |      |      |      |      |             |
|                   | Pakistan    |                  | 22   | 135  | 8    |      |      | 23-04-21        |      |      |      |      |      |             |             |      | 38   | 135  | 35   |                                  |          |             | 11-08-21 |      |      |      |      |      |             |
|                   | Somalia     | 6                | 3    | 14   | 1    | 5    | 2    | 02-03-23        | 3    | 1    | 11   |      | 5    |             | 31-08-22    | 19   | 5    | 26   | 1    | 6                                |          | 22-12-22    |          | 1    |      | 5    |      | 1    | 10-03-22    |
|                   | Sudan       |                  |      | 58   |      | 1    |      | 31-10-22        |      |      | 18   |      |      |             | 08-10-20    |      |      | 14   |      | 1                                |          | 28-11-22    |          |      | 4    |      |      |      | 24-08-20    |
|                   | Yemen       |                  |      |      |      | 66   | 162  | 14-12-22        |      |      |      | 23   | 40   |             | 19-12-22    |      |      |      | 13   | 25                               |          | 28-11-22    |          |      |      |      |      |      |             |
| cVDPV1            | Yemen       |                  | 1    | 31   | 3    |      |      | 27-03-21        |      | 2    |      |      |      | 10-07-19    |             |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
| cVDPV3            | Somalia     | 7                |      |      |      |      |      | 07-09-18        | 7    |      |      |      |      | 30-06-18    | 12          |      |      |      |      |                                  | 23-08-18 |             |          |      |      |      |      |      |             |
| aVDPV1            | Afghanistan |                  |      |      | 1    |      |      | 22-02-21        |      |      |      |      |      |             |             |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
|                   | Egypt       |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      | 1    |      |                                  |          | 16-07-20    |          |      |      |      |      |      |             |
|                   | Pakistan    |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      | 1    |                                  |          | 10-02-21    |          |      |      |      |      |      |             |
|                   | Somalia     |                  |      | 1    |      |      |      | 26-01-20        |      |      |      |      |      |             |             |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
|                   | Yemen       |                  |      |      | 1    |      |      | 20-07-21        |      |      |      |      |      |             |             |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
| aVDPV2            | Afghanistan |                  |      | 3    | 1    | 1    |      | 01-01-22        |      |      | 75   | 15   | 1    |             | 14-02-22    |      |      | 2    | 3    |                                  |          | 25-07-21    |          |      |      |      |      |      |             |
|                   | Egypt       |                  |      |      |      | 1    |      | 30-05-21        |      |      |      |      | 1    |             | 14-06-21    |      |      | 1    |      |                                  |          | 21-09-20    |          |      |      |      |      |      |             |
|                   | Iran        |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      | 2    |                                  |          | 23-09-21    |          |      |      |      |      |      |             |
|                   | Pakistan    |                  |      | 7    | 8    |      |      | 24-09-21        |      | 8    | 19   | 1    |      |             | 28-04-21    |      | 3    | 22   | 37   | 1                                |          | 15-02-22    |          |      |      |      |      |      |             |
|                   | Somalia     |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             | 2    | 1    |      |      |                                  |          | 03-02-19    |          |      |      |      |      |      |             |
|                   | Yemen       |                  |      |      | 3    |      |      | 01-11-21        |      |      |      | 1    |      |             | 09-12-21    |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
| aVDPV3            | Afghanistan |                  |      | 1    |      |      |      | 23-06-20        |      |      |      |      |      |             |             |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
|                   | Egypt       |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      | 2    |      |                                  |          | 30-09-20    |          |      |      |      |      |      |             |
|                   | Pakistan    |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      | 1    |                                  |          | 05-04-21    |          |      |      |      |      |      |             |
|                   | Libya       |                  |      | 1    |      |      |      | 15-01-20        |      |      |      |      |      |             |             |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
| VDPV1             | Egypt       |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      | 1    |      |                                  |          | 11-07-21    |          |      |      |      |      |      |             |
| VDPV2             | Egypt       |                  |      |      |      |      | 1    | 27-02-23        |      |      |      |      |      |             |             |      |      |      | 67   | 1                                |          | 12-01-22    |          |      |      |      |      |      |             |
|                   | Iran        |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      |      | 1                                |          | 04-02-22    |          |      |      |      |      |      |             |
|                   | Jordan      |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      |      | 2                                |          | 25-05-22    |          |      |      |      |      |      |             |
|                   | Somalia     |                  |      |      |      | 1    |      | 01-09-22        |      |      |      |      |      |             |             |      |      |      |      |                                  |          |             |          |      |      |      |      |      |             |
|                   | Yemen       |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      | 1    |                                  |          | 24-04-22    |          |      |      |      |      |      |             |
| VDPV3             | Pakistan    |                  |      |      |      |      |      |                 |      |      |      |      |      |             |             |      |      |      |      | 1                                |          | 14-02-23    |          |      |      |      |      |      |             |



## Important Links

- [Global Polio Eradication Initiative](#)
- [IMST – Outbreak Response Dashboard](#)
- [nOPV2 Tracker](#)
- [Pol-MIS](#) (restricted to registered users)
- [Containment](#) (restricted to registered users)
- [Certification \(e-ACR\)](#) (restricted to registered users)