

## Highlights



Children  
Paralyzed  
by polio



Sewage  
water  
sampling

2021

- 05 cases of Wild Polio 1
  - 04 in Afghanistan
  - 01 in Pakistan

- 113 cases of cVDPV2
  - 43 in Afghanistan
  - 08 in Pakistan
  - 01 in Somalia
  - 61 in Yemen

- 03 cVDPV1 cases
  - All in Yemen

2021

- 66 samples Wild Polio 1
  - 01 in Afghanistan
  - 65 in Pakistan

- 100 samples cVDPV2
  - 40 in Afghanistan
  - 35 in Pakistan
  - 12 in Egypt
  - 01 in Iran
  - 01 in Somalia
  - 05 in Djibouti
  - 06 in Yemen

2022

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

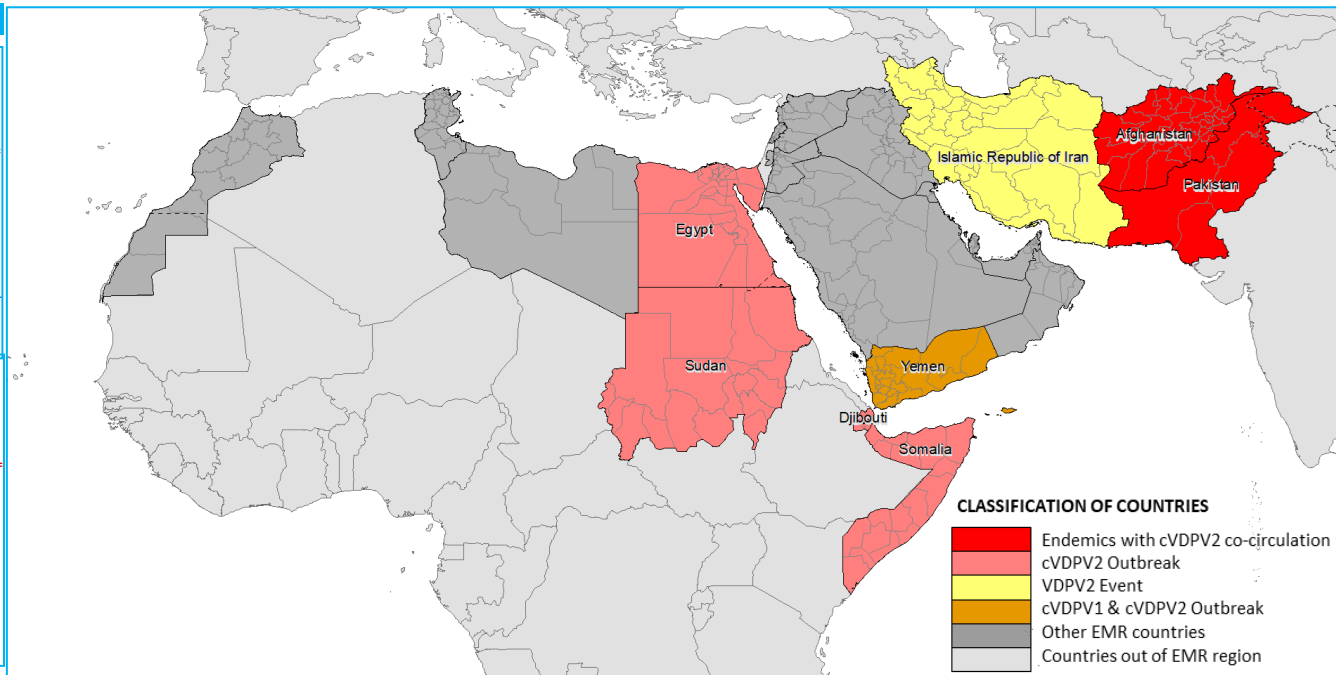
- 12 cases of cVDPV2
  - 02 in Somalia
  - 10 in Yemen

- Zero case of cVDPV1  
(No cVDPV1 for the last ten months)

2022

- 01 sample Wild Polio 1
  - 01 in Pakistan

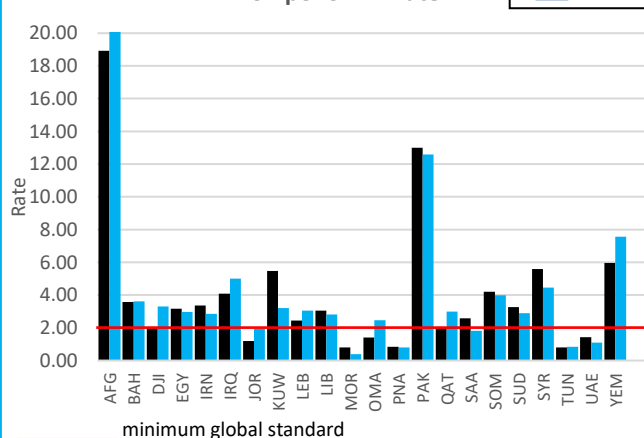
- 2 samples cVDPV2
  - 02 in Egypt
  - 05 in Djibouti



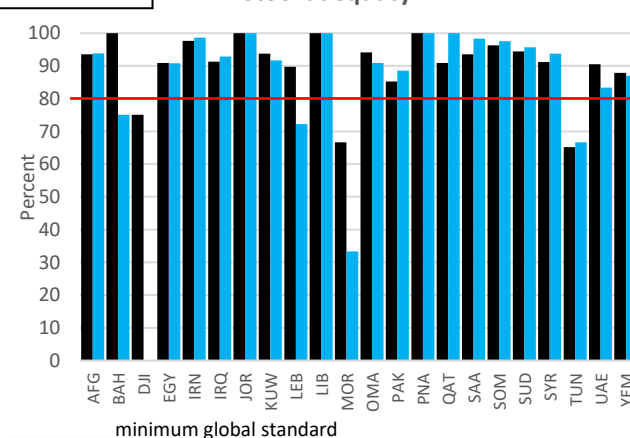
## Highlights of the week

- No new wild or cVDPV2 isolates from human or environmental samples reported this week.
- Pakistan:** Advance notification of a new WPV1 case (3<sup>rd</sup> from Pakistan in 2022) from Khyber Pakhtunkhwa province, North Waziristan district. The case is of a 12 months old male with onset on 2<sup>nd</sup> May 2022
- The first of two **AFP Surveillance and Polio Laboratories Coordinators Intercountry Meetings** was conducted from 10-12 May 2022 in Muscat, Oman. Participating countries included: Bahrain, Egypt, Kuwait, Lebanon, Morocco, Oman, Palestine, Qatar, Saudi Arabia, Tunisia and United Arab Emirates.

Non polio AFP rate



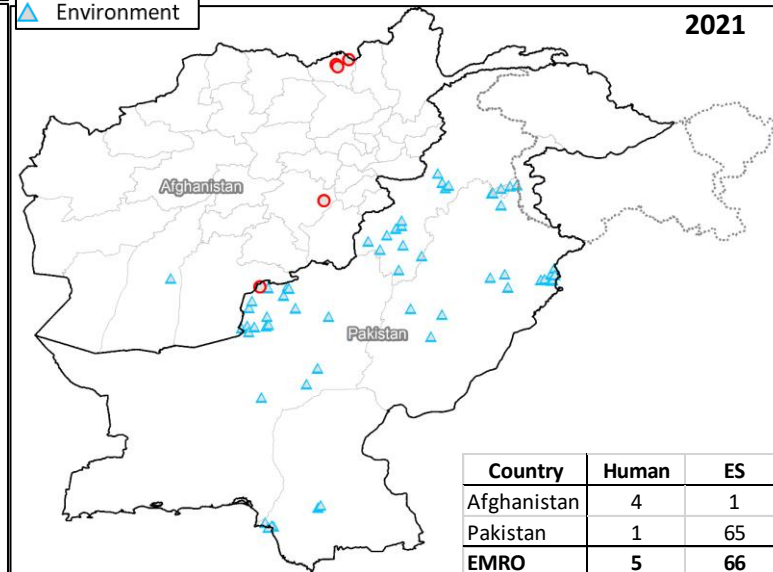
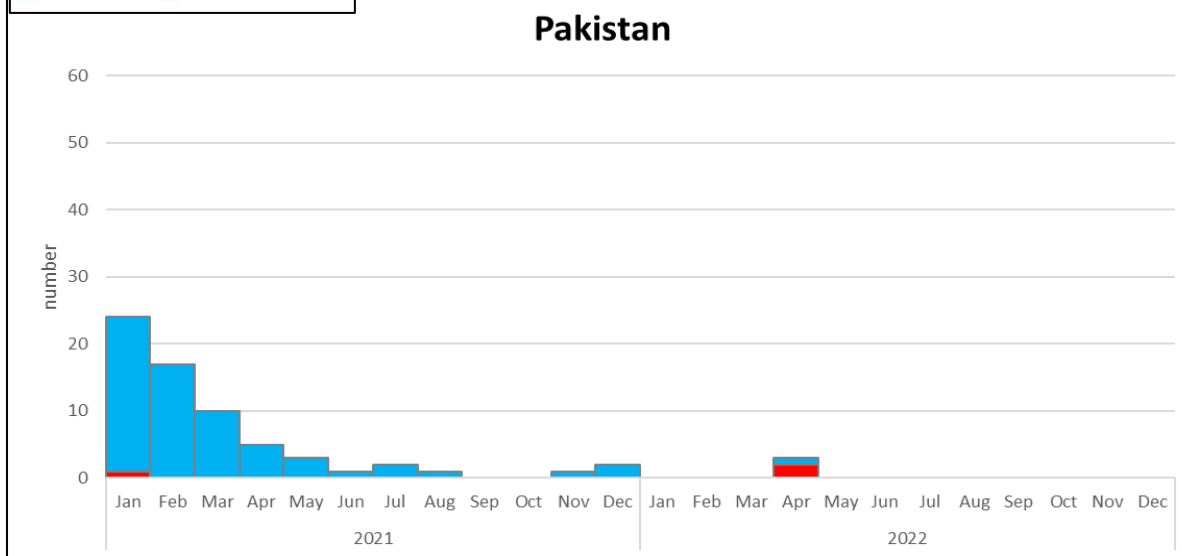
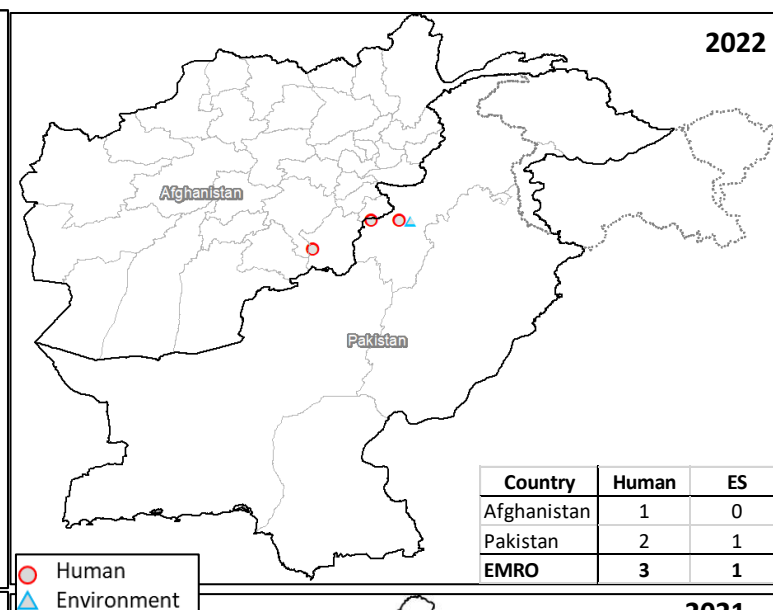
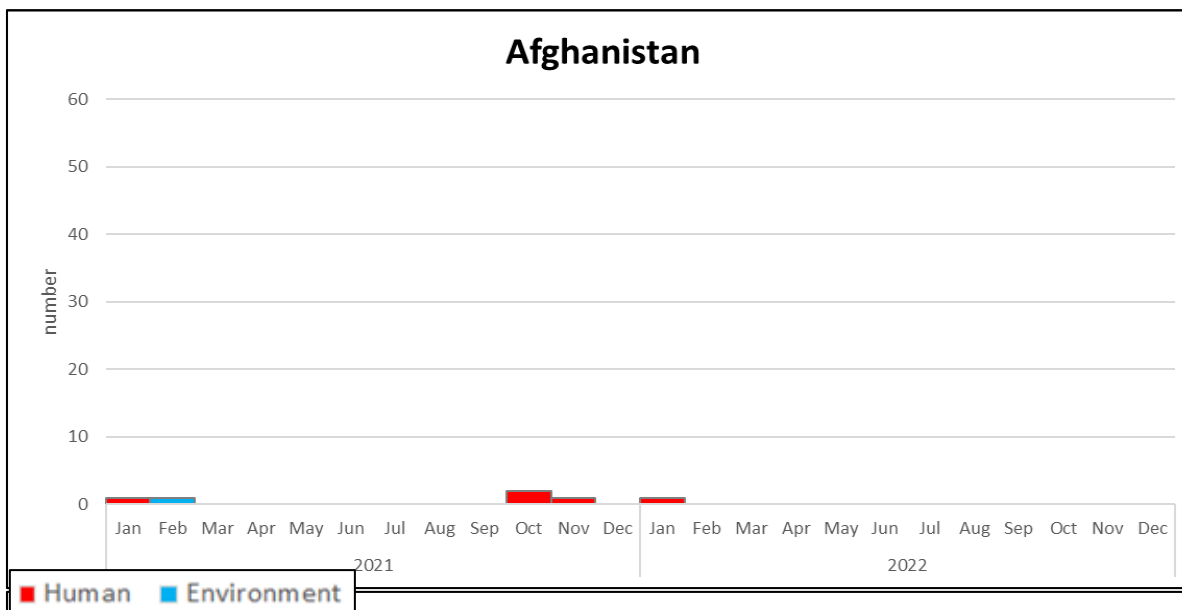
Stool adequacy



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

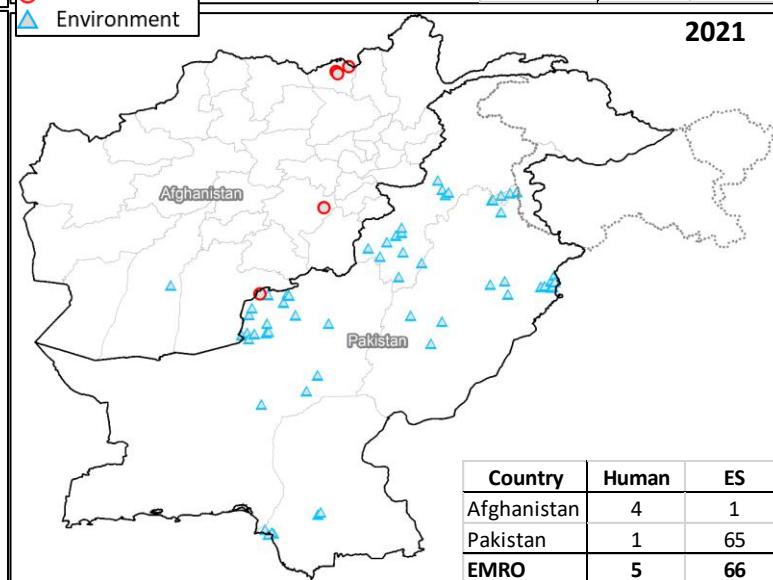
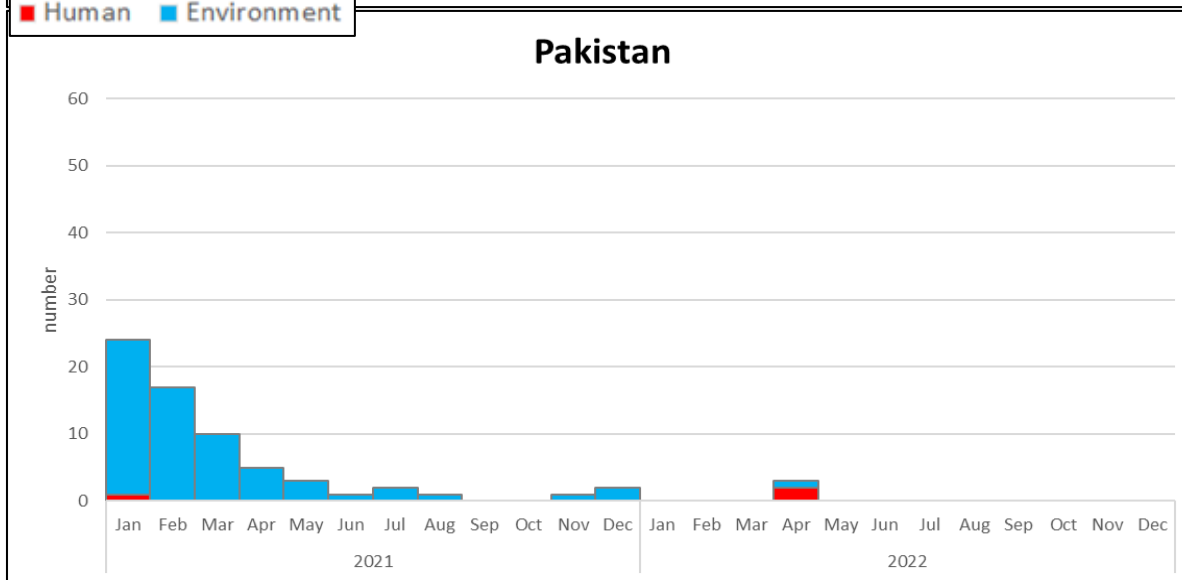
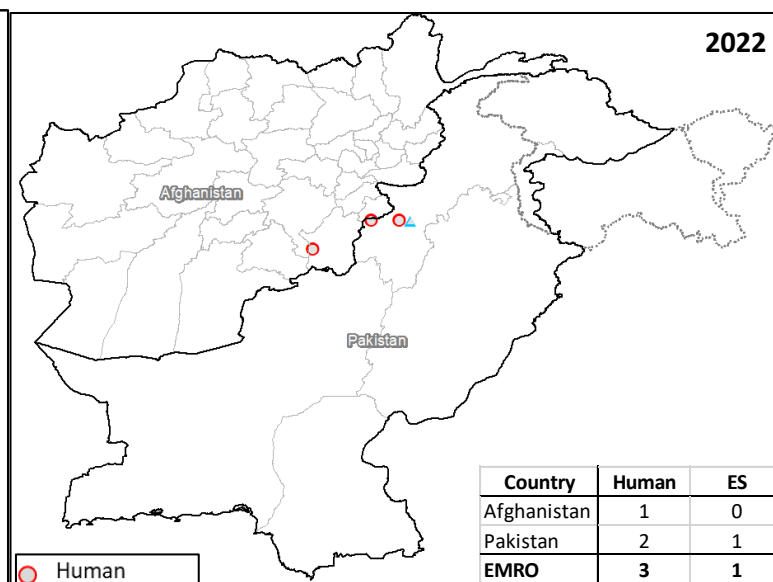
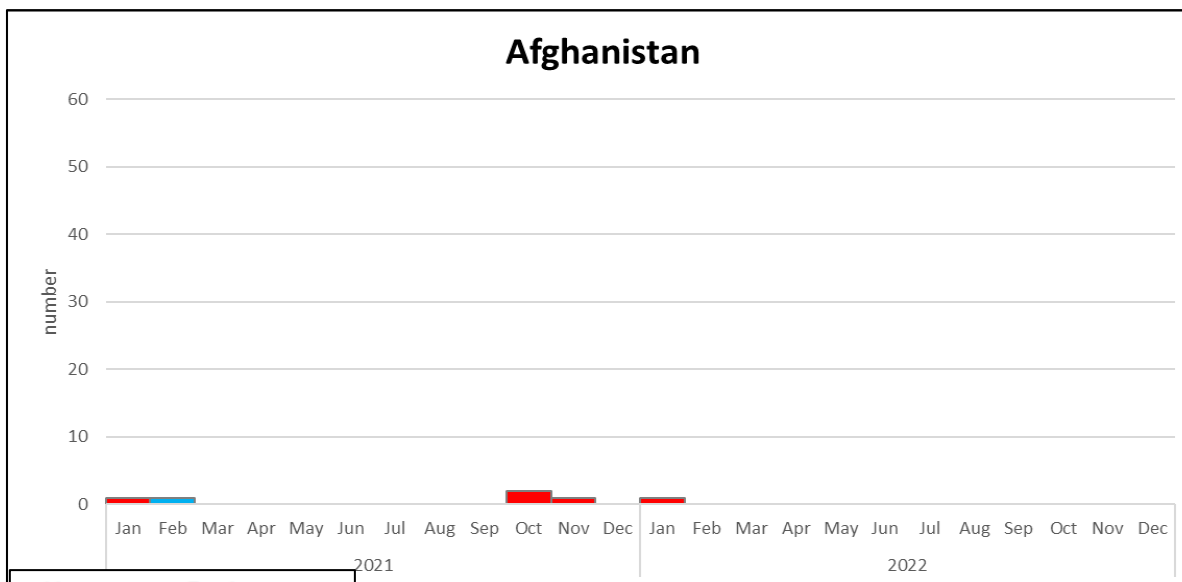
# WPV1 Positive isolates from Afghanistan and Pakistan by source

EMR Polio Bulletin - Issue No. 1232, Week 19 (ending on 15/05/2022)



# WPV1 Positive isolates from Afghanistan and Pakistan by source

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# Confirmed Wild Polio 1 Cases by month of onset

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| Country         | Total year<br>2020 | Total year<br>2021 | 1 May |      | Confirmed Wild Polio 1 Cases by month of onset |     |     |     |     |     |      |     |     |     |     |     | Recent<br>most<br>Case |
|-----------------|--------------------|--------------------|-------|------|--|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------------------------|
|                 |                    |                    |       |      | 2021   |     |     |     |     |     | 2022 |     |     |     |     |     |                        |
|                 |                    |                    | 2021  | 2022 | Jun  | Jul | Aug | Sep | Oct | Nov | Dec  | Jan | Feb | Mar | Apr | May |                        |
| Afghanistan     | 56                 | 4                  | 1     | 1    | 0  | 0   | 0   | 0   | 2   | 1   | 0    | 1   |     | 0   |     |     | 14-Jan-22              |
| Bahrain         | 0                  | 0                  | 0     | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   | 0   |     |     |                        |
| Djibouti        | 0                  | 0                  | 0     | 0    | 0  | 0   | 0   | 0   | 0   | 0   |      | 0   | 0   | 0   | 0   |     |                        |
| Egypt           | 0                  | 0                  | 0     | 0    | 0  | 0   | 0   | 0   | 0   | 0   |      | 0   | 0   | 0   |     |     |                        |
| Iran            | 0                  | 0                  | 0     | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   | 0   |     |     |                        |
| Iraq            | 0                  | 0                  | 0     | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   |     |     |     |                        |
| Jordan *****    | 0                  | 0                  | 0     | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   | 0   |     |     |                        |
| Kuwait          | 0                  | 0                  | 0     | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   | 0   |     |     |                        |
| Lebanon *****   | 0                  | 0                  | 0     | 0    | 0  | 0   | 0   | 0   | 0   | 0   | 0    | 0   | 0   | 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   | 0   |     |                        |
| Pakistan        | 84                 | 1                  | 1     | 2    | 0  | 0   | 0   | 0   | 0   | 0   | 0    | 0   |     | 0   | 2   |     | 14-Apr-22              |
| 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   |     |     |                        |
| 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   |     |     |     |     |                        |
| 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   |     |     |                        |
| 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    | 0   |     |     |     |     |                        |
| EMR             | 140                | 5                  | 2     | 3    | 0  | 0   | 0   | 0   | 2   | 1   | 0    | 1   | 0   | 0   | 2   | 0   | 14-Apr-22              |

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

# Investigation of AFP cases with paralysis onset in 2021 & 2022

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| COUNTRY      | 2021      |                                  |                  |                           |      |   |   |                               |                           | 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  | 4088      | 4                                | 1                | 4038                      | 45   | 0   | 0   | 18.92                         | 93.52                     | 1631      | 1                                | 0                | 1367                      | 1    | 22  | 2   | 20.37                         | 93.81                     | 15-May-22      |
| BAHRAIN      | 11        | 0                                | 0                | 11                        | 0    | 0   | 0   | 3.58                          | 100.00                    | 4         | 0                                | 0                | 1                         | 0    | 1   | 0   | 3.61                          | 75.00                     | 15-May-22      |
| DJIBOUTI     | 8         | 0                                | 0                | 4                         | 0    | 4   | 3   | 2.06                          | 75.00                     | 5         | 0                                | 0                | 0                         | 0    | 3   | 0   | 3.31                          | 0.00                      | 15-May-22      |
| EGYPT        | 1251      | 0                                | 0                | 1239                      | 1    | 11  | 1   | 3.17                          | 90.89                     | 435       | 0                                | 0                | 352                       | 0    | 4   | 0   | 2.98                          | 90.80                     | 12-May-22      |
| IRAN         | 681       | 0                                | 0                | 680                       | 1    | 0   | 0   | 3.36                          | 97.65                     | 214       | 0                                | 0                | 195                       | 0    | 0   | 0   | 2.86                          | 98.60                     | 14-May-22      |
| IRAQ         | 709       | 0                                | 0                | 709                       | 0    | 0   | 0   | 4.08                          | 91.26                     | 321       | 0                                | 0                | 243                       | 0    | 13  | 0   | 5.00                          | 92.83                     | 14-May-22      |
| JORDAN       | 47        | 0                                | 0                | 47                        | 0    | 0   | 0   | 1.19                          | 100.00                    | 29        | 0                                | 0                | 26                        | 0    | 0   | 0   | 1.93                          | 100.00                    | 15-May-22      |
| KUWAIT       | 48        | 0                                | 0                | 48                        | 0    | 0   | 0   | 5.47                          | 93.75                     | 12        | 0                                | 0                | 7                         | 0    | 0   | 0   | 3.22                          | 91.67                     | 8-May-22       |
| LEBANON      | 39        | 0                                | 0                | 39                        | 0    | 0   | 0   | 2.45                          | 89.74                     | 18        | 0                                | 0                | 11                        | 0    | 2   | 0   | 3.06                          | 72.22                     | 8-May-22       |
| LIBYA        | 79        | 0                                | 0                | 79                        | 0    | 0   | 0   | 3.05                          | 100.00                    | 27        | 0                                | 0                | 17                        | 0    | 0   | 0   | 2.82                          | 100.00                    | 14-May-22      |
| MOROCCO      | 78        | 0                                | 0                | 78                        | 0    | 0   | 0   | 0.80                          | 66.67                     | 15        | 0                                | 0                | 0                         | 0    | 4   | 2   | 0.39                          | 33.33                     | 22-Apr-22      |
| OMAN         | 17        | 0                                | 0                | 17                        | 0    | 0   | 0   | 1.41                          | 94.12                     | 11        | 0                                | 0                | 11                        | 0    | 0   | 0   | 2.47                          | 90.91                     | 9-May-22       |
| PAKISTAN     | 13111     | 1                                | 4                | 13080                     | 18   | 8   | 0   | 13.00                         | 85.23                     | 4695      | 2                                | 0                | 3875                      | 0    | 136   | 0   | 12.59                         | 88.54                     | 15-May-22      |
| PALESTINE    | 16        | 0                                | 0                | 16                        | 0    | 0   | 0   | 0.85                          | 100.00                    | 6         | 0                                | 0                | 1                         | 0    | 2   | 0   | 0.81                          | 100.00                    | 15-May-22      |
| QATAR        | 11        | 0                                | 0                | 11                        | 0    | 0   | 0   | 2.03                          | 90.91                     | 5         | 0                                | 0                | 0                         | 0    | 1   | 0   | 3.00                          | 100.00                    | 24-Apr-22      |
| SAUDI ARABIA | 217       | 0                                | 0                | 217                       | 0    | 0   | 0   | 2.59                          | 93.55                     | 59        | 0                                | 0                | 24                        | 0    | 0   | 0   | 1.83                          | 98.31                     | 15-May-22      |
| SOMALIA      | 349       | 0                                | 0                | 348                       | 1    | 0   | 0   | 4.21                          | 96.28                     | 122       | 0                                | 0                | 102                       | 2    | 3   | 3   | 3.98                          | 97.54                     | 15-May-22      |
| SUDAN        | 637       | 0                                | 0                | 637                       | 0    | 0   | 0   | 3.26                          | 94.35                     | 209       | 0                                | 0                | 162                       | 0    | 2   | 0   | 2.90                          | 95.69                     | 12-May-22      |
| SYRIA        | 431       | 0                                | 0                | 431                       | 0    | 0   | 0   | 5.60                          | 91.18                     | 127       | 0                                | 0                | 102                       | 0    | 0   | 0   | 4.46                          | 93.70                     | 14-May-22      |
| TUNISIA      | 23        | 0                                | 0                | 23                        | 0    | 0   | 0   | 0.81                          | 65.22                     | 9         | 0                                | 0                | 6                         | 0    | 0   | 0   | 0.85                          | 66.67                     | 13-May-22      |
| U.A.E.       | 21        | 0                                | 0                | 21                        | 0    | 0   | 0   | 1.42                          | 90.48                     | 6         | 0                                | 0                | 0                         | 0    | 4   | 3   | 1.10                          | 83.33                     | 9-May-22       |
| YEMEN        | 921       | 0                                | 0                | 850                       | 67   | 4   | 2   | 5.96                          | 87.84                     | 431       | 0                                | 0                | 157                       | 10   | 40  | 22  | 7.56                          | 87.01                     | 14-May-22      |
| EMR POL      | 22793     | 5                                | 5                | 22623                     | 133  | 27  | 6   | 7.96                          | 88.36                     | 8391      | 3                                | 0                | 6659                      | 13   | 237   | 32  | 7.91                          | 90.36                     |                |

\* 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)

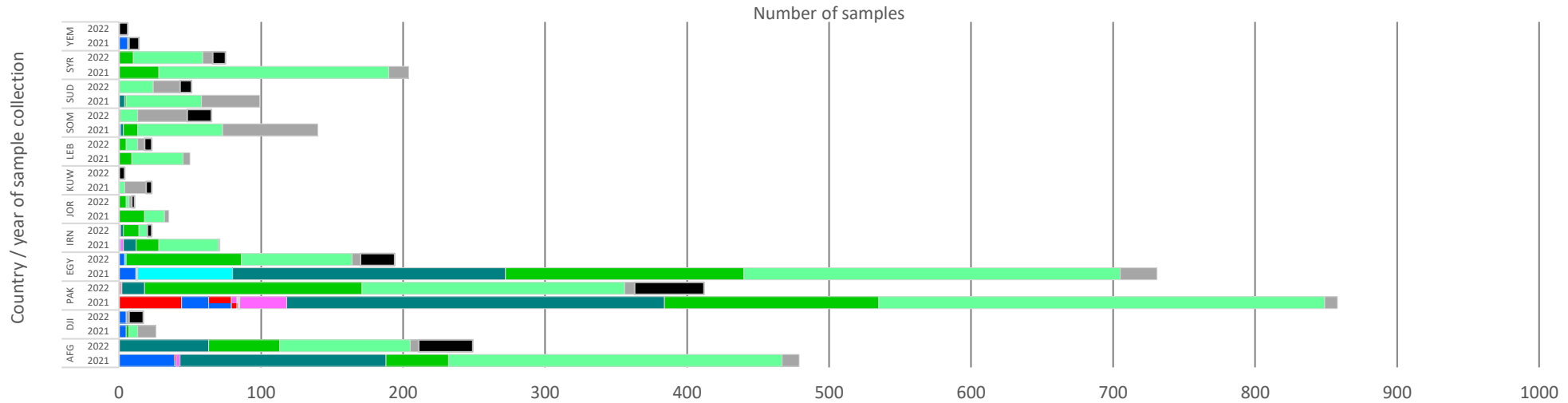
# Laboratory investigation of AFP cases with paralysis onset in 2022

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| 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                                      | 1601                     | 115  | 14           | 255       | 1027     | 118                          | 33                             | 1   | 78    |      |        | 8     |      |        | 91    |      |                             |             |        | 1           | 14%                            | 93%   | 100%                                       | 99%  | 15-May-22 |                    |
| Bahrain           | NPL Oman / CDC                                    | 3                        |  |              |           | 3        |                              |                                |   |       |      |        |       |      |        |       |      |                             |             |        |             | 0%                             | 100%  |  | 100%   | 15-May-22 |                    |
| Djibouti          | NPL Kenya / CDC                                   | 5                        |  |              |           |          |                              | 5                              |   |       |      |        |       |      |        |       |      |                             |             |        |             |                                |   |  |  | 15-May-22 |                    |
| Egypt***          | RRL Egypt   | 441                      | 14   | 1            | 47        | 323      | 22                           | 34                             |   | 4     |      |        |       |      |        | 11    |      |                             | 1           | 1      |             | 10%                            | 98%   | 100%                                       | 100%   | 15-May-22 |                    |
| Iran              | NPL Iran / CDC                                    | 236                      | 3  |              | 2         | 204      | 26                           | 1                              |   | 2     | 1    |        |       |      |        | 2     |      |                             |             |        |             | 1%                             | 100%  | 100%                                       | 99%  | 15-May-22 |                    |
| Iraq              | NPL Iraq, RRL Egypt                               | 326                      | 1  |              | 25        | 285      | 13                           | 2                              |   |       |      |        |       |      |        | 2     |      |                             |             |        |             | 8%                             | 100%  | 50%  | 100%   | 14-May-22 |                    |
| Jordan            | NPL Jordan, RRL Egypt                             | 29                       | 1  |              | 7         | 18       |                              | 3                              |   |       |      |        |       |      |        | 1     |      |                             |             |        |             | 27%                            | 100%  | 1  | 100%   | 10-May-22 |                    |
| Kuwait            | RRL Kuwait / RIVM                                 | 10                       |  |              |           | 6        |                              | 4                              |   |       |      |        |       |      |        |       |      |                             |             |        |             | 0%                             | 100%  |  | 100%   | 8-May-22  |                    |
| Lebanon           | NPL Jordan, NPL Syria, RRL Egypt                  | 12                       |  |              |           | 12       |                              |                                |   |       |      |        |       |      |        |       |      |                             |             |        |             | 0%                             | 100%  |  |  | 14-May-22 |                    |
| Libya             | RRL Tunisia / RIVM                                | 26                       |  |              |           | 26       |                              |                                |   |       |      |        |       |      |        |       |      |                             |             |        |             | 0%                             | 100%  |  | 100%   | 6-May-22  |                    |
| Morocco           | NPL Morocco, RRL Tunisia                          | 17                       |  |              | 1         | 16       |                              |                                |   |       |      |        |       |      |        |       |      |                             |             |        |             | 6%                             | 100%  |  | 94%  | 7-May-22  |                    |
| Oman              | NPL Oman / CDC                                    | 13                       |  |              | 2         | 11       |                              |                                |   |       |      |        |       |      |        |       |      |                             |             |        |             | 12%                            | 85%   |  | 100%   | 15-May-22 |                    |
| Pakistan          | RRL Pakistan                                      | 4647                     | 163  | 22           | 733       | 3229     | 291                          | 207                            | 2   | 85    |      |        | 1     |      |        | 139   |      |                             |             |        | 1           | 13%                            | 95%   | 100%                                       | 97%  | 15-May-22 |                    |
| Palestine & UNRWA |   | 6                        |  |              |           | 6        |                              |                                |   |       |      |        |       |      |        |       |      |                             |             |        |             | 0%                             | 17%   |  | 83%  | 15-May-22 |                    |
| Qatar             | NPL Oman / CDC                                    | 5                        | 1  |              |           | 4        |                              |                                |   | 1     |      |        |       |      |        |       |      |                             |             |        |             | 0%                             | 80%   | 0  | 100%   | 15-May-22 |                    |
| Saudi Arabia      | NPL Saudi Arabia / CDC                            | 56                       |  |              | 1         | 53       |                              | 2                              |   |       |      |        |       |      |        |       |      |                             |             |        |             | 2%                             | 91%   |  | 100%   | 8-May-22  |                    |
| Somalia           | NPL Kenya / CDC                                   | 122                      | 2  |              | 18        | 86       | 2                            | 16                             |   |       |      |        | 2     |      |        |       |      |                             |             |        |             | 17%                            | 9%  |  | 100%   | 15-May-22 |                    |
| Sudan             | NPL Sudan / RRL Egypt                             | 210                      |  |              | 46        | 148      | 16                           |                                |   |       |      |        |       |      |        |       |      |                             |             |        |             | 23%                            | 74%   |  | 100%   | 12-May-22 |                    |
| Syria             | NPL Syria / RRL Egypt                             | 116                      | 2  |              | 5         | 93       | 10                           | 6                              |   |       |      |        |       |      |        |       |      |                             |             |        |             | 3%                             | 99%   |  |  | 14-May-22 |                    |
| Tunisia           | RRL Tunisia                                       | 10                       |  |              |           | 7        | 2                            | 1                              |   |       |      |        |       |      |        |       |      |                             |             |        |             | 0%                             | 100%  |  | 100%   | 6-May-22  |                    |
| U.A.E             | NPL Oman / CDC                                    | 6                        |  |              |           | 6        |                              |                                |   |       |      |        |       |      |        |       |      |                             |             |        |             | 0%                             | 100%  |  | 83%  | 15-May-22 |                    |
| Yemen             | NPL Oman, NPL Kenya, RRL Egypt                    | 315                      | 56   |              | 24        | 134      |                              | 101                            |   | 2     |      | 47     |       | 5    |        | 4     |      |                             |             |        | 1           | 11%                            | 71%   | 33%  | 0%   | 14-May-22 |                    |
| Total EMR 2022    |   | 8212                     | 358  | 37           | 1166      | 5697     | 500                          | 415                            | 3   | 172   | 1    | 47     | 11    | 5    |        | 250   |      |                             | 1           | 1      | 3           | 13%                            | 92%   | 90%  | 95%  |           |                    |
| Total EMR 2021    |   | 22110                    | 1182   | 128          | 3870      | 16917    |                              | 9                              | 5   | 477   | 7    | 16     | 363   | 103  |        | 599   | 1    | 1                           | 7           | 2      | 2           | 14%                            | 97%   | 97%  | 93%  |           |                    |

# Environmental Surveillance Isolation by Classification

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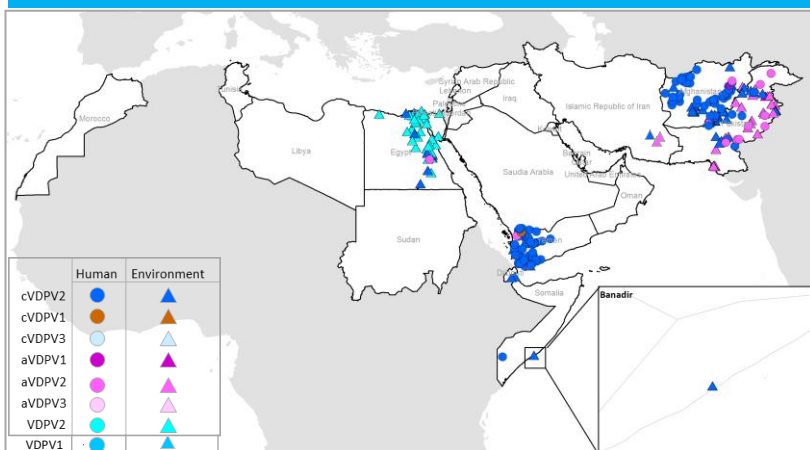


|             | AFG  |      | DJI  |      | PAK  |      | EGY  |      | IRN  |      | JOR  |      | KUW  |      | LEB  |      | SOM  |      | SUD  |      | SYR  |      | YEM  |      |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|             | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 | 2021 | 2022 |
| Wild        |      |      |      |      | 44   | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| cVDPV2      | 39   |      | 5    | 5    | 19   |      | 12   | 4    | 1    |      |      |      |      |      |      |      | 1    |      |      |      |      |      | 6    |      |
| Wild+cVDPV2 | 1    |      |      |      | 16   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Wild+aVDPV2 |      |      |      |      | 4    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Wild+aVDPV3 |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| aVDPV1      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| aVDPV2      | 3    |      |      |      | 33   | 1    |      |      | 2    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| aVDPV3      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| VDPV1       |      |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| VDPV2       |      |      |      |      |      |      | 67   | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| SL2         | 145  | 63   |      |      | 266  | 16   | 192  |      | 9    | 2    |      |      |      |      |      |      | 2    |      | 4    |      |      |      |      |      |
| SL1/3       | 44   | 50   | 2    |      | 151  | 153  | 168  | 81   | 16   | 11   | 18   | 5    |      |      | 9    | 5    | 10   | 1    | 1    |      | 28   | 10   |      |      |
| Entero      | 235  | 92   | 6    |      | 314  | 185  | 265  | 78   | 42   | 6    | 14   | 2    | 4    |      | 36   | 8    | 60   | 12   | 53   | 24   | 162  | 49   | 1    |      |
| Negative    | 12   | 6    | 13   | 2    | 9    | 7    | 26   | 6    | 1    |      | 3    | 2    | 15   |      | 5    | 5    | 67   | 35   | 41   | 19   | 14   | 7    |      |      |
| Pending     |      | 38   |      | 10   |      | 49   |      | 24   |      | 3    |      | 2    | 4    | 4    |      | 5    |      | 17   |      | 8    |      | 9    | 7    | 6    |

# VDPVs isolations by Source and Country

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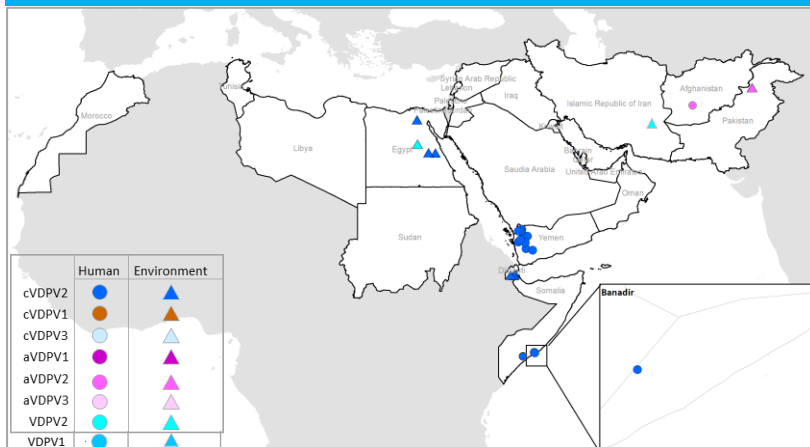
## VDPV Isolates, EMR countries, 2021



## VDPVs isolated from 2017-2022

| VDPV Isolate type | EMR Country | Sources          |      |      |      |      |             |                 |      |      |      |      |          |             |      |      |      |      |      |                                  |             |          |      |      |      |      |      |             |
|-------------------|-------------|------------------|------|------|------|------|-------------|-----------------|------|------|------|------|----------|-------------|------|------|------|------|------|----------------------------------|-------------|----------|------|------|------|------|------|-------------|
|                   |             | AFP cases(Human) |      |      |      |      |             | Contacts(Human) |      |      |      |      |          | Environment |      |      |      |      |      | Other Sources (Healthy Children) |             |          |      |      |      |      |      |             |
|                   |             | 2017             | 2018 | 2019 | 2020 | 2021 | Most recent | 2017            | 2018 | 2019 | 2020 | 2021 | 2022     | Most recent | 2017 | 2018 | 2019 | 2020 | 2021 | 2022                             | Most recent | 2017     | 2018 | 2019 | 2020 | 2021 | 2022 | Most recent |
| cVDPV2            | Afghanistan |                  |      |      | 307  | 43   | 09-07-21    |                 |      |      |      |      |          |             |      |      |      |      | 174  | 40                               |             | 23-06-21 |      |      |      |      |      |             |
|                   | Djibouti    |                  |      |      |      |      |             |                 |      |      |      |      |          |             |      |      |      |      |      | 5                                | 5           | 27-02-22 |      |      |      |      |      |             |
|                   | Egypt       |                  |      |      |      |      |             |                 |      |      |      |      |          |             |      |      |      |      |      | 12                               | 4           | 30-03-22 |      |      |      |      |      |             |
|                   | Iran        |                  |      |      |      |      |             |                 |      |      |      |      |          |             |      |      |      |      |      | 3                                | 1           | 20-02-21 |      |      |      |      |      |             |
|                   | Pakistan    |                  |      | 22   | 135  | 8    | 23-04-21    |                 |      |      |      |      |          |             |      |      |      | 38   | 135  | 35                               |             | 11-08-21 |      |      |      |      |      |             |
|                   | Somalia     | 6                | 3    | 14   | 1    | 2    | 18-02-22    | 3               | 1    | 11   |      | 3    | 22-02-22 | 2           | 19   | 5    | 26   | 1    |      |                                  | 23-05-21    |          |      | 1    | 5    |      |      |             |
|                   | Sudan       |                  |      |      | 58   |      | 18-12-20    |                 |      | 18   |      |      | 08-10-20 |             |      |      | 14   |      |      |                                  | 09-11-20    |          |      |      | 4    |      |      | 24-08-21    |
|                   | Syria       | 74               |      |      |      |      | 21-09-17    | 63              |      |      |      |      | 12-09-17 |             |      |      |      |      |      |                                  |             | 4        |      |      |      |      |      | 20-08-17    |
|                   | Yemen       |                  |      |      |      | 61   | 10          | 14-01-22        |      |      |      | 23   | 5        | 17-01-22    |      |      |      |      | 6    |                                  |             | 17-10-21 |      |      |      |      |      |             |
| 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    |      |      | 21-09-21                         |             |          |      |      |      |      |      |             |
|                   | Iran        |                  |      |      |      |      |             |                 |      |      |      |      |          |             |      |      |      | 2    | 1    | 04-02-22                         |             |          |      |      |      |      |      |             |
|                   | Pakistan    |                  |      |      | 7    | 8    | 24-09-21    |                 |      | 8    | 19   | 1    | 28-04-21 | 5           |      | 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       |                  |      |      |      |      |             |                 |      |      |      |      |          |             |      |      |      |      | 67   | 1                                | 12-01-22    |          |      |      |      |      |      |             |

## VDPV Isolates, EMR countries, 2022





# Important links

EMR Polio Bulletin - Issue No. 1232, Week 19 (ending on 15/05/2022)

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