**Supplementary Table 1**

Summary of all cVDPV2s detected, by emergence – April 1, 2016 - December 31, 2020

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Emergence** | **No. Countries Affected** | **Countries affected** | **Nucleotide Change Index** | **No. Confirmed AFP Cases** | **No. Confirmed ES Isolates** | | **No. Confirmed Healthy or Community Contacts** | **Total Number of Viruses** | **First isolation1** | **Most recent isolation *(as of December 31, 2020)*** | **Days from first to most recent isolation** |
| cVDPV-A2 | 1 | Nigeria | 32--37 | 0 | 1 | 1 | | 2 | 23-Mar-16 | 26-Aug-16 | 156 |
| PAK-QTA-1 | 1 | Pakistan\* | 6--18 | 1 | 5 | 0 | | 6 | 20-Oct-16 | 03-Apr-17 | 165 |
| NIE-SOS-2 | 1 | Nigeria | 12--17 | 1 | 0 | 1 | | 2 | 28-Oct-16 | 24-Nov-16 | 27 |
| DRC-HLO-1 | 1 | DRC\* | 14--29 | 27 | 0 | 23 | | 50 | 20-Feb-17 | 27-May-18 | 461 |
| SYR-DEI-1 | 1 | Syrian Arab Republic\* | 21--34 | 74 | 0 | 43 | | 117 | 03-Mar-17 | 21-Sep-17 | 202 |
| DRC-MAN-1 | 1 | DRC\* | 7--9 | 2 | 0 | 1 | | 3 | 26-Mar-17 | 02-May-17 | 37 |
| SOM-BAN-1 | 3 | Somalia, Ethiopia\*, Kenya\*3 | 36--68 | 26 | 60 | 15 | | 101 | 22-Oct-17 | 22-Dec-20 | 1157 |
| NIE-JIS-1 | 14 | Nigeria, Benin, Burkina Faso, Cameroon, Chad, Côte d'Ivoire, Ghana, Guinea, Liberia, Mali, Niger\*4, Senegal, Sierra Leone, Togo | 13--55 | 363 | 361 | 168 | | 892 | 10-Jan-18 | 30-Dec-20 | 1085 |
| NIE-SOS-3 | 1 | Nigeria\* | 6--14 | 1 | 25 | 0 | | 26 | 30-Jan-18 | 18-Mar-19 | 412 |
| CHN-SIC-1 | 1 | China\* | 13--33 | 1 | 1 | 3 | | 5 | 18-Apr-18 | 18-Aug-19 | 487 |
| DRC-MON-1 | 1 | DRC\* | 18--26 | 11 | 0 | 10 | | 21 | 26-Apr-18 | 08-Nov-18 | 196 |
| DRC-HKA-1 | 1 | DRC\* | 7--8 | 2 | 0 | 0 | | 2 | 06-Oct-18 | 07-Oct-18 | 1 |
| MOZ-ZAM-2 | 1 | Mozambique\* | 6--10 | 1 | 0 | 2 | | 3 | 21-Oct-18 | 17-Dec-18 | 57 |
| DRC-KAS-1 | 1 | DRC\* | 6--7 | 1 | 0 | 2 | | 3 | 08-Feb-19 | 17-Mar-19 | 37 |
| DRC-HLO-2 | 1 | DRC | 8--16 | 20 | 0 | 7 | | 27 | 10-Feb-19 | 13-Dec-19 | 306 |
| NIE-SOS-4 | 1 | Nigeria\* | 16--20 | 0 | 4 | 0 | | 4 | 18-Mar-19 | 10-Jun-19 | 84 |
| DRC-KAS-2 | 1 | DRC\* | 6--11 | 4 | 0 | 0 | | 4 | 03-Apr-19 | 07-Jun-19 | 65 |
| ANG-LNO-1 | 1 | Angola\* | 8--10 | 1 | 0 | 1 | | 2 | 05-Apr-19 | 14-May-19 | 39 |
| DRC-SAN-1 | 1 | DRC | 6--17 | 32 | 0 | 3 | | 35 | 21-Apr-19 | 30-Nov-19 | 223 |
| ANG-HUI-1 | 2 | Angola, Congo (Rep.) | 6--23 | 79 | 11 | 17 | | 107 | 27-Apr-19 | 14-Nov-20 | 567 |
| CAF-BAM-1 | 1 | CAR\* | 10--19 | 5 | 2 | 12 | | 19 | 02-May-19 | 07-Sep-19 | 128 |
| CAF-BIM-3 | 2 | CAR\*, Chad | 7--15 | 4 | 0 | 7 | | 11 | 06-May-19 | 18-Oct-20 | 531 |
| NIE-SOS-5 | 1 | Nigeria\* | 14--15 | 1 | 0 | 1 | | 2 | 20-May-19 | 13-Jun-19 | 24 |
| DRC-TPA-1 | 1 | DRC | 7--11 | 1 | 0 | 5 | | 6 | 21-May-19 | 14-Aug-19 | 85 |
| CAF-BAM-2 | 1 | CAR\* | 7 | 0 | 0 | 3 | | 3 | 27-May-19 | 27-May-19 | 0 |
| CAF-BIM-1 | 1 | CAR\* | 9--11 | 1 | 1 | 1 | | 3 | 28-May-19 | 05-Sep-19 | 100 |
| CAF-BIM-2 | 1 | CAR\* | 9--20 | 0 | 1 | 13 | | 14 | 28-May-19 | 11-Sep-19 | 106 |
| ANG-LNO-2 | 2 | Angola, DRC | 10--20 | 17 | 0 | 1 | | 18 | 01-Jun-19 | 19-Feb-20 | 263 |
| DRC-KAS-3 | 1 | DRC | 8--27 | 95 | 1 | 90 | | 186 | 03-Jun-19 | 24-Dec-20 | 570 |
| ANG-LUA-1 | 3 | Angola, Congo (Rep.), DRC | 6--19 | 49 | 10 | 6 | | 65 | 07-Jun-19 | 12-Oct-20 | 493 |
| PAK-GB-1 | 4 | Pakistan, Afghanistan, Iran (Islamic Republic of), Tajikistan | 6--33 | 324 | 257 | 35 | | 616 | 10-Jun-19 | 30-Dec-20 | 569 |
| NIE-KGS-1 | 1 | Nigeria | 8--14 | 3 | 4 | 1 | | 8 | 13-Jun-19 | 01-Jan-20 | 202 |
| PHL-NCR-1 | 2 | Philippines, Malaysia | 60--72 | 13 | 32 | 6 | | 51 | 18-Jun-19 | 04-Feb-20 | 231 |
| NIE-KGS-2 | 1 | Nigeria\* | 7--10 | 2 | 0 | 3 | | 5 | 20-Jun-19 | 08-Aug-19 | 49 |
| NIE-SOS-6 | 1 | Nigeria\* | 6--10 | 0 | 5 | 0 | | 5 | 24-Jun-19 | 11-Sep-19 | 79 |
| PAK-GB-2 | 1 | Pakistan | 6--9 | 0 | 2 | 2 | | 4 | 08-Jul-19 | 24-Aug-19 | 47 |
| ZAM-LUA-1 | 1 | Zambia\* | 9--10 | 1 | 0 | 2 | | 3 | 16-Jul-19 | 25-Sep-19 | 71 |
| CAF-BNG-1 | 3 | CAR, Cameroon, Congo (Rep.) | 6--25 | 12 | 15 | 10 | | 37 | 31-Jul-19 | 16-Dec-20 | 504 |
| NIE-SOS-7 | 2 | Nigeria, Mali | 6--20 | 3 | 4 | 1 | | 8 | 31-Jul-19 | 05-Jul-20 | 340 |
| CHA-NDJ-1 | 7 | Chad, Cameroon, Central African Republic, Egypt, Ethiopia, South Sudan, Sudan | 6--26 | 212 | 36 | 46 | | 294 | 09-Aug-19 | 28-Dec-20 | 507 |
| CAF-BER-1 | 2 | CAR, Cameroon | 7--21 | 5 | 8 | 3 | | 16 | 16-Aug-19 | 29-Sep-20 | 410 |
| PAK-GB-3 | 1 | Pakistan | 7--13 | 1 | 0 | 1 | | 2 | 21-Aug-19 | 22-Aug-19 | 1 |
| ETH-SOM-1 | 1 | Ethiopia | 14 | 0 | 2 | 1 | | 3 | 31-Aug-19 | 30-Dec-19 | 121 |
| PAK-TOR-1 | 1 | Pakistan | 6--14 | 2 | 3 | 0 | | 5 | 04-Sep-19 | 03-Jan-20 | 121 |
| ETH-ORO-1 | 1 | Ethiopia | 10--39 | 25 | 4 | 9 | | 38 | 09-Sep-19 | 14-Dec-20 | 462 |
| ANG-MOX-1 | 2 | Angola, Zambia | 7--15 | 13 | 0 | 2 | | 15 | 16-Sep-19 | 12-Dec-19 | 87 |
| PAK-KOH-1 | 1 | Pakistan | 6--12 | 1 | 1 | 0 | | 2 | 27-Oct-19 | 12-Nov-19 | 16 |
| TOG-SAV-1 | 3 | Togo, Burkina Faso, Côte d'Ivoire | 13--19 | 12 | 0 | 2 | | 14 | 15-Nov-19 | 13-Oct-20 | 333 |
| PAK-PB-1 | 1 | Pakistan | 6 | 0 | 2 | 0 | | 2 | 02-Dec-19 | 18-Dec-19 | 16 |
| ETH-ORO-2 | 1 | Ethiopia | 11--14 | 4 | 0 | 0 | | 4 | 09-Dec-19 | 18-Feb-20 | 71 |
| ETH-ORO-4 | 1 | Ethiopia | 24--26 | 2 | 0 | 0 | | 2 | 16-Dec-19 | 23-Feb-20 | 69 |
| ETH-SOU-2 | 1 | Ethiopia | 18--27 | 5 | 0 | 0 | | 5 | 18-Dec-19 | 03-Oct-20 | 290 |
| ETH-ORO-3 | 2 | Ethiopia, Somalia | 18--25 | 2 | 0 | 7 | | 9 | 24-Dec-19 | 11-Oct-20 | 292 |
| ETH-SOU-1 | 1 | Ethiopia | 10--21 | 6 | 0 | 0 | | 6 | 05-Jan-20 | 17-Dec-20 | 347 |
| DRC-TPA-2 | 1 | DRC | 6--7 | 0 | 0 | 4 | | 4 | 14-May-20 | 14-May-20 | 0 |
| DRC-EQT-1 | 1 | DRC | 6--14 | 1 | 0 | 8 | | 9 | 18-May-20 | 11-Sep-20 | 116 |
| AFG-HLD-1 | 2 | Afghanistan, Pakistan | 8--15 | 5 | 4 | 0 | | 9 | 27-May-20 | 24-Nov-20 | 181 |
| AFG-NGR-1 | 2 | Afghanistan, Pakistan | 6--16 | 117 | 78 | 15 | | 210 | 28-May-20 | 27-Dec-20 | 213 |
| NIE-SOS-8 | 1 | Nigeria | 10--16 | 2 | 0 | 7 | | 9 | 10-Jun-20 | 17-Sep-20 | 99 |
| SOM-AWL-1 | 2 | Somalia, Ethiopia | 14--21 | 3 | 0 | 0 | | 3 | 08-Jul-20 | 14-Dec-20 | 159 |
| PAK-FSD-1 | 1 | Pakistan | 6--11 | 11 | 5 | 0 | | 16 | 17-Jul-20 | 01-Oct-20 | 76 |
| PAK-KHI-2 | 1 | Pakistan | 6--9 | 0 | 3 | 0 | | 3 | 20-Jul-20 | 17-Aug-20 | 28 |
| NIE-ZAS-1 | 1 | Nigeria | 16--24 | 2 | 1 | 0 | | 3 | 26-Jul-20 | 12-Nov-20 | 109 |
| PAK-FSD-2 | 1 | Pakistan | 7--13 | 2 | 0 | 0 | | 2 | 09-Aug-20 | 29-Sep-20 | 51 |
| PAK-ZHB-1 | 1 | Pakistan | 7--10 | 0 | 3 | 0 | | 3 | 16-Aug-20 | 16-Oct-20 | 61 |
| PAK-LKW-1 | 1 | Pakistan | 8--9 | 3 | 0 | 0 | | 3 | 11-Sep-20 | 28-Nov-20 | 78 |
| PAK-KAM-1 | 1 | Pakistan | 6 | 0 | 1 | 0 | | 1 | 10-Dec-20 | 10-Dec-20 | 0 |

\* Closed outbreak (by December 31, 2020)

1 First isolation by any method: First AFP case (date of onset), first environmental sample (date of collection), or first health or community contact (date of collection).

2 Earliest cVDPV-A isolate/onset occurred in 2012 in Chad, then in Cameroon, Niger, and Nigeria and persisted transmission in Nigeria until 2014. This pre-switch emergence in persistent transmission was not observed between October 2014 and March 2016.

3 2018 Kenya SOM-BAN-1 closed; 2020-2021 Kenya SOM-BAN-1 open.

4 2018-2019 Niger NIE-JIS-1 closed; 2020 Niger NIE-JIS-1 open