



AFP SURVEILLANCE

6-Mar-17

Week 09, ending 5 March 2017

Number 961

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

| Country | Reported AFP cases by week of onset - Week (09/17) / Ending on : 05/03/2017 | | | | | | | | | | | | | | |
|------------------|---|----------------|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Total AFP 2015 | Total AFP 2016 | Total AFP to date, 2017 | W50 18 Dec 16 | W51 25 Dec 16 | W52 01 Jan 17 | W01 08 Jan 17 | W02 15 Jan 17 | W03 22 Jan 17 | W04 29 Jan 17 | W05 05 Feb 17 | W06 12 Feb 17 | W07 19 Feb 17 | W08 26 Feb 17 | W09 05 Mar 17 |
| Afghanistan | 2738 | 2904 | 441 | 54 | 52 | 29 | 53 | 42 | 45 | 64 | 49 | 65 | 66 | 38 | 6 |
| Bahrain | 19 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| Djibouti | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | |
| Egypt | 1046 | 1092 | 204 | 25 | 20 | 30 | 21 | 21 | 24 | 23 | 27 | 22 | 36 | 21 | 1 |
| Iran | 780 | 776 | 101 | 15 | 12 | 9 | 11 | 18 | 9 | 11 | 15 | 19 | 8 | 1 | 0 |
| Iraq | 520 | 605 | 102 | 10 | 9 | 14 | 15 | 14 | 17 | 12 | 9 | 13 | 12 | 4 | |
| Jordan **** | 90 | 107 | 18 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 1 | 2 | 1 | 3 | 1 |
| Kuwait | 32 | 50 | 7 | 2 | 1 | 2 | 0 | 0 | 3 | 2 | 1 | 0 | 1 | 0 | 0 |
| Lebanon **** | 113 | 111 | 20 | 0 | 4 | 2 | 0 | 5 | 1 | 4 | 0 | 3 | 4 | 3 | |
| Libya | 54 | 70 | 14 | 3 | 1 | 4 | 3 | 3 | 1 | 2 | 0 | 2 | 2 | | |
| Morocco | 79 | 85 | 5 | 2 | 1 | 0 | 0 | 3 | 1 | 1 | | | | | |
| Oman | 39 | 39 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | |
| Pakistan | 5814 | 7827 | 1118 | 210 | 194 | 148 | 158 | 198 | 168 | 136 | 158 | 140 | 110 | 21 | 0 |
| Palestine **** | 38 | 46 | 8 | 0 | 0 | 1 | 1 | 3 | 0 | 1 | 0 | 1 | 2 | 0 | 0 |
| Qatar | 11 | 9 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 |
| Saudi Arabia | 254 | 273 | 30 | 3 | 10 | 4 | 5 | 7 | 7 | 5 | 6 | 0 | 0 | 0 | 0 |
| Somalia | 281 | 316 | 55 | 4 | 7 | 1 | 6 | 9 | 10 | 6 | 2 | 7 | 9 | 5 | 1 |
| Sudan | 436 | 509 | 75 | 4 | 6 | 1 | 16 | 10 | 7 | 14 | 9 | 7 | 9 | 2 | |
| Syria **** | 235 | 303 | 38 | 10 | 4 | 9 | 6 | 4 | 3 | 5 | 5 | 7 | 3 | 4 | |
| Tunisia | 64 | 90 | 3 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | |
| U.A.E | 31 | 42 | 9 | 0 | 1 | 3 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 2 | 0 |
| Yemen | 537 | 715 | 98 | 7 | 13 | 12 | 17 | 21 | 14 | 13 | 7 | 15 | 8 | 3 | 0 |
| Total EMR | 13214 | 15986 | 2357 | 354 | 339 | 271 | 314 | 363 | 313 | 304 | 292 | 310 | 273 | 109 | 9 |

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

| Country | Total year 2015 | Total year 2016 | 05/03 | | Confirmed polio cases by month of onset | | | | | | | | | | | |
|------------------|-----------------|-----------------|-----------|----------|---|----------|-----------|-----------|-------------|----------------|--------------|---------------|---------------|--------------|---------------|------------|
| | | | 2016 | 2017 | April 2016 | May 2016 | June 2016 | July 2016 | August 2016 | September 2016 | October 2016 | November 2016 | December 2016 | January 2017 | February 2017 | March 2017 |
| Afghanistan | 20 | 13 | 3 | 2 | 1 | 1 | 0 | 0 | 2 | 2 | 2 | 0 | 1 | 2 | | |
| 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 | | | |
| Egypt | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Iran | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Iraq | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Jordan **** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Kuwait | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Lebanon **** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Libya | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Morocco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Oman | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Pakistan | 54 | 20 | 7 | 1 | 3 | 0 | 2 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | | |
| Palestine **** | 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 | | | |
| Saudi Arabia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Somalia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Sudan | 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 | | |
| Tunisia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| U.A.E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Yemen | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Total EMR | 74 | 33 | 10 | 3 | 4 | 1 | 2 | 1 | 2 | 4 | 4 | 1 | 2 | 3 | 0 | 0 |

**** 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 (09/17) / Ending on : 05/03/2017

| 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 | 2904 | 13 | 0 | 19 | 2871 | 1 | 14.4 | 6 | 0 | 92.3 | 13 | 0 | 441 | 2 | 0 | 200 | 239 | 0 | 12.1 | 0 | 0 | 94.3 | 2 | 0 | 05/03/2017 |
| Bahrain | 14 | 0 | 0 | 0 | 14 | 0 | 4.9 | 0 | 0 | 100.0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 5.9 | 0 | 0 | 100.0 | 0 | 0 | 05/03/2017 |
| Djibouti | 3 | 0 | 0 | 0 | 3 | 0 | 1.0 | 0 | 0 | 33.3 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1.9 | 0 | 0 | 100.0 | 0 | 0 | 20/02/2017 |
| Egypt | 1092 | 0 | 0 | 7 | 1085 | 0 | 2.9 | 2 | 0 | 94.1 | 0 | 0 | 204 | 0 | 0 | 104 | 100 | 0 | 3.0 | 0 | 0 | 87.3 | 0 | 0 | 02/03/2017 |
| Iran | 776 | 0 | 0 | 0 | 775 | 1 | 4.2 | 0 | 0 | 95.5 | 0 | 0 | 101 | 0 | 0 | 10 | 91 | 0 | 3.1 | 0 | 0 | 100.0 | 0 | 0 | 05/03/2017 |
| Iraq | 605 | 0 | 0 | 10 | 594 | 1 | 4.2 | 9 | 1 | 80.7 | 0 | 0 | 102 | 0 | 0 | 38 | 64 | 0 | 3.9 | 0 | 0 | 86.3 | 0 | 0 | 04/03/2017 |
| Jordan | 107 | 0 | 0 | 23 | 84 | 0 | 3.8 | 15 | 0 | 100.0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 3.7 | 0 | 0 | 100.0 | 0 | 0 | 05/03/2017 |
| Kuwait | 50 | 0 | 0 | 0 | 50 | 0 | 5.7 | 0 | 0 | 90.0 | 0 | 0 | 7 | 0 | 0 | 1 | 6 | 0 | 4.6 | 0 | 0 | 85.7 | 0 | 0 | 05/03/2017 |
| Lebanon | 111 | 0 | 0 | 10 | 101 | 0 | 5.8 | 10 | 0 | 82.9 | 0 | 0 | 20 | 0 | 0 | 12 | 8 | 0 | 6.1 | 0 | 0 | 85.0 | 0 | 0 | 04/03/2017 |
| Libya | 70 | 0 | 0 | 2 | 68 | 0 | 3.4 | 0 | 0 | 97.1 | 0 | 0 | 14 | 0 | 0 | 10 | 4 | 0 | 3.9 | 0 | 0 | 100.0 | 0 | 0 | 25/02/2017 |
| Morocco | 85 | 0 | 0 | 27 | 58 | 0 | 0.8 | 24 | 2 | 61.2 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0.3 | 0 | 0 | 60.0 | 0 | 0 | 03/02/2017 |
| Oman | 39 | 0 | 0 | 0 | 39 | 0 | 4.5 | 0 | 0 | 87.2 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 2.0 | 0 | 0 | 100.0 | 0 | 0 | 26/02/2017 |
| Pakistan | 7827 | 20 | 4 | 122 | 7679 | 2 | 10.0 | 61 | 10 | 87.6 | 20 | 0 | 1118 | 1 | 0 | 276 | 841 | 0 | 8.2 | 0 | 0 | 92.3 | 1 | 0 | 05/03/2017 |
| Palestine | 46 | 0 | 0 | 1 | 45 | 0 | 2.4 | 0 | 0 | 97.8 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 2.4 | 0 | 0 | 100.0 | 0 | 0 | 05/03/2017 |
| Qatar | 9 | 0 | 0 | 2 | 7 | 0 | 3.0 | 0 | 0 | 100.0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 7.7 | 0 | 0 | 100.0 | 0 | 0 | 05/03/2017 |
| Saudi Arabia | 273 | 0 | 0 | 32 | 241 | 0 | 2.8 | 5 | 4 | 97.8 | 0 | 0 | 30 | 0 | 0 | 30 | 0 | 0 | 1.8 | 0 | 0 | 96.7 | 0 | 0 | 05/03/2017 |
| Somalia | 316 | 0 | 0 | 0 | 315 | 1 | 5.5 | 0 | 0 | 99.1 | 0 | 0 | 55 | 0 | 0 | 27 | 28 | 0 | 5.4 | 0 | 0 | 98.2 | 0 | 0 | 05/03/2017 |
| Sudan | 509 | 0 | 0 | 0 | 509 | 0 | 2.8 | 0 | 0 | 97.6 | 0 | 0 | 75 | 0 | 0 | 13 | 62 | 0 | 2.4 | 0 | 0 | 98.7 | 0 | 0 | 04/03/2017 |
| Syria | 303 | 0 | 0 | 0 | 303 | 0 | 3.9 | 0 | 0 | 87.8 | 0 | 0 | 38 | 0 | 0 | 15 | 23 | 0 | 2.8 | 0 | 0 | 81.6 | 0 | 0 | 04/03/2017 |
| Tunisia | 90 | 0 | 0 | 0 | 89 | 1 | 3.4 | 0 | 0 | 76.7 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0.7 | 0 | 0 | 66.7 | 0 | 0 | 03/03/2017 |
| U.A.E | 42 | 0 | 0 | 0 | 42 | 0 | 4.2 | 0 | 0 | 100.0 | 0 | 0 | 9 | 0 | 0 | 6 | 3 | 0 | 5.1 | 0 | 0 | 88.9 | 0 | 0 | 05/03/2017 |
| Yemen | 715 | 0 | 0 | 13 | 701 | 1 | 5.4 | 7 | 0 | 90.8 | 0 | 0 | 98 | 0 | 0 | 96 | 2 | 0 | 4.1 | 0 | 0 | 94.9 | 0 | 0 | 05/03/2017 |
| EMR | 15986 | 33 | 4 | 268 | 15673 | 8 | 6.4 | 139 | 17 | 89.8 | 33 | 0 | 2357 | 3 | 0 | 883 | 1471 | 0 | 5.4 | 0 | 0 | 92.6 | 3 | 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 - 05/03/2017

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

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 |
| | AFG Total | | | 3 | 23-01-16 | 01-09-16 |
| | PAK | KHYBER PAKHTOON | KOHISTAN | 1 | 03-09-16 | 03-09-16 |
| | | SINDH | BADIN | 1 | 10-10-16 | 10-10-16 |
| PAK Total | | | 2 | 03-09-16 | 10-10-16 | |



Table 5: Laboratory investigation of AFP cases with paralysis onset in 2017 up to Week (09/17) / Ending on : (05/03/2017)

| 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 | VDPV | Wild | Sabin | VDPV | Wild | Sabin | VDPV | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Afghanistan | RRL Pakistan | 318 | 29 | 1 | 40 | 203 | 43 | 2 | 2 | 26 | | | | | | | | | | | 13% | 100% | 100% | 100% | 04/03/2017 | |
| Bahrain | PNL Oman | | | | | | | | | | | | | | | | | | | | | | | | 27/02/2017 | |
| Djibouti | NPL Kenya | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | 20/02/2017 | |
| Egypt*** | RRL Egypt | 194 | 3 | | 19 | 117 | 43 | 12 | | 1 | | | | | | | | 1 | | | 11% | 100% | 100% | 100% | 05/03/2017 | |
| Iran | NPL Iran | 107 | 3 | | | 86 | 18 | | | 2 | | | | | | | | | | | 0% | 100% | 100% | 100% | 04/03/2017 | |
| Iraq | RRL Egypt | 103 | 7 | | 10 | 63 | 20 | 4 | | 3 | | | | | | | | | | | 10% | 100% | 100% | 100% | 02/03/2017 | |
| Jordan | RRL Tunisia | 19 | | | 1 | 13 | 5 | | | | | | | | | | | | | | 10% | 100% | | | 05/03/2017 | |
| Kuwait | RRL Kuwait | 7 | | | | 6 | | 1 | | | | | | | | | | | | | 0% | 83% | | 100% | 16/02/2017 | |
| Lebanon | NPL Jordan | 17 | | | | 8 | 8 | 1 | | | | | | | | | | | | | 8% | 100% | | | 05/03/2017 | |
| Libya | RRL Tunisia | 11 | | | | 9 | 2 | | | | | | | | | | | | | | 0% | 100% | | 100% | 24/02/2017 | |
| Morocco | RRL Tunisia | 10 | | | | 8 | 2 | | | | | | | | | | | | | | 0% | 100% | | 100% | 02/03/2017 | |
| Oman | NPL Oman | 3 | | | | | 2 | 1 | | | | | | | | | | | | | 0% | | | | 27/02/2017 | |
| Pakistan | RRL Pakistan | 1297 | 73 | 2 | 117 | 775 | 327 | 2 | 1 | 45 | | | 1 | | | | | 1 | | | 10% | 100% | 100% | 100% | 04/03/2017 | |
| Palestine & UNRWA | | 8 | | | 4 | 2 | 2 | | | | | | | | | | | | | | 67% | 0% | | 100% | 05/03/2017 | |
| Qatar | NPL Oman | 3 | | | | 1 | 2 | | | | | | | | | | | | | | 0% | 100% | | 100% | 27/02/2017 | |
| Saudi Arabia | NPL Oman | 48 | | | 5 | 21 | 12 | 10 | | | | | | | | | | | | | 12% | 88% | | 100% | 05/03/2017 | |
| Somalia | NPL Kenya | 55 | 3 | 2 | 2 | 22 | 10 | 16 | | 4 | | | | | | | | | | 1 | 14% | 24% | | 100% | 05/03/2017 | |
| Sudan | RRL Egypt | 77 | 2 | | 9 | 53 | 13 | | | 1 | | | | | | | | | | | 13% | 100% | 100% | 100% | 05/03/2017 | |
| Syria | RRL Egypt | 32 | | | | 24 | 4 | 4 | | | | | | | | | | | | | 0% | 100% | | | 02/03/2017 | |
| Tunisia | RRL Tunisia | 8 | | | | 4 | 3 | 1 | | | | | | | | | | | | | 3% | 100% | | 100% | 24/02/2017 | |
| U.A.E | NPL Oman | 4 | 1 | | | 3 | | | | 1 | | | | | | | | | | | 0% | 100% | 100% | 100% | 27/02/2017 | |
| Yemen | RRL Egypt | 1 | | | | 1 | | | | | | | | | | | | | | | 39% | 100% | | 100% | 05/03/2017 | |
| Total EMR 2017 | | 2323 | 121 | 5 | 207 | 1419 | 516 | 55 | 3 | 83 | | | 1 | | | | 2 | | 1 | 10% | 98% | 100% | 100% | | | |
| Total EMR 2016 | | 15747 | 823 | 94 | 2774 | 12035 | 1 | 17 | 28 | 479 | | | 85 | 6 | 564 | 1 | 3 | 23 | 3 | 4 | 15% | 94% | 98% | 95% | | |

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

** This indicator reflects surveillance and laboratory activities

Advance notification of a newly reported VDPV2 from Iran, from Tehran district, Tehran province with date of onset 26/11/2016



Table 6: Environmental isolate by year and type

| Country | Status | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------|--------------|------------|------------|------------|------------|------------|-------------|-------------|------------|
| AFG | NEGATIVE | | | | 9 | 78 | 129 | 183 | 29 |
| | PENDING | | | | | | | | 8 |
| | WILD | | | | | 17 | 20 | 2 | 1 |
| AFG Total | | | | | 9 | 95 | 149 | 185 | 38 |
| EGY | NEGATIVE | 183 | 178 | 196 | 304 | 410 | 412 | 528 | 71 |
| | PENDING | | | | | | | | 21 |
| | WILD | | | 2 | | | | | |
| | VDPV1 | | | 1 | | 1 | | | |
| | VDPV2 | | | 7 | 3 | 2 | 3 | 1 | |
| EGY Total | | 183 | 178 | 206 | 307 | 413 | 415 | 529 | 92 |
| JOR | NEGATIVE | | | | | | | 2 | 2 |
| | PENDING | | | | | | | | 4 |
| JOR Total | | | | | | | | 2 | 6 |
| LEB | NEGATIVE | | | | | | | 3 | 2 |
| | PENDING | | | | | | | | 2 |
| LEB Total | | | | | | | | 3 | 4 |
| PAK | NEGATIVE | 77 | 68 | 151 | 257 | 237 | 347 | 462 | 61 |
| | PENDING | | | | | | | | 34 |
| | WILD | 79 | 136 | 88 | 63 | 125 | 79 | 59 | 13 |
| | WILD & VDPV2 | | | | 2 | 6 | 5 | 3 | |
| | VDPV2 | | | | | 4 | 8 | 5 | |
| PAK Total | | 156 | 204 | 239 | 322 | 372 | 439 | 529 | 108 |
| EMR | NEGATIVE | 260 | 246 | 347 | 570 | 725 | 888 | 1178 | 165 |
| | PENDING | | | | | | | | 69 |
| | WILD | 79 | 136 | 90 | 63 | 142 | 99 | 61 | 14 |
| | WILD & VDPV2 | | | | 2 | 6 | 5 | 3 | |
| | VDPV1 | | | 1 | | 1 | | | |
| | VDPV2 | | | 7 | 3 | 6 | 11 | 6 | |
| EMR Total | | 339 | 382 | 445 | 638 | 880 | 1003 | 1248 | 248 |

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 | |
| AFG Total | | | | | 2 | 23-Dec | 26-Dec | |
| 2016 | EGY | VDPV2 | SOUTH SINIA | EL TUR | 1 | 15-Mar | 15-Mar | |
| EGY Total | | | | | 1 | 15-Mar | 15-Mar | |
| 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 | |
| | | | | PESHAWAR | 10 | 11-Jan | 10-Dec | |
| | | | | DERA GHAZI KHA | 1 | 12-May | 12-May | |
| | | | PUNJAB | FAISALABAD | 2 | 3-Feb | 2-Jul | |
| | | | | LAHORE | 3 | 5-Aug | 18-Oct | |
| | | | | MULTAN | 2 | 8-Nov | 8-Dec | |
| | | | SINDH | 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 | | | |
| PAK Total | | | | | 67 | 5-Jan | 28-Dec | |
| 2016 Total | | | | | 70 | 5-Jan | 28-Dec | |
| 2017 | AFG | WILD1 | NANGARHAR | JALALABAD | 1 | 24-Jan | 24-Jan | |
| | | | | | 1 | 24-Jan | 24-Jan | |
| | AFG Total | | | | | 1 | 24-Jan | 24-Jan |
| | PAK | WILD1 | BALOCHISTAN | KABDULLAH | 3 | 1-Jan | 1-Feb | |
| | | | | | PISHIN | 2 | 2-Jan | 2-Feb |
| | | | | | QUETTA | 3 | 1-Jan | 20-Jan |
| | | | KHYBER PAKHTUNKHWA | PESHAWAR | 1 | 10-Jan | 10-Jan | |
| | | | | | 1 | 9-Jan | 9-Jan | |
| | | | PUNJAB | RAWALPINDI | 1 | 10-Jan | 10-Jan | |
| | | | | | 1 | 9-Jan | 9-Jan | |
| SINDH | | | KHIGADAP | 1 | 9-Jan | 9-Jan | | |
| | 1 | 3-Feb | | 3-Feb | | | | |
| PAK Total | | | | | 13 | 1-Jan | 3-Feb | |
| 2017 Total | | | | | 14 | 1-Jan | 3-Feb | |



Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2017 - 05/03/2017

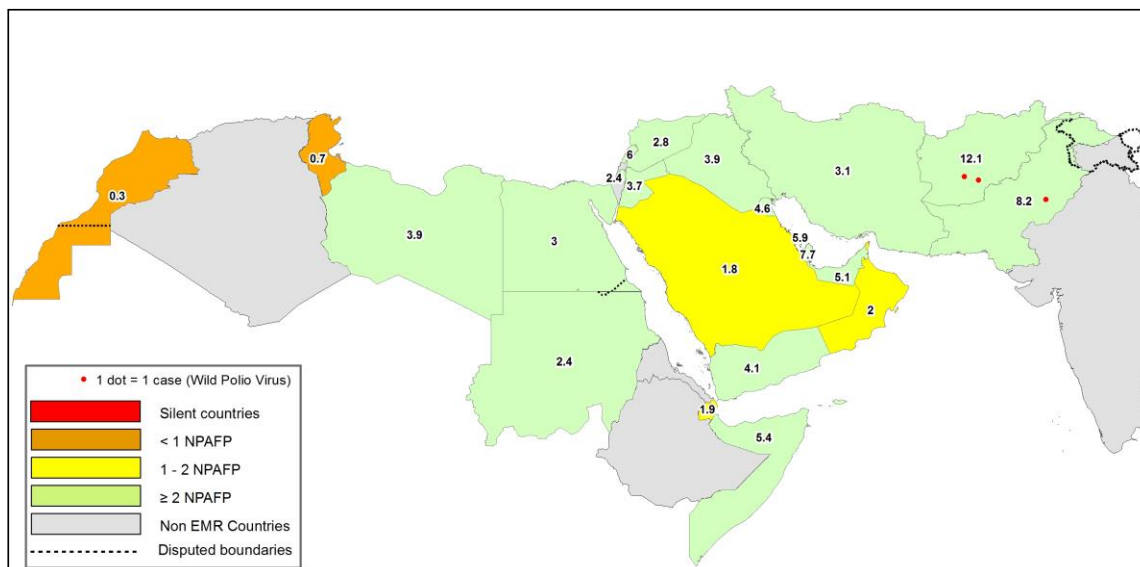


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2017 - 05/03/2017

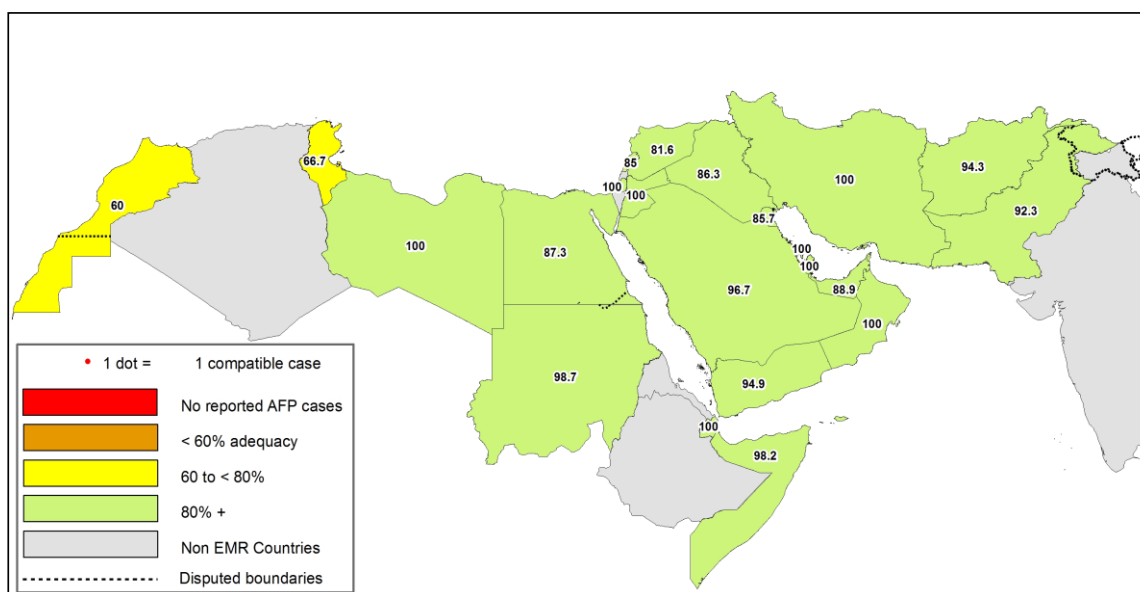


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2016 - 2017

| Year | COUNTRY | 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 | 2 | 13-01-17 | 21-01-17 |
| | PAK | 1 | 28-01-17 | 28-01-17 |
| 2017 Total | | 3 | 13-01-17 | 28-01-17 |

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 - 05/03/2017

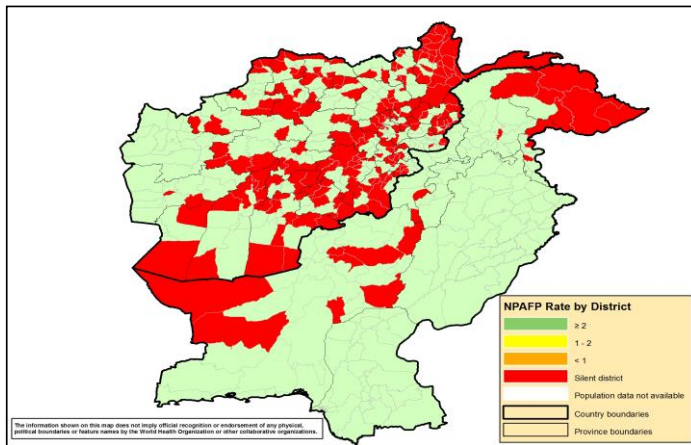


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2017 - 05/03/2017

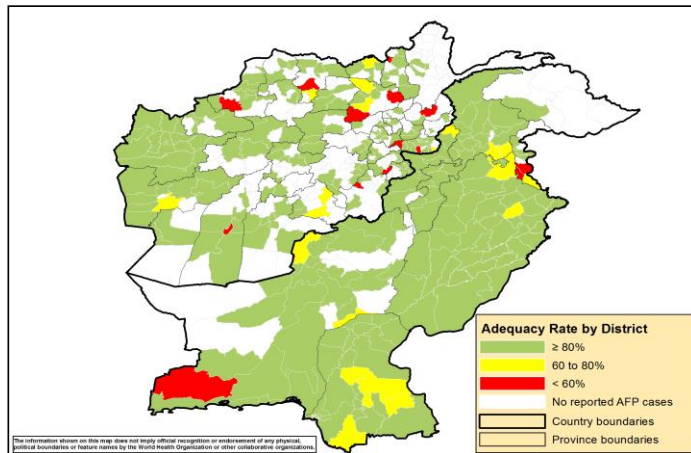
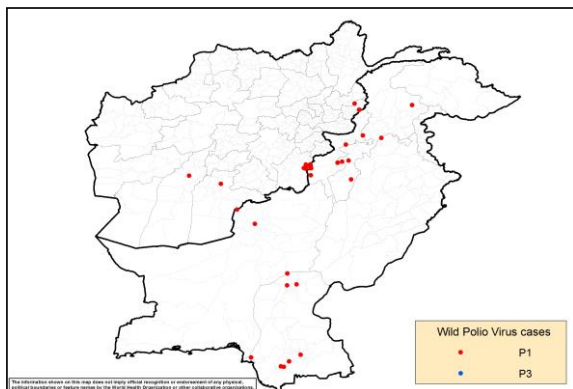


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

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



5b: 01/01/2017 - 05/03/2017

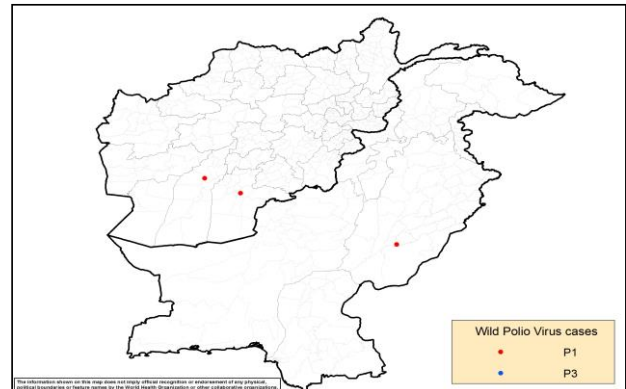




Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2016-2017

| ONSETYR | PROVINCE | DISTRICT | Count | First case | Last case |
|-------------------|----------|--------------------|-----------|-----------------|-----------------|
| 2017 | HILMAND | NAHR-E-SARAJ | 1 | 21-01-17 | 21-01-17 |
| | KANDAHAR | KANDAHAR | 1 | 13-01-17 | 13-01-17 |
| 2017 Total | | | 2 | 13-01-17 | 21-01-17 |
| 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 |

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

| ONSETYR | PROVINCE | DISTRICT | Count | First case | Last case |
|-------------------|-------------|-----------------|-----------|-----------------|-----------------|
| 2017 | PUNJAB | LODHRAN | 1 | 28-01-17 | 28-01-17 |
| 2017 Total | | | 1 | 28-01-17 | 28-01-17 |
| 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 |
| | NOWSHERA | | 1 | 22-01-16 | 22-01-16 |
| | FATA | WAZIR-S | 2 | 18-06-16 | 27-07-16 |
| 2016 Total | | | 20 | 17-01-16 | 22-12-16 |



Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2016 - 2017

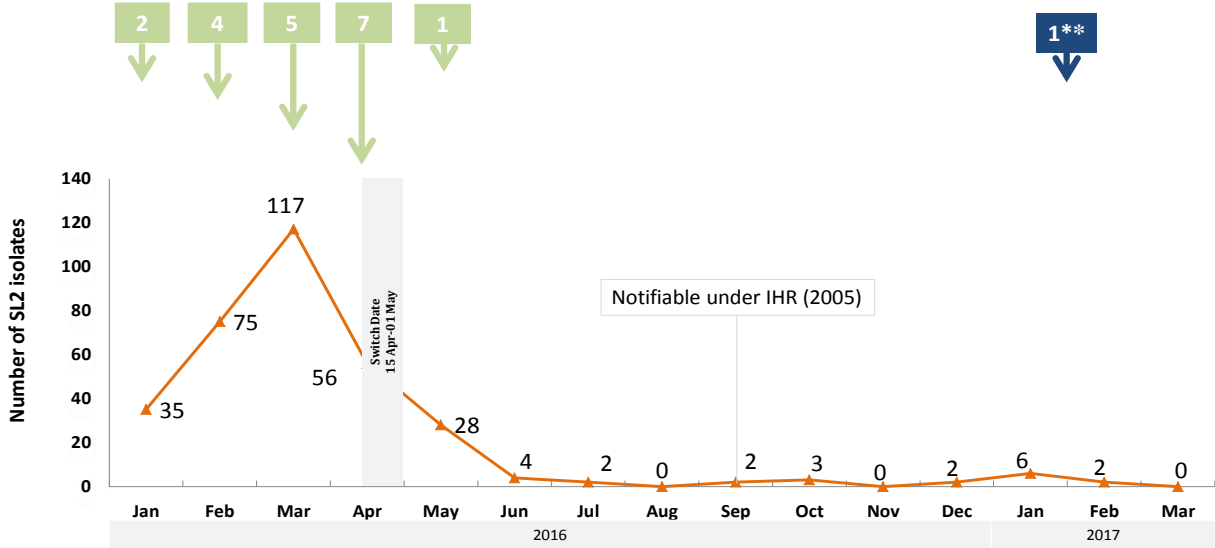
| Year | COUNTRY | PROVINCE | DISTRICT | cVDPV2 | | |
|------------|-----------|-------------|----------|--------|------------|-----------|
| | | | | Count | First Case | Last Case |
| 2016 | PAK | BALUCHISTAN | QUETTA | 1 | 17-12-16 | 17-12-16 |
| | PAK Total | | | 1 | 17-12-16 | 17-12-16 |
| 2016 Total | | | | 1 | 17-12-16 | 17-12-16 |

Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2016 - 2017

| Country | VDPV2 and SL2 by month, EMR countries, 2016-2017 | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|---|---|---|---|---|---|---|---|
| | Source | 2016 | | | | | | | | | | | | 2017 | | | | | | | | | | |
| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | | | | | | | | |
| AFG | AFP | 1 | 2 | 11 | 3 | 1 | | | 1 | | | | | | | | | | | | | | | |
| | Contact | 1 | | 6 | 2 | 1 | | | | | | | | | | | | | | | | | | |
| | ENV | 3 | 2 | 11 | | | | | | | | | | | | | | | | | | | 1 | |
| BAH | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| DJI | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| EGY | AFP | 1 | 4 | 1 | | 1 | | | | | | | | | | | | | | | | | | |
| | Contact | | 3 | | | | | | | | | | | | | | | | | | | | | |
| | ENV | 9 | 19 | 1 | 20 | 5 | 8 | | | | | | | | | | | | | | | | | |
| IRA | AFP | | | | | | | | 1 | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| IRQ | AFP | 2 | 1 | 1 | 5 | 1 | | | | | | | | | 1 | | | | | | | | | |
| | Contact | 3 | 1 | 1 | 7 | 9 | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| JOR | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| KWT | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| LEB | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| LIB | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| MOR | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| OMA | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | 1 | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| PAK | AFP | 7 | 7 | 16 | | 3 | | | | | | | | 1 | | | | | | 1 | 2 | | 1 | |
| | Contact | | 1 | 7 | 5 | 1 | | | | | | | | | | | | | | | | | | 1 |
| | ENV | 7 | 32 | 27 | 27 | 9 | 1 | 3 | 1 | 1 | | | | 1 | 1 | 1 | 2 | 1 | | 3 | | 4 | 1 | |
| PAL | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| QAT | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| SAA | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| SUD | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| SOM | AFP | | | 1 | 6 | 1 | | | | 1 | | 1 | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| SYR | AFP | | | | | | | | 1 | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| TUN | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| UAE | AFP | | | | | | | | | | | | | | | | | | | | | | | |
| | Contact | | | | | | | | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| YEM | AFP | 1 | | | | 1 | 1 | 1* | | | | | | | | | | | | | | | | |
| | Contact | | 1 | | | 2 | 1 | 1* | | | | | | | | | | | | | | | | |
| | ENV | | | | | | | | | | | | | | | | | | | | | | | |
| EMR | AFP | 12 | 1 | 15 | 39 | 6 | 8 | 1 | 1 | | | | 2 | 1 | 1 | 1 | | | 1 | 2 | | 1 | | |
| | Contact | 4 | | 7 | 20 | 18 | 3 | 1 | | | | | | | | | | | | | | | 1 | |
| | ENV | 19 | 53 | 1 | 58 | 32 | 17 | 2 | 3 | 1 | | | 1 | 1 | 1 | 2 | 1 | | 3 | | 5 | 1 | | |
| VDPV2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Two VDPV2 have been isolated from immune-compromised children from EGY not included in this table | | | | | | | | | | | | | | | | | | | | | | | | |
| One SL2 has been isolated from an immune-compromised child from EGY in May 2016 but not included in this table | | | | | | | | | | | | | | | | | | | | | | | | |
| * VDPV2 isolated from index and contact at the same time | | | | | | | | | | | | | | | | | | | | | | | | |



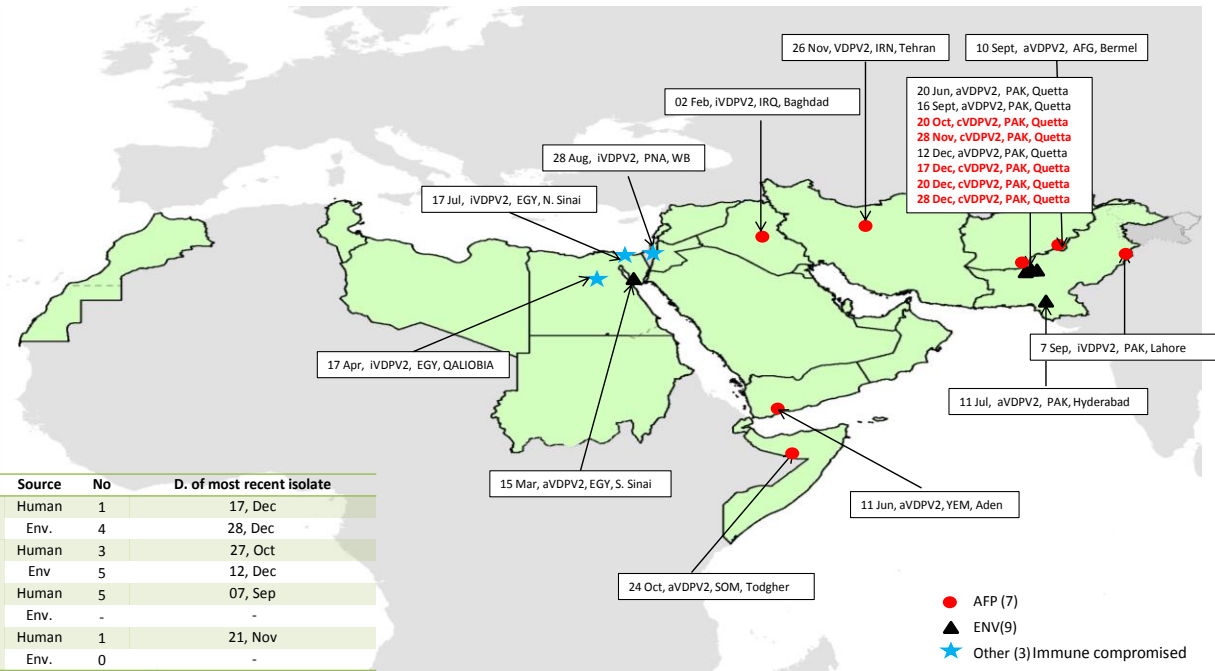
SL2 isolates, EMR countries from Human & ENV 2016/17



* Focused tOPV campaign in El Tur district (S. Sinai/Egy) as a response to VDPV2 isolation
 ** mOPV2 in Quetta block 2-8 Jan. 2017

tOPV SIAs
 mOPV2 05 Mar 2017

VDPV2 isolates, EMR countries, 2016 (No isolation in 2017)



* Under investigation

05 Mar 2017