

# Global Circulating Vaccine-derived Poliovirus (cVDPV)<sup>1,2,3</sup>

|                          | Country                    | AFP cases<br>(Paralysis onset between 2016-2022)   |      |                |      |      |      |           | Onset of most recent case | Other sources (Human) <sup>4</sup><br>(Collection between 2016-2022) |      |      |      |      |           |           | most recent collection date | Other sources (Environment)<br>(Collection between 2016-2022) |      |      |      |      |           |           | most recent collection date |
|--------------------------|----------------------------|--|------|----------------|------|------|------|-----------|---------------------------|--|------|------|------|------|-----------|-----------|-----------------------------|---|------|------|------|------|-----------|-----------|-----------------------------|
|                          |                            | 2016   | 2017 | 2018           | 2019 | 2020 | 2021 | 2022      |                           | 2016   | 2017 | 2018 | 2019 | 2020 | 2021      | 2022      |                             | 2016  | 2017 | 2018 | 2019 | 2020 | 2021      | 2022      |                             |
|                          |                            | <div style="display: flex; justify-content: space-between; align-items: center;"> <span style="width: 15px; height: 15px; background-color: #add8e6; border: 1px solid #000; display: inline-block;"></span> Environmental surveillance for poliovirus in selected sewage sites established and working         </div> |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             |   |      |      |      |      |           |           |                             |
| cVDPV1 <sup>1</sup>      | Madagascar                 |  |      |                |      | 2    | 13   | 1         | 07-Jan-22                 |  |      |      |      | 25   | 4         | 17-Jan-22 |                             |   |      |      |      | 31   | 2         | 05-Jan-22 |                             |
|                          | Yemen                      |  |      |                | 1    | 31   | 3    | 27-Mar-21 |                           |  |      | 1    |      |      | 07-Jul-19 |           |                             |   |      |      |      |      |           |           |                             |
|                          | Malaysia                   |  |      |                | 3    | 1    |      | 14-Jan-20 |                           |  |      |      |      |      |           |           |                             |   | 12   | 9    |      |      | 13-Mar-20 |           |                             |
|                          | Philippines                |  |      |                | 2    |      |      | 28-Oct-19 |                           |  |      | 1    |      |      | 31-Oct-19 |           |                             |   | 14   |      |      |      | 28-Nov-19 |           |                             |
|                          | Myanmar                    |  |      |                | 6    |      |      | 09-Aug-19 |                           |  |      | 6    |      |      | 21-Aug-19 |           |                             |   |      |      |      |      |           |           |                             |
|                          | Indonesia                  |  |      | 1              |      |      |      | 27-Nov-18 |                           |  |      | 2    |      |      | 13-Feb-19 |           |                             |   |      |      |      |      |           |           |                             |
|                          | PNG                        |  |      | 26             |      |      |      | 18-Oct-18 |                           |  |      |      |      |      | 20-Sep-18 |           |                             |   |      |      |      |      | 06-Nov-18 |           |                             |
|                          | Laos                       | 3  |      |                |      |      |      | 11-Jan-16 | 5                         |  | 7    |      |      |      | 09-Feb-16 |           |                             |   | 7    |      |      |      |           |           |                             |
|                          | Total type 1               | 3  | 0    | 27             | 12   | 34   | 16   | 1         |                           | 5  | 0    | 7    | 10   | 0    | 25        |           | 0                           | 0   | 7    | 26   | 9    | 31   | 2         |           |                             |
|                          | cVDPV2 <sup>1</sup>        | Egypt  |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             |   |      |      | 1    | 12   | 1         | 23-Feb-22 |                             |
| DR Congo                 |                            |  | 22   | 20             | 88   | 81   | 28   | 9         | 10-Feb-22                 |  | 19   | 15   | 29   | 95   | 6         | 3         | 28-Jan-22                   |   |      |      | 1    | 3    |           | 24-Dec-21 |                             |
| Côte d'Ivoire            |                            |  |      |                |      | 64   |      |           | 18-Oct-20                 |  |      |      |      | 24   |           | 01-Nov-20 |                             |   |      | 7    | 95   | 2    | 09-Feb-22 |           |                             |
| Nigeria                  |                            | 1  |      | 34             | 18   | 8    | 415  | 8         | 25-Jan-22                 | 2 <sup>2</sup>   |      | 53   | 18   | 8    | 204       | 4         | 29-Jan-22                   | 1   |      | 44   | 64   | 5    | 300       | 7         | 05-Jan-22                   |
| Somalia                  |                            |  |      | 6 <sup>5</sup> | 3    | 14   | 1    | 1         | 01-Jan-22                 |  |      |      | 2    | 13   |           | 10-Nov-20 |                             | 2   | 19   | 5    | 26   | 1    |           | 23-May-21 |                             |
| Djibouti                 |                            |  |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             |   |      |      | 5    |      |           | 28-Dec-21 |                             |
| Ukraine                  |                            |  |      |                |      |      | 2    |           | 24-Dec-21                 |  |      |      |      |      | 18        | 09-Oct-21 |                             |   |      |      |      |      |           |           |                             |
| Mauritania               |                            |  |      |                |      |      |      |           |                           |  |      |      |      |      | 4         | 19-Jul-21 |                             |   |      |      |      | 7    |           | 15-Dec-21 |                             |
| Niger                    |                            |  |      | 10             | 1    | 10   | 17   |           | 14-Dec-21                 |  |      |      | 4    | 6    | 2         | 1         | 13-Aug-21                   |   |      |      |      | 9    |           |           |                             |
| Mozambique               |                            |  |      | 1              |      |      | 2    |           | 10-Dec-21                 |  |      |      |      |      |           | 17-Dec-18 |                             |   |      |      |      |      |           |           |                             |
| Yemen                    |                            |  |      |                |      |      | 32   |           | 06-Dec-21                 |  |      |      |      |      |           |           |                             |   |      |      |      |      |           | 08-Dec-20 |                             |
| Senegal                  |                            |  |      |                |      |      | 17   |           | 27-Oct-21                 |  |      |      |      |      | 34        | 17-Nov-21 |                             |   |      |      |      | 1    | 14        | 18-Nov-21 |                             |
| Chad                     |                            |  |      |                | 11   | 101  |      |           | 28-Nov-20                 |  |      |      | 6    | 17   |           | 15-Oct-20 |                             |   |      |      | 10   | 3    | 1         | 10-Nov-21 |                             |
| Central African Republic |                            |  |      |                | 21   | 4    |      |           | 29-Oct-20                 |  |      |      | 43   | 1    |           | 05-Oct-20 |                             |   |      |      | 9    | 2    | 1         | 03-Nov-21 |                             |
| Uganda                   |                            |  |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             |   |      |      |      | 2    |           | 02-Nov-21 |                             |
| Cameroon                 |                            |  |      |                |      | 7    | 3    |           | 11-Oct-21                 |  |      |      |      | 4    | 3         | 29-Oct-21 |                             |   |      |      | 4    | 9    | 1         | 25-Oct-21 |                             |
| Ethiopia                 |                            |  |      | 14             | 36   | 10   |      |           | 16-Sep-21                 |  |      |      | 9    | 7    |           | 13-Oct-20 |                             |   |      |      | 3    | 4    |           |           |                             |
| Benin                    |                            |  |      |                | 8    | 3    | 3    |           | 08-May-21                 |  |      |      |      |      | 2         | 08-Sep-21 |                             |   |      |      |      | 5    | 1         | 09-Sep-21 |                             |
| Pakistan                 |                            | 1  |      | 22             | 135  | 8    |      |           | 23-Apr-21                 |  |      |      | 14   | 2    |           | 11-Nov-20 | 4                           |   |      |      | 40   | 135  | 35        | 13-Aug-21 |                             |
| Guinea                   |                            |  |      |                | 44   | 6    |      |           | 01-Apr-21                 |  |      |      |      | 1    |           | 05-Sep-20 |                             |   |      |      | 1    | 2    |           | 11-Aug-21 |                             |
| Guinea-Bissau            |                            |  |      |                |      | 3    |      |           | 15-Jul-21                 |  |      |      |      | 1    |           | 26-Jul-21 |                             |   |      |      |      |      |           | 03-Aug-21 |                             |
| Afghanistan              |                            |  |      |                |      | 308  | 43   |           | 09-Jul-21                 |  |      |      |      | 36   | 2         | 03-May-21 |                             |   |      |      |      | 175  | 40        | 23-Jun-21 |                             |
| Tajikistan               |                            |  |      |                |      | 1    | 32   |           | 26-Jun-21                 |  |      |      |      |      | 22        | 24-May-21 |                             |   |      |      |      |      | 17        | 22-Mar-21 |                             |
| Burkina Faso             |                            |  |      | 1              | 65   | 2    |      |           | 09-Jun-21                 |  |      |      |      | 12   |           | 19-Sep-20 |                             |   |      |      |      |      |           |           |                             |
| Sierra Leone             |                            |  |      |                | 10   | 5    |      |           | 28-Feb-21                 |  |      |      |      | 6    | 8         | 19-Mar-21 |                             |   |      |      |      |      | 9         | 01-Jun-21 |                             |
| Congo                    |                            |  |      |                | 2    | 2    |      |           | 10-Feb-21                 |  |      |      |      | 2    |           | 12-Oct-20 |                             |   |      |      |      | 1    | 3         | 01-Jun-21 |                             |
| Liberia                  |                            |  |      |                |      |      | 3    |           | 28-May-21                 |  |      |      |      | 2    | 5         | 21-Jan-21 |                             |   |      |      |      | 7    | 14        | 20-Apr-21 |                             |
| South Sudan              |                            |  |      |                |      | 50   | 9    |           | 10-Apr-21                 |  |      |      |      | 19   | 5         | 25-Feb-21 |                             |   |      |      |      | 6    |           | 01-Dec-20 |                             |
| Iran                     |                            |  |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             |   |      |      |      | 3    | 1         | 20-Feb-21 |                             |
| Kenya                    |                            |  |      |                |      |      |      |           |                           |  |      |      | 1    | 2    |           | 25-Jan-21 |                             |   |      |      |      | 1    | 1         | 13-Jan-21 |                             |
| Gambia                   |                            |  |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             | 1   |      |      |      |      | 9         | 28-Dec-20 |                             |
| Mali                     |                            |  |      |                |      | 52   |      |           | 23-Dec-20                 |  |      |      |      | 3    |           | 15-Aug-20 |                             |   |      |      |      | 4    |           | 29-Aug-20 |                             |
| Sudan                    |                            |  |      |                |      | 59   |      |           | 18-Dec-20                 |  |      |      |      | 11   |           | 01-Oct-20 |                             |   |      |      |      | 14   |           | 09-Nov-20 |                             |
| Ghana                    |                            |  |      |                | 18   | 12   |      |           | 09-Mar-20                 |  |      |      |      | 16   | 10        | 22-Feb-20 |                             |   |      |      |      | 17   | 20        | 17-Sep-20 |                             |
| Togo                     |                            |  |      |                | 8    | 9    |      |           | 03-May-20                 |  |      |      |      | 1    | 9         | 09-Jul-20 |                             |   |      |      |      |      |           |           |                             |
| Angola                   |                            |  |      |                | 138  | 3    |      |           | 09-Feb-20                 |  |      |      |      | 22   |           | 31-Oct-19 |                             |   |      |      |      | 17   |           | 02-Dec-19 |                             |
| Malaysia                 |                            |  |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             |   |      |      | 3    | 5    |           | 04-Feb-20 |                             |
| Philippines              |                            |  |      |                | 12   | 1    |      |           | 15-Jan-20                 |  |      |      |      | 6    |           | 23-Nov-19 |                             |   |      |      | 19   | 4    |           | 16-Jan-20 |                             |
| Zambia                   |                            |  |      |                | 2    |      |      |           | 25-Nov-19                 |  |      |      |      | 2    |           | 25-Sep-19 |                             |   |      |      |      |      |           |           |                             |
| China                    |                            |  |      |                | 1    |      |      |           | 25-Apr-19                 |  |      |      |      | 3    |           | 18-Aug-19 |                             |   |      | 1    |      |      |           | 18-Apr-18 |                             |
| Syria                    |                            | 74   |      |                |      |      |      | 21-Sep-17 | 1 <sup>3</sup>            | 66   |      |      |      |      | 12-Sep-17 |           |                             |   |      |      |      |      |           |           |                             |
| Total type 2             | 2                          | 96   | 71   | 366            | 1079 | 643  | 18   |           | 3                         | 85   | 74   | 177  | 285  | 317  | 7         |           | 5                           | 2   | 65   | 198  | 537  | 479  | 10        |           |                             |
| cVDPV3 <sup>1</sup>      | Israel                     |  |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             |   |      |      | 1    | 3    | 2         | 22-Jan-22 |                             |
|                          | Occupied Palestinian Terr. |  |      |                |      |      |      |           |                           |  |      |      |      |      |           |           |                             |   |      |      |      | 7    | 1         | 10-Jan-22 |                             |
|                          | China                      |  |      |                |      |      |      |           |                           |  |      | 1    |      |      | 22-Jul-20 |           |                             |   |      |      | 1    |      | 25-Jan-21 |           |                             |
|                          | Somalia                    |  |      | 7 <sup>5</sup> |      |      |      | 07-Sep-18 |                           |  |      | 2    |      |      | 29-Jun-18 |           |                             |   | 11   |      |      |      |           | 23-Aug-18 |                             |
| Total type 3             | 0                          | 0  | 7    | 0              | 0    | 0    | 1    |           | 0                         | 0  | 2    | 0    | 1    | 0    |           | 0         | 0                           | 11  | 0    | 1    | 11   | 3    |           |           |                             |
| Gender                   | Female (all sero type)     | 3  | 54   | 34             | 151  | 493  | 278  | 8         |                           |  |      |      |      |      |           |           |                             |   |      |      |      |      |           |           |                             |
|                          | Male (all sero type)       | 2  | 42   | 70             | 215  | 610  | 378  | 12        |                           |  |      |      |      |      |           |           |                             |   |      |      |      |      |           |           |                             |
|                          | Gender Unknown             |  |      |                | 13   | 10   | 3    |           |                           |  |      |      |      |      |           |           |                             |   |      |      |      |      |           |           |                             |

Environmental surveillance for poliovirus in selected sewage sites established and working

Changes from previous week

<sup>1</sup>For cVDPV definition see [http://polioeradication.org/wp-content/uploads/2016/09/Reporting-and-Classification-of-VDPVs\\_Aug2016\\_EN.pdf](http://polioeradication.org/wp-content/uploads/2016/09/Reporting-and-Classification-of-VDPVs_Aug2016_EN.pdf). <sup>2</sup>Figures include multiple emergences. <sup>3</sup> stool collected in Sep - 2016 but the final result was reported in 2017. <sup>4</sup> Include contact, healthy and community samples. <sup>5</sup> 1 cVDPV2 and cVDPV3 isolated from one child in Somalia. <sup>6</sup>No clear evidence of in-country community transmission; investigations underway