



AFP SURVEILLANCE

6-Jun-16

Week 22, ending 5 June 2016

Number 922

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

| Country | Reported AFP cases by week of onset - Week (22/16) / Ending on : 05/06/2016 | | | | | | | | | | | | | | |
|------------------|---|----------------|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | Total AFP 2014 | Total AFP 2015 | Total AFP to date, 2016 | W11 20 Mar 16 | W12 27 Mar 16 | W13 03 Apr 16 | W14 10 Apr 16 | W15 17 Apr 16 | W16 24 Apr 16 | W17 01 May 16 | W18 08 May 16 | W19 15 May 16 | W20 22 May 16 | W21 29 May 16 | W22 05 Jun 16 |
| Afghanistan | 2421 | 2738 | 1166 | 44 | 50 | 50 | 61 | 53 | 50 | 50 | 60 | 57 | 47 | 40 | 5 |
| Bahrain | 16 | 19 | 11 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Djibouti | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Egypt | 1000 | 1046 | 482 | 29 | 18 | 18 | 27 | 31 | 27 | 22 | 27 | 19 | 20 | 19 | 6 |
| Iran | 753 | 780 | 299 | 9 | 6 | 18 | 18 | 11 | 9 | 11 | 18 | 17 | 5 | 0 | 0 |
| Iraq | 590 | 520 | 283 | 16 | 15 | 17 | 14 | 6 | 9 | 5 | 10 | 16 | 7 | 4 | |
| Jordan **** | 62 | 90 | 34 | 3 | 1 | 3 | 4 | 2 | 5 | 2 | 2 | 0 | | | |
| Kuwait | 32 | 32 | 22 | 2 | 0 | 0 | 1 | 2 | 1 | 1 | 3 | 1 | 0 | 1 | 0 |
| Lebanon **** | 50 | 113 | 44 | 2 | 3 | 3 | 4 | 1 | 0 | 3 | 2 | 3 | 0 | 1 | 1 |
| Libya | 43 | 54 | 22 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | |
| Morocco | 103 | 79 | 24 | 2 | 0 | 1 | 1 | 2 | 1 | 0 | 1 | 1 | | | |
| Oman | 34 | 39 | 14 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pakistan | 5370 | 5814 | 2295 | 112 | 102 | 87 | 96 | 125 | 111 | 111 | 131 | 111 | 75 | 17 | 1 |
| Palestine **** | 21 | 38 | 27 | 2 | 0 | 1 | 0 | 1 | 0 | 4 | 1 | 1 | 0 | 0 | 0 |
| Qatar | 7 | 11 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Saudi Arabia | 227 | 254 | 111 | 2 | 9 | 11 | 9 | 14 | 5 | 6 | 3 | 1 | 0 | 0 | 0 |
| Somalia | 420 | 281 | 122 | 3 | 10 | 10 | 5 | 3 | 8 | 7 | 12 | 3 | 4 | 1 | |
| Sudan | 442 | 436 | 190 | 18 | 5 | 9 | 11 | 12 | 14 | 8 | 7 | 14 | 7 | 0 | |
| Syria **** | 306 | 235 | 129 | 5 | 3 | 6 | 10 | 3 | 5 | 4 | 7 | 7 | 2 | 2 | 1 |
| Tunisia | 44 | 64 | 40 | 0 | 0 | 1 | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 0 | |
| U.A.E | 25 | 31 | 20 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 0 |
| Yemen | 578 | 537 | 285 | 10 | 10 | 11 | 12 | 14 | 9 | 3 | 12 | 16 | 11 | 13 | |
| Total EMR | 12547 | 13214 | 5624 | 261 | 237 | 249 | 278 | 285 | 258 | 240 | 300 | 271 | 181 | 101 | 14 |

☐ No data = No report received

Table 2: Confirmed polio cases by month of onset

| Country | Total year 2014 | Total year 2015 | 05/06 | | Confirmed polio cases by month of onset | | | | | | | | | | | |
|------------------|-----------------|-----------------|-----------|-----------|---|-------------|----------------|--------------|---------------|---------------|--------------|---------------|------------|------------|----------|-----------|
| | | | 2015 | 2016 | July 2015 | August 2015 | September 2015 | October 2015 | November 2015 | December 2015 | January 2016 | February 2016 | March 2016 | April 2016 | May 2016 | June 2016 |
| Afghanistan | 28 | 20 | 4 | 5 | 1 | 3 | 3 | 4 | 2 | 1 | 1 | 2 | 1 | 1 | | |
| Bahrain | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| Djibouti | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Egypt | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Iran | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Iraq | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Jordan **** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Kuwait | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Lebanon **** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Libya | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Morocco | 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 | | |
| Pakistan | 306 | 54 | 25 | 11 | | 5 | 4 | 4 | 9 | 3 | 2 | 4 | 2 | 3 | | |
| Palestine **** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Qatar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Saudi Arabia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Somalia | 5 | 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 | | |
| Syria **** | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Tunisia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| U.A.E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Yemen | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total EMR | 342 | 74 | 29 | 16 | 1 | 8 | 7 | 8 | 11 | 4 | 3 | 6 | 3 | 4 | 0 | 0 |

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



Table 3: Investigation of AFP cases with paralysis onset in 2015 & 2016 up to Week (22/16) / Ending on : 05/06/2016)

| COUNTRY | 2015 | | | | | | | | | | | | 2016 | | | | | | | | | | | | Latest line List Date |
|--------------|----------------------------|-------------------------------|------------------|------------------------|---------------------------|------|-----------------------|--|--|-------------------------------|--------------------|--------------------|----------------------------|-------------------------------|------------------|------------------------|---------------------------|------|----------------------------------|--|--|-------------------------------|--------------------|--------------------|-----------------------|
| | AFP | | | | | | | | | Specimen | Wild cases **** | | AFP | | | | | | | | | Specimen | Wild cases **** | | |
| | Total AFP cases onset 2015 | 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 2016 | 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 | 2738 | 20 | 3 | 0 | 2715 | 0 | 13.8 | 0 | 0 | 93.0 | 20 | 0 | 1166 | 5 | 0 | 189 | 972 | 0 | 13.7 | 18 | 0 | 91.6 | 5 | 0 | 05/06/2016 |
| Bahrain | 19 | 0 | 0 | 0 | 19 | 0 | 7.0 | 0 | 0 | 94.7 | 0 | 0 | 11 | 0 | 0 | 3 | 8 | 0 | 9.4 | 0 | 0 | 100.0 | 0 | 0 | 05/06/2016 |
| Djibouti | 3 | 0 | 0 | 0 | 3 | 0 | 1.0 | 0 | 0 | 66.7 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0.8 | 0 | 0 | 100.0 | 0 | 0 | 29/05/2016 |
| Egypt | 1046 | 0 | 0 | 0 | 1045 | 1 | 3.0 | 0 | 0 | 94.2 | 0 | 0 | 482 | 0 | 0 | 100 | 382 | 0 | 2.9 | 1 | 0 | 90.7 | 0 | 0 | 04/06/2016 |
| Iran | 780 | 0 | 0 | 0 | 779 | 1 | 4.3 | 0 | 0 | 96.9 | 0 | 0 | 299 | 0 | 0 | 7 | 292 | 0 | 3.7 | 0 | 0 | 94.7 | 0 | 0 | 05/06/2016 |
| Iraq | 520 | 0 | 0 | 0 | 518 | 2 | 3.6 | 0 | 0 | 81.9 | 0 | 0 | 283 | 0 | 0 | 41 | 241 | 1 | 4.5 | 13 | 1 | 83.8 | 0 | 0 | 04/06/2016 |
| Jordan | 90 | 0 | 0 | 0 | 90 | 0 | 3.2 | 0 | 0 | 96.7 | 0 | 0 | 34 | 0 | 0 | 24 | 10 | 0 | 2.9 | 0 | 0 | 100.0 | 0 | 0 | 15/05/2016 |
| Kuwait | 32 | 0 | 0 | 0 | 32 | 0 | 3.7 | 0 | 0 | 96.9 | 0 | 0 | 22 | 0 | 0 | 8 | 14 | 0 | 5.9 | 0 | 0 | 95.5 | 0 | 0 | 05/06/2016 |
| Lebanon | 113 | 0 | 0 | 0 | 113 | 0 | 5.2 | 0 | 0 | 84.1 | 0 | 0 | 44 | 0 | 0 | 12 | 32 | 0 | 5.3 | 4 | 0 | 77.3 | 0 | 0 | 06/06/2016 |
| Libya | 54 | 0 | 0 | 0 | 54 | 0 | 2.6 | 0 | 0 | 94.4 | 0 | 0 | 22 | 0 | 0 | 8 | 14 | 0 | 2.5 | 1 | 0 | 95.5 | 0 | 0 | 31/05/2016 |
| Morocco | 79 | 0 | 0 | 1 | 78 | 0 | 0.8 | 1 | 0 | 57.0 | 0 | 0 | 24 | 0 | 0 | 9 | 15 | 0 | 0.5 | 5 | 0 | 70.8 | 0 | 0 | 20/05/2016 |
| Oman | 39 | 0 | 0 | 0 | 39 | 0 | 4.5 | 0 | 0 | 97.4 | 0 | 0 | 14 | 0 | 0 | 1 | 13 | 0 | 3.8 | 0 | 0 | 92.9 | 0 | 0 | 29/05/2016 |
| Pakistan | 5814 | 54 | 9 | 17 | 5730 | 4 | 7.4 | 17 | 1 | 87.2 | 54 | 0 | 2295 | 11 | 0 | 315 | 1969 | 0 | 6.8 | 76 | 3 | 89.7 | 11 | 0 | 06/06/2016 |
| Palestine | 38 | 0 | 0 | 0 | 38 | 0 | 2.2 | 0 | 0 | 92.1 | 0 | 0 | 27 | 0 | 0 | 8 | 19 | 0 | 3.3 | 0 | 0 | 96.3 | 0 | 0 | 05/06/2016 |
| Qatar | 11 | 0 | 0 | 0 | 11 | 0 | 3.7 | 0 | 0 | 100.0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 2.4 | 0 | 0 | 100.0 | 0 | 0 | 05/06/2016 |
| Saudi Arabia | 254 | 0 | 0 | 0 | 254 | 0 | 2.7 | 0 | 0 | 98.0 | 0 | 0 | 111 | 0 | 0 | 98 | 13 | 0 | 2.7 | 34 | 34 | 99.1 | 0 | 0 | 05/06/2016 |
| Somalia | 281 | 0 | 1 | 0 | 280 | 0 | 4.9 | 0 | 0 | 96.1 | 0 | 0 | 122 | 0 | 0 | 13 | 109 | 0 | 4.9 | 0 | 0 | 100.0 | 0 | 0 | 04/06/2016 |
| Sudan | 436 | 0 | 0 | 0 | 436 | 0 | 2.6 | 0 | 0 | 97.3 | 0 | 0 | 190 | 0 | 0 | 21 | 169 | 0 | 2.6 | 0 | 0 | 98.4 | 0 | 0 | 29/05/2016 |
| Syria | 235 | 0 | 0 | 0 | 235 | 0 | 3.0 | 0 | 0 | 90.2 | 0 | 0 | 129 | 0 | 0 | 25 | 104 | 0 | 3.9 | 0 | 0 | 90.7 | 0 | 0 | 02/06/2016 |
| Tunisia | 64 | 0 | 0 | 0 | 64 | 0 | 2.4 | 0 | 0 | 85.9 | 0 | 0 | 40 | 0 | 0 | 6 | 34 | 0 | 3.5 | 0 | 0 | 87.5 | 0 | 0 | 03/06/2016 |
| U.A.E | 31 | 0 | 0 | 0 | 31 | 0 | 3.0 | 0 | 0 | 90.3 | 0 | 0 | 20 | 0 | 0 | 5 | 15 | 0 | 4.6 | 0 | 0 | 100.0 | 0 | 0 | 05/06/2016 |
| Yemen | 537 | 0 | 0 | 19 | 518 | 0 | 4.1 | 19 | 10 | 90.7 | 0 | 0 | 285 | 0 | 0 | 180 | 105 | 0 | 5.1 | 43 | 37 | 93.7 | 0 | 0 | 04/06/2016 |
| EMR | 13214 | 74 | 13 | 37 | 13082 | 8 | 5.4 | 37 | 11 | 90.2 | 74 | 0 | 5624 | 16 | 0 | 1076 | 4531 | 1 | 5.3 | 195 | 75 | 91.1 | 16 | 0 | |
| 2014 | 12546 | 342 | 59 | 0 | 12116 | 30 | 4.9 | 0 | 0 | 90.7 | 342 | 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



World Health Organization – Regional Office for Eastern Mediterranean

AFP SURVEILLANCE

Week 22, ending 5 June 2016

6-Jun-16

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Table 4: Investigation of contacts of AFP cases with paralysis onset in 2016 up to Week (22/16) / Ending on : (05/06/2016)

| Country | No. of AFP cases | No. of eligible AFP cases for contact sampling* | % of eligible AFP cases with contact samplings | % of eligible AFP cases with 3+ contacts | Total number of Contacts** | % of contacts under 5 years | % of contacts with specimens collected within 7 days of notification of index | % Contact specimens in lab within 3 days of collection | % Contact specimens positive for NPEV | % Contact specimens positive for Sabin like virus | No. of contacts positive for wild virus | % of wild polio virus isolation from contacts | No. of Contacts positive for VDPVs | No. of -ve index AFP cases identified positive by contact | No. of district identified infected from contacts |
|-------------------------|------------------|---|--|--|----------------------------|-----------------------------|---|--|---------------------------------------|---|---|---|------------------------------------|---|---|
| Afghanistan | 1166 | 94 | 84.6 | 84.6 | 496 | 95.8 | 64.3 | 27.4 | 19.1 | 9.4 | 3 | 0.7 | | 2 | 1 |
| Bahrain | 11 | 0 | | | 0 | | | | | | 0 | | | 0 | 0 |
| Djibouti | 1 | 0 | | | 0 | | | | | | 0 | | | 0 | 0 |
| Egypt | 482 | 59 | 86.2 | 82.8 | 130 | 74.6 | 63.1 | 94.8 | 11.3 | 7.8 | 0 | 0.0 | | 0 | 0 |
| Iran | 299 | 18 | 64.7 | 58.8 | 54 | 70.4 | 14.8 | 79.6 | 5.6 | 0.0 | 0 | 0.0 | | 0 | 0 |
| Iraq | 283 | 45 | 73.9 | 63.0 | 385 | 62.3 | 17.9 | 91.1 | 15.8 | 3.4 | 0 | 0.0 | | 0 | 0 |
| Jordan | 34 | 0 | | | 0 | | | | | | 0 | | | 0 | 0 |
| Kuwait | 22 | 1 | 100.0 | 100.0 | 31 | 51.6 | 74.2 | 100.0 | 0.0 | 0.0 | 0 | 0.0 | | 0 | 0 |
| Lebanon | 44 | 9 | 11.1 | 11.1 | 4 | 75.0 | 25.0 | 0.0 | 0.0 | 0.0 | 0 | 0.0 | | 0 | 0 |
| Libya | 22 | 1 | 0.0 | 0.0 | 0 | | | | | | 0 | | | 0 | 0 |
| Morocco | 24 | 7 | 50.0 | 50.0 | 13 | 61.5 | 69.2 | 44.4 | 0.0 | 0.0 | 0 | 0.0 | | 0 | 0 |
| Oman | 14 | 1 | 0.0 | 0.0 | 11 | 81.8 | 100.0 | 81.8 | 0.0 | 0.0 | 0 | 0.0 | | 0 | 0 |
| Pakistan | 2295 | 214 | 77.8 | 75.6 | 631 | 90.2 | 61.6 | 67.3 | 20.4 | 7.3 | 2 | 0.3 | | 0 | 0 |
| Palestine | 27 | 1 | 0.0 | 0.0 | 0 | | | | | | 0 | | | 0 | 0 |
| Qatar | 3 | 0 | | | 0 | | | | | | 0 | | | 0 | 0 |
| Saudi Arabia | 111 | 1 | 0.0 | 0.0 | 0 | | | | | | 0 | | | 0 | 0 |
| Somalia | 122 | 0 | | | 358 | 91.9 | 99.4 | 40.7 | 16.1 | 6.5 | 0 | 0.0 | | 0 | 0 |
| Sudan | 190 | 3 | 100.0 | 100.0 | 74 | 73.0 | 51.4 | 2.9 | 14.3 | 0.0 | 0 | 0.0 | | 0 | 0 |
| Syria | 129 | 12 | 54.5 | 27.3 | 290 | 30.3 | 87.2 | 59.2 | 1.6 | 0.8 | 0 | 0.0 | | 0 | 0 |
| Tunisia | 40 | 3 | 25.0 | 0.0 | 5 | 0.0 | 60.0 | 100.0 | 0.0 | 0.0 | 0 | 0.0 | | 0 | 0 |
| U.A.E. | 20 | 0 | | | 0 | | | | | | 0 | | | 0 | 0 |
| Yemen | 285 | 16 | 87.5 | 68.8 | 663 | 59.1 | 79.6 | 0.0 | 14.9 | 3.9 | 0 | 0.0 | | 0 | 0 |
| Grand Total 2016 | 5624 | 485 | 75.9 | 71.7 | 3145 | 73.7 | 66.4 | 53.9 | 15.2 | 5.6 | 5 | 0.2 | | 2 | 1 |
| Grand Total 2015 | 13214 | 1312 | 79.6 | 73.9 | 7465 | 74.3 | 63.7 | 45.8 | 17.6 | 5.0 | 11 | 0.2 | 2 | 5 | 3 |

* Eligible refers to AFP cases with inadequate stool specimens

** Total number of contacts from eligible AFP cases and from other AFP cases as per with country criteria for contact sampling

Last wild contacts in EMRO, 01/01/2015 - 05/06/2016

| Year | Country | Count of wild contacts | Date of Most Recent stool collection |
|-------------------|-------------|------------------------|--------------------------------------|
| 2015 | Afghanistan | 9 | 13/01/2016 |
| | Pakistan | 2 | 27/07/2015 |
| 2015 Total | | 11 | 13/01/2016 |
| 2016 | Afghanistan | 3 | 04/04/2016 |
| | Pakistan | 2 | 13/03/2016 |
| 2016 Total | | 5 | 04/04/2016 |

Number and distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2015-2016

| Year | COUNTRY | PROVINCE | DISTRICT | Count | First case | Last case |
|-------------------|------------------|-----------------|--------------------|----------|-------------------|-------------------|
| 2015 | AFG | FARAH | GULESTAN | 1 | 23/04/2015 | 23/04/2015 |
| | | | BAKWA | 1 | 21/04/2015 | 21/04/2015 |
| | | KANDAHAR | SHAHWALIKOT | 1 | 20/12/2015 | 20/12/2015 |
| | AFG Total | | | 3 | 21/04/2015 | 20/12/2015 |
| | PAK | KHYBER PAKHTOON | PESHAWAR | 1 | 08/06/2015 | 08/06/2015 |
| | | | TANK | 1 | 25/01/2015 | 25/01/2015 |
| | PAK Total | | | 2 | 25/01/2015 | 08/06/2015 |
| 2015 Total | | | | 5 | 25/01/2015 | 20/12/2015 |
| 2016 | AFG | KUNAR | SHIGAL WA SHELTRAN | 1 | 26/02/2016 | 26/02/2016 |
| | | HILMAND | NAWZAD | 1 | 23/01/2016 | 23/01/2016 |
| | AFG Total | | | 2 | 23/01/2016 | 26/02/2016 |
| 2016 Total | | | | 2 | 23/01/2016 | 26/02/2016 |



Table 5: Laboratory investigation of AFP cases with paralysis onset in 2016 up to Week (22/16) / Ending on : (05/06/2016)

| Country | Polio laboratories 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 | VPV | Wild | Sabin | VPV | Wild | Sabin | VPV | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Afghanistan | RRL Pakistan | 1122 | 96 | 12 | 187 | 733 | 94 | | 3 | 58 | | | 18 | | | 61 | | 1 | | | 16% | 100% | 97% | 97% | 03/06/2016 | |
| Bahrain | PNL Oman | 10 | 1 | | | 9 | | | | | | | | | | | | | 1 | | 0% | 100% | | 89% | 25/04/2016 | |
| Djibouti | NPL Kenya | 1 | | | 1 | | | | | | | | | | | | | | | | 100% | | | 100% | 29/05/2016 | |
| Egypt*** | RRL Egypt | 465 | 20 | 1 | 47 | 360 | 34 | 3 | | 5 | | | 7 | | | 12 | | 1 | 2 | 1 | 8% | 100% | 100% | 99% | 03/06/2016 | |
| Iran | NPL Iran | 319 | 6 | | 9 | 285 | 19 | | | 5 | | | | | | 2 | | 1 | | | 3% | 100% | 100% | 99% | 04/06/2016 | |
| Iraq | RRL Egypt | 281 | 11 | | 17 | 233 | 17 | 3 | | 3 | | | 9 | 1 | | 6 | | | | | 11% | 100% | 100% | 92% | 02/06/2016 | |
| Jordan | RRL Tunisia | 44 | | | 1 | 36 | 7 | | | 2 | | | | | | 1 | | | | | 5% | 100% | 100% | 100% | 05/06/2016 | |
| Kuwait | RRL Kuwait | 28 | 1 | | | 18 | 1 | 8 | | | | | | | | | | | | 1 | 0% | 89% | | 83% | 05/06/2016 | |
| Lebanon | NPL Jordan | 45 | 2 | | 3 | 37 | 3 | | | | | | | | | | | | | | 6% | 100% | | | 05/06/2016 | |
| Libya | RRL Tunisia | 23 | 1 | | | 18 | 3 | 1 | | 1 | | | | | | | | | | | 0% | 100% | 100% | 95% | 03/06/2016 | |
| Morocco | RRL Tunisia | 23 | 1 | | 1 | 20 | 1 | | | | | | | | | | | | | 1 | 14% | 95% | | 95% | 03/06/2016 | |
| Oman | NPL Oman | 13 | | | 3 | 10 | | | | | | | | | | | | | | | 14% | 100% | | 100% | 25/04/2016 | |
| Pakistan | RRL Pakistan | 2424 | 163 | 7 | 430 | 1600 | 219 | 1 | 11 | 84 | | | 31 | | | 85 | | | | 1 | 17% | 100% | 100% | 97% | 03/06/2016 | |
| Palestine & UNRWA | | 27 | | | 1 | 23 | | 3 | | | | | | | | | | | | | 4% | 40% | | 100% | 05/06/2016 | |
| Qatar | NPL Oman | 2 | | | | | | 2 | | | | | | | | | | | | | | | | | 25/04/2016 | |
| Saudi Arabia | NPL Oman | 107 | | | | 76 | | 31 | | | | | | | | 1 | | | | | 1% | 100% | 100% | 100% | 15/05/2015 | |
| Somalia | NPL Kenya | 122 | | 9 | 15 | 86 | 3 | 9 | | 6 | | | 8 | | | 6 | | | | 1 | 22% | 8% | | 98% | 04/06/2016 | |
| Sudan | RRL Egypt | 163 | | | 22 | 115 | | 26 | | | | | | | | | | | | | 16% | 100% | | 100% | 15/05/2016 | |
| Syria | RRL Egypt | 141 | 4 | | 2 | 121 | 4 | 10 | | 2 | | | | | | 3 | | | | | 2% | 100% | 100% | 100% | 02/06/2016 | |
| Tunisia | RRL Tunisia | 43 | | | 1 | 37 | 5 | | | | | | | | | | | | | | 2% | 100% | | 100% | 03/06/2016 | |
| U.A.E | NPL Oman | 14 | | | 1 | 13 | | | | | | | | | | | | | | | 7% | 100% | | 100% | 25/04/2016 | |
| Yemen | RRL Egypt | 395 | 13 | 1 | 38 | 142 | 47 | 153 | | 6 | | | 2 | | | 6 | | | 1 | | 16% | 40% | 100% | 52% | 03/06/2016 | |
| Total EMR 2016 | | 5812 | 319 | 30 | 779 | 3972 | 457 | 250 | 14 | 172 | | | 75 | 1 | | 183 | | 2 | 1 | 3 | 6 | 13% | 95% | 99% | 96% | |
| Total EMR 2015 | | 12987 | 740 | 97 | 2315 | 9800 | | 32 | 69 | 360 | | | 188 | 8 | | 414 | | 4 | 31 | 10 | 2 | 16% | 92% | 99% | 94% | |

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

** This indicator reflects surveillance and laboratory activities



Table 6 (a): Environmental isolate by year and type "EGYPT"

| Result | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------|------|------|------|------|------|------|------|
| Negative | 183 | 178 | 196 | 304 | 410 | 412 | 132 |
| Pending | | | | | | | 20 |
| Wild | | | 2 | | | | |
| VDPVP2 | | | 7 | 3 | 2 | 3 | 1 |
| VDPVP1 | | | 1 | | 1 | | |
| Total | 183 | 178 | 206 | 307 | 413 | 415 | 153 |

Table 6 (b): Environmental Wild/VDPV isolate by site "EGYPT"

| YEAR | Province | Site | Count | First date | Last Date | |
|------|--------------|-------------|----------|------------|------------|------------|
| 2015 | VDPVP2 | CAIRO | EL SAFF | 1 | 16/06/2015 | 16/06/2015 |
| | | GIZA | AL WASLA | 1 | 04/02/2015 | 04/02/2015 |
| | | HURGADA | RED SEA | 1 | 26/05/2015 | 26/05/2015 |
| | VDPVP2 Total | | | 3 | 04/02/2015 | 16/06/2015 |
| 2016 | VDPVP2 | SOUTH SINAI | AL-TUR | 1 | 15/03/2016 | 15/03/2016 |
| | VDPVP2 Total | | | 1 | 15/03/2016 | 15/03/2016 |

Table 7 (a): Environmental isolate by year and type "AFGHANISTAN/PAKISTAN"

Table 7 (b): Environmental Wild/VDPV isolate by site "AFGHANISTAN/PAKISTAN"

| COUNTRY | Status | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------|--------------|------|------|------|------|------|------|------|------|
| AFG | Negative | | | | | 9 | 78 | 127 | 57 |
| | Pending | | | | | | | 1 | 14 |
| | Wild | | | | | | 17 | 20 | |
| AFG Total | | | | | | 9 | 95 | 148 | 71 |
| PAK | Negative | 27 | 77 | 68 | 150 | 256 | 236 | 347 | 190 |
| | Pending | | | | | | | 1 | 26 |
| | Wild | 18 | 79 | 136 | 89 | 64 | 125 | 79 | 22 |
| | Wild & VDPV2 | | | | | 2 | 6 | 5 | |
| PAK Total | | 45 | 156 | 204 | 239 | 322 | 372 | 439 | 238 |

| Year | COUNTRY | Status | SITIDIST | SITENAME | Count | Wild | First date | Last date | | | |
|-------------|---------------------------------|--------------|--------------------------|---------------------------------|------------|--------------------------|----------------------|------------|--|------------|------------|
| 2015 | AFG | Wild | KABUL | KARTI NAW | 1 | | 27/12/2015 | 27/12/2015 | | | |
| | | | JALALABAD | SANGI QALA | 2 | | 23/11/2015 | 27/12/2015 | | | |
| | | | | RADOR BRIDGE | 2 | | 22/02/2015 | 21/09/2015 | | | |
| | | | LASHKARGAH | BOLAN BRIDGE | 3 | | 25/01/2015 | 25/10/2015 | | | |
| | | | | RADIO MAHALLIE | 4 | | 22/02/2015 | 25/11/2015 | | | |
| | | | ASADABAD | MANDACOO | 1 | | 25/10/2015 | 25/10/2015 | | | |
| | | | BEHSUD | HADA FARM | 1 | | 25/10/2015 | 25/10/2015 | | | |
| | | | NAHR-E-SARAJ | ZARAT BAGH | 2 | | 24/01/2015 | 19/09/2015 | | | |
| | | | | BARAN SARAJ | 1 | | 19/09/2015 | 19/09/2015 | | | |
| | | | KANDAHAR | KHANDAK | 2 | | 04/01/2015 | 28/08/2015 | | | |
| | | | | RAROBAT | 1 | | 26/01/2015 | 26/01/2015 | | | |
| | | | AFG Total | | | | | 20 | | 04/01/2015 | 27/12/2015 |
| | | | 2015 | PAK | Wild | KHI.GADAP TOWN | BALDIA COMPOSITE | 2 | | 06/01/2015 | 04/02/2015 |
| | | | | | | | SOHRAB GOTH | 5 | | 17/08/2015 | 22/12/2015 |
| | | | | | | | MACHAR COLONY | 6 | | 11/05/2015 | 12/11/2015 |
| | | | | | | | KHAMISO GOTH | 3 | | 20/01/2015 | 17/11/2015 |
| | | | | | | KHI.GULSHAN-E-IQBAL TOWN | CHAKORA NULLA | 2 | | 13/01/2015 | 05/05/2015 |
| | | | | | | | RASHID MINHAS RD LAY | 4 | | 02/03/2015 | 14/12/2015 |
| | | | | | | RAWALPINDI | SAFDAR ABAD | 1 | | 10/10/2015 | 10/10/2015 |
| | | | | | | | DHOKE DALLAL | 4 | | 10/03/2015 | 14/12/2015 |
| PESHAWAR | LARA MA | 3 | | | | | 03/01/2015 | 24/08/2015 | | | |
| | SHAHEEN TOWN | 8 | | | | | 10/01/2015 | 11/12/2015 | | | |
| HYDERABAD | TULSIDAS PUMPING STATION | 2 | | | | | 03/02/2015 | 03/12/2015 | | | |
| JACOBABAD | SADDAR PUMPING STATION | 5 | | | | | 08/01/2015 | 04/11/2015 | | | |
| QUETTA | JAM-E-SALFIA | 2 | | | | | 12/01/2015 | 12/10/2015 | | | |
| | JATAK KILLI & TAKHTHANI BY PASS | 6 | | | | | 28/01/2015 | 28/10/2015 | | | |
| | SUR PUL | 4 | | | | | 20/01/2015 | 20/09/2015 | | | |
| LAHORE | MULTAN ROAD STATION | 2 | | | | | 19/02/2015 | 19/06/2015 | | | |
| | OUTFALL STATION-F | 1 | | | | | 12/10/2015 | 12/10/2015 | | | |
| | OUTFALL STATION-G | 1 | | | | | 12/01/2015 | 12/01/2015 | | | |
| SUKKUR | MAKKA PUMPING STATION | 2 | | | | | 06/01/2015 | 04/02/2015 | | | |
| | MIANI PUMPING STATION | 4 | | | | | 05/02/2015 | 11/09/2015 | | | |
| MULTAN | ALI TOWN | 1 | | 18/08/2015 | 18/08/2015 | | | | | | |
| | KOTLA ABDUL FATAH | 2 | | 28/07/2015 | 31/08/2015 | | | | | | |
| | SURAJ MIANI | 1 | | 08/04/2015 | 08/04/2015 | | | | | | |
| CDA | SABZI MANDI | 2 | | 12/01/2015 | 17/08/2015 | | | | | | |
| DIKHAN | MODC DRAIN | 2 | | 04/03/2015 | 04/08/2015 | | | | | | |
| | ZAFAR ABAD DRAIN | 1 | | 05/05/2015 | 05/05/2015 | | | | | | |
| KABDULLAH | ARMY KAZIBA | 2 | | 01/03/2015 | 01/06/2015 | | | | | | |
| | HADI PACKET | 1 | | 15/01/2015 | 15/01/2015 | | | | | | |
| 2015 | PAK | Wild & VDPV2 | QUETTA | JAM-E-SALFIA | 2 | | 12/09/2015 | 12/12/2015 | | | |
| | | | | JATAK KILLI & TAKHTHANI BY PASS | 1 | | 28/03/2015 | 28/03/2015 | | | |
| | | | PESHAWAR | LARA MA | 1 | | 26/02/2015 | 26/02/2015 | | | |
| | | | KHI.GADAP TOWN | SOHRAB GOTH | 1 | | 22/01/2015 | 22/01/2015 | | | |
| 2015 | PAK | VDPV2 | KHI.GULSHAN-E-IQBAL TOWN | RASHID MINHAS RD LAY | 2 | | 08/06/2015 | 07/07/2015 | | | |
| | | | LAHORE | OUTFALL STATION-G | 1 | | 13/04/2015 | 13/04/2015 | | | |
| | | | KHI.GADAP TOWN | SOHRAB GOTH | 2 | | 23/02/2015 | 18/03/2015 | | | |
| | | | | MACHAR COLONY | 3 | | 14/01/2015 | 16/03/2015 | | | |
| PAK Total | | | | | 92 | | 03/01/2015 | 22/12/2015 | | | |
| 2016 | PAK | Wild | PESHAWAR | SHAHEEN TOWN | 4 | | 11/01/2016 | 22/04/2016 | | | |
| | | | RAWALPINDI | SAFDAR ABAD | 1 | | 14/04/2016 | 14/04/2016 | | | |
| | | | SUKKUR | MAKKA PUMPING STATION | 3 | | 12/01/2016 | 19/03/2016 | | | |
| | | | KHI.GULSHAN-E-IQBAL TOWN | RASHID MINHAS RD LAY | 2 | | 18/01/2016 | 15/03/2016 | | | |
| | | | JACOBABAD | SADDAR PUMPING STATION | 2 | | 04/02/2016 | 10/03/2016 | | | |
| | | | KHI.GADAP TOWN | SOHRAB GOTH | 1 | | 27/01/2016 | 27/01/2016 | | | |
| | | | | MACHAR COLONY | 2 | | 08/02/2016 | 09/03/2016 | | | |
| | | | | KHAMISO GOTH | 1 | | 09/02/2016 | 09/02/2016 | | | |
| | | | QUETTA | JAM-E-SALFIA | 2 | | 12/02/2016 | 12/02/2016 | | | |
| | | | FAISALABAD | PUMPING STATION 3 ACHIKAIRA | 2 | | 03/02/2016 | 03/02/2016 | | | |
| | | | KABDULLAH | HADI PACKET | 1 | | 15/01/2016 | 15/01/2016 | | | |
| HYDERABAD | TULSIDAS PUMPING STATION | 1 | | 05/01/2016 | 05/01/2016 | | | | | | |
| PAK Total | | | | | 22 | | 05/01/2016 | 22/04/2016 | | | |
| Grand Total | | | | | 134 | | 03/01/2015 | 22/04/2016 | | | |



Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2016 - 05/05/2016

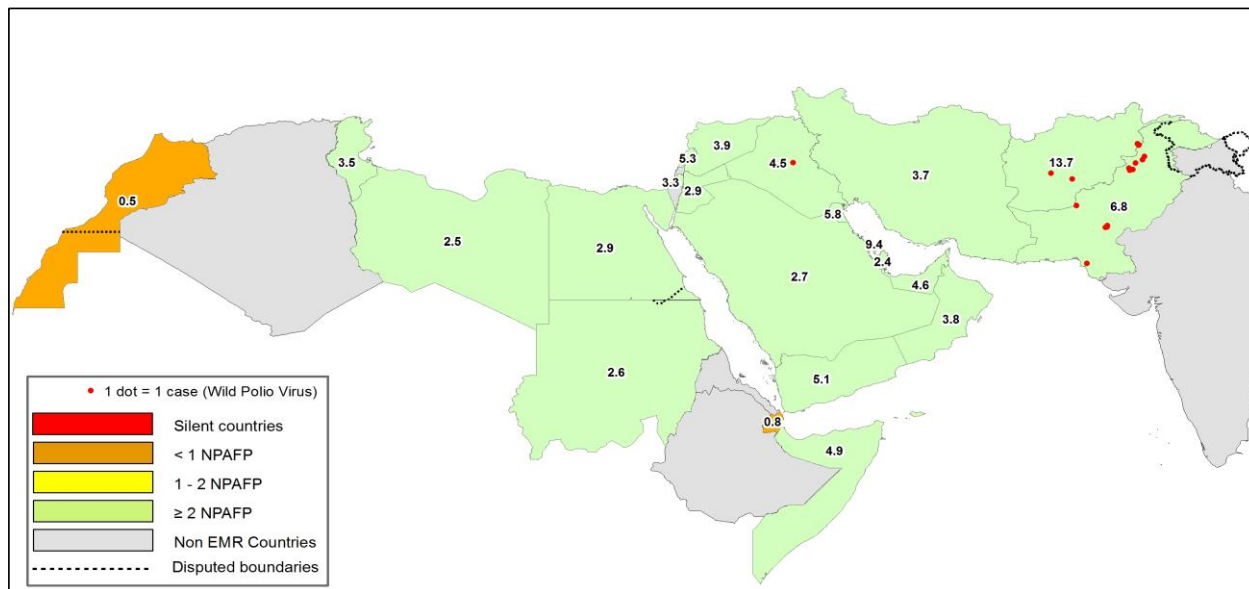


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2016 - 05/05/2016

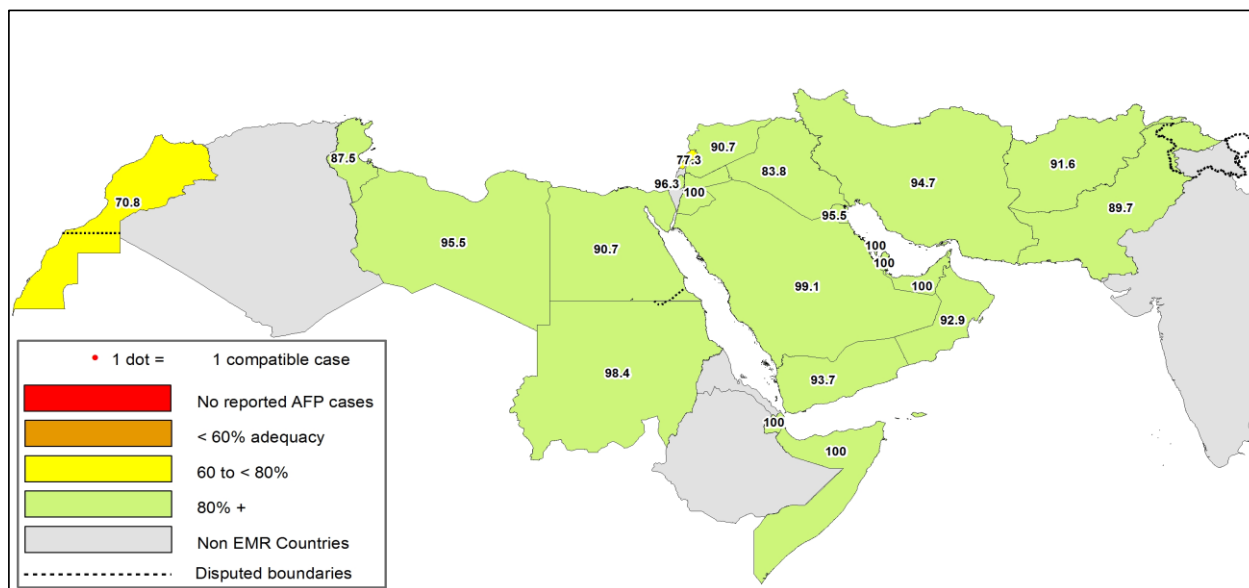


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2015-2016

| Year | COUNTRY | Count | First Case | Last Case |
|------------|---------|-------|------------|------------|
| 2015 | PAK | 54 | 1/3/2015 | 12/31/2015 |
| | AFG | 20 | 1/21/2015 | 12/20/2015 |
| 2015 Total | | 74 | 1/3/2015 | 12/31/2015 |
| 2016 | PAK | 11 | 1/17/2016 | 4/26/2016 |
| | AFG | 5 | 1/23/2016 | 4/4/2016 |
| 2016 Total | | 16 | 1/17/2016 | 4/26/2016 |

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 01/01/2016 - 05/06/2016

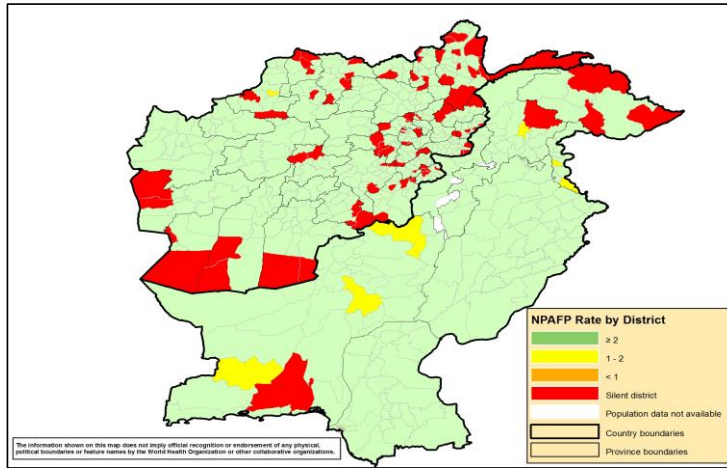


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2016 - 05/06/2016

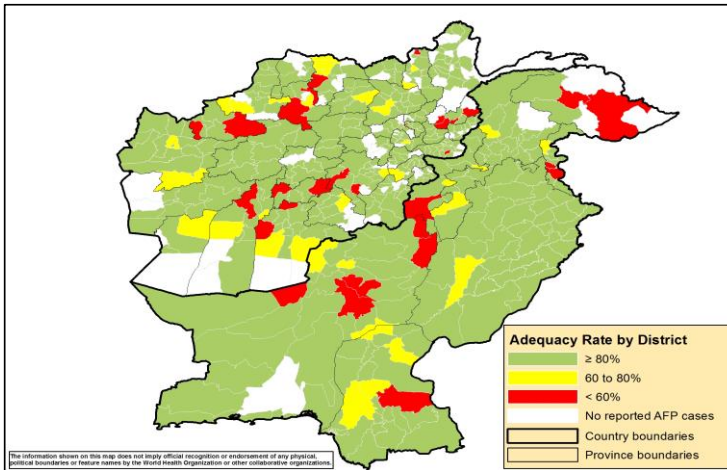
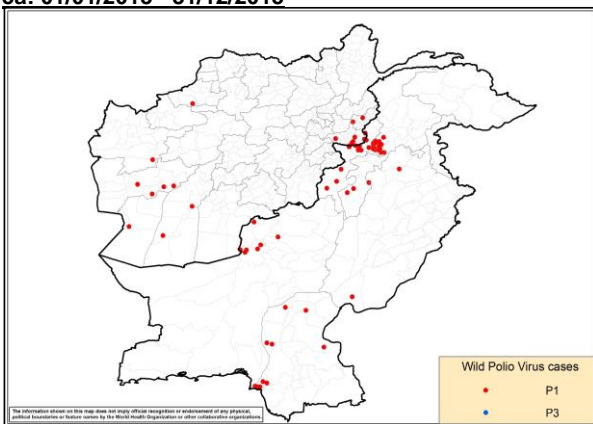


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

5a: 01/01/2015 - 31/12/2015



5b: 01/01/2016 - 05/06/2016

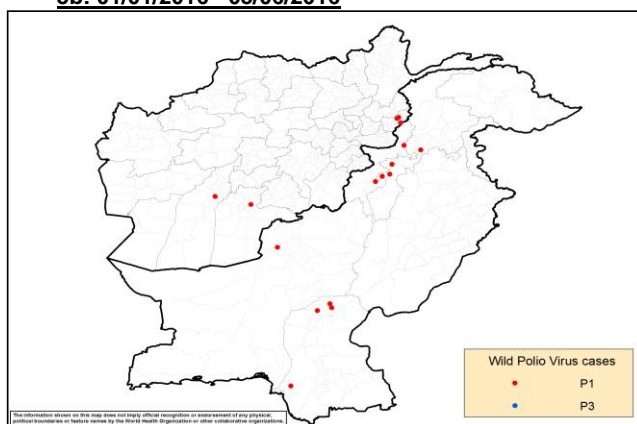




Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2015-2016

| ONSETYR | PROVINCE | DISTRICT | Count | First case | Last case | |
|------------|-----------|--------------------|-------------|------------|------------|------------|
| 2015 | KANDAHAR | SHAHWAJ KOT | 1 | 12/20/2015 | 12/20/2015 | |
| | | KUNAR | CHAPADARA | 1 | 11/19/2015 | 11/19/2015 |
| | | | DARA-E-PECH | 1 | 11/3/2015 | 11/3/2015 |
| | NANGARHAR | LALPUR | 1 | 10/27/2015 | 10/27/2015 | |
| | | MUJHMAND DARA | 1 | 10/14/2015 | 10/14/2015 | |
| | | SHERZAD | 1 | 9/6/2015 | 9/6/2015 | |
| | | BATIKOT | 1 | 9/4/2015 | 9/4/2015 | |
| | | ACHIN | 4 | 7/14/2015 | 9/1/2015 | |
| | | FARYAB | QAYSAR | 1 | 10/22/2015 | 10/22/2015 |
| | HILMAND | NAHR-E-SARAJ | 1 | 10/20/2015 | 10/20/2015 | |
| | | REG | 1 | 1/21/2015 | 1/21/2015 | |
| | NIMROZ | ZARANJ | 1 | 8/7/2015 | 8/7/2015 | |
| | HIRAT | SHINDAND | 1 | 6/27/2015 | 6/27/2015 | |
| | FARAH | BALABULLUK | | 1 | 6/7/2015 | 6/7/2015 |
| | | | 2 | 4/23/2015 | 5/5/2015 | |
| GULESTAN | | 1 | 4/21/2015 | 4/21/2015 | | |
| 2015 Total | | | 20 | 1/21/2015 | 12/20/2015 | |
| | 2016 | KANDAHAR | SHAHWAJ KOT | 1 | 4/4/2016 | 4/4/2016 |
| KUNAR | | SHIGAL WA SHEL TAN | 3 | 2/1/2016 | 3/27/2016 | |
| HILMAND | | NAWZAD | 1 | 1/23/2016 | 1/23/2016 | |
| 2016 Total | | | 5 | 1/23/2016 | 4/4/2016 | |

Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2015-2016

| ONSETYR | PROVINCE | DISTRICT | Count | First case | Last case |
|------------|-----------------|-------------|--------|------------|------------|
| 2015 | KHYBER PAKHTOON | PESHAWAR | 12 | 1/17/2015 | 12/31/2015 |
| | | CHARSADA | 1 | 4/20/2015 | 4/20/2015 |
| | | TANK | 2 | 1/3/2015 | 1/25/2015 |
| | | LAKKIMRWT | 1 | 1/7/2015 | 1/7/2015 |
| | | NOWSHERA | 1 | 1/5/2015 | 1/5/2015 |
| | PUNJAB | RYKHAN | 1 | 12/2/2015 | 12/2/2015 |
| | | CHAKWAL | 1 | 9/11/2015 | 9/11/2015 |
| | SINDH | KHIBALDIA | 2 | 11/11/2015 | 11/21/2015 |
| | | KHIGOBAL | 1 | 11/18/2015 | 11/18/2015 |
| | | KHAIRPUR | 1 | 11/2/2015 | 11/2/2015 |
| | | KHIGADAP | 2 | 10/10/2015 | 11/2/2015 |
| | | KHIKAMARI | 1 | 11/1/2015 | 11/1/2015 |
| | | KHIGULBERG | 1 | 9/14/2015 | 9/14/2015 |
| | | DADU | 2 | 2/10/2015 | 2/19/2015 |
| | | SUKKUR | 1 | 2/13/2015 | 2/13/2015 |
| | | KAMBAR | 1 | 1/4/2015 | 1/4/2015 |
| | | BALOCHSTAN | QUETTA | 5 | 2/20/2015 |
| | LORALAI | | 1 | 2/9/2015 | 2/9/2015 |
| | KABDULAH | | 1 | 2/3/2015 | 2/3/2015 |
| | FATA | KHYBER | 11 | 1/5/2015 | 11/14/2015 |
| | | FR PESHAWAR | 2 | 9/14/2015 | 10/22/2015 |
| | | WAZIR-S | 2 | 1/7/2015 | 5/24/2015 |
| | | WAZIR-N | 1 | 5/6/2015 | 5/6/2015 |
| 2015 Total | | | 54 | 1/3/2015 | 12/31/2015 |
| 2016 | KHYBER PAKHTOON | BANNU | 3 | 3/22/2016 | 4/26/2016 |
| | | PESHAWAR | 1 | 2/12/2016 | 2/12/2016 |
| | | HANGU | 1 | 2/9/2016 | 2/9/2016 |
| | | NOWSHERA | 1 | 1/22/2016 | 1/22/2016 |
| | SINDH | SHIKARPUR | 2 | 3/5/2016 | 4/12/2016 |
| | | JACOBABAD | 1 | 2/10/2016 | 2/10/2016 |
| | BALOCHSTAN | QUETTA | 1 | 1/17/2016 | 1/17/2016 |
| 2016 Total | | | 11 | 1/17/2016 | 4/26/2016 |

