



## World Health Organization – Regional Office for Eastern Mediterranean

## AFP SURVEILLANCE

10-Apr-17

Week 14, ending 09 April 2017

Number 966

Table 1: Acute Flaccid Paralysis (AFP) cases by week of onset

| Country          | Reported AFP cases by week of onset - Week (14/17) / Ending on : 08/04/2017 |                |                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------|---|----------------|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  | Total AFP 2015  | Total AFP 2016 | Total AFP to date, 2017 | W03<br>22 Jan 17 | W04<br>29 Jan 17 | W05<br>05 Feb 17 | W06<br>12 Feb 17 | W07<br>19 Feb 17 | W08<br>26 Feb 17 | W09<br>05 Mar 17 | W10<br>12 Mar 17 | W11<br>19 Mar 17 | W12<br>26 Mar 17 | W13<br>02 Apr 17 | W14<br>09 Apr 17 |
| Afghanistan      | 2738  | 2905           | 749                     | 47               | 66               | 51               | 67               | 68               | 57               | 77               | 40               | 49               | 61               | 48               | 9                |
| Bahrain          | 19  | 14             | 8                       | 0                | 0                | 0                | 2                | 0                | 1                | 2                | 0                | 0                | 0                | 1                | 2                |
| Djibouti         | 3   | 3              | 4                       | 0                | 1                | 0                | 0                | 1                | 0                | 1                | 0                | 1                | 0                | 0                | 0                |
| Egypt            | 1046  | 1092           | 326                     | 24               | 23               | 28               | 22               | 36               | 25               | 26               | 20               | 28               | 25               | 19               |                  |
| Iran             | 780   | 776            | 154                     | 9                | 11               | 16               | 20               | 14               | 8                | 14               | 9                | 2                | 6                | 7                | 0                |
| Iraq             | 520   | 605            | 165                     | 17               | 12               | 9                | 14               | 13               | 11               | 12               | 12               | 14               | 11               | 4                |                  |
| Jordan ****      | 90  | 107            | 26                      | 2                | 2                | 1                | 2                | 1                | 3                | 2                | 2                | 2                | 2                | 1                |                  |
| Kuwait           | 32  | 50             | 18                      | 3                | 2                | 1                | 0                | 1                | 0                | 0                | 0                | 7                | 2                | 2                | 0                |
| Lebanon ****     | 113   | 111            | 28                      | 1                | 4                | 0                | 3                | 4                | 4                | 2                | 2                | 1                | 1                | 1                |                  |
| Libya            | 54  | 70             | 27                      | 2                | 2                | 0                | 2                | 3                | 1                | 2                | 2                | 0                | 2                | 3                |                  |
| Morocco          | 79  | 83             | 28                      | 1                | 2                | 2                | 3                | 2                | 3                | 4                | 5                | 1                | 2                |                  |                  |
| Oman             | 39  | 39             | 6                       | 0                | 0                | 0                | 1                | 2                | 1                | 1                | 0                | 0                | 0                | 1                | 0                |
| Pakistan         | 5814  | 7843           | 2073                    | 176              | 144              | 178              | 182              | 199              | 180              | 188              | 156              | 155              | 90               | 32               | 0                |
| Palestine ****   | 38  | 46             | 9                       | 0                | 1                | 0                | 1                | 2                | 0                | 0                | 1                | 0                | 0                | 0                | 0                |
| Qatar            | 11  | 9              | 5                       | 0                | 0                | 1                | 3                | 0                | 1                | 0                | 0                | 0                | 0                | 0                | 0                |
| Saudi Arabia     | 254   | 273            | 59                      | 7                | 5                | 10               | 7                | 3                | 4                | 2                | 4                | 4                | 1                | 0                | 0                |
| Somalia          | 281   | 316            | 99                      | 10               | 6                | 2                | 8                | 9                | 11               | 6                | 12               | 8                | 9                | 3                | 0                |
| Sudan            | 436   | 509            | 129                     | 7                | 14               | 9                | 7                | 11               | 8                | 5                | 16               | 7                | 14               | 4                | 0                |
| Syria ****       | 235   | 303            | 67                      | 3                | 5                | 5                | 8                | 3                | 9                | 5                | 5                | 6                | 4                | 3                |                  |
| Tunisia          | 64  | 90             | 12                      | 0                | 2                | 0                | 2                | 3                | 0                | 1                | 1                | 0                | 1                | 0                |                  |
| U.A.E            | 31  | 42             | 16                      | 1                | 2                | 2                | 1                | 0                | 3                | 2                | 3                | 0                | 1                | 0                | 0                |
| Yemen            | 537   | 715            | 206                     | 14               | 13               | 7                | 17               | 12               | 17               | 25               | 19               | 16               | 16               | 8                | 3                |
| <b>Total EMR</b> | <b>13214</b>  | <b>16001</b>   | <b>4214</b>             | <b>324</b>       | <b>317</b>       | <b>322</b>       | <b>372</b>       | <b>387</b>       | <b>347</b>       | <b>377</b>       | <b>309</b>       | <b>301</b>       | <b>248</b>       | <b>137</b>       | <b>14</b>        |

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

| Country          | Total year 2015 | Total year 2016 | 09/04     |          | Confirmed polio cases by month of onset |           |           |             |                |              |               |               |              |               |            |            |
|------------------|-----------------|-----------------|-----------|----------|---|-----------|-----------|-------------|----------------|--------------|---------------|---------------|--------------|---------------|------------|------------|
|                  |                 |                 | 2016      | 2017     | May 2016                                | June 2016 | July 2016 | August 2016 | September 2016 | October 2016 | November 2016 | December 2016 | January 2017 | February 2017 | March 2017 | April 2017 |
| Afghanistan      | 20              | 13              | 5         | 3        | 1                                       | 0         | 0         | 2           | 2              | 2            | 0             | 1             | 2            | 1             |            |            |
| Bahrain          | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Djibouti         | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Egypt            | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Iran             | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Iraq             | 0               | 0               | 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          | 0          |
| Kuwait           | 0               | 0               | 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             | 0          | 0          |
| Libya            | 0               | 0               | 0         | 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            | 0             | 0          | 0          |
| Oman             | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Pakistan         | 54              | 20              | 8         | 2        | 0                                       | 2         | 1         | 0           | 2              | 2            | 1             | 1             | 1            | 1             |            |            |
| Palestine ****   | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Qatar            | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Saudi Arabia     | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Somalia          | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Sudan            | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Syria ****       | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| Tunisia          | 0               | 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            | 0             | 0          | 0          |
| Yemen            | 0               | 0               | 0         | 0        | 0                                       | 0         | 0         | 0           | 0              | 0            | 0             | 0             | 0            | 0             | 0          | 0          |
| <b>Total EMR</b> | <b>74</b>       | <b>33</b>       | <b>13</b> | <b>5</b> | <b>1</b>                                | <b>2</b>  | <b>1</b>  | <b>2</b>    | <b>4</b>       | <b>4</b>     | <b>1</b>      | <b>2</b>      | <b>3</b>     | <b>2</b>      | <b>0</b>   | <b>0</b>   |

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



Table 3: Investigation of AFP cases with paralysis onset in 2016 & 2017 up to Week (14/17) / Ending on : 09/04/2017

| COUNTRY      | 2016                       |                               |                  |                        |                           |      |                       |  |  |                               |                    |                    | 2017                       |                               |                  |                        |                           |      |                                  |  |  |                               |                    |                    | Latest line List Date |                 |  |
|--------------|----------------------------|-------------------------------|------------------|------------------------|---------------------------|------|-----------------------|--|--|-------------------------------|--------------------|--------------------|----------------------------|-------------------------------|------------------|------------------------|---------------------------|------|----------------------------------|--|--|-------------------------------|--------------------|--------------------|-----------------------|-----------------|--|
|              | AFP                        |                               |                  |                        |                           |      |                       |  |  | Specimen                      |                    | Wild cases ****    |                            | AFP                           |                  |                        |                           |      |                                  |  |  |                               | Specimen           |                    |                       | Wild cases **** |  |
|              | Total AFP cases onset 2016 | Case classification           |                  |                        |                           |      | Non polio AFP rate ** | AFP cases pending classification > 90 days from onset of paralysis | AFP cases pending classification and lab > 90 days from onset of paralysis | % with *** adequate specimens | Wild P1 Poliovirus | Wild P3 Poliovirus | Total AFP cases onset 2017 | Case classification           |                  |                        |                           |      | Annualized Non polio AFP rate ** | AFP cases pending classification > 90 days from onset of paralysis | AFP cases pending classification and lab > 90 days from onset of paralysis | % with *** adequate specimens | Wild P1 Poliovirus | Wild P3 Poliovirus |                       |                 |  |
|              |                            | Total Confirmed Polio Cases * | Polio Compatible | Pending Classification | Discarded (non polio AFP) | VDPV |                       |  |  |                               |                    |                    |                            | Total Confirmed Polio Cases * | Polio Compatible | Pending Classification | Discarded (non polio AFP) | VDPV |                                  |  |  |                               |                    |                    |                       |                 |  |
| Afghanistan  | 2905                       | 13                            | 0                | 12                     | 2879                      | 1    | 14.4                  | 12   | 1  | 92.2                          | 13                 | 0                  | 749                        | 3                             | 0                | 229                    | 517                       | 0    | 13.4                             | 3  | 1  | 93.5                          | 3                  | 0                  | 09/04/2017            |                 |  |
| Bahrain      | 14                         | 0                             | 0                | 0                      | 14                        | 0    | 4.9                   | 0  | 0  | 100.0                         | 0                  | 0                  | 8                          | 0                             | 0                | 8                      | 0                         | 0    | 10.2                             | 0  | 0  | 87.5                          | 0                  | 0                  | 09/04/2017            |                 |  |
| Djibouti     | 3                          | 0                             | 0                | 0                      | 3                         | 0    | 1.0                   | 0  | 0  | 33.3                          | 0                  | 0                  | 4                          | 0                             | 0                | 4                      | 0                         | 0    | 5.0                              | 0  | 0  | 75.0                          | 0                  | 0                  | 02/04/2017            |                 |  |
| Egypt        | 1092                       | 0                             | 0                | 1                      | 1091                      | 0    | 2.9                   | 1  | 0  | 94.1                          | 0                  | 0                  | 326                        | 0                             | 0                | 76                     | 249                       | 0    | 3.1                              | 0  | 0  | 88.7                          | 0                  | 0                  | 08/04/2017            |                 |  |
| Iran         | 776                        | 0                             | 0                | 0                      | 775                       | 1    | 4.2                   | 0  | 0  | 95.5                          | 0                  | 0                  | 154                        | 0                             | 0                | 17                     | 137                       | 0    | 3.0                              | 0  | 0  | 100.0                         | 0                  | 0                  | 09/04/2017            |                 |  |
| Iraq         | 605                        | 0                             | 0                | 6                      | 598                       | 1    | 4.2                   | 6  | 1  | 80.7                          | 0                  | 0                  | 165                        | 0                             | 0                | 43                     | 122                       | 0    | 4.1                              | 3  | 0  | 89.1                          | 0                  | 0                  | 06/04/2017            |                 |  |
| Jordan       | 107                        | 0                             | 0                | 6                      | 101                       | 0    | 3.8                   | 6  | 0  | 100.0                         | 0                  | 0                  | 26                         | 0                             | 0                | 21                     | 5                         | 0    | 3.5                              | 0  | 0  | 100.0                         | 0                  | 0                  | 06/04/2017            |                 |  |
| Kuwait       | 50                         | 0                             | 0                | 0                      | 50                        | 0    | 5.7                   | 0  | 0  | 90.0                          | 0                  | 0                  | 18                         | 0                             | 0                | 6                      | 12                        | 0    | 7.6                              | 0  | 0  | 83.3                          | 0                  | 0                  | 09/04/2017            |                 |  |
| Lebanon      | 111                        | 0                             | 0                | 10                     | 101                       | 0    | 5.8                   | 10   | 0  | 82.9                          | 0                  | 0                  | 28                         | 0                             | 0                | 2                      | 26                        | 0    | 5.5                              | 0  | 0  | 89.3                          | 0                  | 0                  | 07/04/2017            |                 |  |
| Libya        | 70                         | 0                             | 0                | 0                      | 70                        | 0    | 3.4                   | 0  | 0  | 97.1                          | 0                  | 0                  | 27                         | 0                             | 0                | 9                      | 18                        | 0    | 4.7                              | 0  | 0  | 92.6                          | 0                  | 0                  | 08/04/2017            |                 |  |
| Morocco      | 83                         | 0                             | 0                | 0                      | 83                        | 0    | 0.8                   | 0  | 0  | 61.4                          | 0                  | 0                  | 28                         | 0                             | 0                | 12                     | 16                        | 0    | 1.0                              | 0  | 0  | 78.6                          | 0                  | 0                  | 31/03/2017            |                 |  |
| Oman         | 39                         | 0                             | 0                | 0                      | 39                        | 0    | 4.5                   | 0  | 0  | 89.7                          | 0                  | 0                  | 6                          | 0                             | 0                | 3                      | 3                         | 0    | 2.6                              | 0  | 0  | 66.7                          | 0                  | 0                  | 09/04/2017            |                 |  |
| Pakistan     | 7843                       | 20                            | 5                | 26                     | 7790                      | 2    | 10.0                  | 26   | 12   | 87.4                          | 20                 | 0                  | 2073                       | 2                             | 0                | 399                    | 1672                      | 0    | 9.8                              | 14   | 0  | 90.9                          | 2                  | 0                  | 09/04/2017            |                 |  |
| Palestine    | 46                         | 0                             | 0                | 0                      | 46                        | 0    | 2.4                   | 0  | 0  | 97.8                          | 0                  | 0                  | 9                          | 0                             | 0                | 6                      | 3                         | 0    | 1.8                              | 0  | 0  | 100.0                         | 0                  | 0                  | 09/04/2017            |                 |  |
| Qatar        | 9                          | 0                             | 0                | 0                      | 9                         | 0    | 3.0                   | 0  | 0  | 100.0                         | 0                  | 0                  | 5                          | 0                             | 0                | 5                      | 0                         | 0    | 6.2                              | 0  | 0  | 80.0                          | 0                  | 0                  | 09/04/2017            |                 |  |
| Saudi Arabia | 273                        | 0                             | 0                | 0                      | 273                       | 0    | 2.8                   | 0  | 0  | 97.8                          | 0                  | 0                  | 59                         | 0                             | 0                | 59                     | 0                         | 0    | 2.3                              | 5  | 4  | 98.3                          | 0                  | 0                  | 09/04/2017            |                 |  |
| Somalia      | 316                        | 0                             | 0                | 0                      | 315                       | 1    | 5.5                   | 0  | 0  | 99.1                          | 0                  | 0                  | 99                         | 0                             | 0                | 30                     | 69                        | 0    | 6.3                              | 0  | 0  | 98.0                          | 0                  | 0                  | 09/04/2017            |                 |  |
| Sudan        | 509                        | 0                             | 0                | 0                      | 509                       | 0    | 2.8                   | 0  | 0  | 97.6                          | 0                  | 0                  | 129                        | 0                             | 0                | 20                     | 109                       | 0    | 2.6                              | 0  | 0  | 99.2                          | 0                  | 0                  | 09/04/2017            |                 |  |
| Syria        | 303                        | 0                             | 0                | 0                      | 303                       | 0    | 3.9                   | 0  | 0  | 87.8                          | 0                  | 0                  | 67                         | 0                             | 0                | 23                     | 44                        | 0    | 3.1                              | 0  | 0  | 85.1                          | 0                  | 0                  | 08/04/2017            |                 |  |
| Tunisia      | 90                         | 0                             | 0                | 0                      | 89                        | 1    | 3.4                   | 0  | 0  | 77.8                          | 0                  | 0                  | 12                         | 0                             | 0                | 5                      | 7                         | 0    | 1.7                              | 1  | 1  | 83.3                          | 0                  | 0                  | 07/04/2017            |                 |  |
| U.A.E        | 42                         | 0                             | 0                | 0                      | 42                        | 0    | 4.2                   | 0  | 0  | 100.0                         | 0                  | 0                  | 16                         | 0                             | 0                | 10                     | 6                         | 0    | 5.8                              | 0  | 0  | 93.8                          | 0                  | 0                  | 09/04/2017            |                 |  |
| Yemen        | 715                        | 0                             | 0                | 2                      | 712                       | 1    | 5.4                   | 2  | 0  | 90.9                          | 0                  | 0                  | 206                        | 0                             | 0                | 118                    | 88                        | 0    | 5.5                              | 0  | 0  | 92.2                          | 0                  | 0                  | 08/04/2017            |                 |  |
| EMR          | 16001                      | 33                            | 5                | 63                     | 15892                     | 8    | 6.4                   | 63   | 14   | 89.8                          | 33                 | 0                  | 4214                       | 5                             | 0                | 1105                   | 3103                      | 0    | 6.2                              | 26   | 6  | 91.8                          | 5                  | 0                  |                       |                 |  |
| 2015         | 13214                      | 74                            | 15               | 1                      | 13116                     | 8    | 5.2                   | 1  | 0  | 90.2                          | 74                 | 0                  |                            |                               |                  |                        |                           |      |                                  |  |  |                               |                    |                    |                       |                 |  |

\* Confirmed polio cases refer to wild isolation from AFP cases or from contacts of negative index AFP cases

\*\* Non-polio AFP per 100,000 children <15 years

\*\*\* Adequate here refers to two stool specimens collected at least 24 hours apart, within 14 days of paralysis onset

\*\*\*\* AFP cases co infected with P1 and P3 are counted separately as wild isolates



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Table 4 (a): Most recent wild contacts in EMRO, 01/01/2016 - 09/04/2017

| Year              | Country     | Data                   |                                      |
|-------------------|-------------|------------------------|--------------------------------------|
|                   |             | Count of wild contacts | Date of Most Recent stool collection |
| 2016              | Pakistan    | 5                      | 25-11-16                             |
|                   | Afghanistan | 4                      | 07-10-16                             |
| <b>2016 Total</b> |             | <b>9</b>               | <b>25-11-16</b>                      |

Table 4 (b): Number and distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2016-2017

| YEAR             | COUNTRY          | PROVINCE        | DISTRICT           | COUNT           | First case      | Last case       |
|------------------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|
| 2016             | AFG              | KUNAR           | SHIGAL WA SHEL TAN | 1               | 26-02-16        | 26-02-16        |
|                  |                  | HILMAND         | NAWZAD             | 1               | 23-01-16        | 23-01-16        |
|                  |                  | PAKTIKA         | BERMEL             | 1               | 01-09-16        | 01-09-16        |
|                  | <b>AFG Total</b> |                 |                    | <b>3</b>        | <b>23-01-16</b> | <b>01-09-16</b> |
|                  | PAK              | KHYBER PAKHTOON | KOHISTAN           | 1               | 03-09-16        | 03-09-16        |
|                  |                  | SINDH           | BADIN              | 1               | 10-10-16        | 10-10-16        |
| <b>PAK Total</b> |                  |                 | <b>2</b>           | <b>03-09-16</b> | <b>10-10-16</b> |                 |



AFP SURVEILLANCE

10-Apr-17

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Table 5: Laboratory investigation of AFP cases with paralysis onset in 2017 up to Week (14/17) / Ending on : (09/04/2017)

| Country               | Polio laboratories<br><br>Sequencing performed by CDC and RIVM laboratories | AFP cases with specimens | Preliminary virus isolation results of AFP cases |            |             |              |                        |                        | Poliovirus intratypic differentiation results # |            |      |        |           |          |            |          |          |                             |             | Indicators |             |                                |   | Latest report Date |  |  |            |
|-----------------------|---|--------------------------|--|------------|-------------|--------------|------------------------|------------------------|---|------------|------|--------|-----------|----------|------------|----------|----------|-----------------------------|-------------|------------|-------------|--------------------------------|---|--------------------|--|--|------------|
|                       |   |                          | Referred for ITD                                 |            | NPEV only   | Negative     | Pending                |                        | Type 1  |            |      | Type 2 |           |          | Type 3     |          |          | Discordant pending sequence | NPEV by PCR | Non-EV     | Pending ITD | % specimens positive for NPEV* | % AFP cases with culture results within 14 days |                    | % AFP cases with ITD results within 7 days | % AFP cases with ITD results within 45 days of onset** |            |
|                       |   |                          | L20B+  | L20B+/NPEV |             |              | received < / = 14 days | received > 14 days ago | Wild  | Sabin      | VDPV | Wild   | Sabin     | VDPV     | Wild       | Sabin    | VDPV     |                             |             |            |             |                                |   |                    |  |  |            |
| Afghanistan           | RRL Pakistan  | 706                      | 51   | 3          | 79          | 451          | 122                    |                        | 3   | 41         |      |        |           |          |            |          | 40       |                             |             | 1          |             |                                | 13%   | 100%               | 98%  | 98%  | 08/04/2017 |
| Bahrain               | PNL Oman  | 5                        |  |            |             | 3            |                        | 2                      |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 0%  | 100%               |  | 100%   | 30/03/2017 |
| Djibouti              | NPL Kenya   | 4                        |  |            |             |              |                        | 4                      |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                |   |                    |  |  | 02/04/2017 |
| Egypt***              | RRL Egypt   | 313                      | 4  | 1          | 29          | 219          | 34                     | 26                     |   | 2          |      |        |           | 1        |            | 1        |          |                             |             | 2          |             |                                | 8%  | 100%               | 100%                                       | 100%   | 09/04/2017 |
| Iran                  | NPL Iran  | 163                      | 3  |            | 1           | 129          | 30                     |                        |   | 2          |      |        |           |          |            | 2        |          |                             |             |            |             |                                | 1%  | 98%                | 100%                                       | 100%   | 08/04/2017 |
| Iraq                  | RRL Egypt   | 166                      | 15   |            | 16          | 112          | 20                     | 3                      |   | 9          |      |        |           |          |            | 10       |          |                             |             |            |             |                                | 11%   | 100%               | 100%                                       | 100%   | 06/04/2017 |
| Jordan                | RRL Tunisia   | 26                       |  |            | 2           | 23           | 1                      |                        |   |            |      |        |           |          |            | 1        |          |                             |             |            |             |                                | 9%  | 100%               | 100%                                       | 100%   | 09/04/2017 |
| Kuwait                | RRL Kuwait  | 18                       |  |            | 1           | 11           | 5                      | 1                      |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 4%  | 83%                |  | 100%   | 06/04/2017 |
| Lebanon               | NPL Jordan  | 26                       | 1  |            | 3           | 22           |                        |                        |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 13%   | 100%               |  | 100%   | 09/04/2017 |
| Libya                 | RRL Tunisia   | 11                       |  |            |             | 9            |                        | 2                      |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 0%  | 100%               |  | 100%   | 24/02/2017 |
| Morocco               | RRL Tunisia   | 24                       |  |            | 1           | 21           | 2                      |                        |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 4%  | 100%               |  | 100%   | 07/04/2017 |
| Oman                  | NPL Oman  | 4                        |  |            | 2           | 1            |                        | 1                      |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 25%   | 100%               |  | 100%   | 30/03/2017 |
| Pakistan              | RRL Pakistan  | 2236                     | 124  | 5          | 256         | 1516         | 332                    | 3                      | 2   | 76         |      |        |           | 1        |            | 89       |          |                             |             | 1          |             |                                | 11%   | 100%               | 100%                                       | 98%  | 08/04/2017 |
| Palestine & UNRWA     |   | 9                        |  |            | 4           | 5            |                        |                        |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 44%   | 13%                |  | 100%   | 09/04/2017 |
| Qatar                 | NPL Oman  | 5                        |  |            |             | 5            |                        |                        |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 0%  | 100%               |  | 100%   | 30/03/2017 |
| Saudi Arabia          | NPL Oman  | 69                       |  |            | 12          | 48           | 9                      |                        |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 14%   | 95%                |  | 100%   | 09/04/2017 |
| Somalia               | NPL Kenya   | 99                       | 10   | 2          | 8           | 49           | 11                     | 19                     |   | 7          |      |        |           |          |            | 9        |          |                             |             |            | 2           |                                | 14%   | 29%                |  | 100%   | 09/04/2017 |
| Sudan                 | RRL Egypt   | 115                      | 2  |            | 11          | 90           | 7                      | 5                      |   | 1          |      |        |           |          |            |          |          |                             |             |            |             |                                | 10%   | 100%               | 100%                                       | 100%   | 01/04/2017 |
| Syria                 | RRL Egypt   | 67                       | 2  |            |             | 48           | 16                     | 1                      |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 0%  | 100%               |  |  | 08/04/2017 |
| Tunisia               | RRL Tunisia   | 8                        |  |            |             | 4            |                        | 4                      |   |            |      |        |           |          |            |          |          |                             |             |            |             |                                | 3%  | 100%               |  | 100%   | 24/02/2017 |
| U.A.E                 | NPL Oman  | 8                        | 1  |            |             | 5            |                        | 2                      |   | 1          |      |        |           |          |            | 1        |          |                             |             |            |             |                                | 0%  | 100%               | 100%                                       | 67%  | 30/03/2017 |
| Yemen                 | RRL Egypt   | 89                       | 2  | 2          | 10          | 74           |                        | 1                      |   | 2          |      |        |           |          |            | 3        |          |                             |             | 2          |             |                                | 12%   | 100%               | 100%                                       | 30%  | 09/04/2017 |
| <b>Total EMR 2017</b> |   | <b>4171</b>              | <b>215</b>                                       | <b>13</b>  | <b>435</b>  | <b>2845</b>  | <b>589</b>             | <b>74</b>              | <b>5</b>  | <b>141</b> |      |        | <b>1</b>  | <b>1</b> | <b>156</b> |          |          | <b>6</b>                    |             | <b>2</b>   |             | <b>11%</b>                     | <b>98%</b>                                      | <b>100%</b>        | <b>96%</b>                                 |  |            |
| <b>Total EMR 2016</b> |   | <b>15756</b>             | <b>823</b>                                       | <b>94</b>  | <b>2779</b> | <b>12040</b> |                        | <b>17</b>              | <b>28</b>                                       | <b>482</b> |      |        | <b>85</b> | <b>7</b> | <b>566</b> | <b>1</b> | <b>2</b> | <b>23</b>                   | <b>3</b>    | <b>4</b>   |             | <b>15%</b>                     | <b>94%</b>                                      | <b>98%</b>         | <b>94%</b>                                 |  |            |

\* Specimens from all sources including non-AFP cases, excluding environmental samples

\*\* This indicator reflects surveillance and laboratory activities



**Table 6: Environmental isolate by year and type**

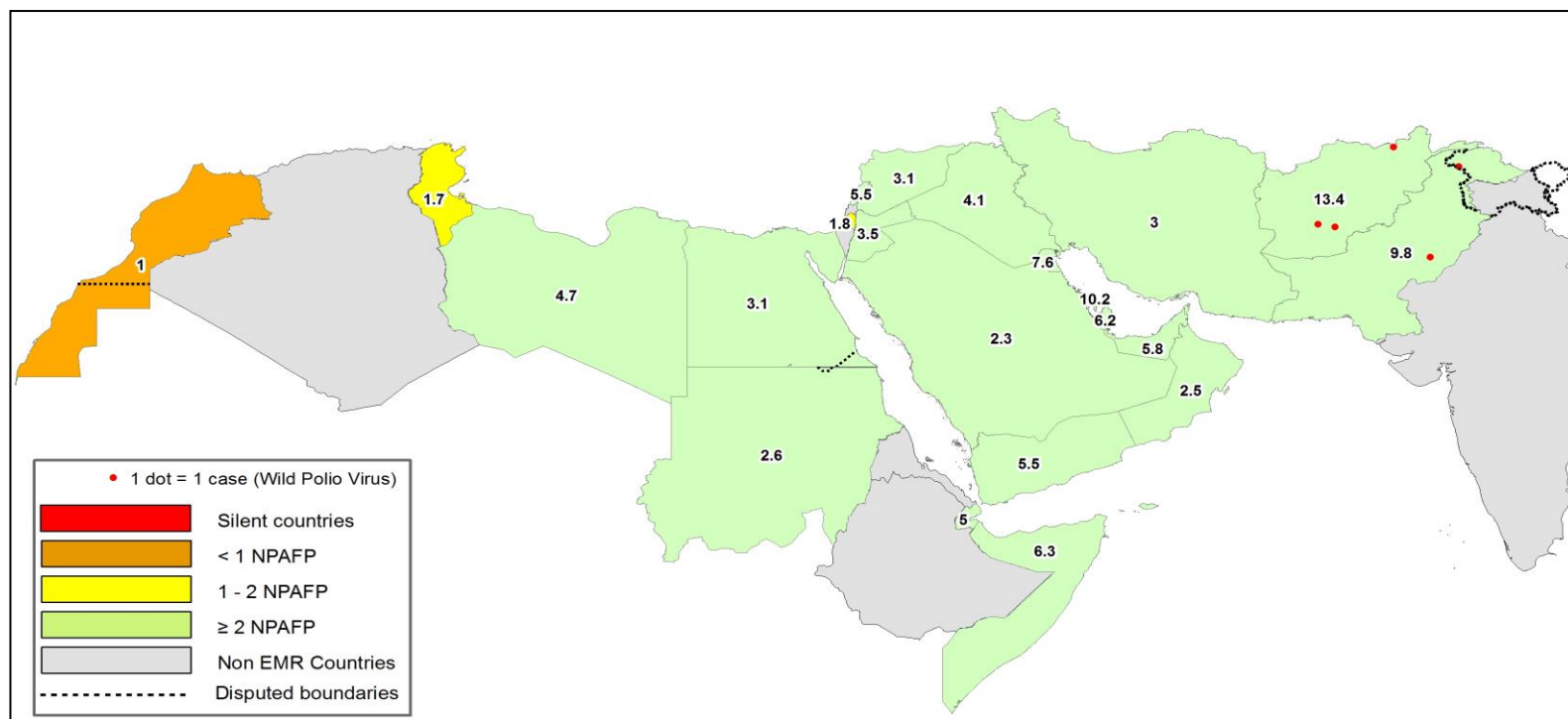
| Country          | Status       | 2010       | 2011       | 2012       | 2013       | 2014       | 2015        | 2016        | 2017       |
|------------------|--------------|------------|------------|------------|------------|------------|-------------|-------------|------------|
| AFG              | NEGATIVE     |            |            |            | 9          | 78         | 129         | 183         | 55         |
|                  | PENDING      |            |            |            |            |            |             |             | 17         |
|                  | WILD         |            |            |            |            | 17         | 20          | 2           | 2          |
| <b>AFG Total</b> |              |            |            |            | <b>9</b>   | <b>95</b>  | <b>149</b>  | <b>185</b>  | <b>74</b>  |
| EGY              | NEGATIVE     | 183        | 178        | 196        | 304        | 410        | 412         | 528         | 113        |
|                  | PENDING      |            |            |            |            |            |             |             | 18         |
|                  | WILD         |            |            | 2          |            |            |             |             |            |
|                  | VDPV1        |            |            | 1          |            | 1          |             |             |            |
|                  | VDPV2        |            |            | 7          | 3          | 2          | 3           | 1           |            |
| <b>EGY Total</b> |              | <b>183</b> | <b>178</b> | <b>206</b> | <b>307</b> | <b>413</b> | <b>415</b>  | <b>529</b>  | <b>131</b> |
| JOR              | NEGATIVE     |            |            |            |            |            |             | 2           | 9          |
|                  | PENDING      |            |            |            |            |            |             |             |            |
| <b>JOR Total</b> |              |            |            |            |            |            |             | <b>2</b>    | <b>9</b>   |
| LEB              | NEGATIVE     |            |            |            |            |            |             | 4           | 5          |
|                  | PENDING      |            |            |            |            |            |             |             | 1          |
| <b>LEB Total</b> |              |            |            |            |            |            |             | <b>3</b>    | <b>6</b>   |
| PAK              | NEGATIVE     | 77         | 68         | 151        | 257        | 237        | 347         | 462         | 117        |
|                  | PENDING      |            |            |            |            |            |             |             | 27         |
|                  | WILD         | 79         | 136        | 88         | 63         | 125        | 79          | 59          | 23         |
|                  | WILD & VDPV2 |            |            |            | 2          | 6          | 5           | 3           |            |
|                  | VDPV2        |            |            |            |            | 4          | 8           | 5           |            |
| <b>PAK Total</b> |              | <b>156</b> | <b>204</b> | <b>239</b> | <b>322</b> | <b>372</b> | <b>439</b>  | <b>529</b>  | <b>167</b> |
| EMR              | NEGATIVE     | 260        | 246        | 347        | 570        | 725        | 888         | 1179        | 299        |
|                  | PENDING      |            |            |            |            |            |             |             | 63         |
|                  | WILD         | 79         | 136        | 90         | 63         | 142        | 99          | 61          | 25         |
|                  | WILD & VDPV2 |            |            |            | 2          | 6          | 5           | 3           |            |
|                  | VDPV1        |            |            | 1          |            | 1          |             |             |            |
|                  | VDPV2        |            |            | 7          | 3          | 6          | 11          | 6           |            |
| <b>EMR Total</b> |              | <b>339</b> | <b>382</b> | <b>445</b> | <b>638</b> | <b>880</b> | <b>1003</b> | <b>1248</b> | <b>387</b> |

**Table 7: Environmental Wild/VDPV isolate by site**

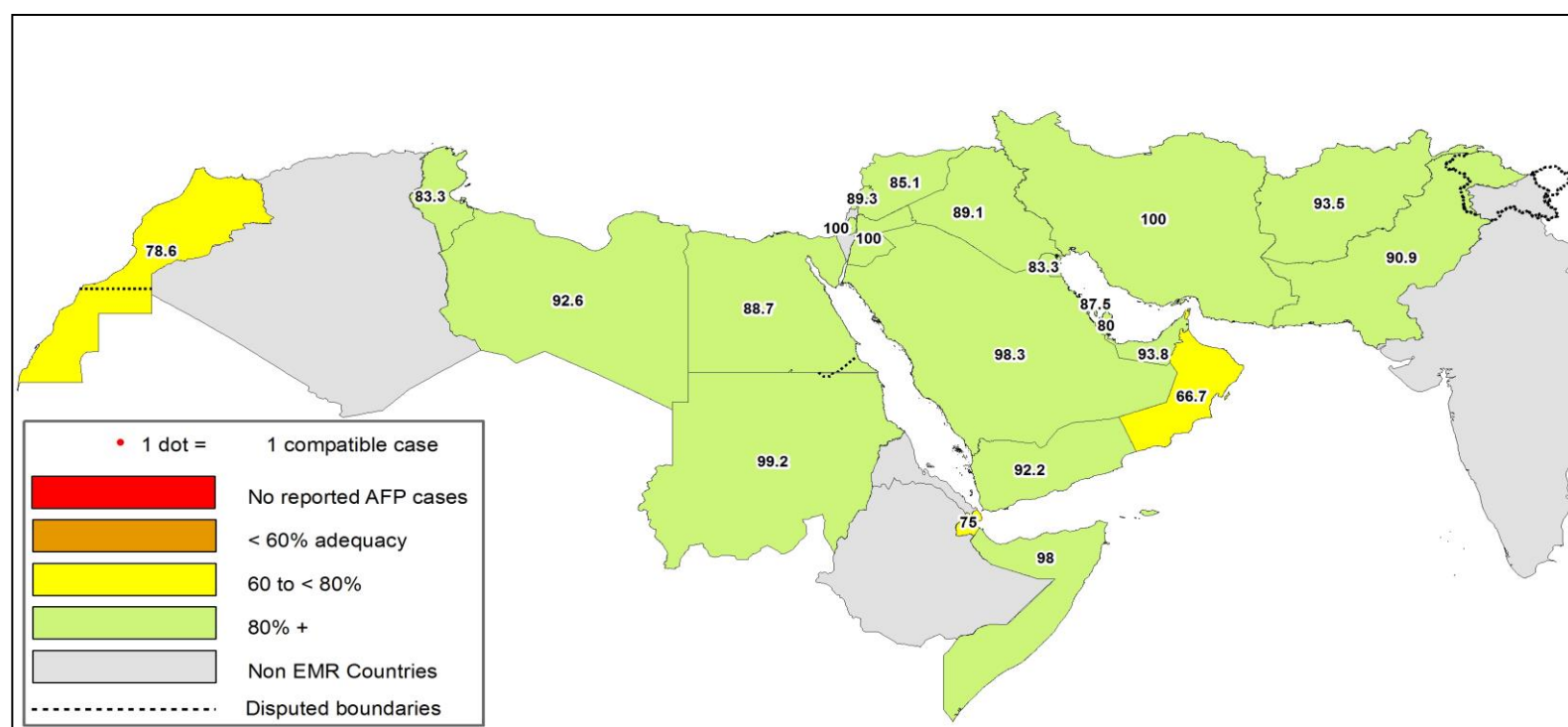
| Year              | Country | Status | Province           | District           | Count       | First date    | Last date     |           |              |
|-------------------|---------|--------|--------------------|--------------------|-------------|---------------|---------------|-----------|--------------|
| 2016              | AFG     | WILD1  | HILMAND            | NAHR-E-SARAJ       | 1           | 23-Dec        | 23-Dec        |           |              |
|                   |         |        | NANGARHAR          | JALALABAD          | 1           | 26-Dec        | 26-Dec        |           |              |
| <b>AFG Total</b>  |         |        |                    |                    | <b>2</b>    | <b>23-Dec</b> | <b>26-Dec</b> |           |              |
| 2016              | EGY     | VDPV2  | SOUTH SINIA        | EL TUR             | 1           | 15-Mar        | 15-Mar        |           |              |
| <b>EGY Total</b>  |         |        |                    |                    | <b>1</b>    | <b>15-Mar</b> | <b>15-Mar</b> |           |              |
| 2016              | PAK     | WILD1  | BALOCHISTAN        | KABDULLAH          | 6           | 15-Jan        | 2-Dec         |           |              |
|                   |         |        |                    | PISHIN             | 4           | 2-Aug         | 16-Sep        |           |              |
|                   |         |        |                    | QUETTA             | 11          | 12-Feb        | 20-Nov        |           |              |
|                   |         |        |                    | KHYBER PAKHTUNKHWA | DIKHAN      | 1             | 16-Jul        | 16-Jul    |              |
|                   |         |        | PUNJAB             | PESHAWAR           | 10          | 11-Jan        | 10-Dec        |           |              |
|                   |         |        |                    | DERA GHAZI KHAN    | 1           | 12-May        | 12-May        |           |              |
|                   |         |        |                    | FAISALABAD         | 2           | 3-Feb         | 2-Jul         |           |              |
|                   |         |        |                    | LAHORE             | 3           | 5-Aug         | 18-Oct        |           |              |
|                   |         |        | SINDH              | MULTAN             | 2           | 8-Nov         | 8-Dec         |           |              |
|                   |         |        |                    | RAWALPINDI         | 4           | 14-Apr        | 10-Dec        |           |              |
|                   |         |        |                    | HYDERABAD          | 1           | 5-Jan         | 5-Jan         |           |              |
|                   |         |        |                    | JACOBABAD          | 3           | 4-Feb         | 16-Aug        |           |              |
|                   |         |        |                    | KHIBALDIA          | 1           | 14-Jul        | 14-Jul        |           |              |
|                   |         |        |                    | KHIGADAP           | 4           | 27-Jan        | 9-Mar         |           |              |
|                   |         |        |                    | KHIGIQBAL          | 2           | 18-Jan        | 15-Mar        |           |              |
|                   |         |        |                    | KHILANDHI          | 1           | 14-Dec        | 14-Dec        |           |              |
|                   |         |        | WILD1+VDPV2        | BALOCHISTAN        | QUETTA      | 3             | 20-Oct        | 12-Dec    |              |
|                   |         |        |                    | VDPV2              | BALOCHISTAN | QUETTA        | 4             | 20-Jun    | 28-Dec       |
|                   |         |        |                    |                    | SINDH       | HYDERABAD     | 1             | 11-Jul    | 11-Jul       |
|                   |         |        | <b>PAK Total</b>   |                    |             |               |               | <b>67</b> | <b>5-Jan</b> |
| <b>2016 Total</b> |         |        |                    |                    | <b>70</b>   | <b>5-Jan</b>  | <b>28-Dec</b> |           |              |
| 2017              | AFG     | WILD1  | KANDAHAR           | KANDAHAR           | 1           | 26-Jan        | 26-Jan        |           |              |
|                   |         |        | NANGARHAR          | JALALABAD          | 1           | 24-Jan        | 24-Jan        |           |              |
| <b>AFG Total</b>  |         |        |                    |                    | <b>2</b>    | <b>24-Jan</b> | <b>26-Jan</b> |           |              |
| 2017              | PAK     | WILD1  | BALOCHISTAN        | KABDULLAH          | 5           | 1-Jan         | 1-Mar         |           |              |
|                   |         |        |                    | PISHIN             | 3           | 2-Jan         | 2-Mar         |           |              |
|                   |         |        |                    | QUETTA             | 4           | 1-Jan         | 12-Feb        |           |              |
|                   |         |        | ISLAMABAD          | CDA                | 2           | 10-Feb        | 11-Mar        |           |              |
|                   |         |        | KHYBER PAKHTUNKHWA | PESHAWAR           | 2           | 10-Jan        | 10-Feb        |           |              |
|                   |         |        |                    | PUNJAB             | MULTAN      | 1             | 9-Jan         | 9-Jan     |              |
|                   |         |        | SINDH              | RAWALPINDI         | 2           | 10-Jan        | 10-Feb        |           |              |
|                   |         |        |                    | KHIGADAP           | 3           | 9-Jan         | 9-Mar         |           |              |
|                   |         |        |                    | KHIGIQBAL          | 1           | 3-Feb         | 3-Feb         |           |              |
|                   |         |        | <b>PAK Total</b>   |                    |             |               |               | <b>23</b> | <b>1-Jan</b> |
| <b>2017 Total</b> |         |        |                    |                    | <b>25</b>   | <b>1-Jan</b>  | <b>11-Mar</b> |           |              |



**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2017 - 09/04/2017**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2017 - 09/04/2017**



**Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2016 - 2017**

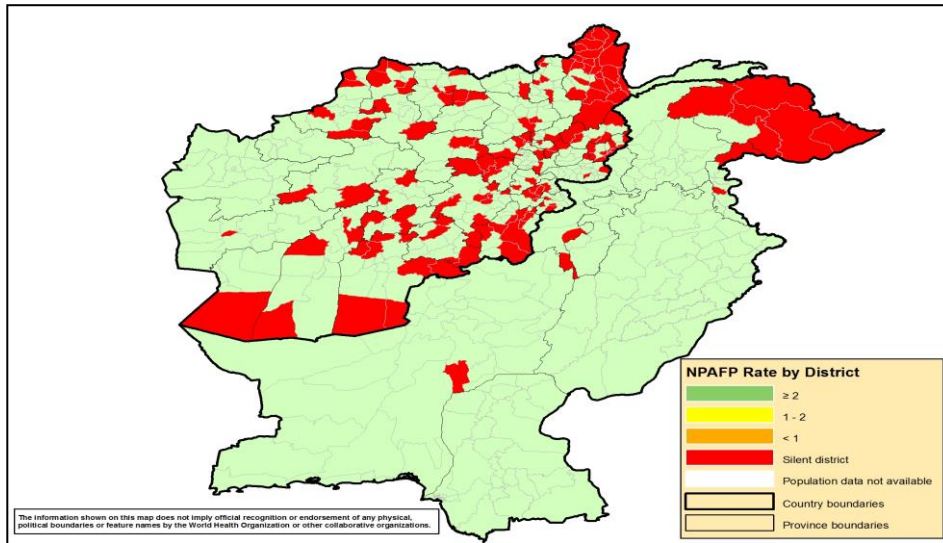
| Year       | COUNTRY | P1    |            |           |
|------------|---------|-------|------------|-----------|
|            |         | Count | First Case | Last Case |
| 2016       | AFG     | 13    | 23-01-16   | 16-12-16  |
|            | PAK     | 20    | 17-01-16   | 22-12-16  |
| 2016 Total |         | 33    | 17-01-16   | 22-12-16  |
| 2017       | AFG     | 3     | 13-01-17   | 21-02-17  |
|            | PAK     | 2     | 28-01-17   | 13-02-17  |
| 2017 Total |         | 5     | 13-01-17   | 21-02-17  |

Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012

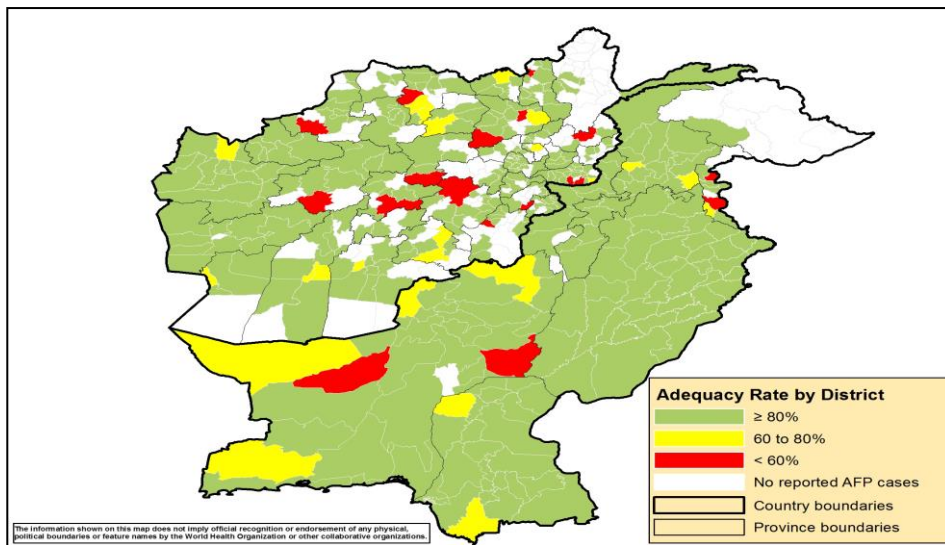




**Figure 3: Non Polio AFP rate by District in Afghanistan & Pakistan 01/01/2017 - 09/04/2017**

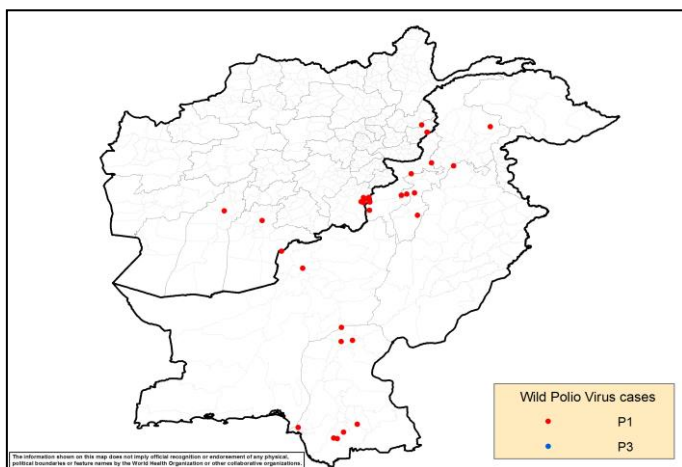


**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2017 - 09/04/2017**

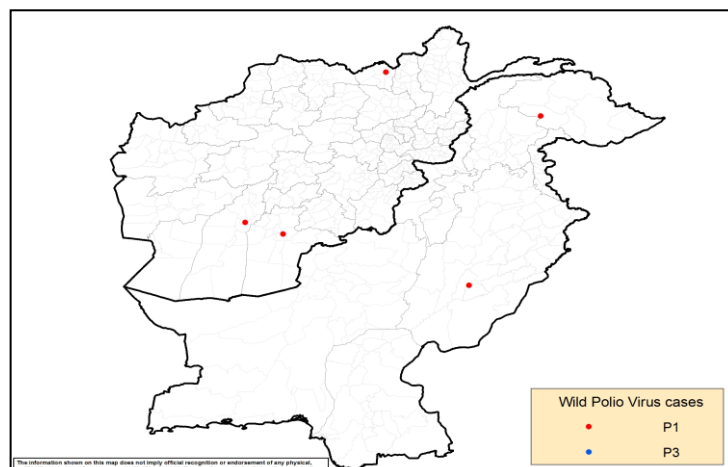


**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan**

**5a: 01/01/2016 - 31/12/2016**



**5b: 01/01/2017 - 09/04/2017**





**Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2016-2017**

| ONSETYR    | PROVINCE | DISTRICT           | Count | First case | Last case |
|------------|----------|--------------------|-------|------------|-----------|
| 2016       | PAKTIKA  | BERMEL             | 7     | 02-08-16   | 16-12-16  |
|            | KUNAR    | SHIGAL WA SHEL TAN | 4     | 01-02-16   | 29-05-16  |
|            | KANDAHAR | SHAHWALIKOT        | 1     | 04-04-16   | 04-04-16  |
|            | HILMAND  | NAWZAD             | 1     | 23-01-16   | 23-01-16  |
| 2016 Total |          |                    | 13    | 23-01-16   | 16-12-16  |
| 2017       | KUNDUZ   | DASHT-E-ARCHI      | 1     | 21-02-17   | 21-02-17  |
|            | HILMAND  | NAHR-E-SARAJ       | 1     | 21-01-17   | 21-01-17  |
|            | KANDAHAR | KANDAHAR           | 1     | 13-01-17   | 13-01-17  |
| 2017 Total |          |                    | 3     | 13-01-17   | 21-02-17  |

**Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2016-2017**

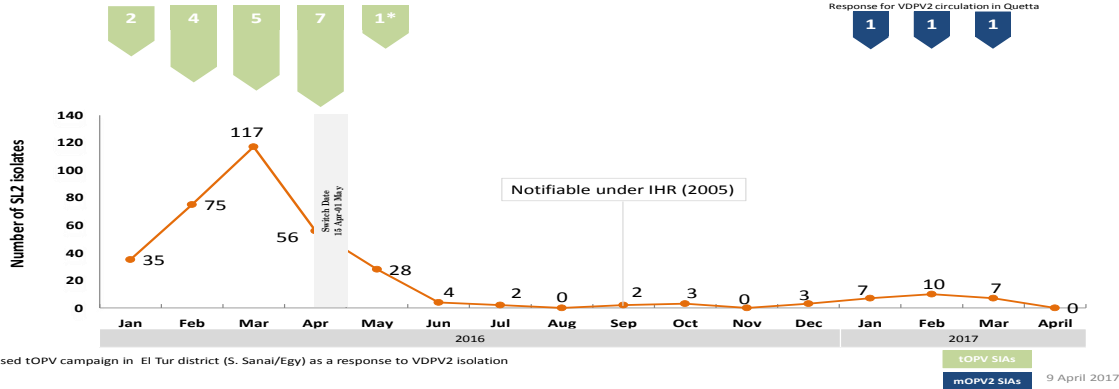
| ONSETYR    | PROVINCE         | DISTRICT        | Count    | First case | Last case |
|------------|------------------|-----------------|----------|------------|-----------|
| 2016       | BALOCHISTAN      | KABDULAH        | 1        | 22-12-16   | 22-12-16  |
|            |                  | QUETTA          | 1        | 01-02-16   | 01-02-16  |
|            | SINDH            | SUJAWAL         | 2        | 03-09-16   | 03-11-16  |
|            |                  | BADIN           | 2        | 10-10-16   | 16-10-16  |
|            |                  | SHIKARPUR       | 2        | 05-03-16   | 12-04-16  |
|            |                  | JACOBABAD       | 1        | 10-02-16   | 10-02-16  |
|            |                  | KHIGADAP        | 1        | 17-01-16   | 17-01-16  |
|            |                  | KHYBER PAKHTOON | KOHISTAN | 1          | 03-09-16  |
|            | DIKHAN           |                 | 1        | 06-06-16   | 06-06-16  |
|            | BANNU            |                 | 3        | 22-03-16   | 26-04-16  |
|            | PESHAWAR         |                 | 1        | 12-02-16   | 12-02-16  |
|            | HANGU            |                 | 1        | 09-02-16   | 09-02-16  |
|            | FATA             | NOWSHERA        | 1        | 22-01-16   | 22-01-16  |
|            |                  | WAZIR-S         | 2        | 18-06-16   | 27-07-16  |
| 2016 Total |                  |                 | 20       | 17-01-16   | 22-12-16  |
| 2017       | GILGIT BALTISTAN | DIAMIR          | 1        | 13-02-17   | 13-02-17  |
|            | PUNJAB           | LODHRAN         | 1        | 28-01-17   | 28-01-17  |
| 2017 Total |                  |                 | 2        | 28-01-17   | 13-02-17  |







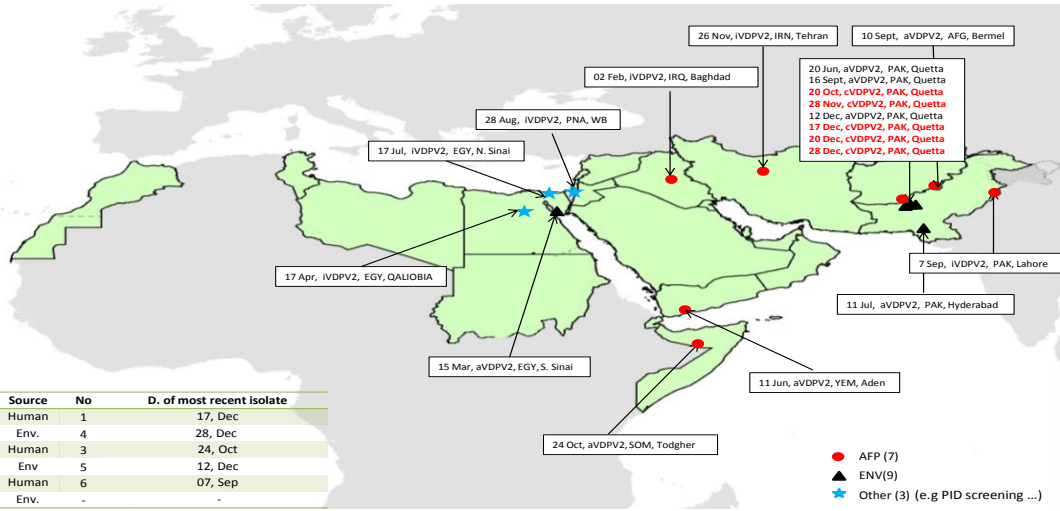
**SL2 isolates, EMR countries from Human & ENV 2016/17**



\* Focused TOPV campaign in El Tur district (S. Sanal/Egy) as a response to VDPV2 isolation

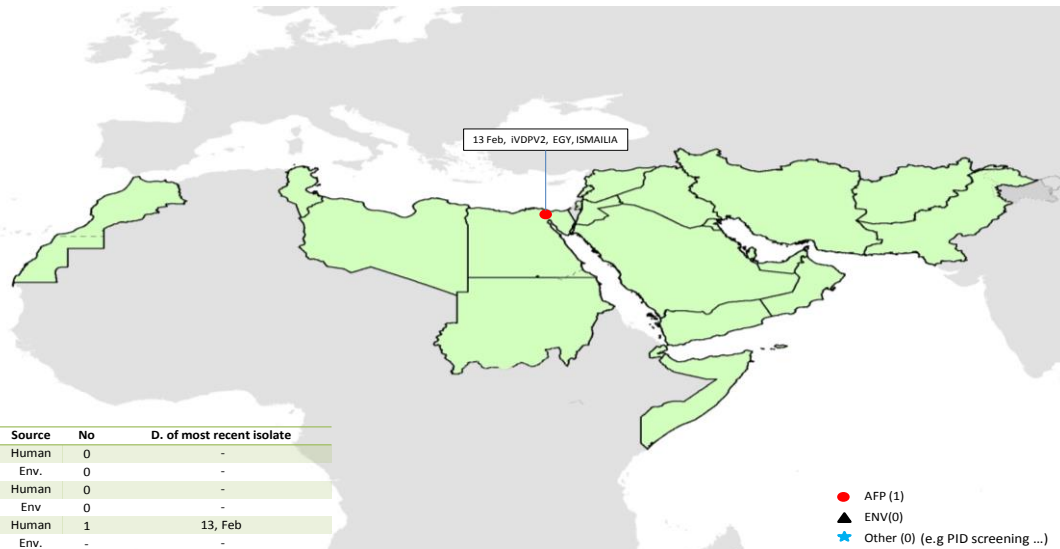
9 April 2017

**VDPV2 isolates, EMR countries, 2016**



9 April 2017

**VDPV2 isolates, EMR countries, 2017**



9 April 2017