

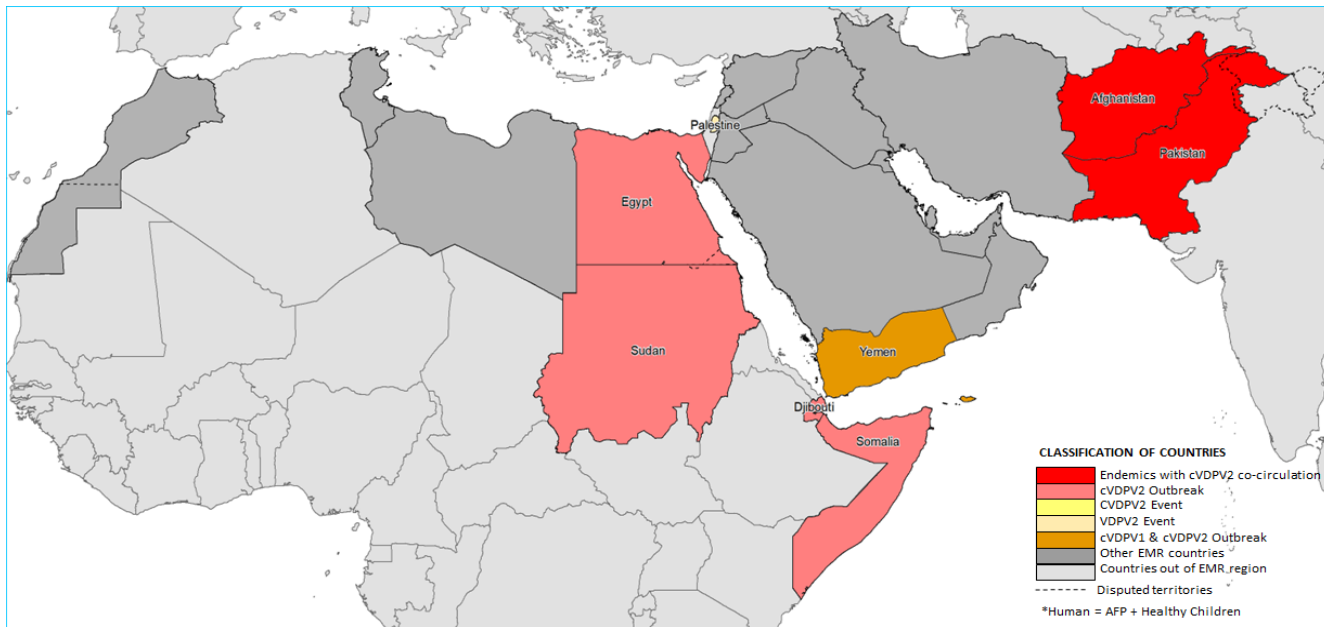


Highlights

| | | |
|--|---|---|
|  Children Paralyzed by polio | 2023 <ul style="list-style-type: none"> 12 cases of Wild Polio 1 <ul style="list-style-type: none"> - 06 in Afghanistan - 06 in Pakistan | 2024 <ul style="list-style-type: none"> 4 cases of Wild Polio 1 <ul style="list-style-type: none"> - 02 in Afghanistan - 02 in Pakistan |
| | <ul style="list-style-type: none"> 16 cases of cVDPV2 <ul style="list-style-type: none"> - 08 in Somalia - 08 in Yemen | <ul style="list-style-type: none"> 7 cases of cVDPV2 <ul style="list-style-type: none"> - 02 in Somalia - 05 in Yemen |
|  Sewage water sampling | 2023 188 samples Wild Polio 1 <ul style="list-style-type: none"> - 62 in Afghanistan - 126 in Pakistan | 2024 139 samples Wild Polio 1 <ul style="list-style-type: none"> - 27 in Afghanistan - 112 in Pakistan |
| | <ul style="list-style-type: none"> 41 samples cVDPV2 <ul style="list-style-type: none"> - 11 in Egypt - 16 in Yemen - 09 in Somalia - 05 in Sudan | <ul style="list-style-type: none"> 4 sample cVDPV2 <ul style="list-style-type: none"> - 1 in Sudan - 1 in Egypt - 2 in Yemen |

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

Wild Poliovirus

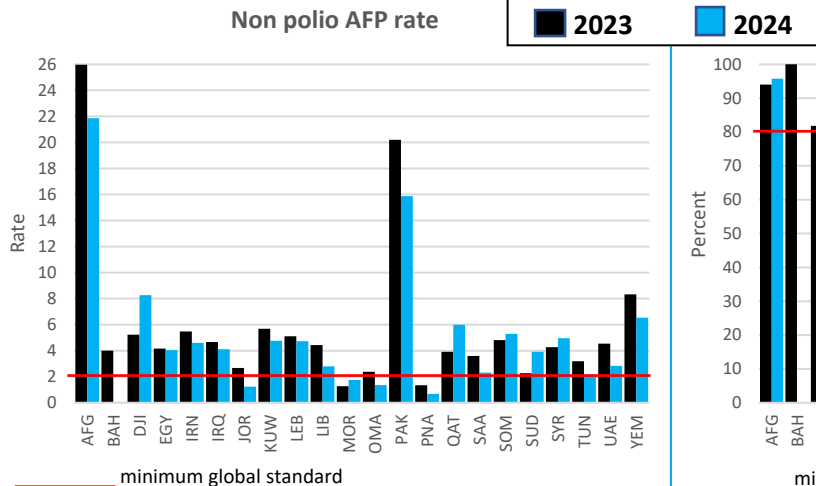
- No new WPV1 cases reported this week. The WPV1 case count in 2024 to date is 4 (2 each from Afghanistan and Pakistan), and for 2023, the count remains to be 12 (6 each from Afghanistan and Pakistan).
- Fifteen new WPV1 positive environmental samples (ES) in 2024 reported this week from Pakistan. The new positive samples were reported as follows: Ten from Sindh province (4 from Karachi Towns, 2 from Hyderabad, and 1 each from Sukkur, Jamshoro, Jacobabad, and Mirpurkhas districts) and five from Balochistan province (2 from Chaman, and 1 each from Pishin, Quetta, and Nsirabad districts). Collection dates vary between 1st to 17th April 2024. ES count to date is 139 (27 from Afghanistan and 112 from Pakistan). In 2023, the count remains to be 188 (62 in Afghanistan and 126 in Pakistan).
- Advance notification:** A new WPV1 case was notified from Arghistan district of Kandahar province in Afghanistan with a date of onset of paralysis on 5th April 2024. Details will be included in the next bulletin.

Vaccine derived poliovirus (VDPV)

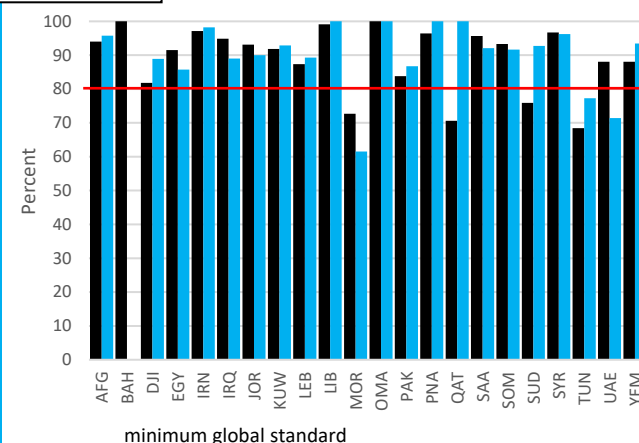
- No new cVDPV2 isolates reported this week. The total count of cVDPV2 cases to date in 2024 is 7 (5 from Yemen and 2 from Somalia) and in 2023 the count remains to be 16 (8 each from Somalia and Yemen). The count of the cVDPV2 positive ES in 2024 to date is 4 (2 from Yemen and 1 each from Egypt and Sudan), and in 2023 the count remains to be 41 (16 from Yemen, 11 from Egypt, 9 from Somalia, and 5 from Sudan).
- Advance notification:** Two new cVDPV2 cases were notified, one from Alashah district of Amran province with a date of onset on 28th February 2024, and the other from Almarawah district of Al-Hudaidah province with a date of onset of 15 January 2024 (the 2nd case was classified based on the positive 2 cVDPV2 contacts). Details will be included in the next bulletins

Wild Poliovirus type-1 (WPV1) Vaccine-derived Poliovirus (VDPV)

Non polio AFP rate



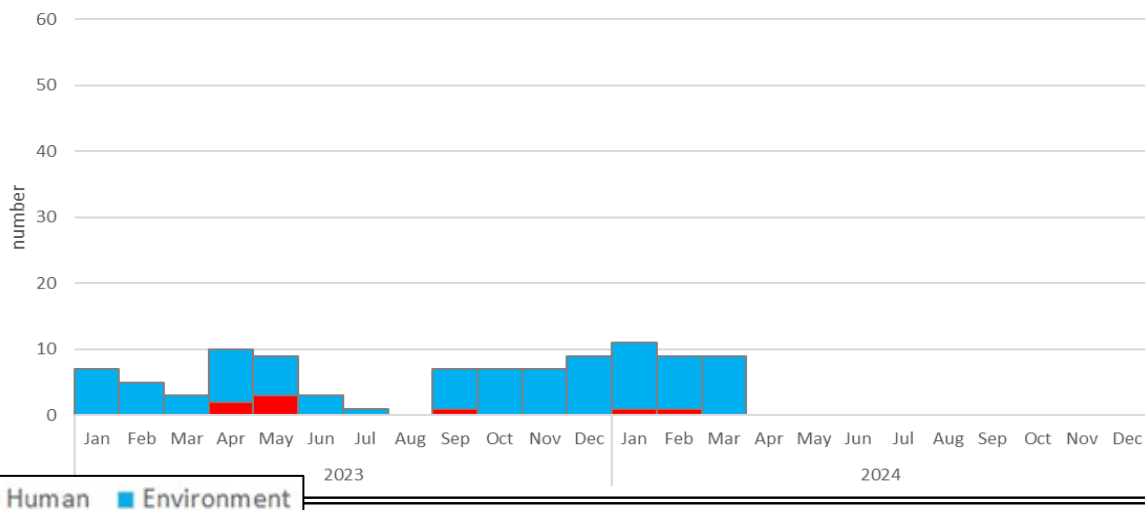
Stool adequacy



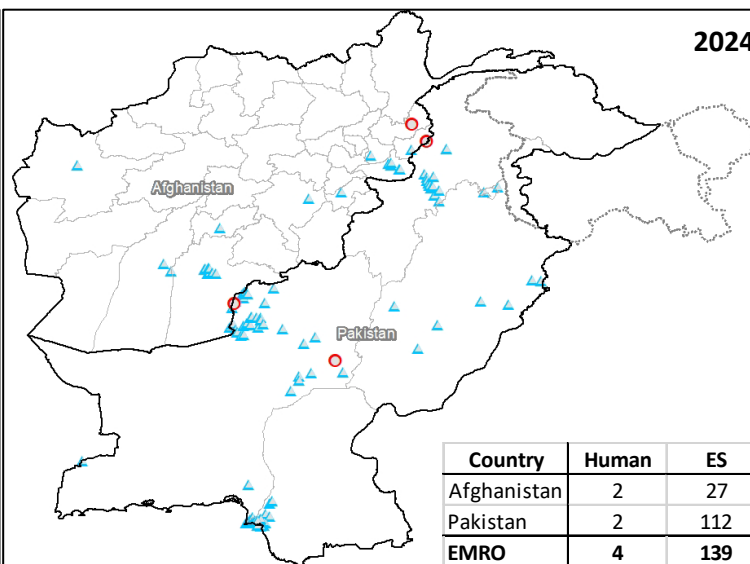
WPV1 Positive isolates from Afghanistan and Pakistan by source

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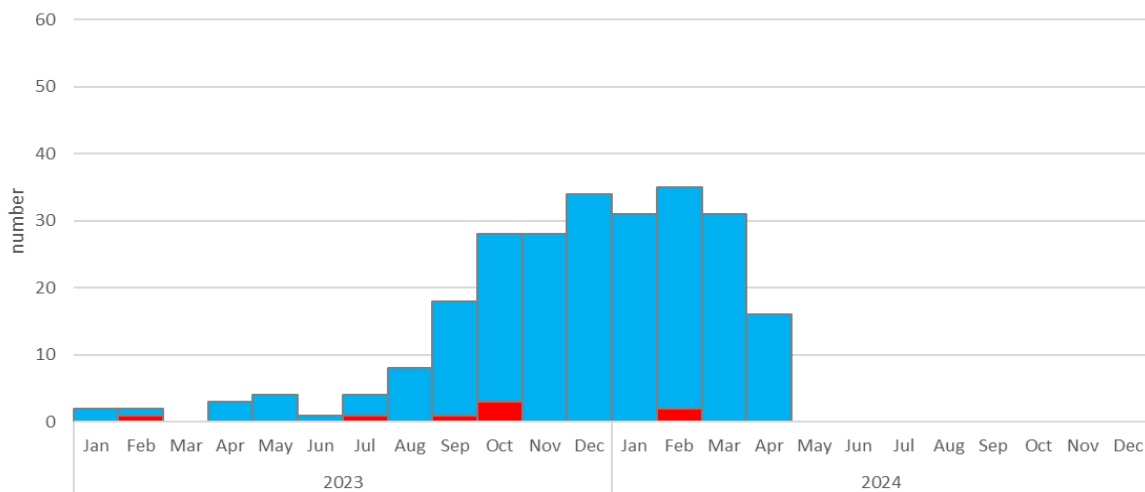
Afghanistan



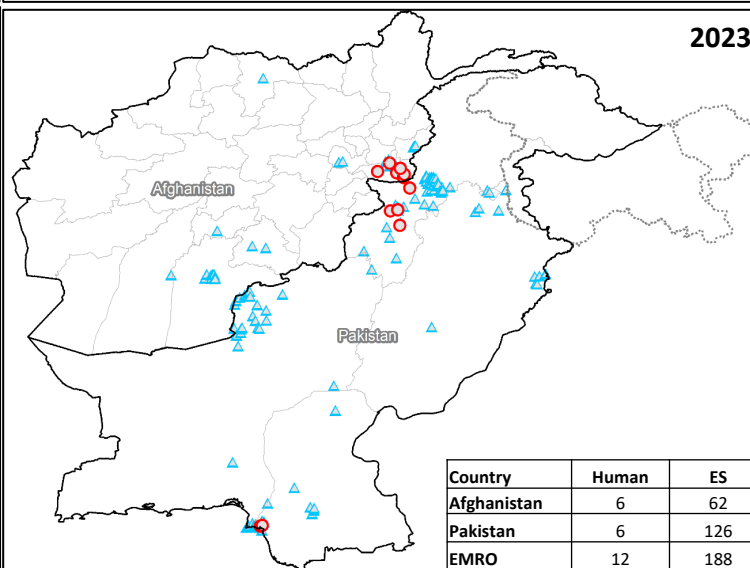
2024



Pakistan



2023



Virus isolation by country, last 12 months (05 May 2023, to 05 May 2024)

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| Source / Virus type | AFG | PAK | EGY | SOM | SUD | YEM | Total |
|-------------------------|-----------|------------|-----------|-----------|----------|-----------|------------|
| Human (AFP only) | 6 | 7 | 1 | 8 | | 15 | 37 |
| Wild | 6 | 7 | | | | | 13 |
| cVDPV2 | | | | 8 | | 14 | 22 |
| aVDPV2 | | | | | | 1 | 1 |
| VDPV2 | | | 1 | | | | 1 |
| VDPV3 | | | | | | | |
| Environment | 66 | 232 | 12 | 9 | 7 | 16 | 342 |
| Wild | 66 | 231 | | | | | 297 |
| cVDPV2 | | | 12 | 9 | 6 | 15 | 42 |
| aVDPV2 | | | | | | | |
| VDPV2 | | | | | 1 | 1 | 2 |
| WILD+VDPV1 | | 1 | | | | | 1 |
| Total | 72 | 239 | 13 | 17 | 7 | 31 | 379 |

Note: Viruses isolated from 'other' sources (example healthy children) are not included in this analysis; they are shown in page No. (8)

Confirmed Wild Polio 1 Cases by month of onset

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| Country | Total year 2022 | Total year 2023 | 28 April | | Confirmed Wild Polio 1 Cases by month of onset | | | | | | | | | | | | Recent most Case |
|----------------|-----------------|-----------------|----------|----------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------------|
| | | | 2023 | 2024 | 2023 | | | | | | 2024 | | | | | | |
| | | | | | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | |
| Afghanistan | 2 | 6 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | | 20-Feb-24 |
| 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 | | | | |
| 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 | | | | |
| Iraq | 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 | | | |
| 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 | | | | |
| 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 | | | |
| Oman | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Pakistan | 20 | 6 | 1 | 2 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 2 | | | | 29-Feb-24 |
| 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 | 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 | | | | | |
| Sudan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Syria **** | 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 | | | | | |
| Yemen | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| EMR | 22 | 12 | 3 | 4 | 0 | 1 | 0 | 2 | 3 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 29-Feb-24 |

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

Investigation of AFP cases with paralysis onset in 2023 & 2024

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| COUNTRY | 2024 | | | | | | | | | 2023 | | | | | | | | | Line List |
|----------------|-------------|------------------------------------|------------------|---------------------------|-----------|---|---|-------------------------------|-------------------------------|--------------|------------------------------------|------------------|---------------------------|-----------|---|---|----------------------------------|-------------------------------|----------------|
| | AFP cases | Case classification | | | | | | Surveillance indicators | | AFP cases | Case classification | | | | | | Surveillance indicators | | Date of latest |
| | | Total Confirmed WPV1 Polio Cases * | Polio Compatible | Discarded (non Polio AFP) | VDPV **** | Pending classification > 90 days from onset | Pending LAB classification > 90 days from onset | Annualized Non polio AFP rate | % with adequate specimens *** | | Total Confirmed WPV1 Polio Cases * | Polio Compatible | Discarded (non polio AFP) | VDPV **** | Pending classification > 90 days from onset | Pending LAB classification > 90 days from onset | Annualized Non polio AFP rate ** | % with adequate specimens *** | |
| AFGHANISTAN | 1587 | 2 | 0 | 1250 | 0 | 5 | 0 | 21.60 | 95.97 | 5855 | 6 | 0 | 5849 | 0 | 0 | 0 | 25.97 | 94.01 | 5-May-24 |
| BAHRAIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 4.01 | 100.00 | 5-May-24 |
| DJIBOUTI | 9 | 0 | 0 | 3 | 0 | 0 | 0 | 8.75 | 88.89 | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 5.23 | 81.82 | 3-May-24 |
| EGYPT | 546 | 0 | 0 | 388 | 0 | 3 | 0 | 3.97 | 89.19 | 1714 | 0 | 0 | 1713 | 1 | 1 | 0 | 4.16 | 91.48 | 2-May-24 |
| IRAN | 294 | 0 | 0 | 268 | 0 | 0 | 0 | 4.28 | 96.26 | 1150 | 0 | 0 | 1150 | 0 | 0 | 0 | 5.48 | 97.13 | 4-May-24 |
| IRAQ | 232 | 0 | 0 | 178 | 0 | 8 | 0 | 3.98 | 90.95 | 820 | 0 | 0 | 820 | 0 | 0 | 0 | 4.66 | 94.88 | 2-May-24 |
| JORDAN | 19 | 0 | 0 | 14 | 0 | 0 | 0 | 1.25 | 89.47 | 116 | 0 | 0 | 116 | 0 | 0 | 0 | 2.68 | 93.10 | 1-May-24 |
| KUWAIT | 14 | 0 | 0 | 13 | 0 | 0 | 0 | 5.05 | 92.86 | 49 | 0 | 0 | 49 | 0 | 0 | 0 | 5.69 | 91.84 | 5-May-24 |
| LEBANON | 28 | 0 | 0 | 17 | 0 | 0 | 0 | 5.01 | 85.71 | 79 | 0 | 0 | 79 | 0 | 0 | 0 | 5.11 | 87.34 | 5-May-24 |
| LIBYA | 23 | 0 | 0 | 13 | 0 | 0 | 0 | 2.72 | 100.00 | 115 | 0 | 0 | 115 | 0 | 0 | 0 | 4.43 | 99.13 | 4-May-24 |
| MOROCCO | 54 | 0 | 0 | 0 | 0 | 15 | 1 | 1.54 | 61.11 | 150 | 0 | 0 | 150 | 0 | 0 | 0 | 1.28 | 72.67 | 6-May-24 |
| OMAN | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0.72 | 100.00 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 2.38 | 100.00 | 2-May-24 |
| PAKISTAN | 5037 | 2 | 0 | 3813 | 0 | 110 | 0 | 15.80 | 86.86 | 19760 | 6 | 0 | 19739 | 0 | 15 | 0 | 20.21 | 83.82 | 5-May-24 |
| PALESTINE | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0.72 | 100.00 | 28 | 0 | 0 | 27 | 0 | 1 | 0 | 1.35 | 96.43 | 29-Apr-24 |
| QATAR | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 6.34 | 88.89 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 3.91 | 70.59 | 5-May-24 |
| SAUDI ARABIA | 63 | 0 | 0 | 21 | 0 | 0 | 0 | 2.45 | 92.06 | 301 | 0 | 0 | 301 | 0 | 0 | 0 | 3.60 | 95.68 | 28-Apr-24 |
| SOMALIA | 157 | 0 | 0 | 135 | 2 | 0 | 0 | 5.24 | 91.72 | 433 | 0 | 0 | 425 | 8 | 0 | 0 | 4.81 | 93.30 | 5-May-24 |
| SUDAN | 114 | 0 | 0 | 11 | 0 | 24 | 2 | 3.81 | 92.11 | 473 | 0 | 0 | 452 | 0 | 21 | 1 | 2.28 | 75.90 | 5-May-24 |
| SYRIA | 126 | 0 | 0 | 110 | 0 | 0 | 0 | 4.97 | 96.03 | 332 | 0 | 0 | 332 | 0 | 0 | 0 | 4.27 | 96.69 | 4-May-24 |
| TUNISIA | 20 | 0 | 0 | 9 | 0 | 0 | 0 | 2.09 | 80.00 | 95 | 0 | 0 | 95 | 0 | 0 | 0 | 3.20 | 68.42 | 5-May-24 |
| U.A.E. | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1.93 | 88.89 | 67 | 0 | 0 | 67 | 0 | 0 | 0 | 4.54 | 88.06 | 6-May-24 |
| YEMEN | 366 | 0 | 0 | 121 | 5 | 6 | 2 | 6.93 | 93.44 | 1331 | 0 | 0 | 1319 | 9 | 3 | 1 | 8.33 | 88.05 | 27-Apr-24 |
| EMR POL | 8715 | 4 | 0 | 6368 | 7 | 172 | 5 | 9.51 | 89.58 | 32949 | 12 | 0 | 32879 | 18 | 41 | 2 | 11.30 | 87.23 | |

* 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, with 14 days of paralysis onset and specimens received in the lab in 'Good Condition'

**** Includes all VDPV cases. Further details available in page (8)

Laboratory investigation of AFP cases with paralysis onset in 2024

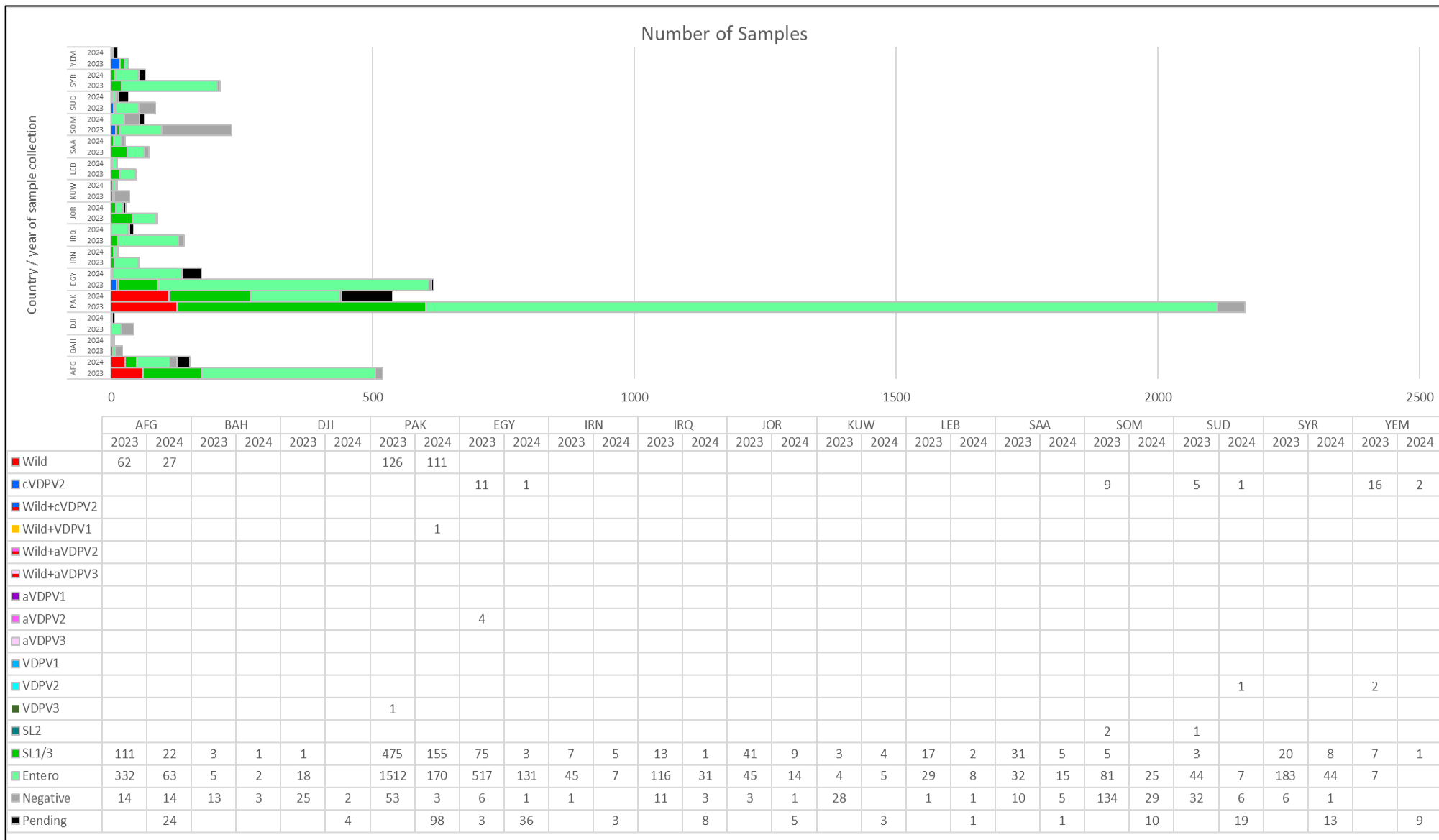
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| Country | Polio laboratories | | Preliminary virus isolation results of AFP cases | | | | | | Poliovirus intratypic differentiation results | | | | | | | | | | | Indicators | | | | Latest report Date | | | |
|-----------------------|---|--|--|--------------|-----------|-------------|------------------------------|--------------------------------|---|------------|------------|--------|-------|----------|-----------|------------|-----------------------------|-------------|----------|-------------|--------------------------------|---|--|--------------------|--|------|-----------|
| | ITD / Nucleotide Sequencing | | 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** | | |
| | Sequencing performed by CDC and RIVM laboratories | | L20B+ | L20B+ / NPEV | | | received within last 14 days | received more than 14 days ago | Wild | Sabin | VDPV | Wild | Sabin | VDPV | Wild | Sabin | | | | | | | | | | VDPV | |
| Afghanistan | RRL Pakistan | | 1688 | 73 | 10 | 151 | 1223 | 160 | 42 | 2 | 42 | | | | | 62 | | | | | | | 8% | 82% | 100% | 70% | 5-May-24 |
| Bahrain | NPL Oman / CDC | | | | | | | | | | | | | | | | | | | | | | | | | | 6-May-24 |
| Djibouti | NPL Kenya / CDC | | 9 | | | | 3 | 1 | 5 | | | | | | | | | | | | | | 0% | 33% | | 100% | 3-May-24 |
| Egypt | RRL Egypt | | 549 | 5 | | 23 | 482 | 32 | 7 | | 1 | | | | | 3 | | | | | | | 4% | 92% | 100% | 100% | 2-May-24 |
| Iran | NPL Iran / CDC | | 349 | 2 | | 3 | 314 | 30 | | | 1 | | | | | 2 | | | | | | | 1% | 100% | 100% | 99% | 4-May-24 |
| Iraq | NPL Iraq, RRL Egypt | | 261 | 10 | | 31 | 185 | 27 | 8 | | 3 | | | | | 8 | | | | | | | 13% | 100% | 100% | 99% | 3-May-24 |
| Jordan | NPL Jordan, RRL Egypt | | 20 | | | 5 | 13 | 1 | 1 | | | | | | | | | | | | | | 28% | 83% | | 94% | 1-May-24 |
| Kuwait | RRL Kuwait / RIVM | | 14 | 1 | | 1 | 12 | | | | | | | | | | | | | 1 | | | 4% | 86% | | 100% | 7-May-24 |
| Lebanon | NPL Syria, RRL Egypt | | 19 | | | | 18 | | 1 | | | | | | | | | | | | | | 0% | 100% | | | 25-Apr-24 |
| Libya | RRL Tunisia / RIVM | | 13 | | | | 13 | | | | | | | | | | | | | | | | 0% | 100% | | 38% | 28-Apr-24 |
| Morocco | NPL Morocco, RRL Tunisia | | 52 | | | | 45 | 6 | 1 | | | | | | | | | | | | | | 0% | 100% | | 98% | 3-May-24 |
| Oman | NPL Oman / CDC | | 7 | | | | 4 | 2 | 1 | | | | | | | | | | | | | | 6% | 100% | | 100% | 6-May-24 |
| Pakistan | RRL Pakistan | | 5265 | 279 | 9 | 471 | 3913 | 412 | 147 | 2 | 165 | | | | | 195 | | | | | | | 7% | 87% | 100% | 97% | 5-May-24 |
| Palestine & UNRWA | | | 5 | | | | 5 | | | | | | | | | | | | | | | | 0% | 20% | | 100% | 29-Apr-24 |
| Qatar | NPL Oman / CDC | | 9 | 1 | | | 8 | | | | | | | | 1 | | | | | | | | 0% | 100% | 1 | 100% | 6-May-24 |
| Saudi Arabia | NPL Saudi Arabia / CDC | | 62 | 3 | | 5 | 47 | 6 | 1 | | 1 | | | | 1 | | | | | 1 | | | 8% | 87% | 67% | 100% | 6-May-24 |
| Somalia | NPL Kenya / CDC | | 168 | 5 | | 15 | 129 | 4 | 15 | | 2 | | | | 3 | 1 | | | | | | | 10% | 3% | | 90% | 5-May-24 |
| Sudan | NPL Sudan / RRL Egypt | | 53 | | | 5 | 48 | | | | | | | | | | | | | | | | 8% | 100% | | 36% | 14-Apr-23 |
| Syria | NPL Syria / RRL Egypt | | 125 | 1 | | 3 | 106 | 9 | 6 | | | | | | | | | | | | | | 3% | 100% | | | 25-Apr-24 |
| Tunisia | RRL Tunisia | | 25 | | | | 17 | 6 | 2 | | | | | | | | | | | | | | 0% | 100% | | 100% | 28-Apr-24 |
| U.A.E | NPL Oman / CDC | | 6 | | | | | 6 | | | | | | | | | | | | | | | 0% | | | | 6-May-24 |
| Yemen | NPLs Oman, Jordan & Kenya, RRL Egypt | | 240 | 10 | | 37 | 147 | | 47 | | 2 | | | | 6 | | 2 | | 1 | | | | 19% | 36% | 100% | 15% | 27-Apr-24 |
| Total EMR 2024 | | | 8939 | 390 | 19 | 750 | 6732 | 702 | 284 | 4 | 217 | | | | 9 | 275 | | 2 | | 1 | 1 | 7% | 85% | 100% | 89% | | |
| Total EMR 2023 | | | 32172 | 1012 | 81 | 4527 | 26508 | | 37 | 12* | 656 | | | 8 | 22 | 766 | | | 4 | 3 | 1 | 12% | 90% | 100% | 93% | | |

* Two WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

Environmental Surveillance Isolation by Classification

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Important links

EMR Polio Bulletin - Issue No. 1335, Week 18 (ending on 05/05/2024)

Important Links

- [Global Polio Eradication Initiative](#)
- [IMST – Outbreak Response Dashboard](#)
- [nOPV2 Tracker](#)
- [Pol-MIS](#) (restricted to registered users)
- [Containment](#) (restricted to registered users)
- [Certification \(e-ACR\)](#) (restricted to registered users)