

AFP Surveillance Bulletin - India

Report for week 18, ending 4 May 2019

Table 1: AFP cases by month of paralysis onset, last 13 months

| State/UT's | Total AFP cases in 2018 | AFP cases as on week 18, 2018 | AFP cases as on week 18, 2019 | May-18 | Jun-18 | Jul-18 | Aug-18 | Sep-18 | Oct-18 | Nov-18 | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 | May-19 |
|------------------|-------------------------|-------------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| A&N ISLANDS | 8 | 4 | 1 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| ANDHRA PRADESH | 419 | 123 | 115 | 42 | 24 | 35 | 40 | 32 | 37 | 32 | 43 | 39 | 24 | 33 | 19 | 0 |
| ARUNACHAL PR. | 10 | 1 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 2 | 4 | 0 | 3 | 0 | 0 |
| ASSAM | 271 | 69 | 78 | 24 | 28 | 29 | 15 | 22 | 17 | 15 | 36 | 23 | 20 | 18 | 17 | 0 |
| BIHAR | 7066 | 1966 | 1872 | 540 | 581 | 618 | 607 | 690 | 735 | 610 | 503 | 446 | 436 | 598 | 392 | 0 |
| CHANDIGARH | 55 | 15 | 18 | 3 | 1 | 4 | 5 | 8 | 7 | 3 | 5 | 8 | 3 | 5 | 2 | 0 |
| CHHATTISGARH | 247 | 62 | 95 | 15 | 20 | 17 | 22 | 27 | 22 | 15 | 24 | 27 | 24 | 24 | 20 | 0 |
| D&N HAVELI | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| DAMAN & DIU | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| DELHI | 689 | 198 | 237 | 70 | 48 | 51 | 52 | 64 | 55 | 63 | 66 | 85 | 52 | 60 | 40 | 0 |
| GOA | 25 | 2 | 16 | 1 | 4 | 2 | 1 | 3 | 3 | 1 | 5 | 4 | 4 | 6 | 2 | 0 |
| GUJARAT | 938 | 323 | 277 | 67 | 82 | 92 | 83 | 77 | 56 | 50 | 70 | 80 | 84 | 73 | 40 | 0 |
| HARYANA | 822 | 198 | 236 | 51 | 54 | 59 | 67 | 95 | 111 | 77 | 68 | 75 | 63 | 68 | 30 | 0 |
| HIMACHAL PRADESH | 74 | 32 | 21 | 3 | 3 | 3 | 8 | 4 | 2 | 10 | 6 | 7 | 3 | 8 | 3 | 0 |
| JAMMU & KASHMIR | 209 | 62 | 62 | 19 | 18 | 14 | 22 | 20 | 8 | 15 | 17 | 16 | 15 | 19 | 12 | 0 |
| JHARKHAND | 872 | 234 | 314 | 64 | 63 | 72 | 88 | 77 | 98 | 71 | 64 | 100 | 72 | 91 | 51 | 0 |
| KARNATAKA | 850 | 163 | 229 | 81 | 62 | 96 | 87 | 82 | 97 | 62 | 83 | 78 | 61 | 61 | 29 | 0 |
| KERALA | 301 | 85 | 114 | 26 | 23 | 33 | 36 | 19 | 20 | 21 | 23 | 33 | 34 | 26 | 21 | 0 |
| LAKSHADWEEP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MADHYA PRADESH | 1867 | 506 | 482 | 161 | 160 | 175 | 181 | 168 | 186 | 152 | 127 | 116 | 138 | 132 | 96 | 0 |
| MAHARASHTRA | 1919 | 521 | 445 | 157 | 145 | 190 | 231 | 185 | 145 | 112 | 113 | 123 | 129 | 140 | 53 | 0 |
| MANIPUR | 31 | 3 | 13 | 3 | 6 | 3 | 3 | 4 | 5 | 1 | 3 | 5 | 2 | 3 | 3 | 0 |
| MEGHALAYA | 20 | 7 | 10 | 2 | 2 | 2 | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 5 | 5 | 0 |
| MIZORAM | 32 | 4 | 7 | 0 | 3 | 3 | 5 | 4 | 4 | 6 | 2 | 0 | 2 | 4 | 1 | 0 |
| NAGALAND | 13 | 3 | 5 | 1 | 3 | 2 | 0 | 1 | 1 | 1 | 0 | 3 | 1 | 0 | 1 | 0 |
| ODISHA | 957 | 210 | 254 | 57 | 65 | 101 | 107 | 98 | 113 | 63 | 86 | 78 | 61 | 73 | 42 | 0 |
| PONDICHERRY | 25 | 4 | 3 | 2 | 0 | 6 | 3 | 1 | 0 | 5 | 3 | 0 | 1 | 2 | 0 | 0 |
| PUNJAB | 520 | 154 | 235 | 29 | 24 | 39 | 40 | 46 | 56 | 46 | 60 | 97 | 64 | 52 | 22 | 0 |
| RAJASTHAN | 1607 | 442 | 467 | 167 | 137 | 128 | 137 | 145 | 137 | 121 | 133 | 136 | 135 | 130 | 66 | 0 |
| SIKKIM | 5 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 0 | 1 | 0 |
| TAMIL NADU | 817 | 235 | 237 | 73 | 53 | 91 | 67 | 47 | 55 | 81 | 70 | 64 | 81 | 79 | 13 | 0 |
| TELANGANA | 368 | 88 | 140 | 24 | 30 | 29 | 28 | 28 | 34 | 51 | 48 | 52 | 34 | 32 | 22 | 0 |
| TRIPURA | 25 | 9 | 7 | 4 | 3 | 1 | 3 | 4 | 1 | 0 | 0 | 1 | 2 | 4 | 0 | 0 |
| UTTAR PRADESH | 12952 | 2985 | 3629 | 949 | 1116 | 1081 | 1186 | 1718 | 1460 | 1164 | 988 | 959 | 993 | 1058 | 619 | 0 |
| UTTARAKHAND | 256 | 61 | 115 | 18 | 20 | 23 | 14 | 28 | 27 | 33 | 25 | 22 | 45 | 36 | 12 | 0 |
| WEST BENGAL | 2173 | 575 | 542 | 156 | 167 | 215 | 264 | 247 | 174 | 149 | 126 | 126 | 155 | 183 | 78 | 0 |
| TOTAL | 36450 | 9348 | 10290 | 2813 | 2945 | 3214 | 3406 | 3945 | 3669 | 3039 | 2802 | 2810 | 2741 | 3026 | 1713 | 0 |

*0" means that report was received but no cases were identified

Data from weekly case based reports

Figure 1: Polio cases and SIAs

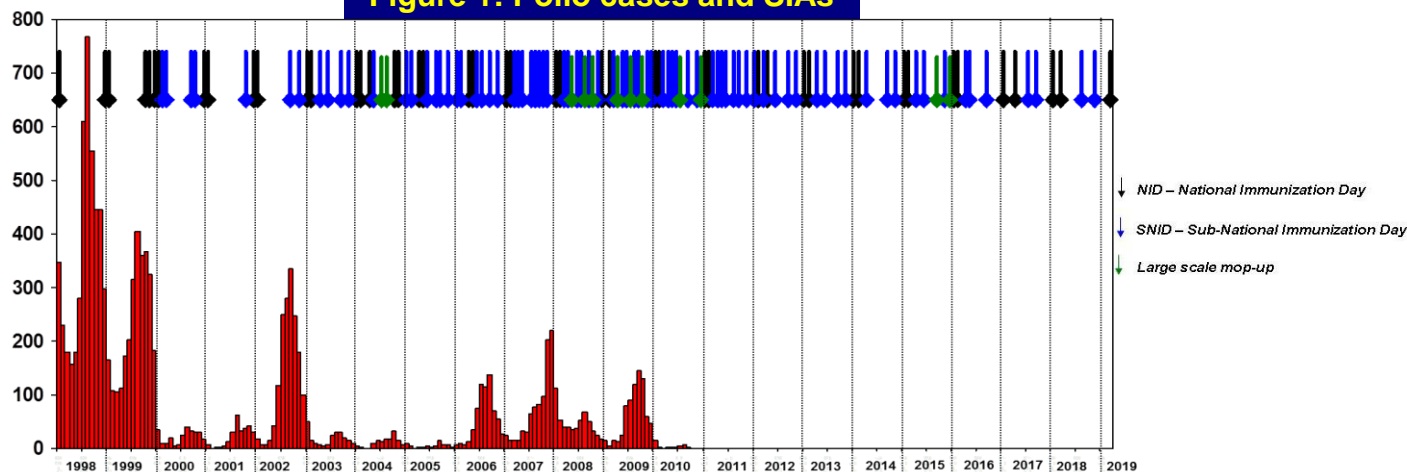


Table 2: AFP cases key surveillance indicators,2017 - 2019

| State/UT's | 2017 | | | | | | 2018 | | | | | | 2019 | | | | | |
|------------------|--------------|----------|------------|------------------------------|----------|-----------|--------------|----------|------------|------------------------------|------------|------------|--------------|----------|------------|------------------------------|-------------|------------|
| | # | VDPV | Compatible | Discarded (non-polio AFP) | Pending | | # | VDPV | Compatible | Discarded (non-polio AFP) | Pending | | # | VDPV | Compatible | Discarded (non-polio AFP) | Pending | |
| | | | | | Total | > 90 Days | | | | | Total | > 90 Days | | | | | Total | > 90 Days |
| A&N ISLANDS | 2 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| ANDHRA PRADESH | 339 | 0 | 0 | 339 | 0 | 0 | 419 | 0 | 0 | 408 | 11 | 11 | 115 | 0 | 0 | 86 | 29 | 0 |
| ARUNACHAL PR. | 11 | 0 | 0 | 11 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 7 | 0 | 0 | 5 | 2 | 1 |
| ASSAM | 308 | 0 | 3 | 305 | 0 | 0 | 271 | 0 | 0 | 270 | 1 | 1 | 78 | 0 | 0 | 64 | 14 | 2 |
| BIHAR | 8416 | 0 | 10 | 8406 | 0 | 0 | 7066 | 0 | 3 | 6999 | 64 | 64 | 1872 | 0 | 0 | 1511 | 361 | 23 |
| CHANDIGARH | 63 | 0 | 0 | 63 | 0 | 0 | 55 | 0 | 0 | 55 | 0 | 0 | 18 | 0 | 0 | 15 | 3 | 0 |
| CHHATTISGARH | 332 | 0 | 0 | 332 | 0 | 0 | 247 | 0 | 0 | 241 | 6 | 6 | 95 | 0 | 0 | 62 | 33 | 5 |
| D&N HAVELI | 7 | 0 | 0 | 7 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| DAMAN & DIU | 12 | 0 | 0 | 12 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 |
| DELHI | 707 | 0 | 0 | 707 | 0 | 0 | 689 | 0 | 0 | 660 | 29 | 29 | 237 | 0 | 0 | 169 | 68 | 13 |
| GOA | 27 | 0 | 0 | 27 | 0 | 0 | 25 | 0 | 0 | 25 | 0 | 0 | 16 | 0 | 0 | 12 | 4 | 0 |
| GUJARAT | 993 | 0 | 1 | 992 | 0 | 0 | 938 | 0 | 0 | 922 | 16 | 16 | 277 | 0 | 0 | 243 | 34 | 7 |
| HARYANA | 964 | 0 | 0 | 964 | 0 | 0 | 822 | 0 | 0 | 806 | 16 | 16 | 236 | 0 | 0 | 185 | 51 | 11 |
| HIMACHAL PRADESH | 83 | 0 | 0 | 83 | 0 | 0 | 74 | 0 | 0 | 74 | 0 | 0 | 21 | 0 | 0 | 19 | 2 | 0 |
| JAMMU & KASHMIR | 301 | 0 | 0 | 301 | 0 | 0 | 209 | 0 | 0 | 209 | 0 | 0 | 62 | 0 | 0 | 57 | 5 | 0 |
| JHARKHAND | 909 | 0 | 0 | 909 | 0 | 0 | 872 | 0 | 0 | 856 | 16 | 16 | 314 | 0 | 0 | 249 | 65 | 12 |
| KARNATAKA | 663 | 0 | 1 | 662 | 0 | 0 | 850 | 0 | 1 | 840 | 9 | 9 | 229 | 0 | 0 | 186 | 43 | 6 |
| KERALA | 313 | 0 | 0 | 313 | 0 | 0 | 301 | 0 | 0 | 299 | 2 | 2 | 114 | 0 | 0 | 95 | 19 | 1 |
| LAKSHADWEEP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MADHYA PRADESH | 1755 | 0 | 1 | 1754 | 0 | 0 | 1867 | 0 | 1 | 1825 | 41 | 41 | 482 | 0 | 0 | 306 | 176 | 16 |
| MAHARASHTRA | 2284 | 0 | 1 | 2283 | 0 | 0 | 1919 | 0 | 0 | 1906 | 13 | 13 | 445 | 0 | 0 | 284 | 161 | 17 |
| MANIPUR | 33 | 0 | 0 | 33 | 0 | 0 | 31 | 0 | 0 | 31 | 0 | 0 | 13 | 0 | 0 | 8 | 5 | 0 |
| MEGHALAYA | 27 | 0 | 0 | 27 | 0 | 0 | 20 | 0 | 0 | 19 | 1 | 1 | 10 | 0 | 0 | 7 | 3 | 0 |
| MIZORAM | 30 | 0 | 0 | 30 | 0 | 0 | 32 | 0 | 0 | 31 | 1 | 1 | 7 | 0 | 0 | 7 | 0 | 0 |
| NAGALAND | 11 | 0 | 0 | 11 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 |
| ODISHA | 1225 | 0 | 1 | 1224 | 0 | 0 | 957 | 0 | 0 | 942 | 15 | 15 | 254 | 0 | 0 | 196 | 58 | 9 |
| PONDICHERRY | 11 | 0 | 0 | 11 | 0 | 0 | 25 | 0 | 0 | 25 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 |
| PUNJAB | 696 | 0 | 0 | 696 | 0 | 0 | 520 | 0 | 0 | 503 | 17 | 17 | 235 | 0 | 0 | 206 | 29 | 3 |
| RAJASTHAN | 1885 | 0 | 1 | 1884 | 0 | 0 | 1607 | 0 | 0 | 1559 | 48 | 48 | 467 | 0 | 0 | 371 | 96 | 21 |
| SIKKIM | 6 | 0 | 0 | 6 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 4 | 0 | 0 | 3 | 1 | 0 |
| TAMIL NADU | 549 | 0 | 0 | 549 | 0 | 0 | 817 | 0 | 0 | 816 | 1 | 1 | 237 | 0 | 0 | 221 | 16 | 2 |
| TELANGANA | 248 | 0 | 0 | 248 | 0 | 0 | 368 | 0 | 0 | 356 | 12 | 12 | 140 | 0 | 0 | 104 | 36 | 5 |
| TRIPURA | 51 | 0 | 0 | 51 | 0 | 0 | 25 | 0 | 0 | 23 | 2 | 2 | 7 | 0 | 0 | 5 | 2 | 0 |
| UTTAR PRADESH | 13114 | 0 | 14 | 13100 | 0 | 0 | 12952 | 0 | 5 | 12788 | 159 | 159 | 3629 | 0 | 0 | 2941 | 688 | 48 |
| UTTARAKHAND | 274 | 0 | 1 | 273 | 0 | 0 | 256 | 0 | 0 | 249 | 7 | 7 | 115 | 0 | 0 | 95 | 20 | 0 |
| WEST BENGAL | 2478 | 0 | 3 | 2475 | 0 | 0 | 2173 | 0 | 2 | 2140 | 31 | 31 | 542 | 0 | 0 | 464 | 78 | 8 |
| TOTAL | 39127 | 0 | 37 | 39090 | 0 | 0 | 36450 | 0 | 12 | 35920 | 518 | 518 | 10290 | 0 | 0 | 8186 | 2104 | 211 |

Table 3: AFP cases key surveillance indicators, 2017 - 2019

| State/UT's | 2017 | | | | 2018 | | | | 2019 | | | |
|------------------|-------------------------|--------------------|-----------------------------|---------------------|-------------------------|--------------------|-----------------------------|---------------------|-------------------------|--------------------|-----------------------------|---------------------|
| | Surveillance Indicators | | | | Surveillance Indicators | | | | Surveillance Indicators | | | |
| | Annualized Rates | | Specimen | | Annualized Rates | | Specimen | | Annualized Rates | | Specimen | |
| | AFP rate | Non-polio AFP rate | % with 2 spec. w/in 14 days | % with any specimen | AFP rate | Non-polio AFP rate | % with 2 spec. w/in 14 days | % with any specimen | AFP rate | Non-polio AFP rate | % with 2 spec. w/in 14 days | % with any specimen |
| A&N ISLANDS | 2.11 | 2.11 | 100 | 100 | 8.25 | 8.25 | 100 | 100 | 2.83 | 0.00 | 0 | 100 |
| ANDHRA PRADESH | 2.57 | 2.57 | 86 | 96 | 3.17 | 3.08 | 79 | 95 | 3.04 | 2.27 | 88 | 99 |
| ARUNACHAL PR. | 1.74 | 1.74 | 82 | 100 | 1.49 | 1.49 | 90 | 100 | 2.91 | 2.08 | 71 | 100 |
| ASSAM | 2.56 | 2.53 | 94 | 99 | 2.21 | 2.2 | 93 | 98 | 1.82 | 1.49 | 95 | 99 |
| BIHAR | 17.65 | 17.63 | 89 | 98 | 14.35 | 14.21 | 88 | 98 | 10.79 | 8.71 | 91 | 98 |
| CHANDIGARH | 13.64 | 13.64 | 89 | 100 | 11.7 | 11.7 | 96 | 98 | 15.95 | 13.29 | 89 | 94 |
| CHHATTISGARH | 2.99 | 2.99 | 73 | 96 | 2.25 | 2.19 | 67 | 95 | 3.36 | 2.20 | 73 | 95 |
| D&N HAVELI | 8.05 | 8.05 | 86 | 100 | 3.33 | 3.33 | 100 | 100 | 3.14 | 3.14 | 0 | 0 |
| DAMAN & DIU | 15.58 | 15.58 | 100 | 100 | 6.9 | 6.9 | 100 | 100 | 9.03 | 4.51 | 50 | 100 |
| DELHI | 12.72 | 12.72 | 83 | 97 | 11.82 | 11.32 | 80 | 97 | 11.5 | 8.20 | 81 | 96 |
| GOA | 6.46 | 6.46 | 74 | 96 | 5.9 | 5.9 | 60 | 96 | 10.77 | 8.08 | 94 | 100 |
| GUJARAT | 5.02 | 5.02 | 83 | 95 | 4.93 | 4.84 | 82 | 95 | 4.11 | 3.61 | 89 | 96 |
| HARYANA | 8.58 | 8.58 | 85 | 98 | 7.18 | 7.04 | 85 | 99 | 5.84 | 4.58 | 83 | 97 |
| HIMACHAL PRADESH | 4.02 | 4.02 | 84 | 98 | 3.53 | 3.53 | 84 | 99 | 2.86 | 2.58 | 100 | 100 |
| JAMMU & KASHMIR | 5.44 | 5.44 | 93 | 100 | 3.74 | 3.74 | 96 | 99 | 3.12 | 2.87 | 94 | 98 |
| JHARKHAND | 7.33 | 7.33 | 79 | 96 | 6.79 | 6.66 | 77 | 96 | 7.31 | 5.79 | 80 | 96 |
| KARNATAKA | 3.76 | 3.75 | 82 | 97 | 4.74 | 4.68 | 83 | 97 | 3.63 | 2.95 | 86 | 100 |
| KERALA | 3.63 | 3.63 | 91 | 100 | 3.47 | 3.45 | 90 | 99 | 3.78 | 3.15 | 92 | 98 |
| LAKSHADWEEP | 0.00 | 0.00 | NA | NA | 0 | 0 | NA | NA | 0 | 0.00 | NA | NA |
| MADHYA PRADESH | 5.38 | 5.38 | 81 | 97 | 5.62 | 5.5 | 81 | 97 | 4.12 | 2.62 | 82 | 97 |
| MAHARASHTRA | 6.85 | 6.85 | 83 | 98 | 5.68 | 5.65 | 81 | 97 | 3.76 | 2.40 | 76 | 96 |
| MANIPUR | 2.51 | 2.51 | 97 | 100 | 2.9 | 2.9 | 94 | 97 | 3.49 | 2.15 | 100 | 100 |
| MEGHALAYA | 1.85 | 1.85 | 85 | 100 | 1.33 | 1.26 | 80 | 100 | 1.87 | 1.31 | 80 | 100 |
| MIZORAM | 6.59 | 6.59 | 80 | 100 | 7.31 | 7.08 | 72 | 100 | 4.74 | 4.74 | 86 | 100 |
| NAGALAND | 1.51 | 1.51 | 73 | 91 | 1.99 | 1.99 | 62 | 85 | 1.97 | 1.97 | 100 | 100 |
| ODISHA | 9.38 | 9.37 | 88 | 99 | 7.33 | 7.21 | 86 | 99 | 5.47 | 4.22 | 85 | 96 |
| PONDICHERRY | 3.41 | 3.41 | 91 | 100 | 7.65 | 7.65 | 96 | 100 | 2.61 | 2.61 | 100 | 100 |
| PUNJAB | 9.00 | 9.00 | 84 | 97 | 6.63 | 6.42 | 80 | 96 | 8.55 | 7.49 | 90 | 98 |
| RAJASTHAN | 7.63 | 7.63 | 83 | 97 | 6.39 | 6.2 | 85 | 96 | 5.28 | 4.19 | 87 | 98 |
| SIKKIM | 2.62 | 2.62 | 83 | 100 | 2.16 | 2.16 | 100 | 100 | 4.88 | 3.66 | 100 | 100 |
| TAMIL NADU | 3.11 | 3.11 | 95 | 99 | 4.61 | 4.61 | 94 | 99 | 3.9 | 3.64 | 96 | 100 |
| TELANGANA | 2.36 | 2.36 | 72 | 96 | 3.57 | 3.45 | 69 | 97 | 3.87 | 2.87 | 71 | 96 |
| TRIPURA | 3.96 | 3.96 | 86 | 100 | 2.51 | 2.3 | 92 | 100 | 2 | 1.43 | 71 | 100 |
| UTTAR PRADESH | 14.72 | 14.70 | 86 | 98 | 14.27 | 14.09 | 84 | 97 | 11.34 | 9.19 | 87 | 98 |
| UTTARAKHAND | 6.09 | 6.06 | 84 | 98 | 5.58 | 5.43 | 73 | 95 | 7.11 | 5.88 | 89 | 98 |
| WEST BENGAL | 8.05 | 8.04 | 91 | 99 | 7.03 | 6.92 | 91 | 99 | 5.4 | 4.62 | 92 | 100 |
| TOTAL | 8.93 | 8.92 | 86 | 98 | 8.22 | 8.10 | 85 | 97 | 6.73 | 5.35 | 87 | 98 |

Figure 2: Timeliness of Reporting Units

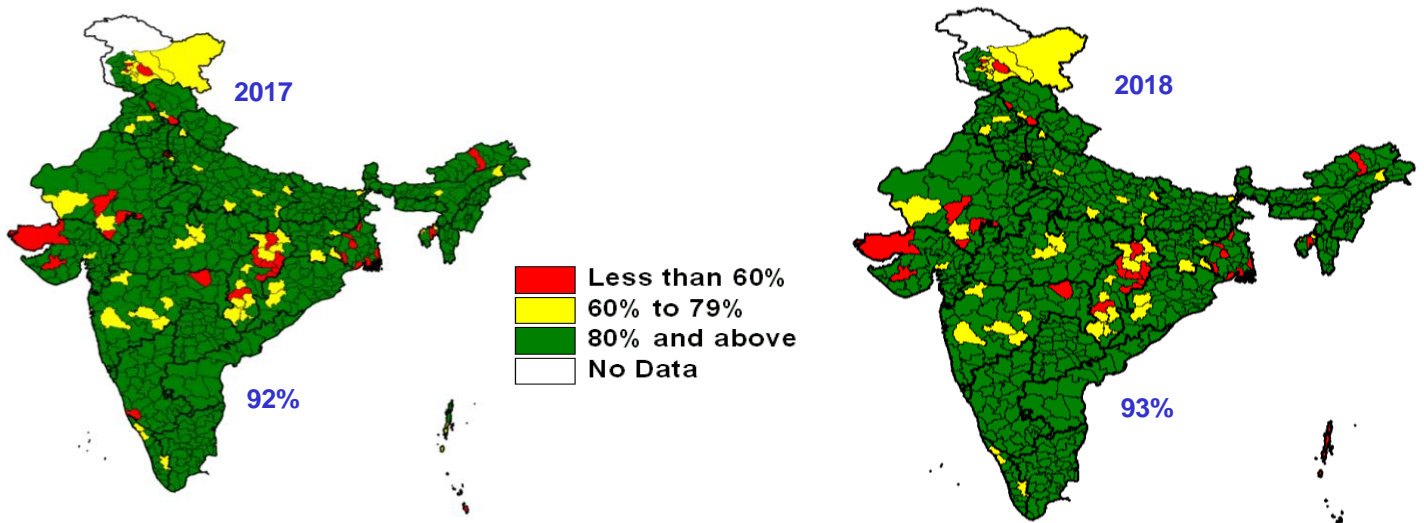


Figure 3: Non-polio AFP rate

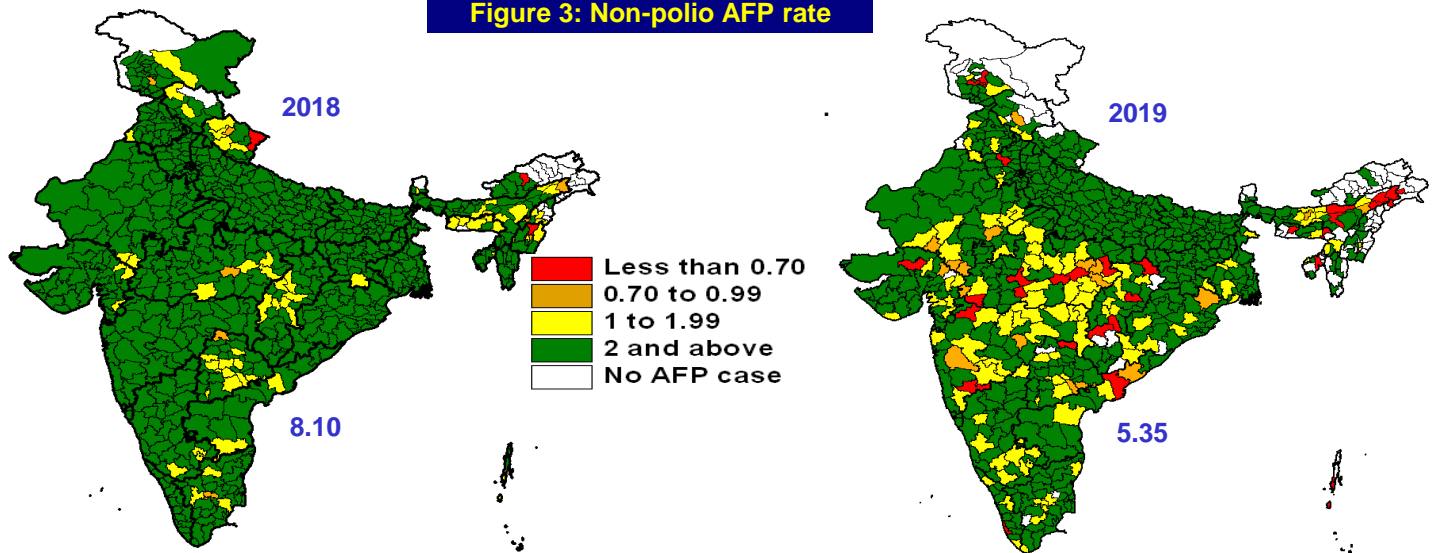


Figure 4: Stool collection within 14 days

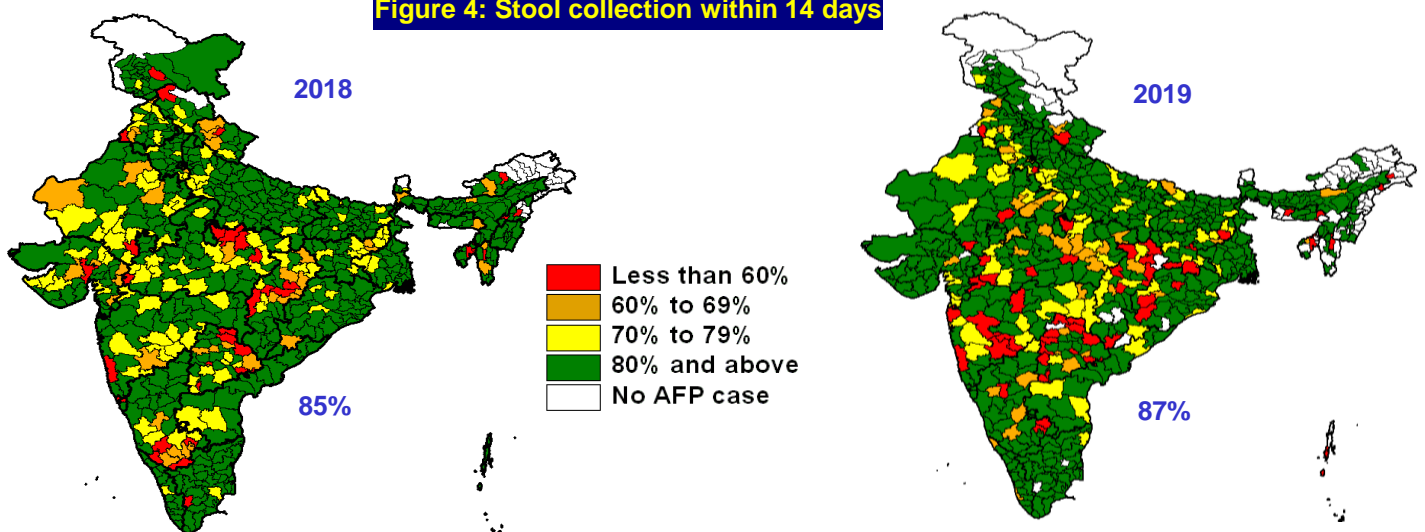
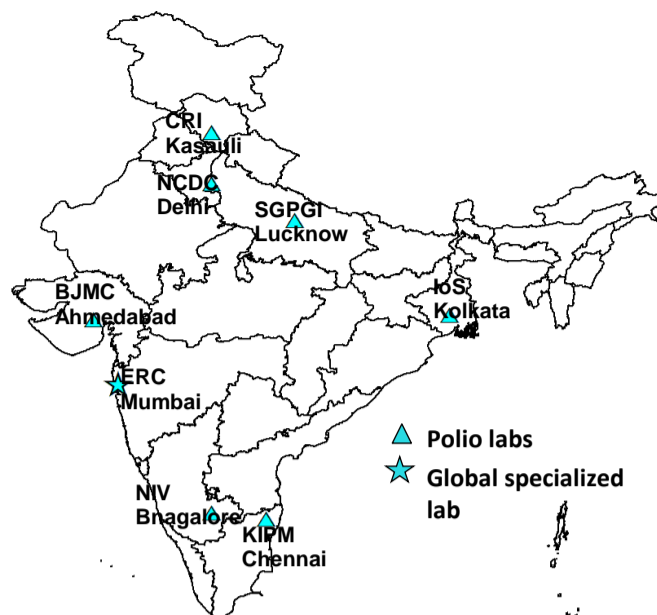


Table 4: Primary isolation results of AFP cases

| 2019 | | | | | | | | |
|--------------------|--|---|---|------------|------------------------|-----------------------------|----------|-------------------------------------|
| Polio Laboratories | Number of AFP cases with stool specimens | Number of AFP cases with laboratory result as | | | | Number of cases pending for | | Number of specimens received by lab |
| | | Culture positive for poliovirus | Culture positive for polio virus and NPEV | NPEV | No polio virus or NPEV | <=14 days | >14 days | |
| | | | | | | | | |
| BJMC, Ahmedabad | 1381 | 54 | 5 | 139 | 1065 | 118 | 0 | 2772 |
| NIV, Bangalore | 795 | 27 | 1 | 96 | 609 | 62 | 0 | 1591 |
| ERC, Mumbai | 694 | 30 | 0 | 65 | 599 | 0 | 0 | 1375 |
| IoS, Kolkata | 1306 | 54 | 2 | 94 | 1084 | 72 | 0 | 2601 |
| NCDC, Delhi | 1695 | 109 | 3 | 108 | 1410 | 65 | 0 | 3340 |
| CRI, Kasauli | 417 | 6 | 1 | 30 | 361 | 19 | 0 | 839 |
| KIPM, Chennai | 952 | 23 | 0 | 87 | 842 | 0 | 0 | 1895 |
| SGPGI, Lucknow | 2095 | 136 | 2 | 171 | 1633 | 153 | 0 | 4190 |
| TOTAL | 9335 | 439 | 14 | 790 | 7603 | 489 | 0 | 18603 |

Figure 5: Polio laboratory network



| 2018 | | | | | | | | |
|--------------------|--|---|---|-------------|------------------------|-----------------------------|----------|-------------------------------------|
| Polio Laboratories | Number of AFP cases with stool specimens | Number of AFP cases with laboratory result as | | | | Number of cases pending for | | Number of specimens received by lab |
| | | Culture positive for poliovirus | Culture positive for polio virus and NPEV | NPEV | No polio virus or NPEV | <=14 days | >14 days | |
| | | | | | | | | |
| BJMC, Ahmedabad | 4722 | 191 | 27 | 942 | 3562 | 0 | 0 | 9453 |
| NIV, Bangalore | 3107 | 104 | 13 | 816 | 2174 | 0 | 0 | 6233 |
| ERC, Mumbai | 3716 | 113 | 11 | 801 | 2791 | 0 | 0 | 7436 |
| IoS, Kolkata | 4996 | 155 | 12 | 847 | 3982 | 0 | 0 | 9986 |
| NCDC, Delhi | 6146 | 143 | 15 | 858 | 5130 | 0 | 0 | 12281 |
| CRI, Kasauli | 1779 | 19 | 1 | 202 | 1557 | 0 | 0 | 3565 |
| KIPM, Chennai | 3783 | 82 | 4 | 625 | 3072 | 0 | 0 | 7556 |
| SGPGI, Lucknow | 7237 | 136 | 16 | 1294 | 5791 | 0 | 0 | 14707 |
| TOTAL | 35486 | 943 | 99 | 6385 | 28059 | 0 | 0 | 71217 |

Table 5: Intratypic differentiation (ITD) of isolates from AFP cases

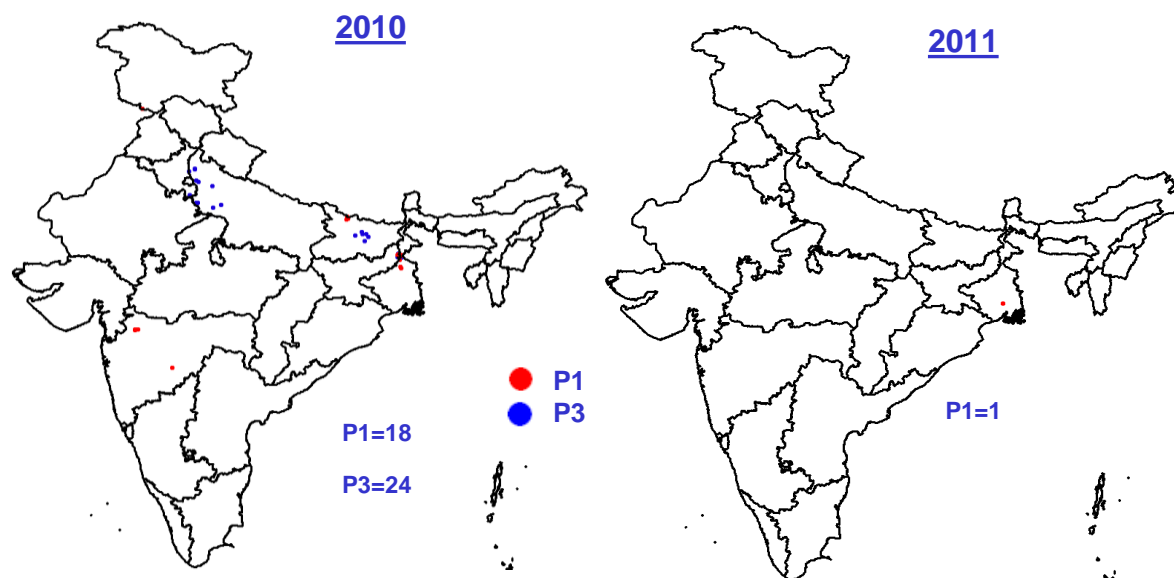
| 2019 | | | | | | | | | | | | | | | | | | |
|--------------------|--------------------------------------|--|----------|----------|----------|--------------------|----------|------------|------------|----------|----------|----------|-------------|-----------------|----------|-----------------------------|-----------|----------|
| Polio Laboratories | Number of AFP cases referred for ITD | Number of AFP cases with ITD result as | | | | | | | | | | | | | | Number of cases pending for | | |
| | | Wild poliovirus | | | | Vaccine poliovirus | | | | VDPV | | | NPEV by PCR | Non enterovirus | Negative | <=7 days | 8-14 days | >14 days |
| | | Type 1 | Type 2 | Type 3 | Mix | Type 1 | Type 2 | Type 3 | Mix | Type 1 | Type 2 | Type 3 | | | | | | |
| BJMC, Ahmedabad | 59 | 0 | 0 | 0 | 0 | 10 | 0 | 15 | 27 | 0 | 0 | 0 | 2 | 0 | 0 | 5 | 0 | 0 |
| NIV, Bangalore | 28 | 0 | 0 | 0 | 0 | 6 | 0 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 0 |
| ERC, Mumbai | 30 | 0 | 0 | 0 | 0 | 14 | 0 | 8 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| IoS, Kolkata | 56 | 0 | 0 | 0 | 0 | 22 | 0 | 14 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| NCDC, Delhi | 112 | 0 | 0 | 0 | 0 | 19 | 0 | 40 | 43 | 0 | 0 | 0 | 3 | 0 | 0 | 7 | 0 | 0 |
| CRI, Kasauli | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| KIPM, Chennai | 23 | 0 | 0 | 0 | 0 | 9 | 0 | 5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| SGPGI, Lucknow | 138 | 0 | 0 | 0 | 0 | 36 | 0 | 37 | 56 | 0 | 0 | 0 | 1 | 1 | 0 | 7 | 0 | 0 |
| TOTAL | 453 | 0 | 0 | 0 | 0 | 117 | 0 | 131 | 160 | 0 | 0 | 0 | 7 | 1 | 0 | 33 | 4 | 0 |

| 2018 | | | | | | | | | | | | | | | | | | |
|--------------------|--------------------------------------|--|----------|----------|----------|--------------------|----------|------------|------------|----------|----------|----------|-------------|-----------------|----------|-----------------------------|-----------|----------|
| Polio Laboratories | Number of AFP cases referred for ITD | Number of AFP cases with ITD result as | | | | | | | | | | | | | | Number of cases pending for | | |
| | | Wild poliovirus | | | | Vaccine poliovirus | | | | VDPV | | | NPEV by PCR | Non enterovirus | Negative | <=7 days | 8-14 days | >14 days |
| | | Type 1 | Type 2 | Type 3 | Mix | Type 1 | Type 2 | Type 3 | Mix | Type 1 | Type 2 | Type 3 | | | | | | |
| BJMC, Ahmedabad | 219 | 0 | 0 | 0 | 0 | 50 | 0 | 70 | 93 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| NIV, Bangalore | 117 | 0 | 0 | 0 | 0 | 29 | 0 | 42 | 40 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| ERC, Mumbai | 124 | 0 | 0 | 0 | 0 | 30 | 0 | 41 | 34 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 |
| IoS, Kolkata | 167 | 0 | 0 | 0 | 0 | 48 | 0 | 48 | 60 | 0 | 0 | 0 | 10 | 1 | 0 | 0 | 0 | 0 |
| NCDC, Delhi | 157 | 0 | 0 | 0 | 0 | 41 | 0 | 71 | 43 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| CRI, Kasauli | 20 | 0 | 0 | 0 | 0 | 5 | 0 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KIPM, Chennai | 85 | 0 | 0 | 0 | 0 | 23 | 0 | 31 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGPGI, Lucknow | 153 | 0 | 0 | 0 | 0 | 45 | 1 | 56 | 49 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| TOTAL | 1042 | 0 | 0 | 0 | 0 | 271 | 1 | 365 | 359 | 0 | 0 | 0 | 44 | 1 | 1 | 0 | 0 | 0 |

Table 6: Most recent Wild Polio Virus case by State

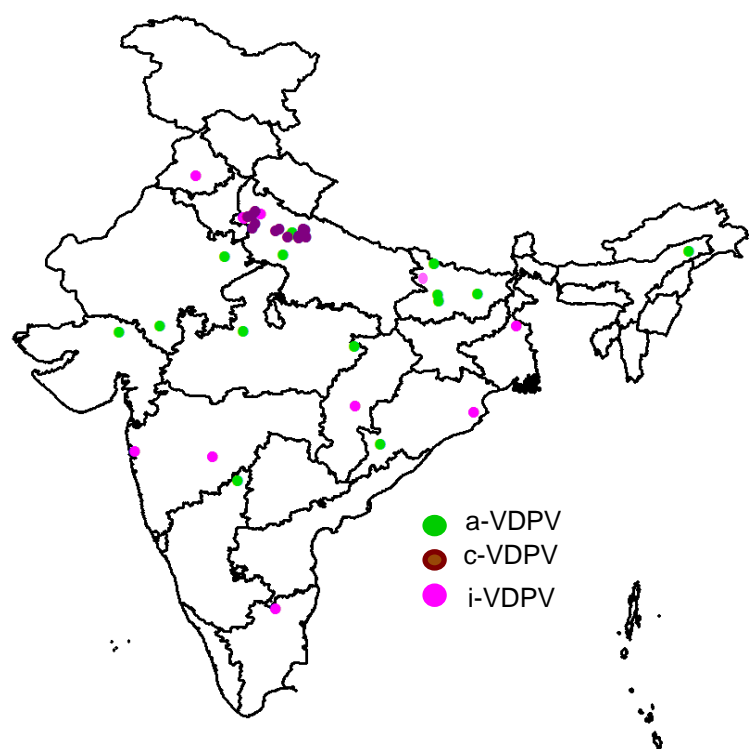
| State | Date of most recent polio case | Type |
|-------------------|--------------------------------|-------|
| West Bengal | 13-Jan-11 | P1 |
| Jharkhand | 22-Oct-10 | P3 |
| Maharashtra | 16-Sep-10 | P1 |
| Bihar | 01-Sep-10 | P1 |
| Uttar Pradesh | 21-Apr-10 | P3 |
| Jammu & Kashmir | 07-Feb-10 | P1 |
| Haryana | 13-Jan-10 | P3 |
| Rajasthan | 27-Nov-09 | P3 |
| Uttarakhand | 06-Nov-09 | P3 |
| Himachal Pradesh | 17-Oct-09 | P3 |
| Punjab | 13-Oct-09 | P3 |
| Delhi | 28-Jun-09 | P3 |
| Madhya Pradesh | 04-Aug-08 | P3 |
| Odisha | 22-Jul-08 | P3 |
| Andhra Pradesh | 16-Jul-08 | P3 |
| Assam | 09-Jun-08 | P1 |
| Karnataka | 03-Nov-07 | P3 |
| Gujarat | 16-Mar-07 | P1 |
| Telangana | 03-Jul-07 | P1 |
| Chandigarh | 02-Aug-06 | P1 |
| Tamil Nadu | 18-Feb-04 | P1 |
| Chhattisgarh | 18-Jul-02 | P1 |
| Kerala | 29-Sep-00 | P1 |
| Pondicherry | 26-Nov-98 | P1 |
| Goa | 28-Oct-98 | P1 |
| Daman & Diu | 22-Oct-98 | P1 |
| D & N Haveli | 31-Jan-98 | P1 |
| Nagaland | 10-Dec-97 | P1&P3 |
| Meghalaya | 15-Oct-97 | P1 |
| Tripura | 10-Oct-97 | P1 |
| A&N Islands | Before 1997 | |
| Arunachal Pradesh | Before 1997 | |
| Lakshadweep | Before 1997 | |
| Manipur | Before 1997 | |
| Mizoram | Before 1997 | |
| Sikkim | Before 1997 | |

Figure 6: Wild Polio cases, India



| Month | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|--------------|-------------|-------------|------------|------------|-------------|------------|------------|-----------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| January | 112 | 36 | 36 | 7 | 18 | 51 | 4 | 10 | 8 | 24 | 112 | 14 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 32 | 22 | 10 | 1 | 8 | 16 | 3 | 5 | 9 | 14 | 53 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 42 | 11 | 10 | 3 | 7 | 9 | 1 | 1 | 8 | 14 | 40 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| April | 26 | 8 | 20 | 3 | 16 | 7 | 1 | 2 | 13 | 14 | 40 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 49 | 39 | 6 | 4 | 42 | 5 | 9 | 2 | 36 | 32 | 34 | 24 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 118 | 69 | 8 | 13 | 117 | 7 | 14 | 6 | 76 | 30 | 38 | 79 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 324 | 142 | 25 | 30 | 251 | 25 | 13 | 3 | 121 | 64 | 53 | 89 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 418 | 187 | 39 | 62 | 280 | 29 | 18 | 6 | 114 | 78 | 67 | 119 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| September | 283 | 193 | 32 | 33 | 334 | 30 | 18 | 14 | 137 | 82 | 49 | 145 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| October | 170 | 195 | 31 | 38 | 247 | 20 | 32 | 7 | 71 | 98 | 32 | 129 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 226 | 155 | 31 | 43 | 180 | 16 | 14 | 7 | 55 | 203 | 24 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 134 | 69 | 17 | 31 | 100 | 10 | 7 | 3 | 28 | 221 | 17 | 48 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1934 | 1126 | 265 | 268 | 1600 | 225 | 134 | 66 | 676 | 874 | 559 | 741 | 42 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Figure 7: Vaccine-derived Poliovirus in AFP cases, India, 2009 - 2019



| Year | type 1 | | type 2 | | | type 3 |
|--------------|----------|----------|-----------|-----------|----------|----------|
| | a | i | a | c | i | i |
| 2009 | 1 | 1 | 4 | 15 | | |
| 2010 | | | 1 | 3 | 1 | |
| 2011 | | | 4 | | 2 | 1 |
| 2012 | | | | | 1 | |
| 2013 | | | 2 | | 3 | |
| 2014 | | | 3 | | | |
| 2015 | | | 1 | | 1 | |
| 2016 | | | | | 1 | |
| 2017 | | | | | | |
| 2018 | | | | | | |
| 2019 | | | | | | |
| Total | 1 | 1 | 15 | 18 | 9 | 1 |

