



**World Health
Organization**

Weekly AFP Surveillance Update Pakistan

Week 31 (*Ended on 04th Aug, 2018*)

National Surveillance Cell

World Health Organization Country Office,
Chak Shahzad, Park Road,
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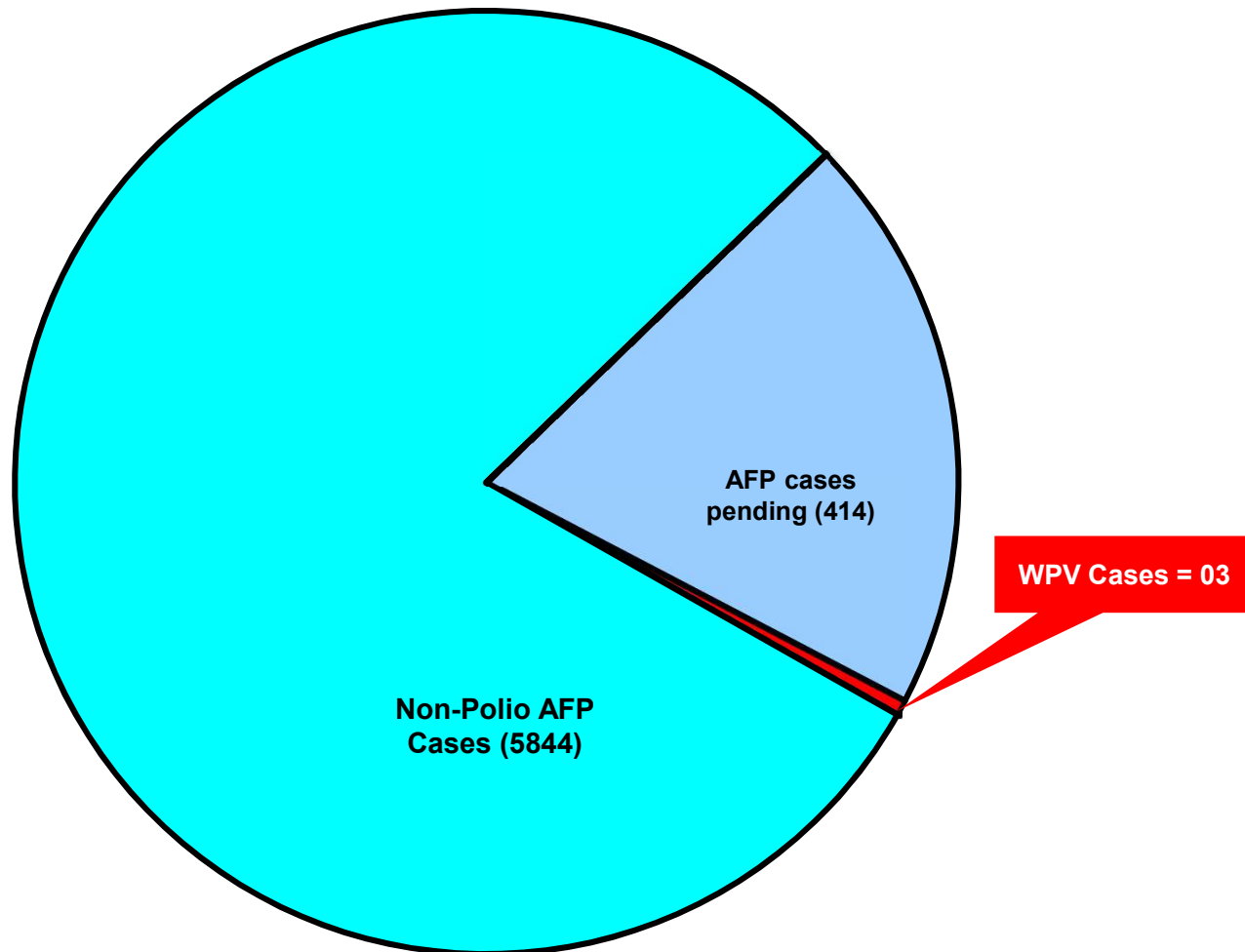
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AFP Surveillance



<http://www.emro.who.int/pak/information-resources>

AFP Case Profile, 2018*



Total AFP Cases Reported = 6261

^ 245 Inadequate cases not due for FUP

^ 169 AFP Cases pending in Lab

^93 AFP Cases pending for classification by ERC

* Afp.rec Data as of 06-08-2018

Table 1.1: List of Confirmed Polio Cases, Pakistan 2018* (1/1)

| S.NO. | PROVINCE/ REGION | DISTRICT | TEHSIL | EPID NO. | SEX | AGE (m) | DATE ONSET OF PARALYSIS | NO. OPV DOSES (based on parents recall) | | FEVER | Asymetric Paralysis | Rapid Progression | REFUSAL | WPV TYPE | GENETICS |
|-------|---------------------|----------|--------|--------------|-----|---------|-------------------------------|--|-------|-------|------------------------|----------------------|---------|----------|----------|
| | | | | | | | | Routine | SIA's | | | | | | Cluster |
| 01 | BALUCHISTAN | DUKI | DUKI | BN/65/18/003 | M | 38 | 08-Mar-18 | 0 | 7+ | Y | Y | Y | N | NSL1 | R4B5C4 |
| 02 | BALUCHISTAN | DUKI | DUKI | BN/65/18/005 | F | 18 | 15-Apr-18 | 0 | 7 | Y | Y | Y | N | NSL1 | R4B5C4D |
| 03 | BALUCHISTAN | DUKI | DUKI | BN/65/18/007 | M | 18 | 18-May-18 | 0 | 3 | Y | Y | Y | N | NSL1 | R4B5C4D |

* Afp.rec Data as of 06-08-2018

Table 3: Urgent/ITD Pending Cases (1/1)

| Basic information | | | | | | | | | | | OPV doses | | | | Urgent | | Prov Diagnosis | Lab update | | | Remarks |
|--|-----------|------|--------------|---------------|--------------|---------------|---------|-----|-------------------|------------|-----------|-----|------------|-----------|--------|-----|---------------------------------|------------|-----------|----------------|---------|
| S.# | District | Tier | Tehsil | Union council | Epid number | Date of Onset | Age (M) | Sex | Date of 1st stool | Stool Adeq | RI | SAs | Last 6 SAs | Last dose | Field | NSC | | Lab No. | Days Inoc | Culture update | |
| Isolates pending for ITSD | | | | | | | | | | | | | | | | | | | | | |
| 1 | ABOTABAD | 4 | HAVELIAN | PHALLAH | KP/10/18/051 | 20-Jul-18 | 18 | F | 24-Jul-18 | Y | 3 | 7 | 6 | 10-Apr-18 | N | N | ENCEPHALITIS | 8479 | 4 | L20B+ | |
| 2 | BHAKKAR | 4 | DARYA KHAN | DARYA KHAN | PB/44/18/027 | 14-Jul-18 | 39 | M | 18-Jul-18 | Y | 3 | 7+ | 6 | 09-May-18 | N | N | MIXOSITIS | 8303 | 8 | L20B+ | |
| 3 | SAHIWAL * | 4 | CHICHAWATNI | # | PB/65/18/071 | 25-Jul-18 | 17 | F | 28-Jul-18 | Y | # | # | | 09-Apr-18 | N | # | * | 8644 | 4 | L20B+ | |
| Reported urgent (by field / NSC criteria) | | | | | | | | | | | | | | | | | | | | | |
| 4 | QUETTA | 1 | CHILTAN TOWN | 10-B | BN/11/18/041 | 19-Jul-18 | 4 | M | 24-Jul-18 | Y | 0 | 2 | 2 | 03-Jul-18 | Y | Y | POLIO MYELITIS / UNKNOWN TRAUMA | 8520 | 8 | UP | |
| 5 | KECH * | 4 | TURBAT | KOSHKALAT | BN/61/18/003 | 15-Jul-18 | 11 | F | 17-Jul-18 | Y | 0 | 6 | 6 | 10-Apr-18 | N | Y | HYPOCALEMIA | 8313 | 12 | UP | |
| 6 | MASTUNG * | 4 | KARDAGAP | KARDAGAP-II | BN/51/18/007 | 16-Jul-18 | 6 | F | 22-Jul-18 | Y | 0 | 4 | 4 | 03-Jul-18 | N | Y | MONO PLEGIA | 8437 | 12 | UP | |

* New addition § New results #Data not available ¥ NSC Criteria = Fever, Rapid Progress, Age < 48 months and OPV Doses <7 UP = Under process
 Urgent (Field/NSC) / Inadequate specimens / Age 12-35 months / Zero OPV dose ◯ Pending for genomic sequencing

Point in time comparison of Polio Cases by Province/Region 2017 - 2018*

| Region/ Province | No. of polio cases | | No. of infected districts/towns | | Most recent polio case |
|---------------------------|--------------------|----------|---------------------------------|----------|------------------------|
| | 2017 | 2018 | 2017 | 2018 | |
| Balochistan | 1 | 3 | 1 | 1 | 18-May-18 |
| Sindh | 0 | 0 | 0 | 0 | 09-Nov-17 |
| Khyber Pakhtunkhwa | 0 | 0 | 0 | 0 | 21-Aug-17 |
| KP-TD | 0 | 0 | 0 | 0 | 27-Jul -16 |
| G-Baltistan | 1 | 0 | 1 | 0 | 13-Feb-17 |
| Punjab | 1 | 0 | 1 | 0 | 28-Jan-17 |
| Pakistan | 3 | 3 | 3 | 1 | 18-May-18 |

Nineteen additional district / town declared infected based on environmental samples in 2018

* Afp.rec Data as of 06-08-2018

Table 2: LAB Update 2018*

| Month of Onset | AFP Cases | No virus isolated | Cases Under Process | | Isolated Viruses from stools | | | | | | |
|----------------|-------------|-------------------|---------------------|----------|------------------------------|----------|-------------|------------|-----------|------------------------|------------|
| | | | Culture | ITD | Vaccine viruses | | NPEV | | Wild | Results within 14 days | |
| | n | n | n | n | n | % | n | % | n | n | % |
| January | 1010 | 843 | 0 | 0 | 76 | 8 | 91 | 9% | 0 | 1010 | 100% |
| February | 894 | 715 | 0 | 0 | 74 | 8 | 105 | 12% | 0 | 894 | 100% |
| March | 968 | 767 | 0 | 0 | 28 | 3 | 172 | 18% | 1 | 967 | 100% |
| April | 981 | 733 | 0 | 0 | 31 | 3 | 217 | 22% | 1 | 981 | 100% |
| May | 993 | 722 | 1 | 0 | 30 | 3 | 239 | 24% | 1 | 991 | 100% |
| June | 767 | 571 | 5 | 0 | 18 | 2 | 173 | 23% | 0 | 762 | 99% |
| July | 590 | 315 | 149 | 3 | 19 | 3 | 110 | 19% | 0 | 444 | 75% |
| Total | 6203 | 4666 | 155 | 3 | 276 | 4 | 1107 | 18% | 03 | 6049 | 98% |

* Data as of Aug 06, 2018

Comparison of Environmental Sampling Results, 2017-18*

| DISTRICT | 2017 | | | | | 2018 | | | | | Last |
|------------|-------|------|------|-------|-------|------|------|------|-------|-----|-----------|
| | TOTAL | WILD | | | TOTAL | WILD | | | | | |
| | n | GRAB | BMFS | TOTAL | | n | GRAB | BMFS | TOTAL | | |
| | | n | n | n | % | | n | n | n | % | |
| LAHORE | 36 | | | 0 | 0% | 34 | 2 | | 2 | 6% | 11-Jul-18 |
| MULTAN | 21 | 1 | | 1 | 5% | 21 | | | 0 | 0% | 9-Jan-17 |
| DGKHAN | 21 | | | 0 | 0% | 15 | | 1 | 1 | 7% | 12-Feb-18 |
| RAWALPINDI | 16 | 4 | 2 | 6 | 38% | 15 | 4 | 1 | 5 | 33% | 10-Jul-18 |
| FAISALABAD | 15 | | | 0 | 0% | 14 | | | 0 | 0% | 2-Jul-16 |
| SARGODHA | 7 | | | 0 | 0% | 6 | | | 0 | 0% | |
| BAHAWALPUR | 8 | | | 0 | 0% | 6 | | | 0 | 0% | |
| RAJANPUR | | | | | | 6 | | | 0 | 0% | |
| CDA | 7 | 5 | | 5 | 71% | 7 | 3 | | 3 | 43% | 10-Jul-18 |
| KHIGIQBAL | 15 | 2 | 1 | 3 | 20% | 14 | | | 0 | 0% | 10-Oct-17 |
| KHIGADAP | 21 | 10 | | 10 | 48% | 22 | 8 | | 8 | 36% | 13-Jul-18 |
| KHIBALDIA | 7 | | | 0 | 0% | 7 | | | 0 | 0% | 3-Nov-17 |
| KHILANDHI | 7 | 4 | | 4 | 57% | 6 | 2 | | 2 | 33% | 20-Apr-18 |
| KHIKORANGI | 7 | | | 0 | 0% | 5 | | | 0 | 0% | 16-Oct-17 |
| KHISITE | 7 | | | 0 | 0% | 7 | 1 | | 1 | 14% | 1-Jan-18 |
| KHISADDAR | | | | | | 6 | | | 0 | 0% | |
| KHILIAQAT | | | | | | 6 | 1 | | 1 | 17% | 7-Mar-18 |
| SUKKUR | 17 | 1 | | 1 | 6% | 14 | | 1 | 1 | 7% | 8-Feb-18 |
| HYDERABAD | 8 | | | 0 | 0% | 7 | 1 | | 1 | 14% | 9-Feb-18 |
| JACOBABAD | 7 | | | 0 | 0% | 9 | 1 | 1 | 2 | 22% | 7-Mar-18 |
| SANGHAR | 7 | | | 0 | 0% | 1 | | | 0 | 0% | |
| DADU | 7 | | | 0 | 0% | 7 | | | 0 | 0% | |
| KAMBAR | 7 | | | 0 | 0% | 7 | 3 | | 3 | 43% | 9-Jul-18 |
| PESHAWAR | 17 | 3 | 2 | 5 | 29% | 14 | 8 | 1 | 9 | 64% | 10-Jul-18 |
| DIKHAN | 13 | | | 0 | 0% | 12 | | | 0 | 0% | 16-Jul-16 |
| BANNU | 6 | | | 0 | 0% | 7 | | 1 | 1 | 14% | 31-Mar-18 |
| KOHAT | 7 | | | 0 | 0% | 7 | 3 | | 3 | 43% | 27-Jun-18 |
| CHARSADA | 7 | | | 0 | 0% | 7 | | | 0 | 0% | |
| MARDAN | 7 | | | 0 | 0% | 7 | | | 0 | 0% | |
| NOWSHERA | 7 | | | 0 | 0% | 6 | | | 0 | 0% | |
| KABDULAH | 15 | 10 | | 10 | 67% | 14 | 1 | | 1 | 7% | 1-Jan-18 |
| QUETTA | 30 | 9 | 1 | 10 | 33% | 26 | 4 | | 4 | 15% | 28-May-18 |
| PISHIN | 8 | 4 | | 4 | 50% | 7 | | | 0 | 0% | 2-Oct-17 |
| KHUZDAR | 7 | | | 0 | 0% | 6 | | | 0 | 0% | |
| LORALAI | 7 | | | 0 | 0% | 5 | 1 | | 1 | 20% | 17-Mar-18 |
| ZHOB | 7 | | | 0 | 0% | 6 | | | 0 | 0% | 18-Dec-17 |
| WAZIR-S | | | | | | 3 | | | 0 | | |
| BAJOUR | | | | | | 3 | 1 | | 1 | 33% | 19-May-18 |
| PAKISTAN | 386 | 53 | 6 | 59 | 15% | 372 | 44 | 6 | 50 | 13% | 13-Jul-18 |

New Positive Samples

* Afp.rec Data as of 06-08-2018

WPV and cVDPV Cases by District in 2018

| PROVINCE | DISTRICT | WPV Cases | | cVDPV Cases | |
|-------------|----------|--------------------|-------|--------------------|-------|
| | | Onset of Last Case | Cases | Onset of Last Case | Cases |
| BALUCHISTAN | DUKKI | 18-May | 3 | | |

Map 2.1: Point in Time Comparison of Wild Polio virus Compatible and cVDPV2 isolates

Infected districts/Towns/Agencies/Areas

On the basis of WPV isolation

- WPV cases = 03
- Sewage water = 10 (no WPV case)
- Total = 13

2017

Source

AFP Surveillance

- P1 = 03
- Compatible = 0
- cVDPV Cases = -
- cVDPV Env = -

Sewage water

- Grab = 53
- BMFS = 06

Infected districts/Towns/Agencies/Areas

On the basis of WPV isolation

- WPV cases = 01
- Sewage water = 19 (no WPV case)
- Total = 20

2018

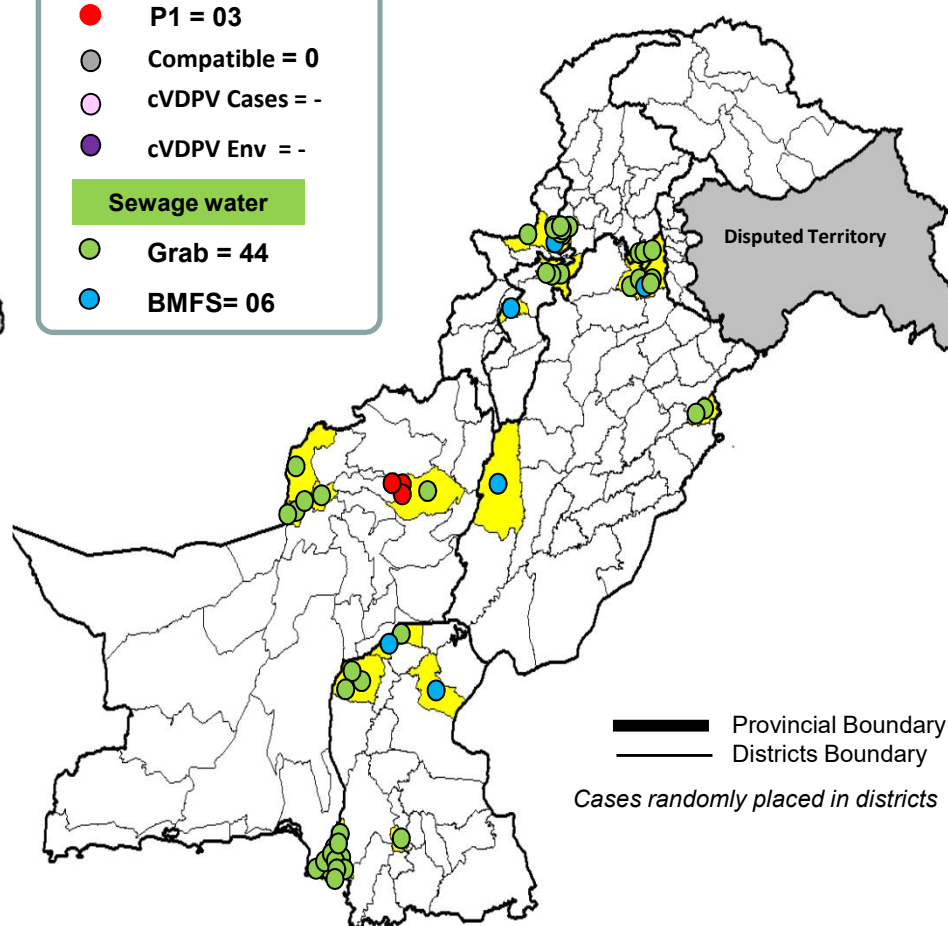
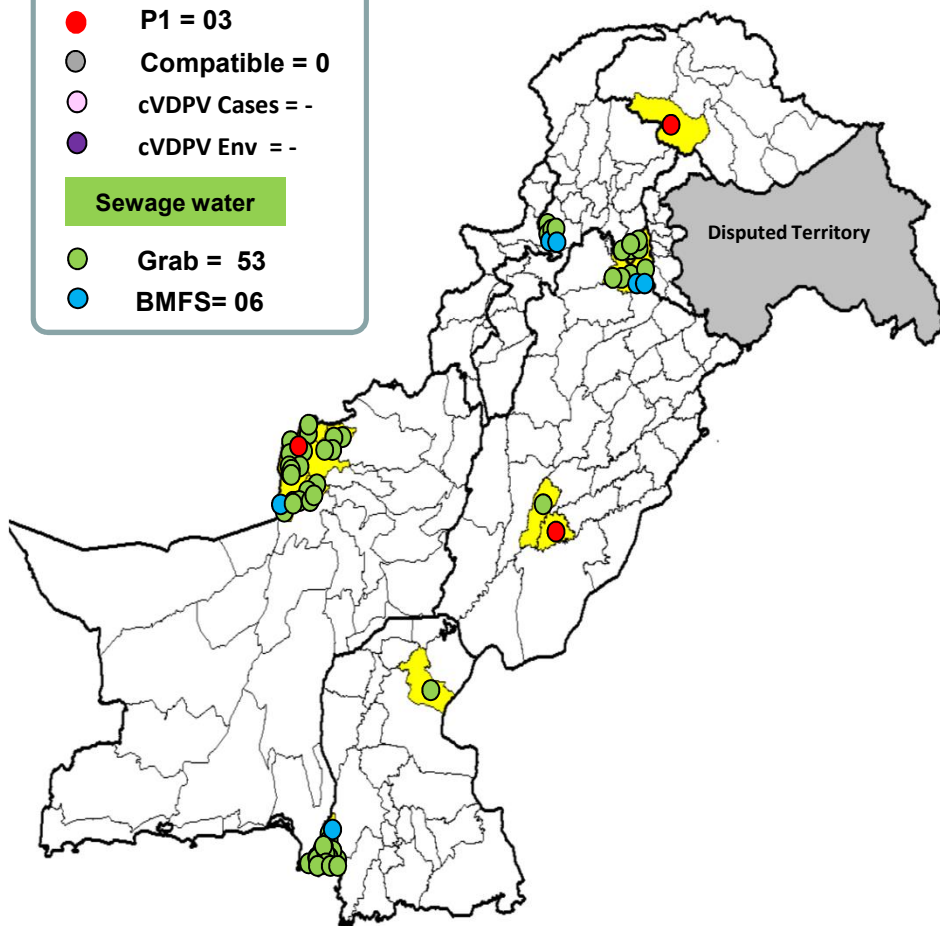
Source

AFP Surveillance

- P1 = 03
- Compatible = 0
- cVDPV Cases = -
- cVDPV Env = -

Sewage water

- Grab = 44
- BMFS = 06



— Provincial Boundary
 — Districts Boundary

Cases randomly placed in districts




* Afp.rec Data as of 06-08-2018

Map1: Distribution of Wild Polio Cases Pakistan 2017-2018*

Districts/Towns with Wild Polio Cases = 01



| Province/ Country | Date of Last Case | | Number of cases 2017 | | Number of cases 2018 | |
|----------------------|-------------------|-----------|----------------------|----|----------------------|----|
| | P1 | P3 | P1 | P3 | P1 | P3 |
| KP-TD | Jul, 2016 | Apr, 2012 | - | - | - | - |
| KHYBER-PAKHTUNKHWA | Aug, 2017 | Oct, 2010 | 01 | - | - | - |
| SINDH | Nov, 2017 | Jan, 2010 | 02 | - | - | - |
| BALUCHISTAN | Apr, 2018 | Apr, 2010 | 03 | - | 03 | - |
| PUNJAB | Jan, 2017 | Jun, 2010 | 01 | - | - | - |
| AJK | Jun, 2000 | Jun, 2000 | - | - | - | - |
| GILGIT-BALTISTAN | Feb, 2017 | - | 01 | - | - | - |
| ISLAMABAD | Sep, 2008 | Sep, 2008 | - | - | - | - |
| PAKISTAN | Apr, 2018 | Apr, 2012 | 08 | - | 03 | - |

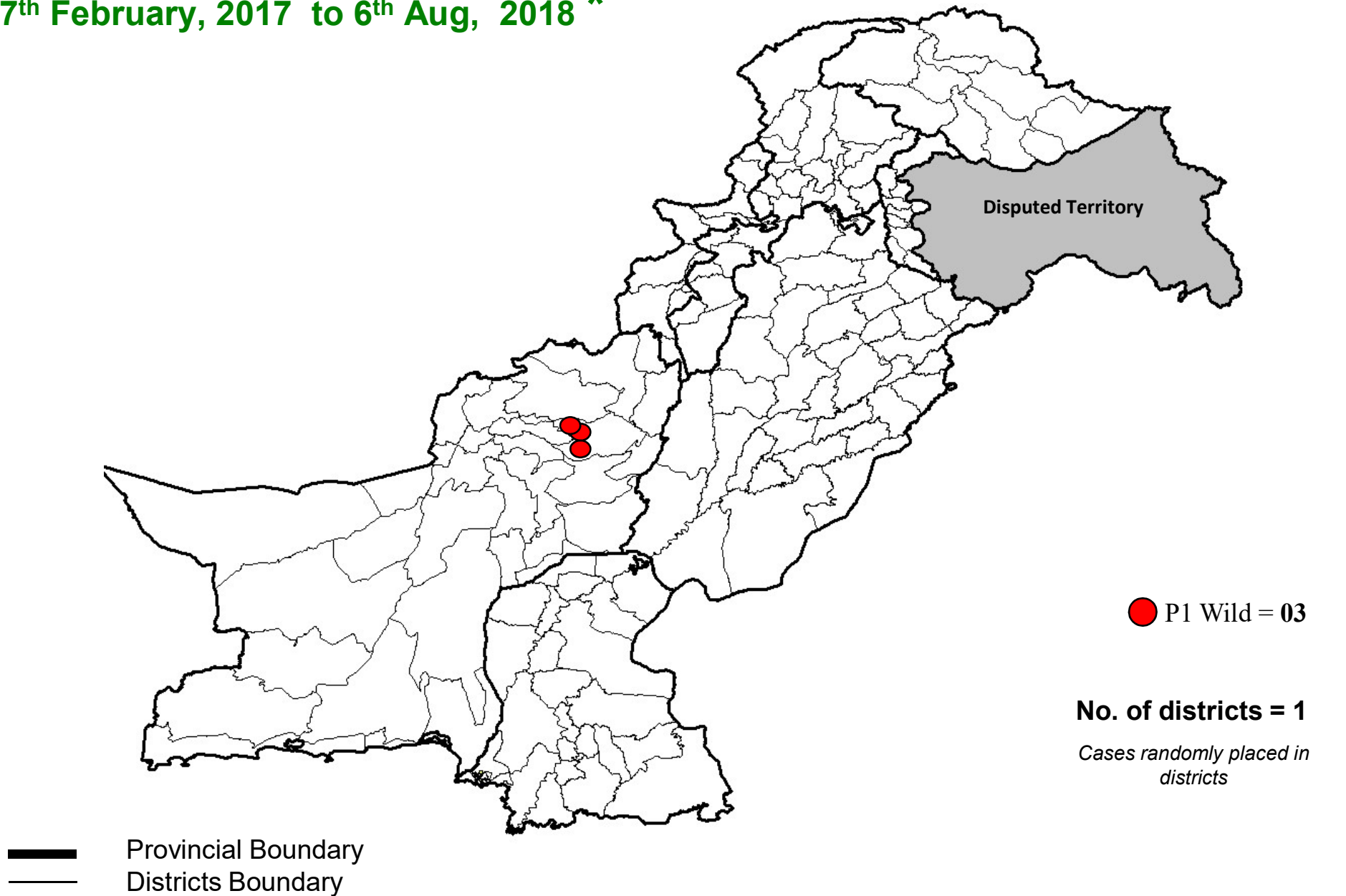
-  District with last polio case in province
-  Provincial Boundary
-  Districts Boundary

Cases randomly placed in districts

* Afp.rec Data as of 06-08-2018

Map 3: Wild Polio cases in the last 6 months

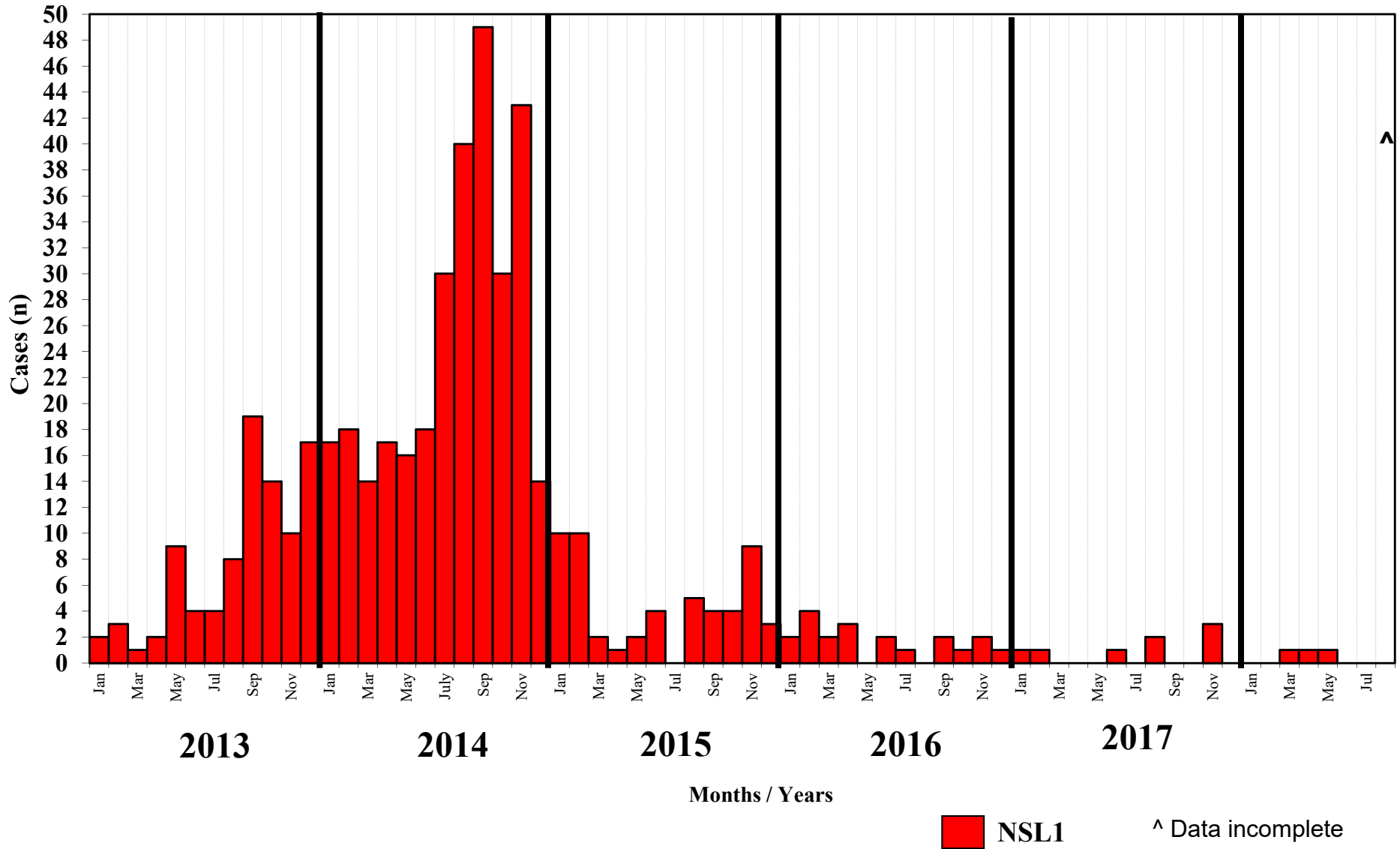
7th February, 2017 to 6th Aug, 2018 *



* Afp.rec Data as of 06-08-2018

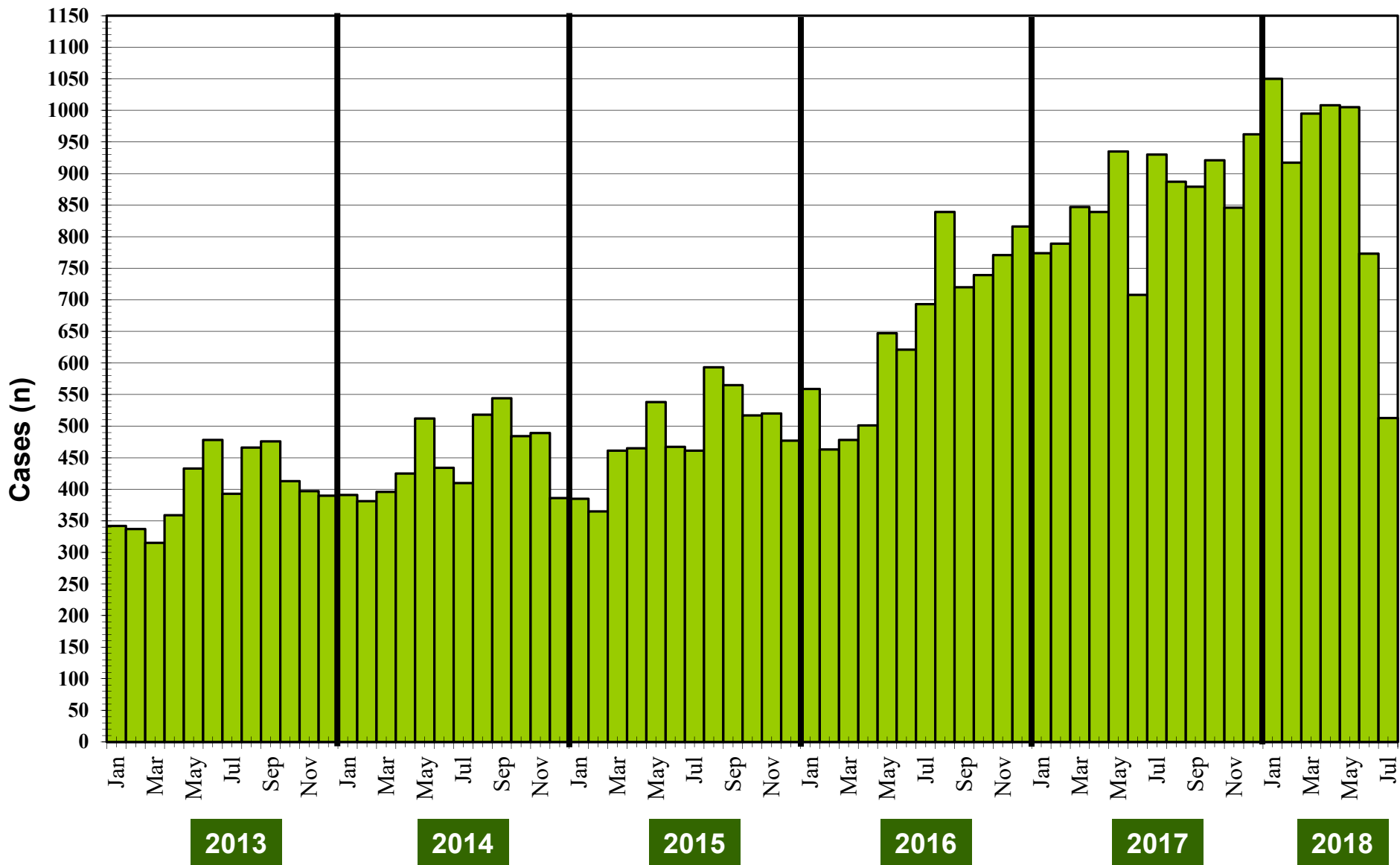
Confirmed Polio Cases 2013-2018*

2018



* Afp.rec Data as of 06-08-2018

Graph 1: Distribution of AFP Cases by Month, Pakistan 2013-2018*



* Afp.rec Data as of 06-08-2018

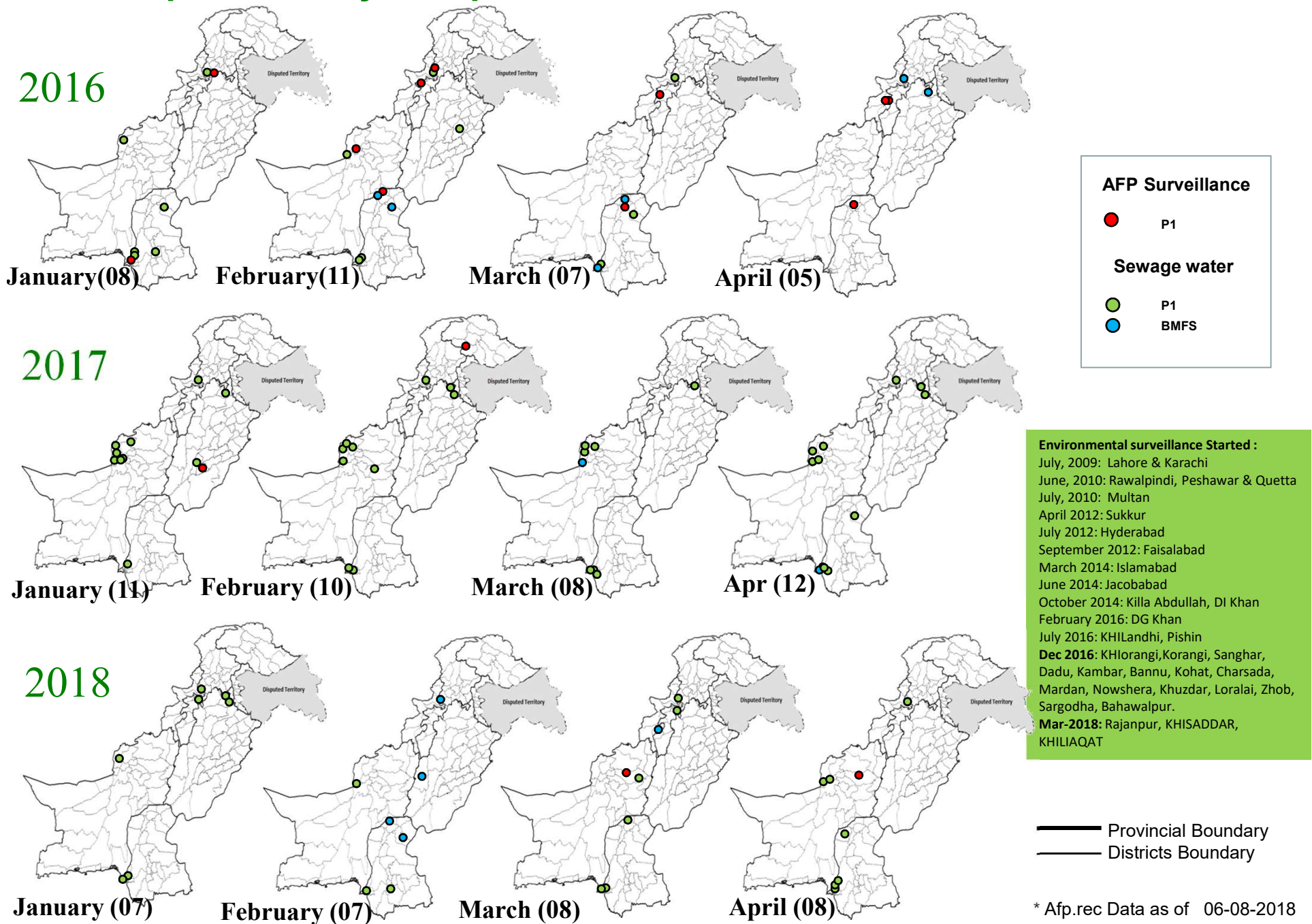
**Table 4: Distribution of AFP Cases By Week of Onset ^
Pakistan- 2017-2018* [Week number / Ending on]**

| PROVINCE | W 16 21 Apr 2018 | W 17 28 Apr 2018 | W 18 05 May 2018 | W 19 12 May 2018 | W 20 19 May 2018 | W 21 26 May 2018 | W 22 01 Jun 2018 | W 23 08 Jun 2018 | W 24 15 Jun 2018 | W 25 22 Jun 2018 | W 26 30 Jun 2018 | W 27 07 Jul 2018 | W 28 14 Jul 2018 | W 29 21 Jul 2018 | W 30 28 Jul 2018 |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PUNJAB | 115 | 98 | 130 | 133 | 104 | 109 | 98 | 103 | 94 | 90 | 76 | 103 | 79 | 69 | 5 |
| SINDH | 42 | 36 | 46 | 41 | 33 | 35 | 38 | 27 | 24 | 32 | 38 | 44 | 33 | 13 | 1 |
| KP-TD | 12 | 8 | 18 | 12 | 5 | 6 | 1 | 6 | 6 | 8 | 12 | 10 | 5 | 6 | 0 |
| BALUCHISTAN | 10 | 15 | 8 | 9 | 8 | 9 | 9 | 10 | 5 | 8 | 7 | 11 | 3 | 10 | 1 |
| AJK | 6 | 2 | 7 | 6 | 3 | 1 | 4 | 3 | 5 | 3 | 3 | 3 | 0 | 1 | 2 |
| GILGIT BILTISTAN | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 0 |
| ISLAMABAD | 1 | 2 | 2 | 1 | 0 | 0 | 2 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 0 |
| KPAKHTUNKHWA | 34 | 43 | 58 | 59 | 39 | 39 | 38 | 35 | 34 | 38 | 42 | 47 | 42 | 18 | 0 |
| PAKISTAN | 222 | 206 | 271 | 264 | 195 | 201 | 192 | 185 | 168 | 183 | 181 | 220 | 164 | 120 | 9 |

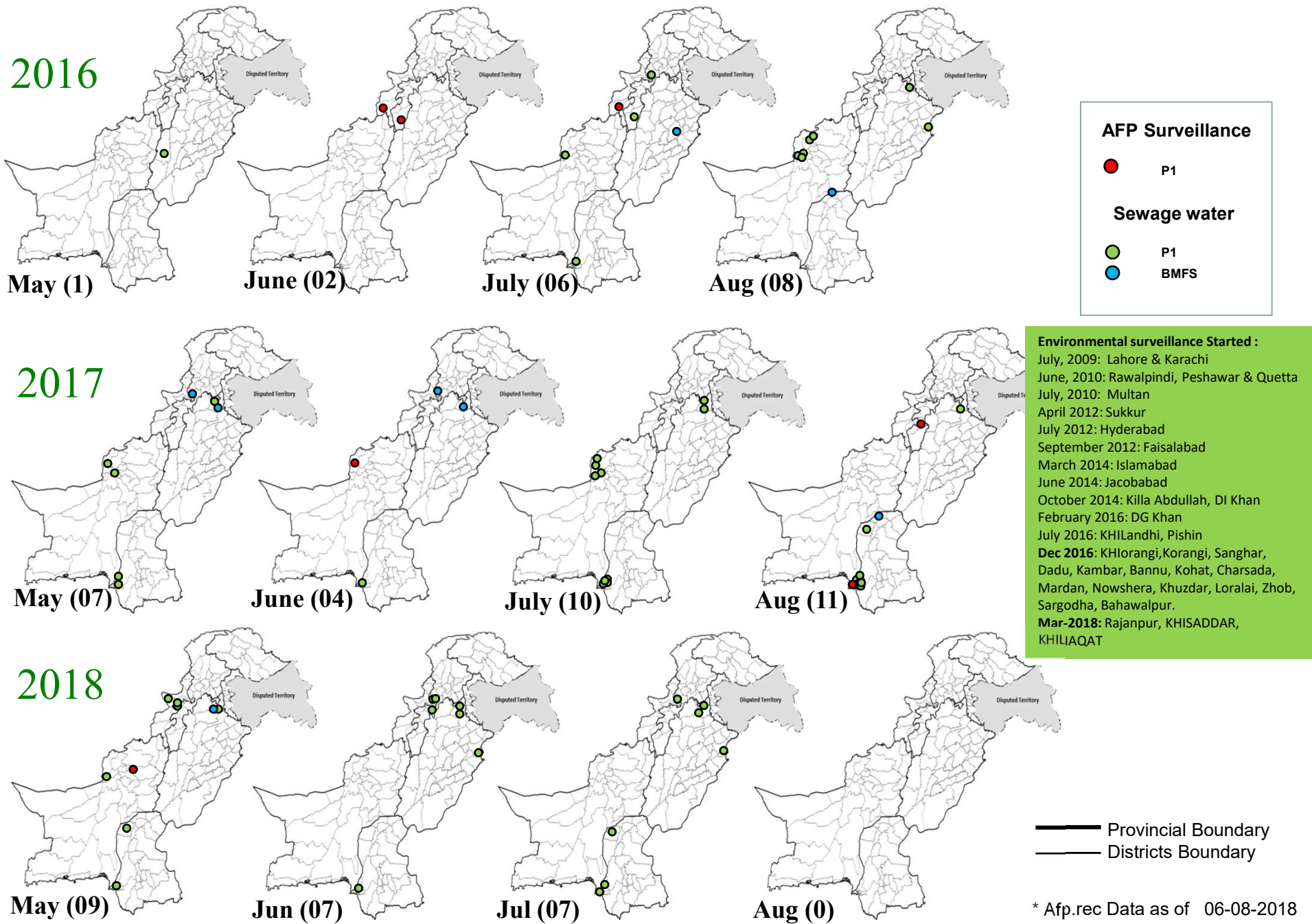
* Afp.rec & Afplab.rec: Data as of 06-08-2018

^ MMWR Epidemiological Weeks

Map 4: Monthly Comparison of Polio Cases/Isolates 2016-2018*

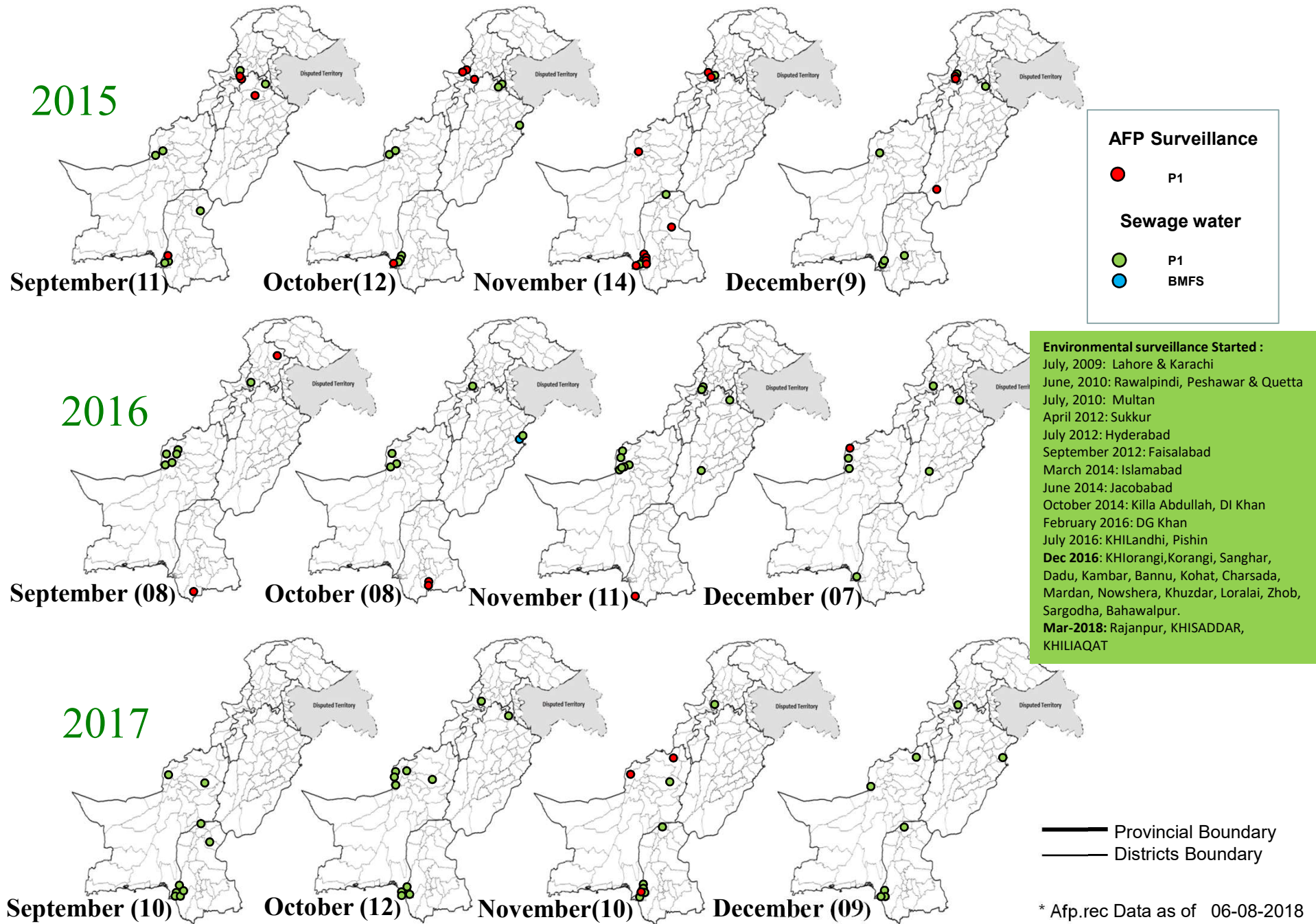


Map 4.1: Monthly Comparison of Polio Cases/Isolates 2016-2018*



* Afp.rec Data as of 06-08-2018

Map 4.2: Monthly Comparison of Polio Cases/Isolates 2015-2017*



* Afp.rec Data as of 06-08-2018

Table 5: Polio Eradication Update, Pakistan 2015-2018*

| Province/Region | Polio 1 | | | |
|------------------|-----------|-----------|-----------|-----------|
| | 2015 | 2016 | 2017 | 2018 |
| KP-TD | 16 | 02 | - | - |
| KP | 17 | 08 | 01 | - |
| SINDH | 12 | 08 | 02 | - |
| PUNJAB | 02 | - | 01 | - |
| BALUCHISTAN | 07 | 02 | 03 | 03 |
| AJK | - | - | - | - |
| Gilgit-Baltistan | - | - | 01 | - |
| ISLAMABAD | - | - | - | - |
| PAKISTAN | 54 | 20 | 08 | 03 |

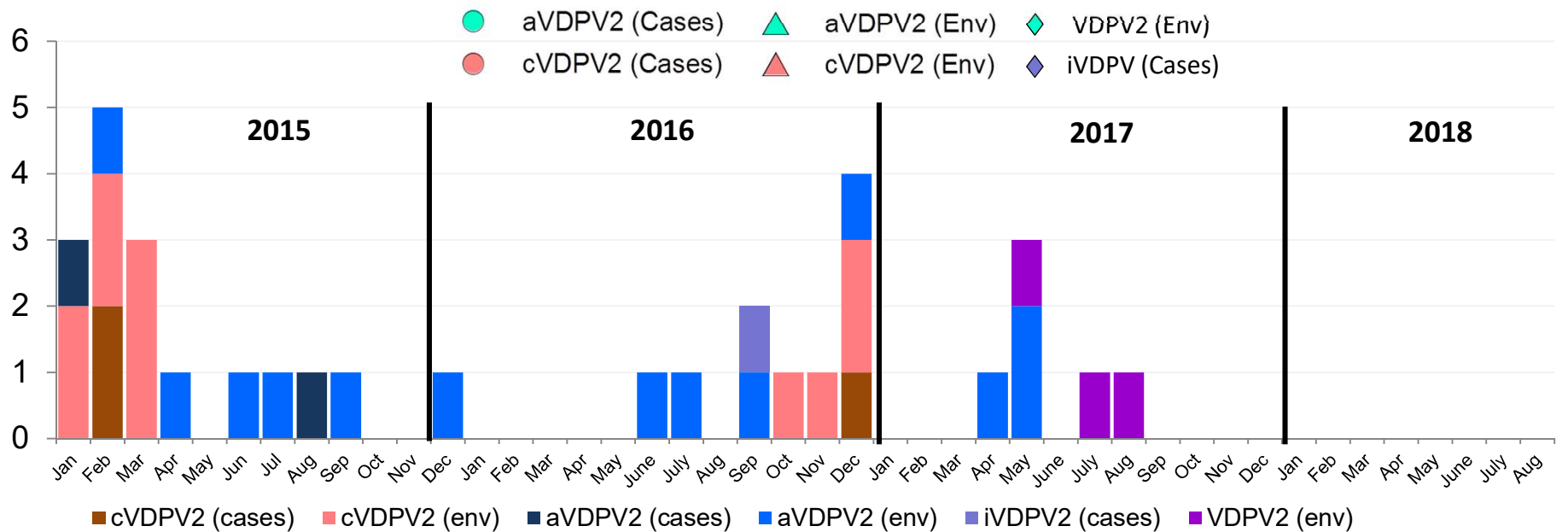
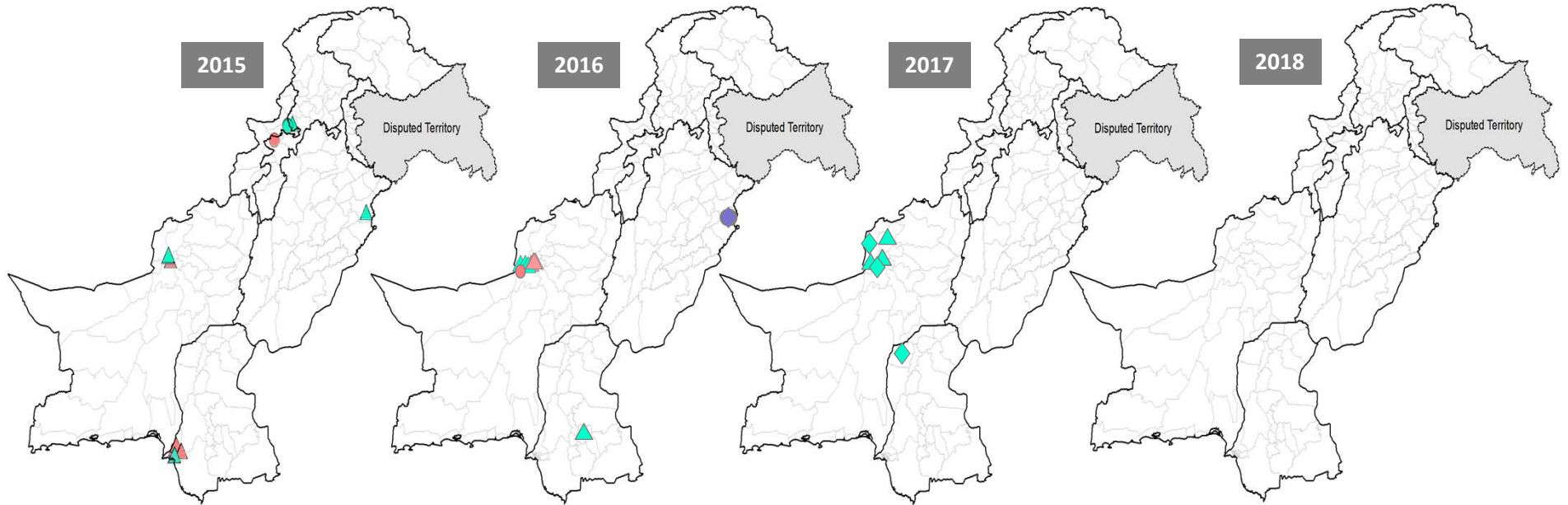


* Afp.rec Data as of 06-08-2018

VDPV2 isolates, 2014 to 2018*

| DISTRICT | 2014 | | | | 2015 | | | | 2016 | | | | | 2017 | | | | | 2018 | | | |
|---------------------|----------|----------|-----------|----------|----------|----------|----------|----------|---------|----------|----------|-----|----------|----------|-------|-----|----------|-------|---------|-------|-----|----------|
| | aVDPV-2 | | cVDPV-2 | | aVDPV-2 | | cVDPV-2 | | aVDPV-2 | | iVDPV-2 | | cVDPV-2 | | VDPV2 | | aVDPV-2 | | cVDPV-2 | | | |
| | Cases | Env | Cases | Env | Cases | Env | Cases | Env | Cases | Env | Cases | Env | Cases | Env | Cases | Env | Env | Cases | Env | Cases | Env | |
| JAFARABAD | | | | | | | | | | | | | | | | | | | | | | |
| MASTUNG | | | | | | | | | | | | | | | | | | | | | | |
| PISHIN | | | | | | | | | | | | | | | 1 | | | | | | | |
| QUETTA | | | | | 2 | | 1 | | | 3 | | | 1 | 4 | | | 2 | | | | | 1 |
| KABDULAH | | | | | | | | | | | | | | | | | | | | | | 1 |
| BALOCHISTAN | | | | | 2 | | 1 | | | 3 | | | 1 | 4 | | | 3 | | | | | 2 |
| KHYBER | 1 | | 2 | | 1 | | 1 | | | | | | | | | | | | | | | |
| MOHMAND | | | | | | | | | | | | | | | | | | | | | | |
| WAZIR-N | 2 | | 7 | | | | | | | | | | | | | | | | | | | |
| WAZIR-S | 1 | | | | | | | | | | | | | | | | | | | | | |
| KP-TD | 4 | | 17 | | 1 | | 1 | | | | | | | | | | | | | | | |
| FR BANNU | | | 8 | | | | | | | | | | | | | | | | | | | |
| BANNU | | | 1 | | | | | | | | | | | | | | | | | | | |
| HANGU | | | | | | | 1 | | | | | | | | | | | | | | | |
| LAKKIMRWT | | | 1 | | | | | | | | | | | | | | | | | | | |
| PESHAWAR | | | 1 | | | | 1 | | | | | | | | | | | | | | | |
| KPAKHTUNKHWA | | | 3 | | 1 | | 1 | | | | | | | | | | | | | | | |
| LAHORE | 1 | | | | 1 | | | | | 1 | | | | | | | | | | | | |
| PUNJAB | 1 | | | | 1 | | | | | 1 | | | | | | | | | | | | |
| KAMBAR | | | | | | | | | | | | | | | | | | | | | | 1 |
| KHIGADAP | | 2 | 1 | 7 | | | | | | | | | | | | | | | | | | 6 |
| KHIGIQBAL | | 1 | | | | | 2 | | | | | | | | | | | | | | | |
| KHIGULBERG | | | | | | | 1 | | | | | | | | | | | | | | | |
| HYDERABAD | | | | | | | | | | 1 | | | | | | | | | | | | |
| SINDH | | 3 | 1 | 7 | 1 | 2 | 6 | | | 1 | | | | | | | | | | | | 1 |
| PAKISTAN | 5 | 3 | 21 | 7 | 2 | 6 | 2 | 7 | | 4 | 1 | | 1 | 4 | | | 3 | | | | | 3 |

VDPV isolates (Cases + ES), 2015 – 2018*



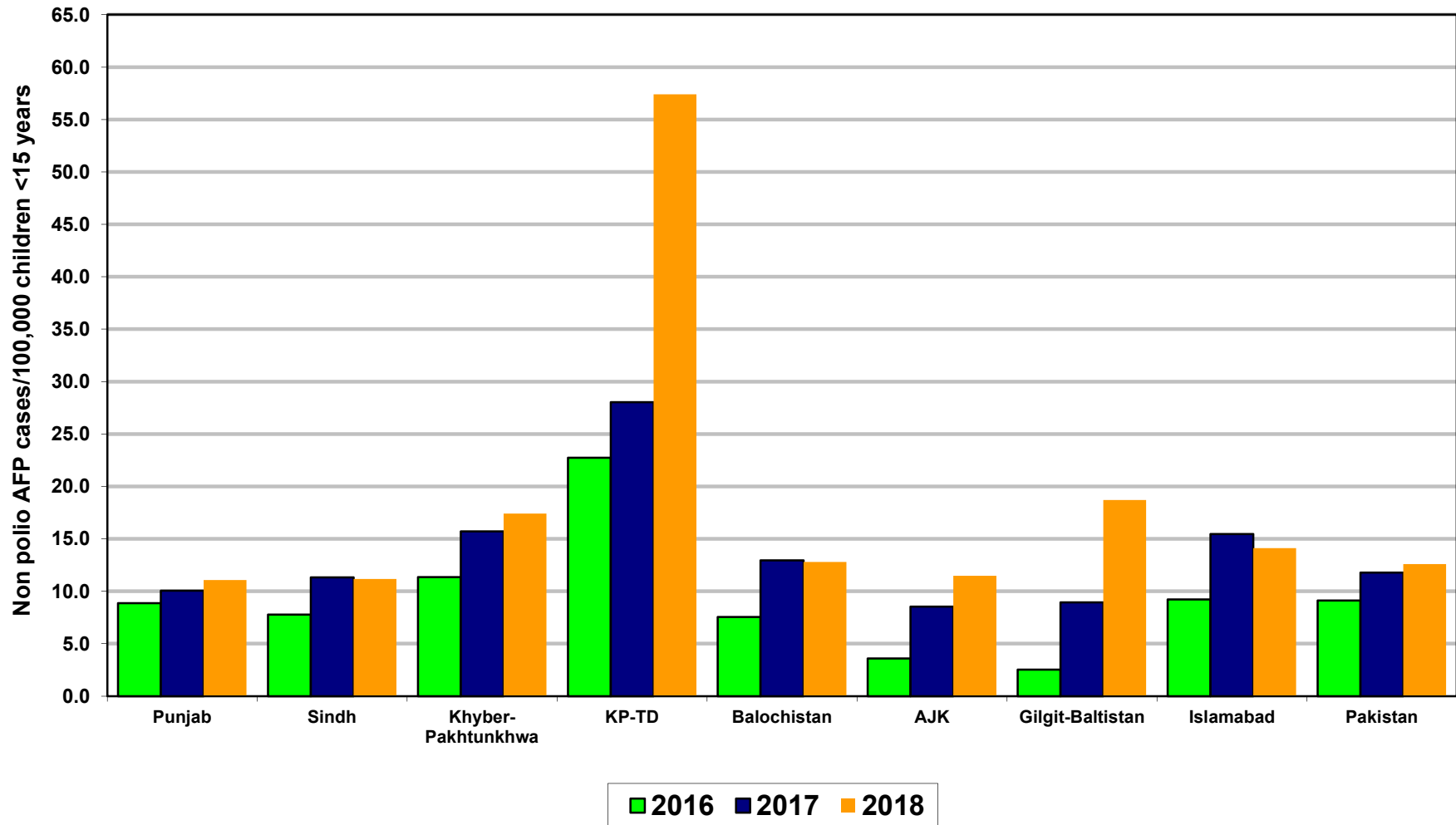
* Afp.rec Data as of 06-08-2018

Table 6: Vaccination status of non polio AFP cases age 6-59 months 2016-2018*

| REGION | 0 dose | | | 1-2 doses | | | 3 doses | | | 4-6 doses | | | 7+ doses | | |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|
| | 16 | 17 | 18 | 16 | 17 | 18 | 16 | 17 | 18 | 16 | 17 | 18 | 16 | 17 | 18 |
| Central Punjab | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 1% | 2% | 3% | 3% | 2% | 97% | 96% | 97% |
| North Punjab | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 1% | 2% | 2% | 2% | 98% | 97% | 96% |
| South Punjab | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 2% | 1% | 98% | 98% | 98% |
| PUNJAB | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 1% | 2% | 2% | 1% | 97% | 97% | 97% |
| Karachi | 0% | 1% | 0% | 1% | 1% | 0% | 1% | 1% | 1% | 5% | 7% | 4% | 93% | 91% | 94% |
| North Sindh | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 3% | 3% | 94% | 97% | 97% |
| South Sindh | 0% | 0% | 1% | 1% | 0% | 0% | 1% | 1% | 0% | 6% | 4% | 1% | 92% | 95% | 98% |
| SINDH | 0% | 0% | 0% | 1% | 0% | 0% | 1% | 0% | 1% | 5% | 4% | 3% | 93% | 95% | 96% |
| Central Khyber Pakhtunkhwa | 0% | 0% | 0% | 0% | 1% | 0% | 0% | 0% | 0% | 1% | 1% | 1% | 99% | 98% | 98% |
| North Khyber Pakhtunkhwa | 1% | 0% | 0% | 1% | 1% | 0% | 0% | 1% | 0% | 2% | 3% | 2% | 96% | 94% | 98% |
| South Khyber Pakhtunkhwa | 0% | 0% | 1% | 1% | 2% | 0% | 1% | 2% | 1% | 1% | 4% | 3% | 96% | 92% | 95% |
| Khyber Pakhtunkhwa | 0% | 0% | 0% | 1% | 1% | 0% | 0% | 1% | 0% | 1% | 3% | 2% | 97% | 95% | 97% |
| KP-TD | 0% | 0% | 0% | 2% | 0% | 0% | 1% | 1% | 0% | 10% | 8% | 3% | 88% | 91% | 96% |
| Rest of Balochistan | 7% | 3% | 0% | 7% | 9% | 3% | 2% | 4% | 0% | 23% | 13% | 16% | 62% | 71% | 81% |
| North Balochistan | 0% | 4% | 0% | 3% | 6% | 3% | 3% | 2% | 0% | 10% | 10% | 6% | 83% | 78% | 92% |
| Quetta Block | 1% | 0% | 5% | 1% | 1% | 0% | 4% | 0% | 0% | 10% | 7% | 0% | 83% | 92% | 95% |
| BALUCHISTAN | 2% | 2% | 2% | 3% | 4% | 2% | 3% | 3% | 0% | 13% | 10% | 8% | 80% | 82% | 89% |
| PAKISTAN | 0% | 0% | 0% | 1% | 1% | 0% | 1% | 1% | 1% | 4% | 4% | 2% | 95% | 95% | 97% |

* Afp.rec Data as of 06-08-2018

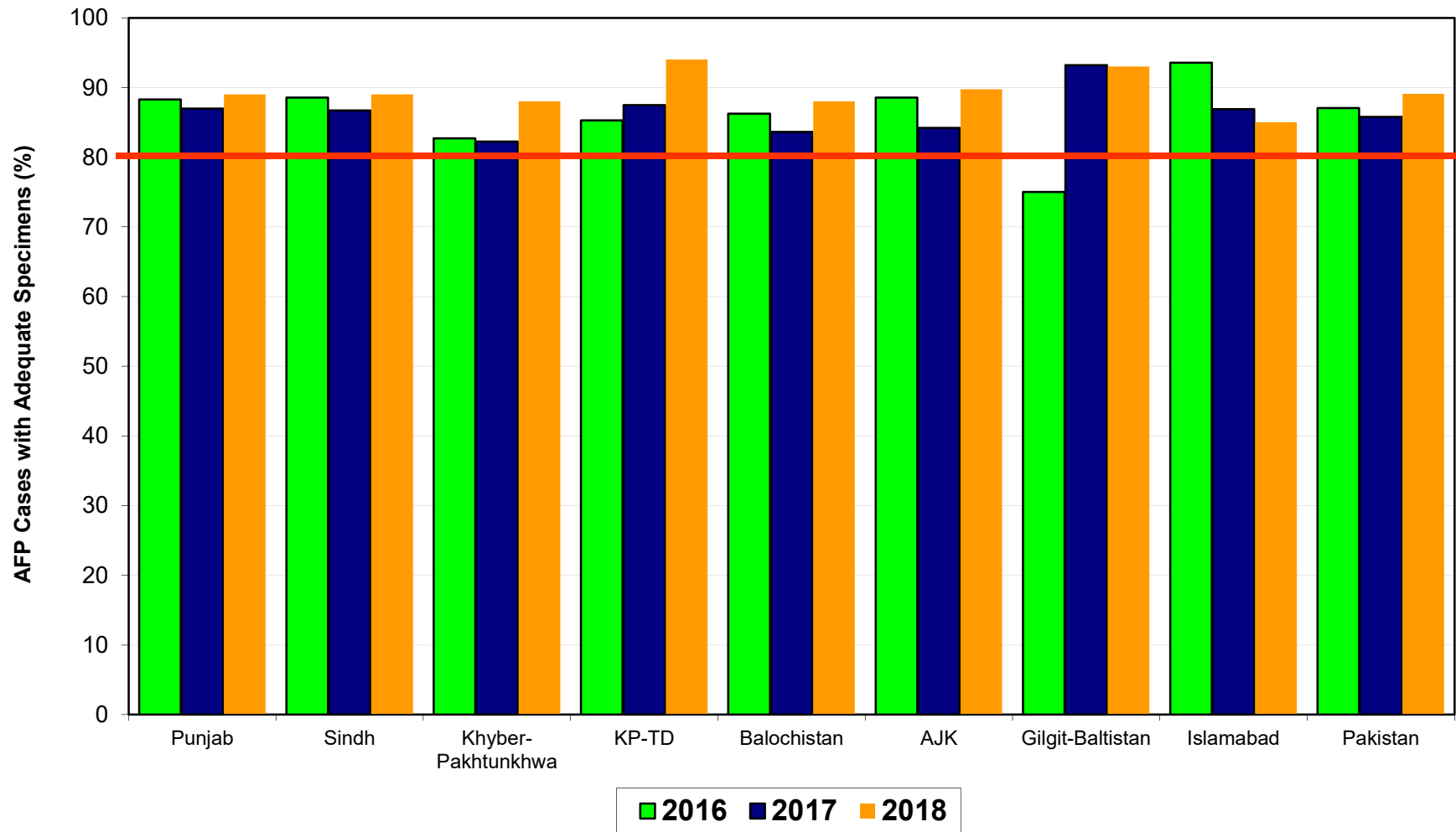
Non Polio AFP Rate By Province/Regions, 2016-2018*



Minimum Target Non-Polio AFP Rate for Tier-1 and Tier-2 districts is 6/100000 < 15 years of the age
 Minimum Target Non-Polio AFP Rate for Tier-3 and Tier-4 districts is 3/100000 < 15 years of the age

* Afp.rec Data as of 06-08-2018

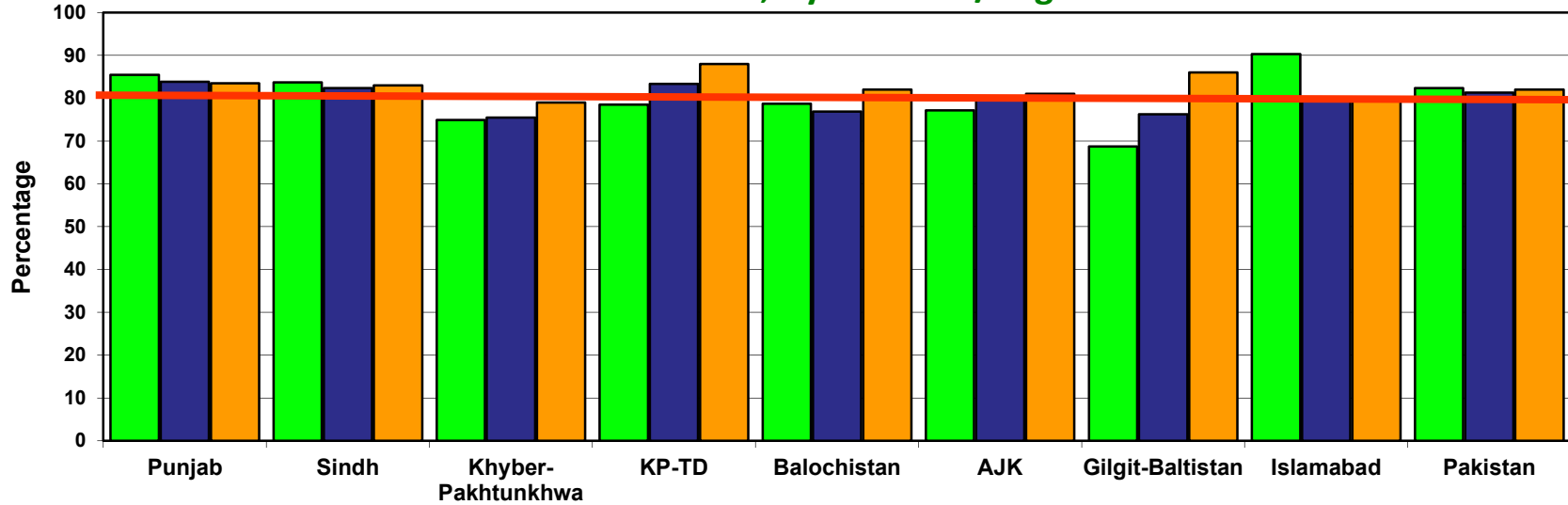
Percent AFP Cases with Adequate Specimens By Province/Regions, 2016-2018*



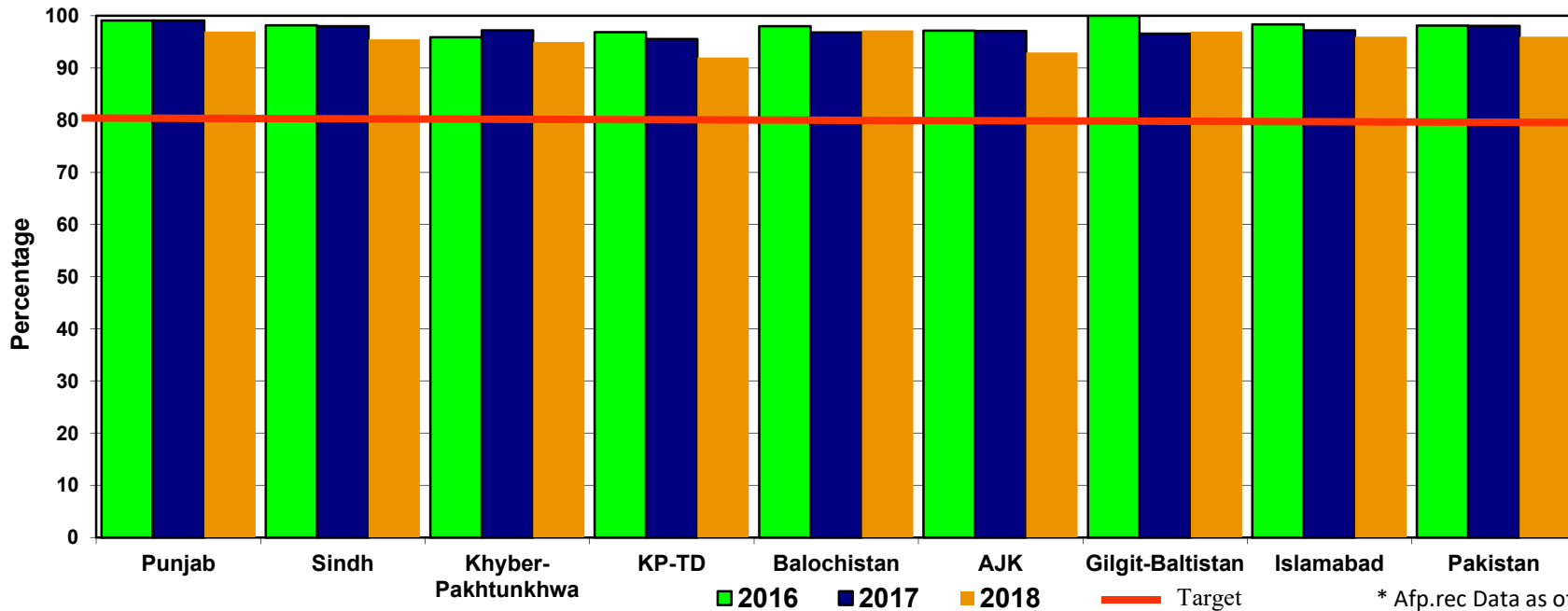
* Afp.rec Data as of 06-08-2018

— Target Adequate Sample cases = 80%

**Graph 5: Percent AFP Cases Notified within 07 days of paralysis onset
2016 - 2018*; By Province/Regions**



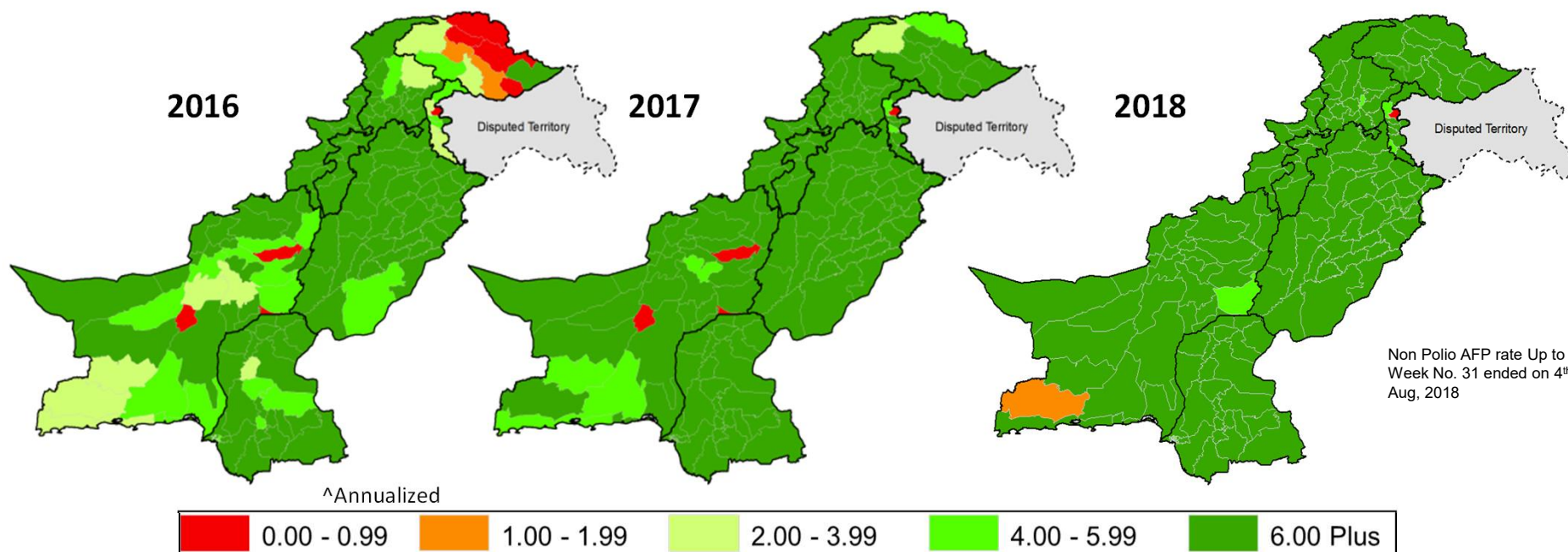
**Graph 6: Percent AFP Cases Investigated within 48 hours of notification
2016 ~ 2018*; By Province/Regions**



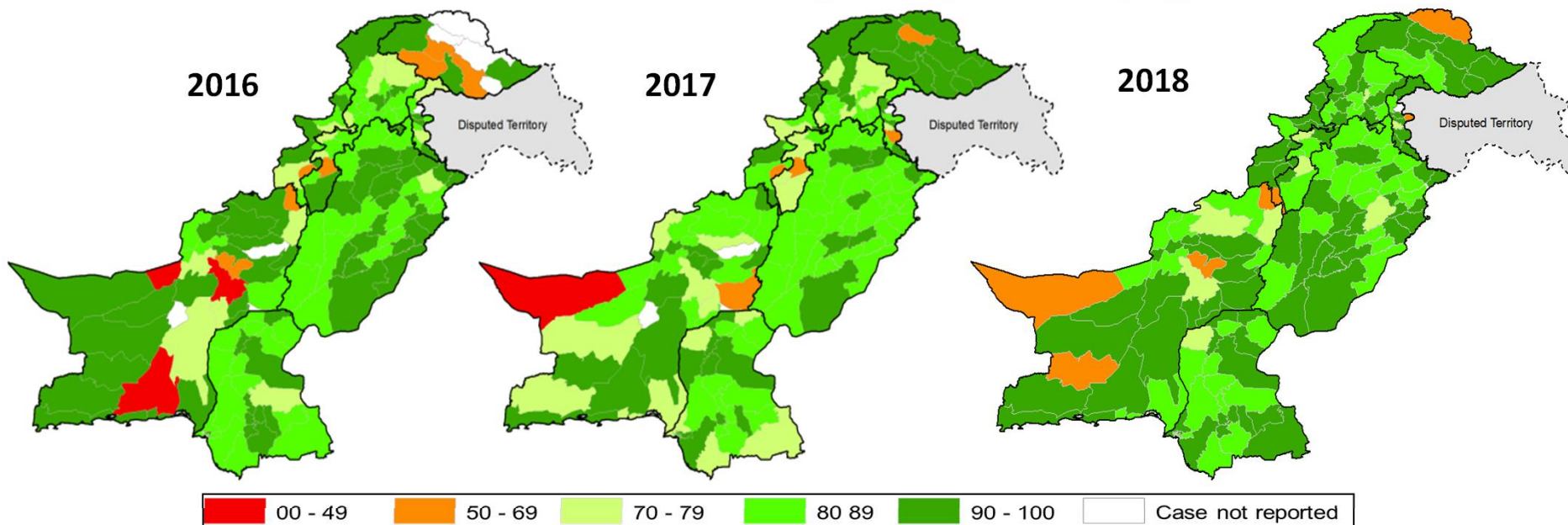
2016 2017 2018 Target

* Afp.rec Data as of 06-08-2018

Non-Polio ^ AFP Rate by District



Percent AFP Cases with Adequate Specimens, by District



**Table 7.4: AFP CASES PENDING FOR CLASSIFICATION
WITH DATE OF ONSET MORE THAN 90 DAYS* 2018 Page (1/3)**

| S. No | DISTRICT | TEHSIL | EPID | SEX | AGE | DONSET | DOSE€ | DSTOOL1 | DSTOOL2 | LAB | FEVER | ASVM | PROG | FUP | PEND (DAYS) |
|-------|------------|-----------------|--------------|-----|-----|----------|-------|-------------------|----------|------|-------|------|------|------|-------------|
| 1 | BUNER | BUNER | KP/22/18/012 | M | 36 | 07-02-18 | 7+ | 06-04-18 | 07-04-18 | NVI | UK | UK | UK | | 179 |
| 2 | BUNER | BUNER | KP/22/18/015 | M | 8 | 03-05-18 | 7+ | 25-05-18 | 25-05-18 | NVI | UK | UK | UK | | 94 |
| 3 | BAHWLNAGAR | MINCHANABA | PB/73/18/001 | M | 36 | 05-01-18 | 7+ | DIED BEFORE STOOL | | | N | N | Y | DIED | 212 |
| 4 | BAHWLNAGAR | BAHAWALNAGAR | PB/73/18/042 | F | 84 | 04-05-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 93 |
| 5 | CHINIOT | LALIAN | PB/54/18/027 | M | 15 | 30-04-18 | 7+ | 06-05-18 | | EV | Y | N | Y | DIED | 97 |
| 6 | FAISALABAD | FSD CITY | PB/51/18/133 | M | 25 | 17-03-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | Y | 141 |
| 7 | GUJRAT | KHARIAN | PB/23/18/038 | F | 58 | 11-03-18 | 7+ | DIED BEFORE STOOL | | | N | N | Y | DIED | 147 |
| 8 | GUJRAT | GUJRAT | PB/23/18/066 | M | 63 | 03-05-18 | 7+ | 25-05-18 | 26-05-18 | NVI | Y | N | Y | Y | 94 |
| 9 | KASUR | KASUR | PB/32/18/047 | M | 18 | 01-05-18 | 7+ | 04-06-18 | 05-06-18 | EV | Y | N | Y | Y | 96 |
| 10 | KASUR | KASUR | PB/32/18/052 | F | 20 | 22-02-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | Y | 164 |
| 11 | KHUSHAB | NOORPUR THUL | PB/42/18/021 | M | 156 | 17-04-18 | 3 | 09-05-18 | 10-05-18 | NVI | Y | Y | Y | Y | 110 |
| 12 | KHUSHAB | NOORPUR THUL | PB/42/18/020 | M | 178 | 29-04-18 | 7+ | 26-05-18 | 28-05-18 | NVI | Y | N | Y | | 98 |
| 13 | LAHORE | NISHTER TOWN | PB/31/18/170 | F | 102 | 04-05-18 | 7+ | 31-05-18 | 01-06-18 | NVI | N | N | Y | Y | 93 |
| 14 | MBDIN | M.B DIN | PB/24/18/019 | F | 19 | 04-02-18 | 7+ | 15-03-18 | 17-03-18 | NVI | UK | N | Y | DIED | 182 |
| 15 | MBDIN | PHALIA | PB/24/18/024 | M | 19 | 10-03-18 | 7+ | 29-03-18 | 30-03-18 | NVI | Y | Y | Y | Y | 148 |
| 16 | MIANWALI | EISAKHAIL | PB/43/18/026 | M | 24 | 02-04-18 | 3 | 20-04-18 | 21-04-18 | NVI | Y | Y | Y | Y | 125 |
| 17 | MUZFARGARH | ALIPUR | PB/83/18/136 | M | 18 | 02-05-18 | 7+ | 28-06-18 | 30-06-18 | EV | Y | Y | Y | Y | 95 |
| 18 | RAJANPUR | JAM PUR | PB/82/18/081 | M | 22 | 05-04-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | | 122 |
| 19 | RAJANPUR | JAM PUR | PB/82/18/087 | M | 20 | 16-04-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | Y | 111 |
| 20 | RYKHAN | RAHIMYAR KHAN | PB/72/18/098 | M | 27 | 13-03-18 | 7+ | 20-04-18 | 21-04-18 | NVI | N | Y | Y | Y | 145 |
| 21 | SARGODHA | SILANWALI | PB/41/18/025 | M | 24 | 08-02-18 | 7+ | 27-03-18 | 28-03-18 | NVI | Y | Y | Y | Y | 178 |
| 22 | SARGODHA | SARGODHA | PB/41/18/029 | F | 24 | 22-03-18 | 7+ | 11-04-18 | 12-04-18 | EV | N | N | Y | Y | 136 |
| 23 | BADIN | TANDO BAGO | SD/23/18/021 | M | 18 | 17-03-18 | 7+ | 31-03-18 | 01-04-18 | NVI | Y | Y | Y | Y | 141 |
| 24 | GHOTKI | KHAN GARH | SD/42/18/029 | F | 96 | 26-03-18 | 7+ | DIED BEFORE STOOL | | | Y | N | UK | DIED | 132 |
| 25 | HYDERABAD | HYDERABAD RURAL | SD/21/18/025 | M | 59 | 22-03-18 | 7+ | 06-04-18 | 07-04-18 | NVI | Y | Y | Y | Y | 136 |
| 26 | JACOBABAD | THULL | SD/53/18/018 | M | 144 | 01-01-18 | 7+ | LATE NOTIFIED | | | UK | UK | UK | Y | 216 |
| 27 | KAMBAR | KAMBAR | SD/55/18/040 | M | 9 | 19-03-18 | 7+ | LATE NOTIFIED | | | N | Y | Y | Y | 139 |
| 28 | KASHMORE | KASHMORE | SD/54/18/015 | F | 80 | 31-03-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 127 |
| 29 | KHAIRPUR | KINGRI | SD/43/18/039 | F | 24 | 31-03-18 | 7+ | 11-04-18 | | NVI | Y | Y | Y | DIED | 127 |
| 30 | KHIGADAP | GADAP | SD/63/18/014 | M | 21 | 06-01-18 | 7+ | LATE NOTIFIED | | | Y | Y | UK | Y | 211 |
| 31 | KHIKORANGI | KORANGI | SD/68/18/014 | M | 120 | 02-04-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 125 |
| 32 | KHINNAZIM | NNAZIM | SD/74/18/012 | M | 6 | 15-03-18 | 7+ | 12-04-18 | 13-04-18 | VACC | Y | Y | Y | Y | 143 |
| 33 | KHISITE | SITE | SD/78/18/012 | M | 11 | 03-05-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 94 |
| 34 | LARKANA | DOKRI | SD/51/18/034 | M | 60 | 18-03-18 | 7+ | 08-05-18 | 09-05-18 | NVI | N | Y | Y | Y | 140 |
| 35 | THATTA | GHOBA BARI | SD/22/18/018 | M | 84 | 17-04-18 | 7+ | 22-05-18 | 23-05-18 | NVI | N | Y | Y | Y | 110 |
| 36 | UMERKOT | UMERKOT | SD/34/18/031 | M | 61 | 16-04-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 111 |
| 37 | ABOTABAD | HAWALLIAN | KP/10/18/014 | F | 119 | 26-02-18 | 7+ | 13-03-18 | 14-03-18 | NVI | Y | Y | Y | Y | 160 |
| 38 | ABOTABAD | ABBOTTABAD | KP/10/18/028 | M | 48 | 06-05-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 91 |
| 39 | ABOTABAD | ABBOTTABAD | KP/10/18/034 | F | 72 | 01-05-18 | 7+ | 26-05-18 | 27-05-18 | NVI | Y | N | Y | | 96 |
| 40 | BANNU | BANNU | KP/61/18/020 | M | 35 | 11-04-18 | 7+ | 02-05-18 | 05-05-18 | NVI | Y | N | Y | Y | 116 |
| 41 | BATAGRAM | BATTAGRAM | KP/11/18/013 | F | 84 | 15-01-18 | 7+ | LATE NOTIFIED | | | Y | N | Y | Y | 202 |
| 42 | BATAGRAM | ALLAI | KP/11/18/020 | M | 13 | 01-04-18 | 7+ | LATE NOTIFIED | | | Y | N | UK | Y | 126 |

* Afp.rec Data as of 06-08-2018

€ Based on recall of parents

60 days Follow-up not done

FUP = Residual Weakness at 60 days follow up.

**Table 7.4: AFP CASES PENDING FOR CLASSIFICATION
WITH DATE OF ONSET MORE THAN 90 DAYS* 2018 Page (2/3)**

| S. No | DISTRICT | TEHSIL | EPID | SEX | AGE | DONSET | DOSESE | DSTOOL1 | DSTOOL2 | LAB | FEVER | ASVM | PROG | FUP | PEND (DAYS) |
|-------|-----------|---------------|--------------|-----|-----|----------|--------|-------------------|----------|------|-------|------|------|------|-------------|
| 43 | CHARSADA | CHARSADDA | KP/31/18/051 | M | 18 | 03-04-18 | 7+ | 18-04-18 | 19-04-18 | NVI | Y | Y | Y | Y | 124 |
| 44 | CHARSADA | CHARSADDA | KP/31/18/055 | F | 42 | 18-04-18 | 7+ | 25-04-18 | | NVI | Y | N | Y | DIED | 109 |
| 45 | CHARSADA | TANGI | KP/31/18/059 | M | 16 | 08-04-18 | 7+ | 25-04-18 | 26-04-18 | NVI | Y | Y | UK | Y | 119 |
| 46 | CHARSADA | CHARSADDA | KP/31/18/060 | M | 96 | 03-05-18 | 7+ | 20-05-18 | 22-05-18 | NVI | Y | N | Y | Y | 94 |
| 47 | CHITRAL | CHITRAL | KP/21/18/019 | F | 156 | 26-03-18 | 7+ | LATE NOTIFIED | | | Y | N | Y | | 132 |
| 48 | DIKHAN | PHARPUR | KP/60/18/037 | M | 29 | 15-04-18 | 7+ | 19-05-18 | 21-05-18 | EV | Y | Y | Y | Y | 112 |
| 49 | DIRLOWER | SAMAR BAGH | KP/23/18/060 | M | 27 | 27-03-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | Y | 131 |
| 50 | DIRLOWER | TIMERGARA | KP/23/18/066 | M | 18 | 25-04-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | Y | 102 |
| 51 | DIRUPPER | DIR | KP/25/18/039 | M | 36 | 02-04-18 | 7+ | LATE NOTIFIED | | | N | Y | N | | 125 |
| 52 | HANGU | THALL | KP/54/18/020 | F | 15 | 05-05-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 92 |
| 53 | KOHAT | KOHAT | KP/50/18/034 | M | 8 | 22-03-18 | 7+ | LATE NOTIFIED | | | N | N | Y | | 136 |
| 54 | KOHISTAN | DASSU | KP/13/18/006 | M | 164 | 25-02-18 | 7+ | 21-03-18 | 22-03-18 | NVI | Y | N | N | Y | 161 |
| 55 | LAKKIMRWT | SERAI NAURANG | KP/62/18/019 | M | 10 | 20-02-18 | 7+ | 25-03-18 | 26-03-18 | EV | Y | Y | Y | Y | 166 |
| 56 | LAKKIMRWT | LAKKI MARWAT | KP/62/18/042 | F | 12 | 07-04-18 | 7+ | 23-05-18 | 24-05-18 | NVI | Y | Y | Y | Y | 120 |
| 57 | LAKKIMRWT | LAKKI MARWAT | KP/62/18/035 | M | 20 | 28-02-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | Y | 158 |
| 58 | LAKKIMRWT | LAKKI MARWAT | KP/62/18/052 | M | 21 | 23-03-18 | 7+ | LATE NOTIFIED | | | UK | Y | Y | Y | 135 |
| 59 | LAKKIMRWT | LAKKI MARWAT | KP/62/18/056 | F | 12 | 15-04-18 | 7+ | LATE NOTIFIED | | | UK | N | Y | Y | 112 |
| 60 | MARDAN | MARDAN | KP/40/18/036 | M | 6 | 04-02-18 | 7+ | 08-03-18 | 09-03-18 | VACC | N | Y | Y | Y | 182 |
| 61 | MARDAN | TAKHT BAH | KP/40/18/067 | M | 37 | 07-03-18 | 7+ | 24-04-18 | 25-04-18 | EV | Y | N | Y | Y | 151 |
| 62 | MARDAN | MARDAN | KP/40/18/079 | M | 57 | 24-04-18 | 7+ | 10-05-18 | 11-05-18 | NVI | Y | Y | Y | Y | 103 |
| 63 | MARDAN | MARDAN | KP/40/18/080 | M | 120 | 20-04-18 | 7+ | 11-05-18 | 13-05-18 | NVI | N | Y | Y | Y | 107 |
| 64 | MARDAN | MARDAN | KP/40/18/084 | M | 101 | 13-04-18 | 7+ | 17-05-18 | 18-05-18 | EV | Y | Y | Y | Y | 114 |
| 65 | NOWSHERA | NOWSHERA | KP/32/18/038 | M | 18 | 20-04-18 | 7+ | 04-05-18 | 05-05-18 | NVI | Y | Y | N | Y | 107 |
| 66 | NOWSHERA | NOWSHERA | KP/32/18/051 | M | 13 | 27-04-18 | 7+ | 06-06-18 | 07-06-18 | EV | Y | Y | Y | Y | 100 |
| 67 | NOWSHERA | CAMPS | KP/32/18/061 | F | 42 | 05-05-18 | 7+ | 27-06-18 | 28-06-18 | NVI | Y | Y | Y | Y | 92 |
| 68 | PESHAWAR | PESHAWAR | KP/30/18/064 | M | 36 | 06-02-18 | 7+ | 18-03-18 | 19-03-18 | VACC | Y | Y | Y | Y | 180 |
| 69 | PESHAWAR | PESHAWAR | KP/30/18/109 | F | 9 | 12-04-18 | 7+ | 08-05-18 | | NVI | N | N | UK | DIED | 115 |
| 70 | PESHAWAR | PESHAWAR | KP/30/18/113 | M | 16 | 03-04-18 | 7+ | 12-05-18 | 13-05-18 | EV | N | Y | Y | Y | 124 |
| 71 | PESHAWAR | PESHAWAR | KP/30/18/161 | M | 40 | 16-03-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | Y | 142 |
| 72 | SWABI | RAZAR | KP/41/18/069 | F | 15 | 18-04-18 | 7+ | LATE NOTIFIED | | | N | Y | Y | Y | 109 |
| 73 | SWABI | LAHORE | KP/41/18/074 | F | 96 | 11-04-18 | 0 | LATE NOTIFIED | | | N | Y | N | Y | 116 |
| 74 | SWAT | CHARBAGH | KP/24/18/034 | M | 11 | 04-04-18 | 7+ | 20-04-18 | 21-04-18 | VACC | Y | Y | Y | Y | 123 |
| 75 | TANK | TANK | KP/63/18/019 | M | 11 | 27-04-18 | 7+ | LATE NOTIFIED | | | N | Y | Y | | 100 |
| 76 | CHAGHAI | DALBANDIN | BN/13/18/004 | M | 42 | 23-04-18 | 6 | 07-05-18 | 08-05-18 | EV | Y | Y | Y | Y | 104 |
| 77 | KABDULAH | CHAMAN | BN/14/18/005 | F | 12 | 07-02-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 179 |
| 78 | KHARAN | KHARAN | BN/52/18/004 | F | 36 | 31-01-18 | 7+ | LATE NOTIFIED | | | UK | UK | N | | 186 |
| 79 | SOHBATPUR | SOHBAT PUR | BN/66/18/004 | M | 48 | 16-03-18 | 7+ | 25-04-18 | 26-04-18 | NVI | Y | Y | Y | Y | 142 |
| 80 | BAGH | BAGH | AJ/50/18/004 | F | 66 | 10-02-18 | 7+ | 21-02-18 | 26-02-18 | NVI | N | Y | UK | Y | 176 |
| 81 | HAVELI | HAVAILI | AJ/51/18/003 | M | 14 | 04-04-18 | 7+ | 09-04-18 | | NVI | Y | Y | Y | DIED | 123 |
| 82 | KOTLI | FATHEH PUR | AJ/30/18/015 | M | 44 | 30-04-18 | 7+ | 08-06-18 | | NVI | N | Y | Y | Y | 97 |
| 83 | POONCH | ABBASPUR | AJ/40/18/007 | M | 24 | 20-01-18 | 7+ | 07-02-18 | 08-02-18 | NVI | Y | Y | Y | Y | 197 |
| 84 | POONCH | THORAR | AJ/40/18/016 | M | 115 | 22-01-18 | 7+ | 23-03-18 | 24-03-18 | NVI | N | N | N | Y | 195 |

* Afp.rec Data as of 06-08-2018

€ Based on recall of parents

60 days Follow-up not done

FUP = Residual Weakness at 60 days follow up.

**Table 7.4: AFP CASES PENDING FOR CLASSIFICATION
WITH DATE OF ONSET MORE THAN 90 DAYS* 2018 Page (3/3)**

| S. No | DISTRICT | TEHSIL | EPID | SEX | AGE | DONSET | DOSE€ | DSTOOL1 | DSTOOL2 | LAB | FEVER | ASYM | PROG | FUP | PEND (DAYS) |
|-------|----------|--------------|--------------|-----|-----|----------|-------|-------------------|----------|------|-------|------|------|------|-------------|
| 85 | POONCH | HAJIRA | AJ/40/18/023 | M | 3 | 17-01-18 | 5 | LATE NOTIFIED | | | N | Y | Y | Y | 200 |
| 86 | SUDNUTI | BALUCH | AJ/57/18/004 | F | 156 | 04-01-18 | 7+ | 27-01-18 | 29-01-18 | NVI | N | N | Y | Y | 213 |
| 87 | SUDNUTI | PALLANDRI | AJ/57/18/015 | F | 96 | 02-05-18 | 7+ | 16-05-18 | 20-05-18 | NVI | N | N | Y | Y | 95 |
| 88 | HUNZA | ALIABAD | GB/72/18/001 | F | 12 | 15-01-18 | 7+ | 04-03-18 | 05-03-18 | NVI | UK | Y | UK | | 202 |
| 89 | KHYBER | BARA | FT/34/18/031 | M | 10 | 15-02-18 | 7+ | 14-03-18 | 15-03-18 | NVI | Y | Y | Y | Y | 171 |
| 90 | KHYBER | JAMRUD | FT/34/18/032 | F | 15 | 10-02-18 | 7+ | 18-03-18 | 19-03-18 | NVI | N | Y | Y | Y | 176 |
| 91 | KURRAM | LOWER KURRAM | FT/52/18/008 | F | 12 | 18-02-18 | 6 | 27-03-18 | 28-03-18 | VACC | N | N | Y | Y | 168 |
| 92 | WAZIR-N | MIR ALI | FT/64/18/019 | F | 12 | 13-02-18 | 7+ | DIED BEFORE STOOL | | | Y | N | Y | DIED | 173 |
| 93 | WAZIR-N | MIRAN SHAH | FT/64/18/028 | M | 10 | 08-04-18 | 7+ | LATE NOTIFIED | | | Y | Y | Y | Y | 119 |

* Afp.rec Data as of 06-08-2018

€ Based on recall of parents

60 days Follow-up not done

FUP = Residual Weakness at 60 days follow up.