



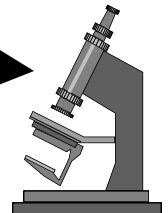
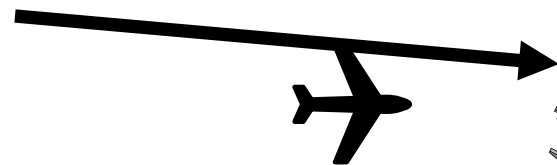
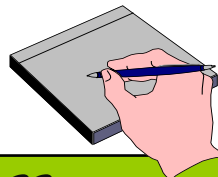
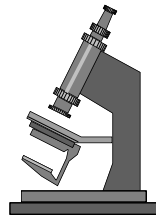
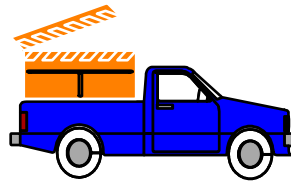
World Health Organization



*Republic of Sudan*

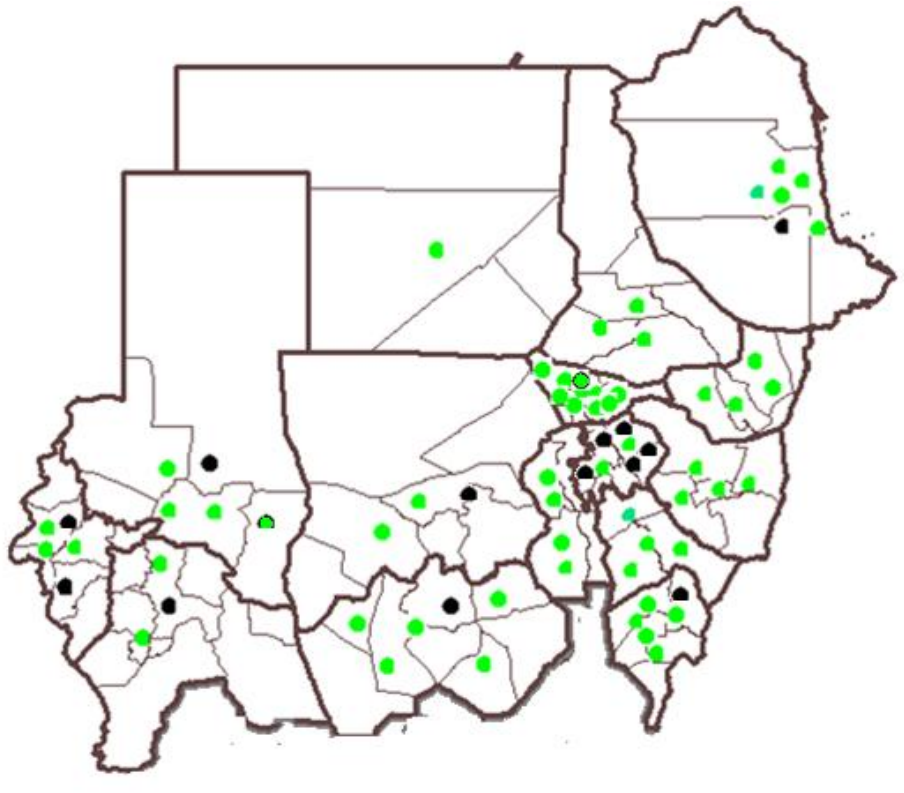


**Weekly AFP surveillance report  
week 12  
Ending on 25 March 2012**

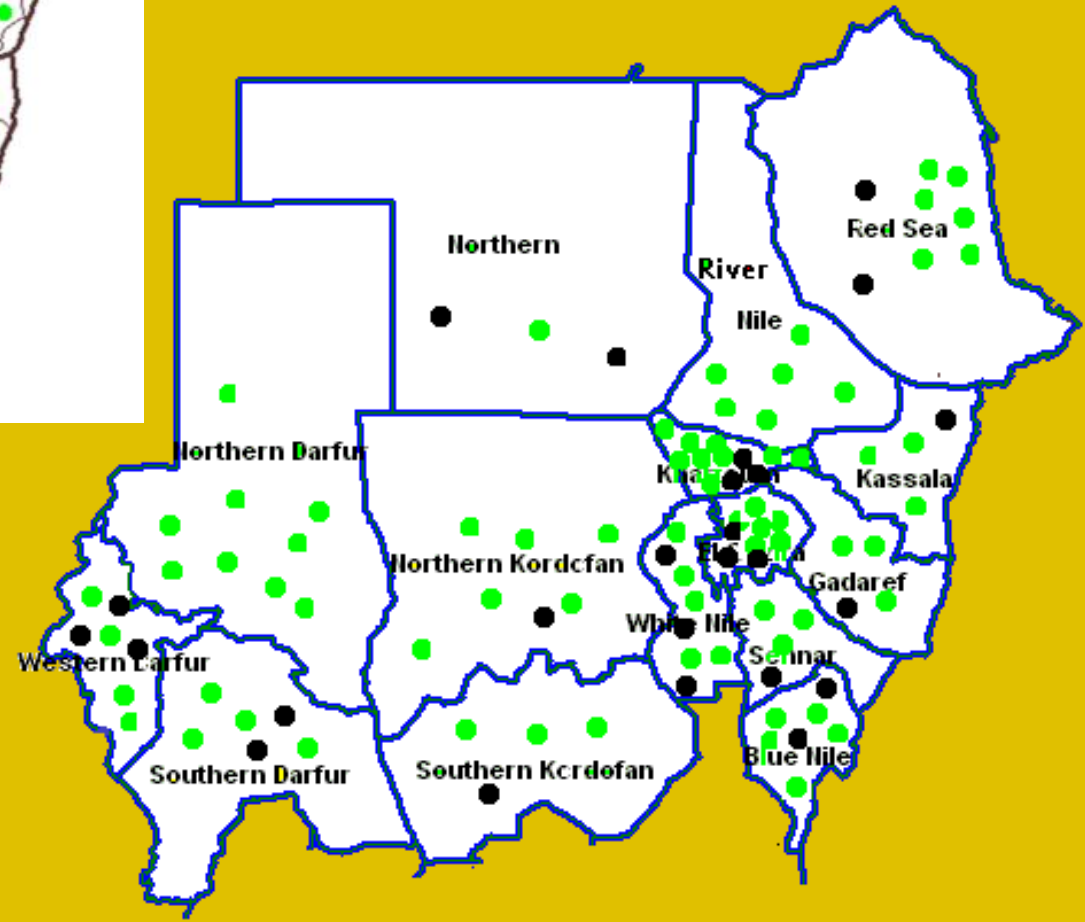


*AFP Surveillance central unit*

**Map 1. Distribution of AFP cases by classification, Sudan, 2011\***



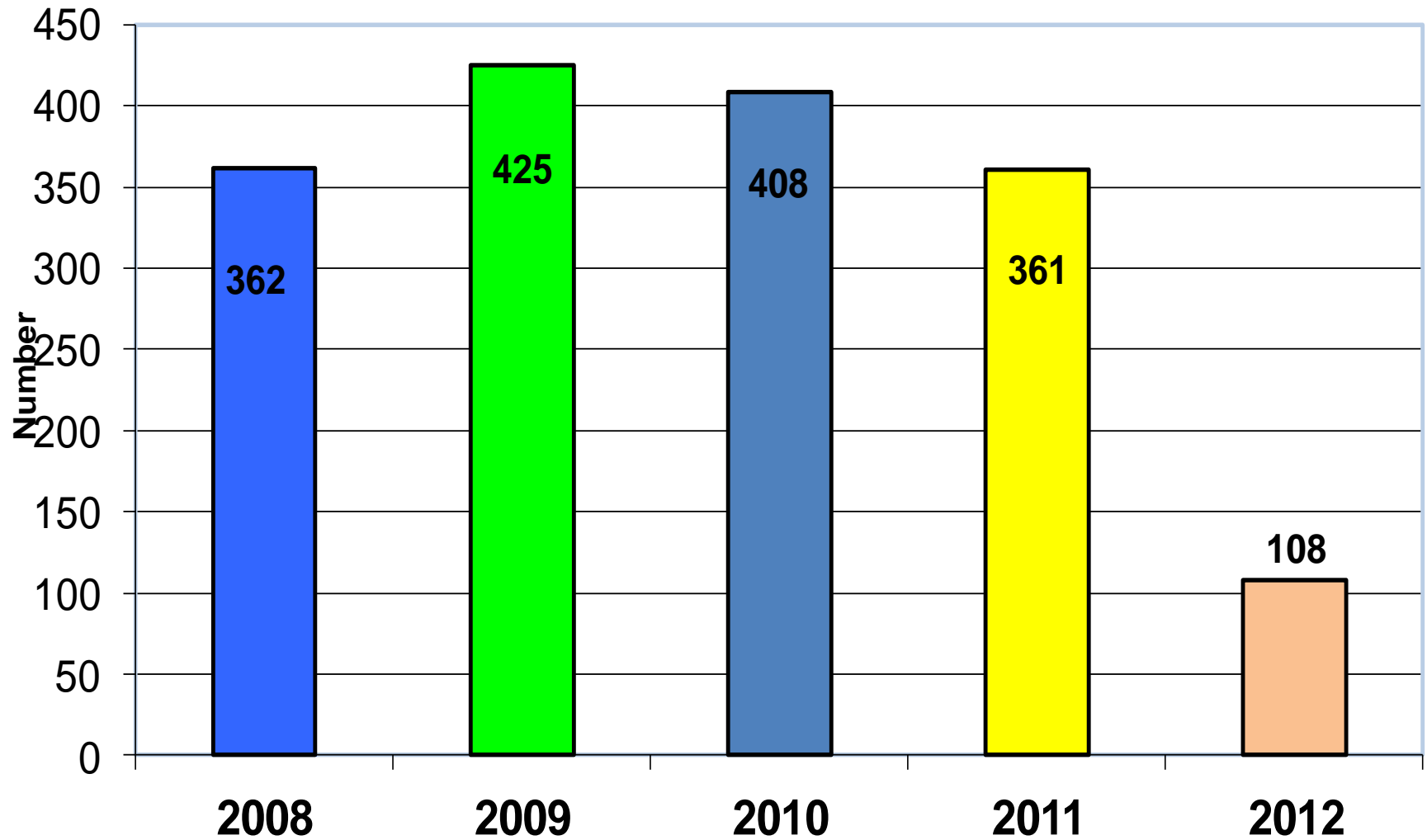
**Map 2. Distribution of AFP cases by classification, Sudan, 2012\***



● Non-polio AFP  
● Pending classification

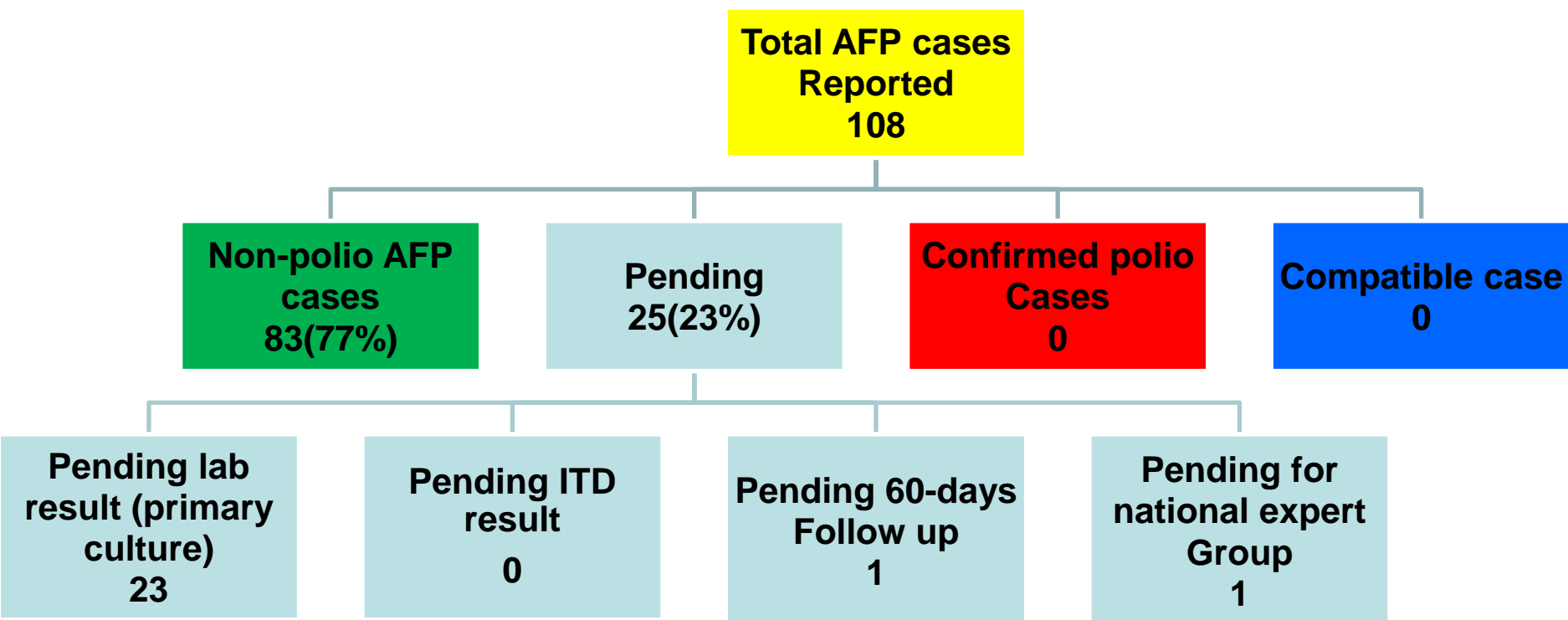
**\*Up to week 12**

**Fig. 1: Total AFP cases  
Sudan, 2008-2012\***



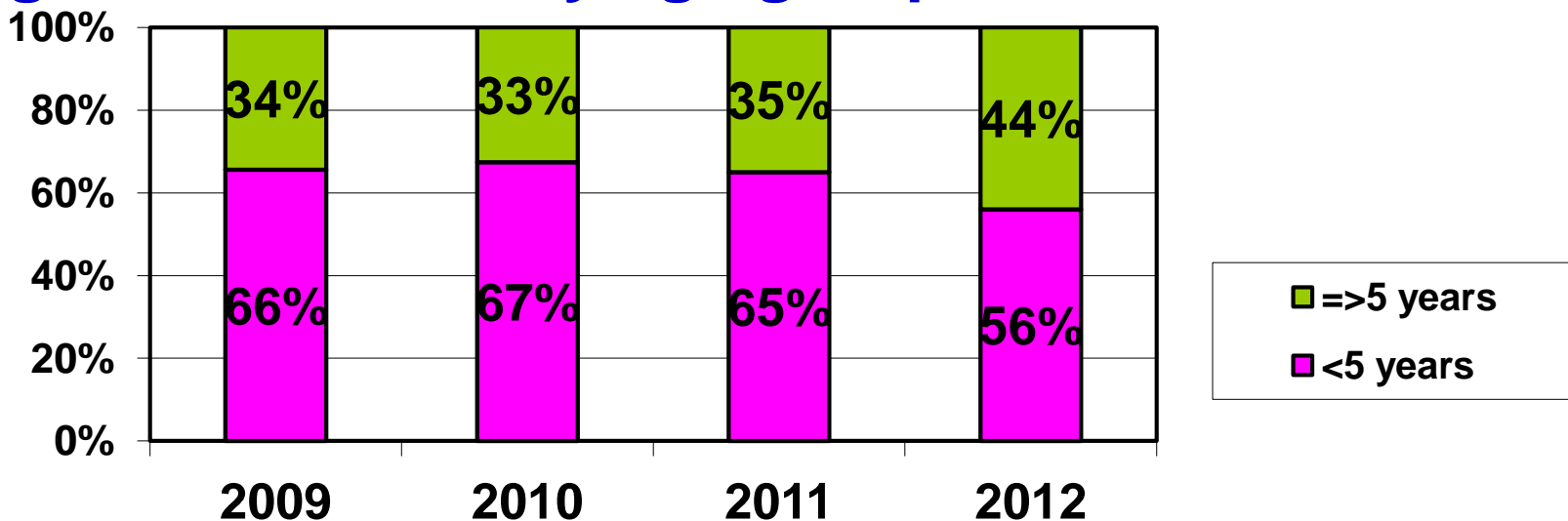
**\*Up to week 12, 2012**

**Fig. 2: Total AFP cases by classification, Sudan, 2012\***



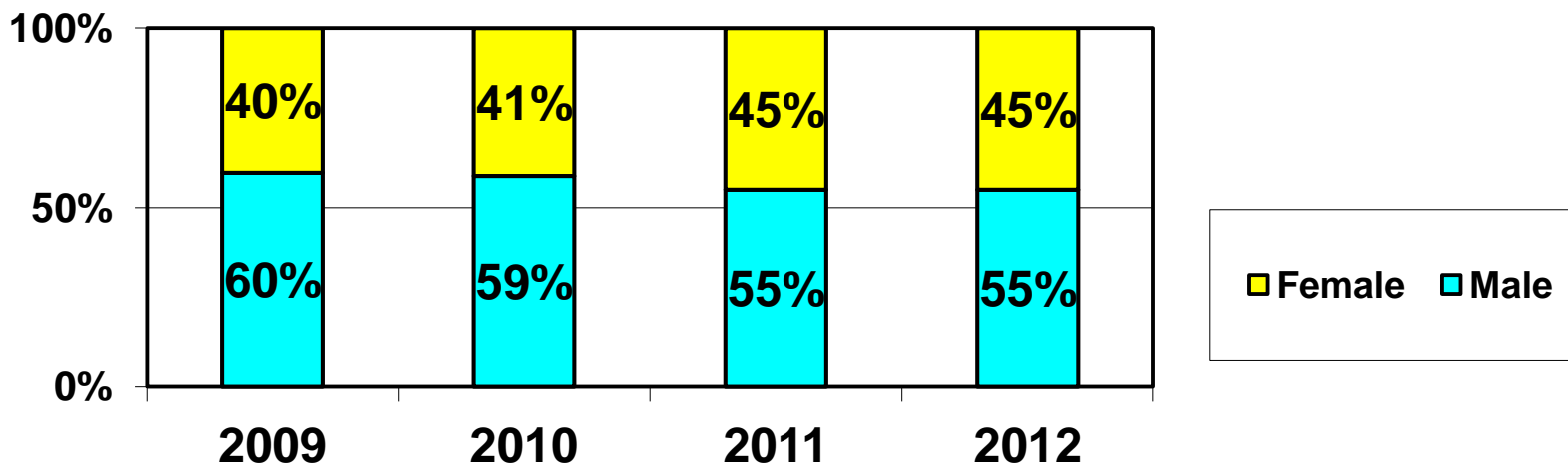
**\*Up to week 12, 2012**

### Fig. 3: AFP cases by age group, 2009 – 2012\*



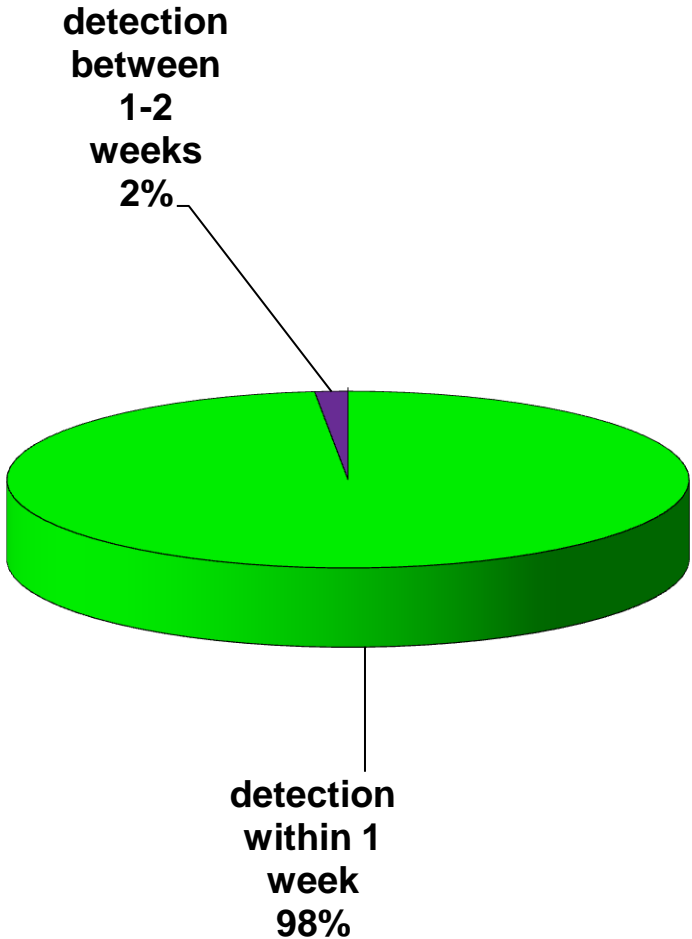
\*Up to week 12, 2012

### Fig. 4: AFP cases by sex 2009 – 2012\*



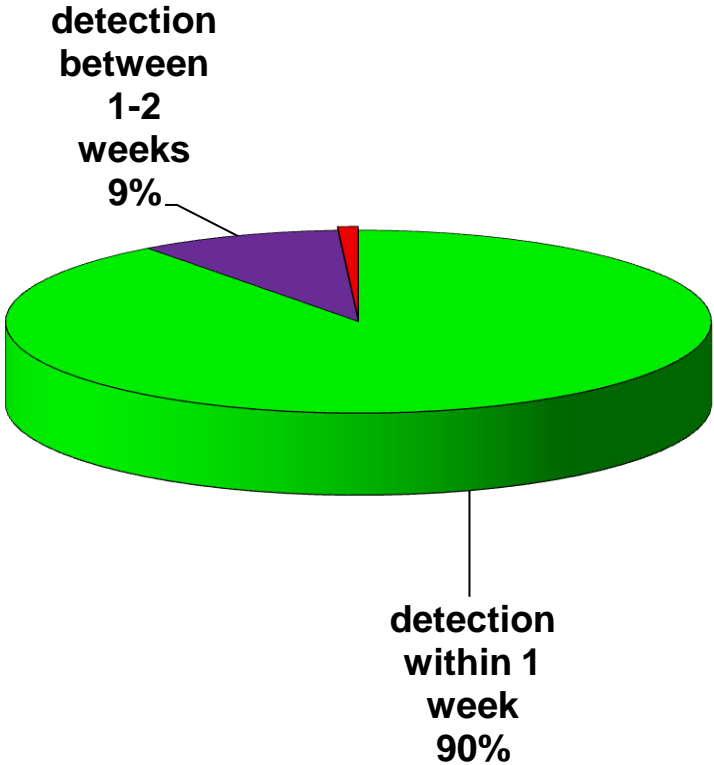
**Fig. 5: Percent distribution of AFP cases by time of detection, 2011\***

**N = 73 AFP cases**



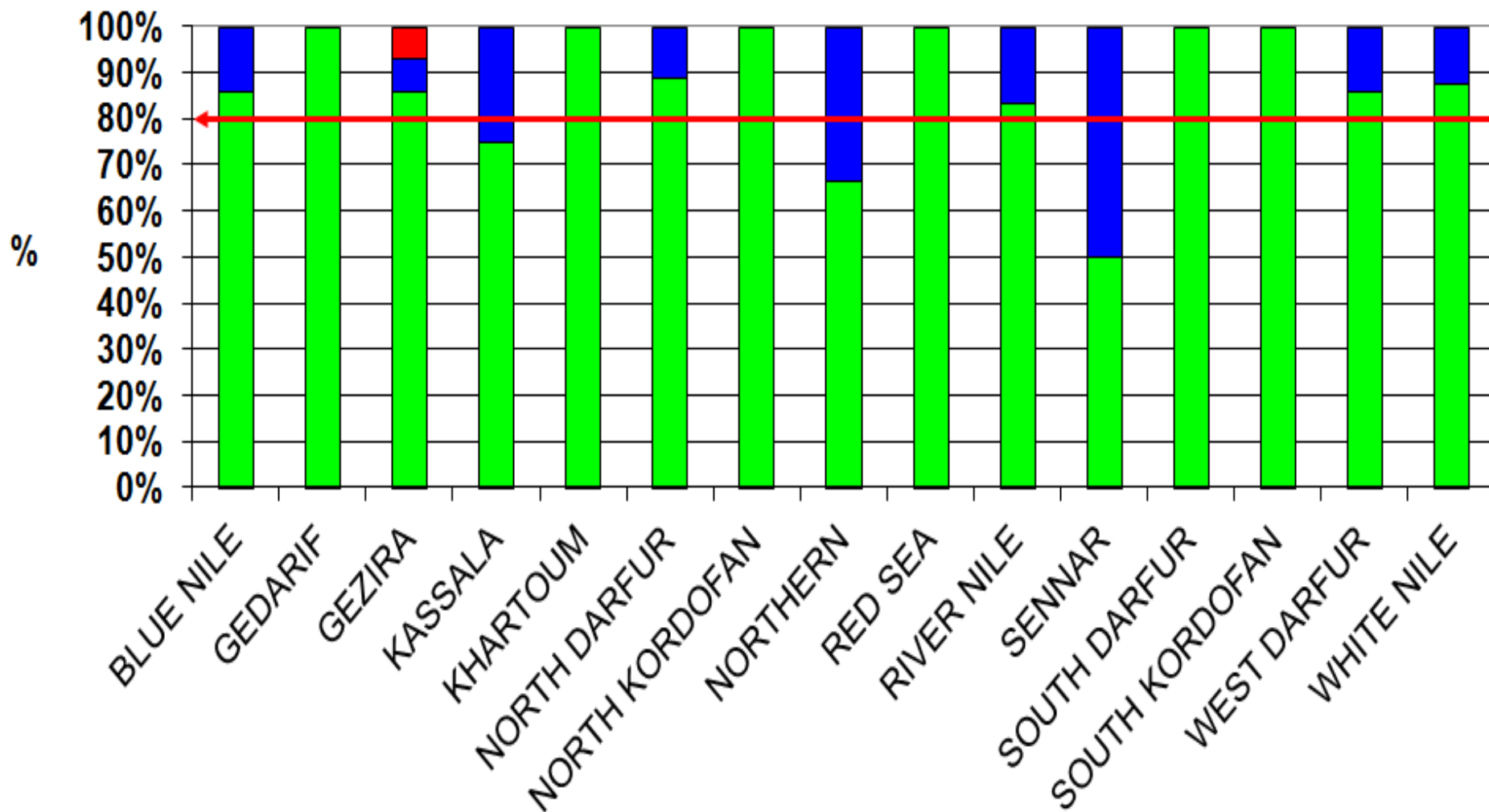
**Fig. 6: Percent distribution of AFP cases by time of detection, 2012\***

**N = 108 AFP cases**



**\*Up to week 12**

**Fig. 7: Percent distribution of AFP cases according to the timeliness of detection by states, 2012\***



\*Up to week 12, 2012

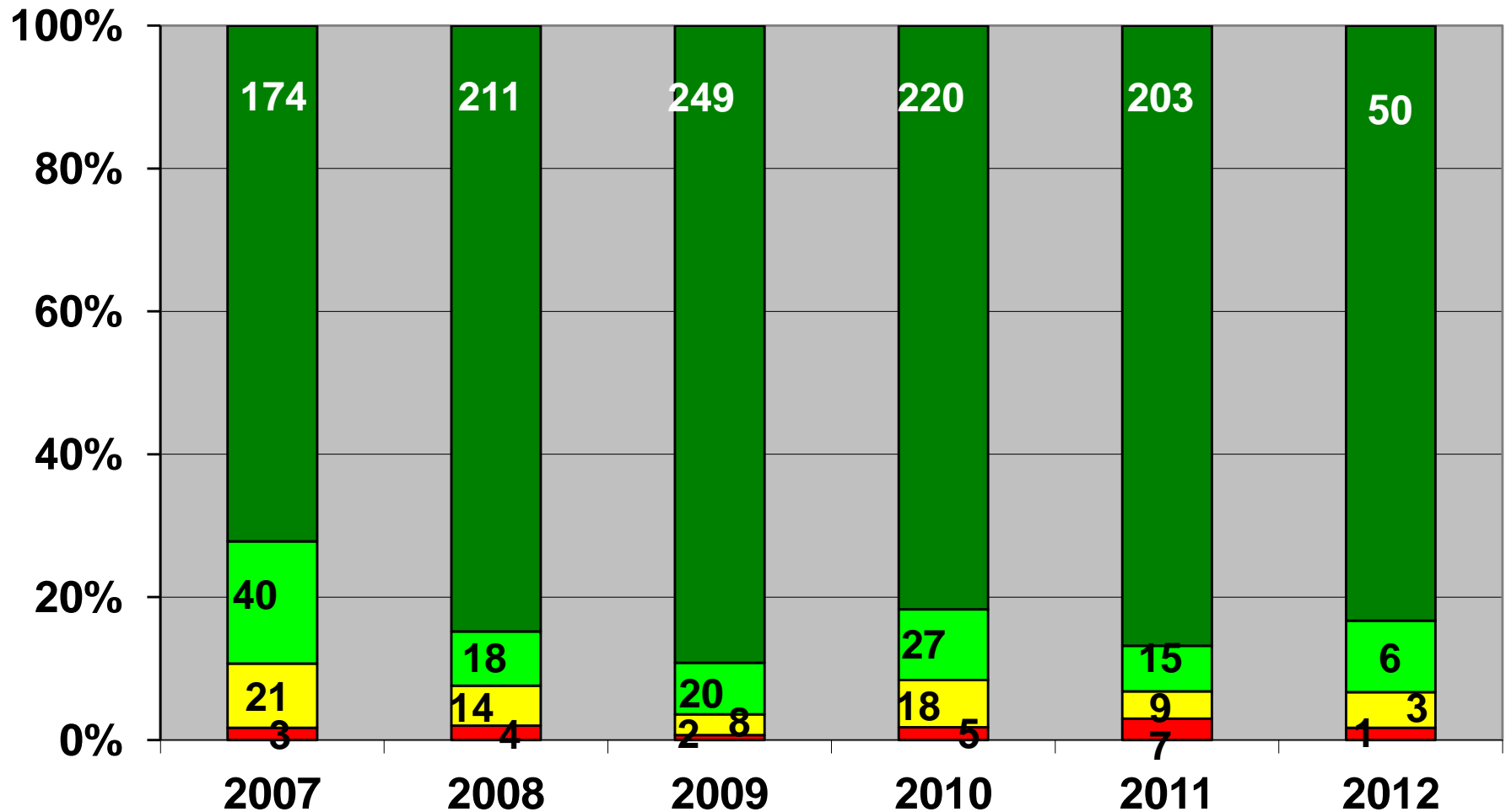
■ Early detection ■ Moderate detection ■ Late detection

# Table 1. Major AFP surveillance performance indicators, up to week 12, 2012

| State        | U 15 yrs population | Total reported AFP cases | Non-polio AFP cases | Pending classification | Polio cases | Compatible cases | % Adequate stools | Annualized AFP rate | % NPEV     |
|--------------|---------------------|--------------------------|---------------------|------------------------|-------------|------------------|-------------------|---------------------|------------|
| B. Nile      | 451,519             | 7                        | 5                   | 2                      | 0           | 0                | 100%              | 6.7                 | 29%        |
| Gedarif      | 887,810             | 4                        | 3                   | 1                      | 0           | 0                | 75%               | 2.0                 | 33%        |
| Gezira       | 1,974,675           | 14                       | 11                  | 3                      | 0           | 0                | 93%               | 3.1                 | 27%        |
| Kasala       | 857,183             | 4                        | 3                   | 1                      | 0           | 0                | 100%              | 2.0                 | 25%        |
| Khartom      | 2,489,151           | 17                       | 14                  | 3                      | 0           | 0                | 100%              | 3.0                 | 24%        |
| N.Darf       | 890,317             | 9                        | 9                   | 0                      | 0           | 0                | 100%              | 4.4                 | 22%        |
| N.Kord       | 1,281,448           | 7                        | 6                   | 1                      | 0           | 0                | 100%              | 2.4                 | 29%        |
| Northern     | 271,479             | 3                        | 1                   | 2                      | 0           | 0                | 67%               | 4.8                 | 33%        |
| Red Sea      | 331,008             | 8                        | 6                   | 2                      | 0           | 0                | 100%              | 10.5                | 0%         |
| River Nile   | 470,091             | 6                        | 6                   | 0                      | 0           | 0                | 100%              | 5.5                 | 17%        |
| Sennar       | 735,588             | 4                        | 3                   | 1                      | 0           | 0                | 100%              | 2.4                 | 25%        |
| S.Darfur     | 1,806,686           | 6                        | 4                   | 2                      | 0           | 0                | 83%               | 1.4                 | 20%        |
| S. Kord      | 974,048             | 4                        | 3                   | 1                      | 0           | 0                | 100%              | 1.8                 | 0%         |
| W.Darfur     | 971,638             | 7                        | 4                   | 3                      | 0           | 0                | 100%              | 3.1                 | 29%        |
| W. Nile      | 855,181             | 8                        | 5                   | 3                      | 0           | 0                | 100%              | 4.1                 | 25%        |
| <b>Total</b> | <b>15,247,822</b>   | <b>108</b>               | <b>83</b>           | <b>25</b>              | <b>0</b>    | <b>0</b>         | <b>96%</b>        | <b>3.1</b>          | <b>27%</b> |



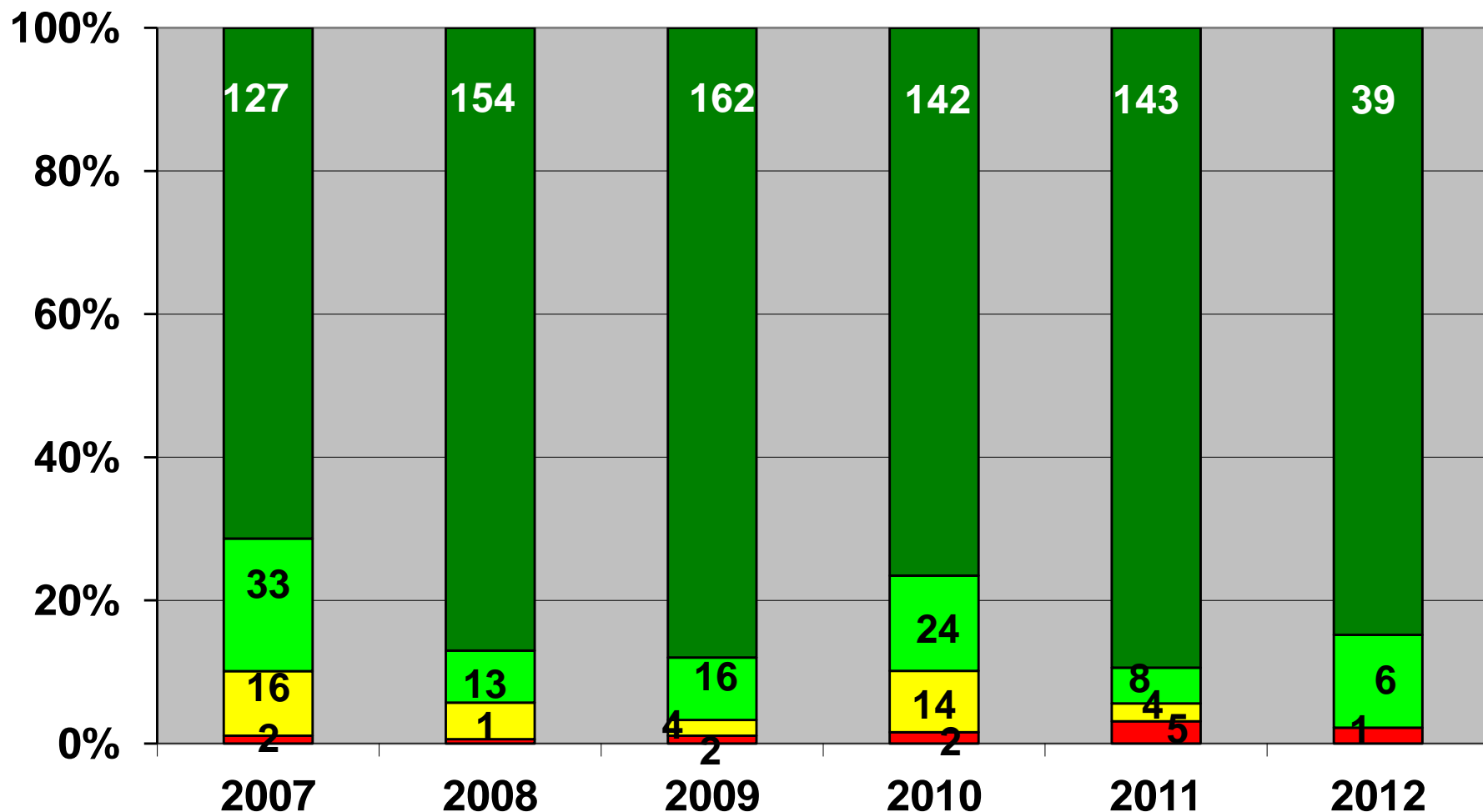
# Fig. 8: Percent distribution of AFP cases < 60 months by number of OPV doses, 2007-2012\*



■ 0 OPV doses   
 ■ '1-3 OPV doses   
 ■ '4-6 OPV doses   
 ■ 7+ OPV doses

\*Up to week 12, 2012

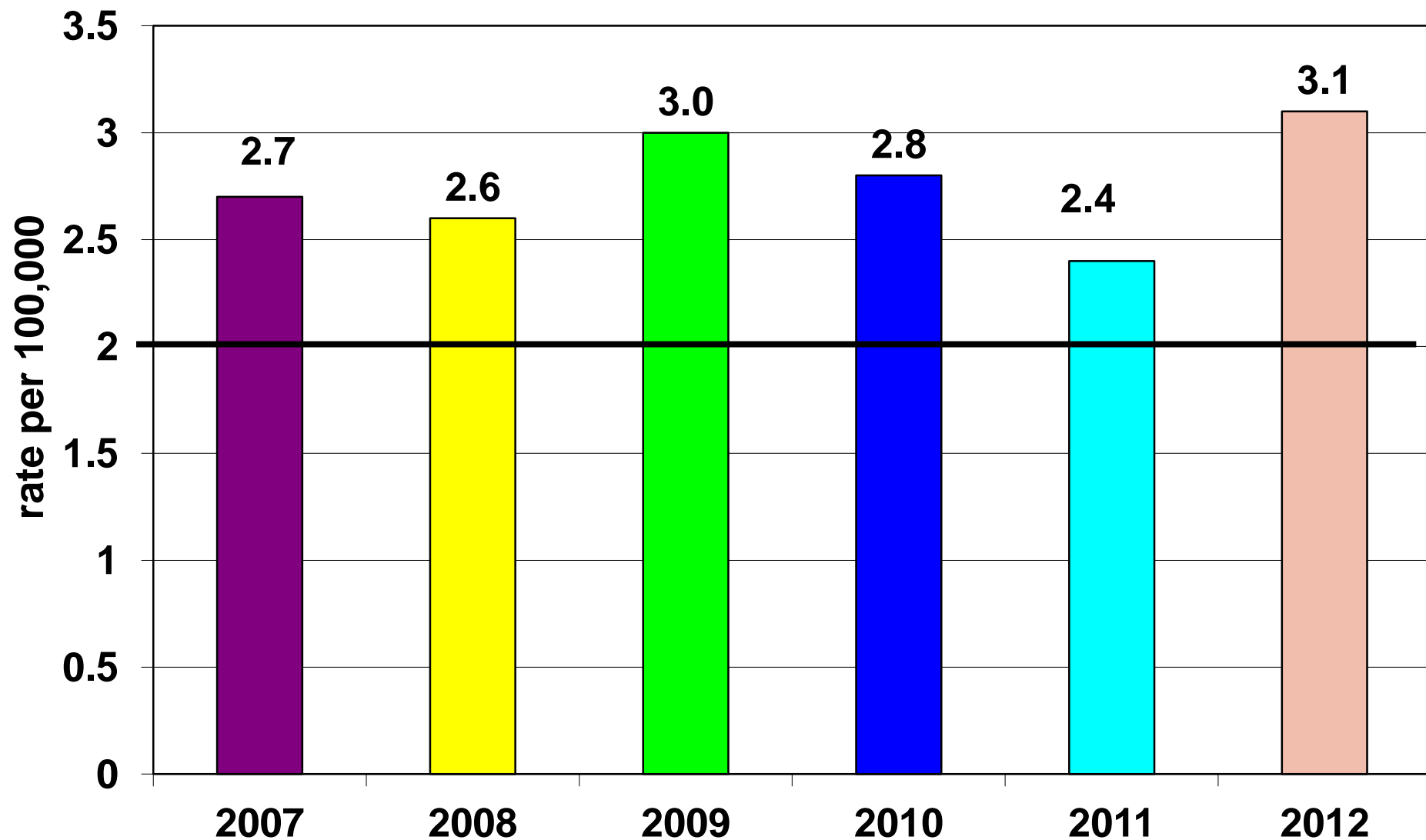
**Fig. 9: No. & percent distribution of AFP cases 6-36 months by number of OPV doses, 2007-2012\***



■ 0 OPV doses   
 ■ '1-3 OPV doses   
 ■ '4-6 OPV doses   
 ■ 7+ OPV doses

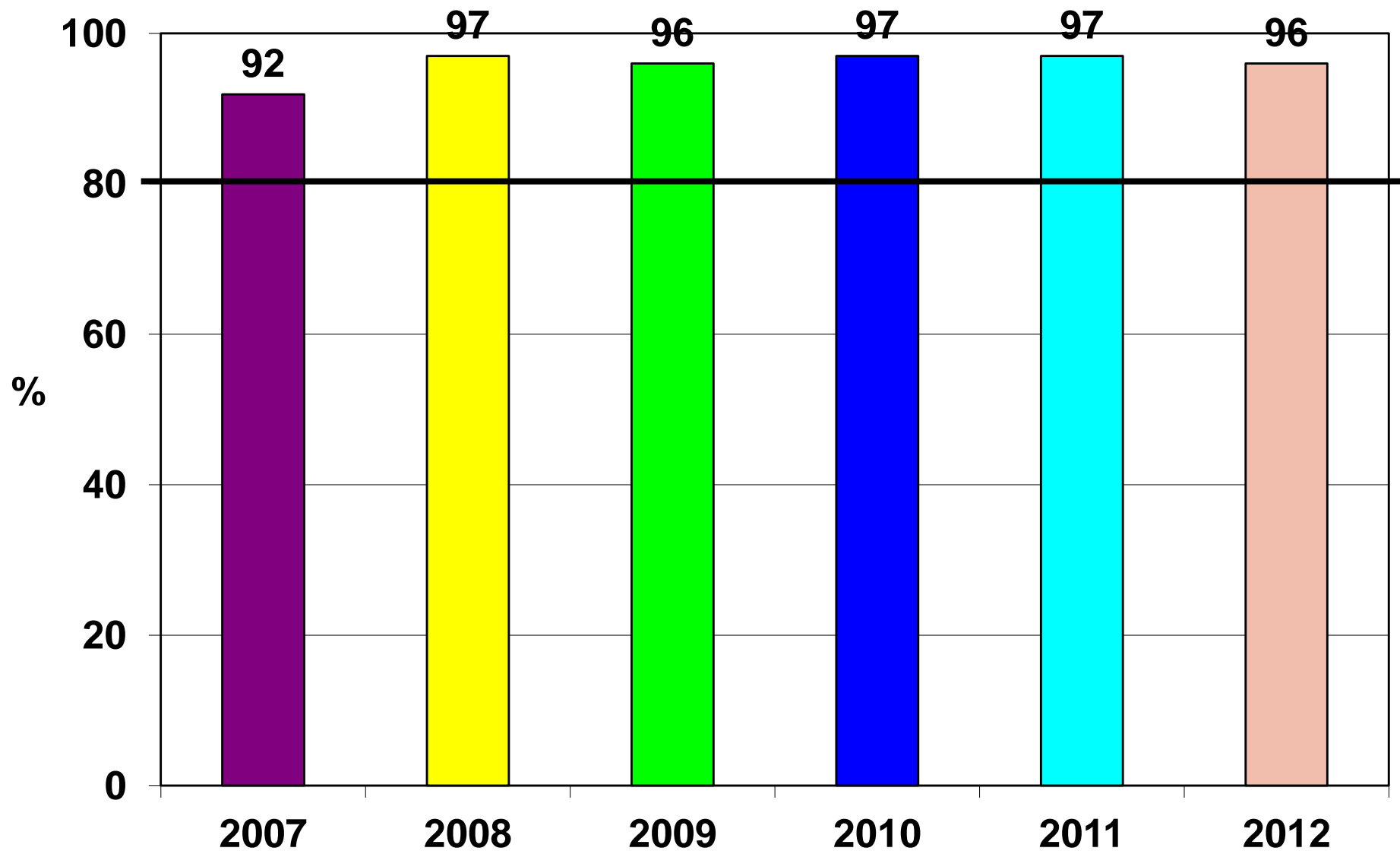
**\*Up to week 12, 2012**

**Fig. 10: Non-Polio AFP rate per 100,000 children under 15 years of age, 2007 – 2012\***



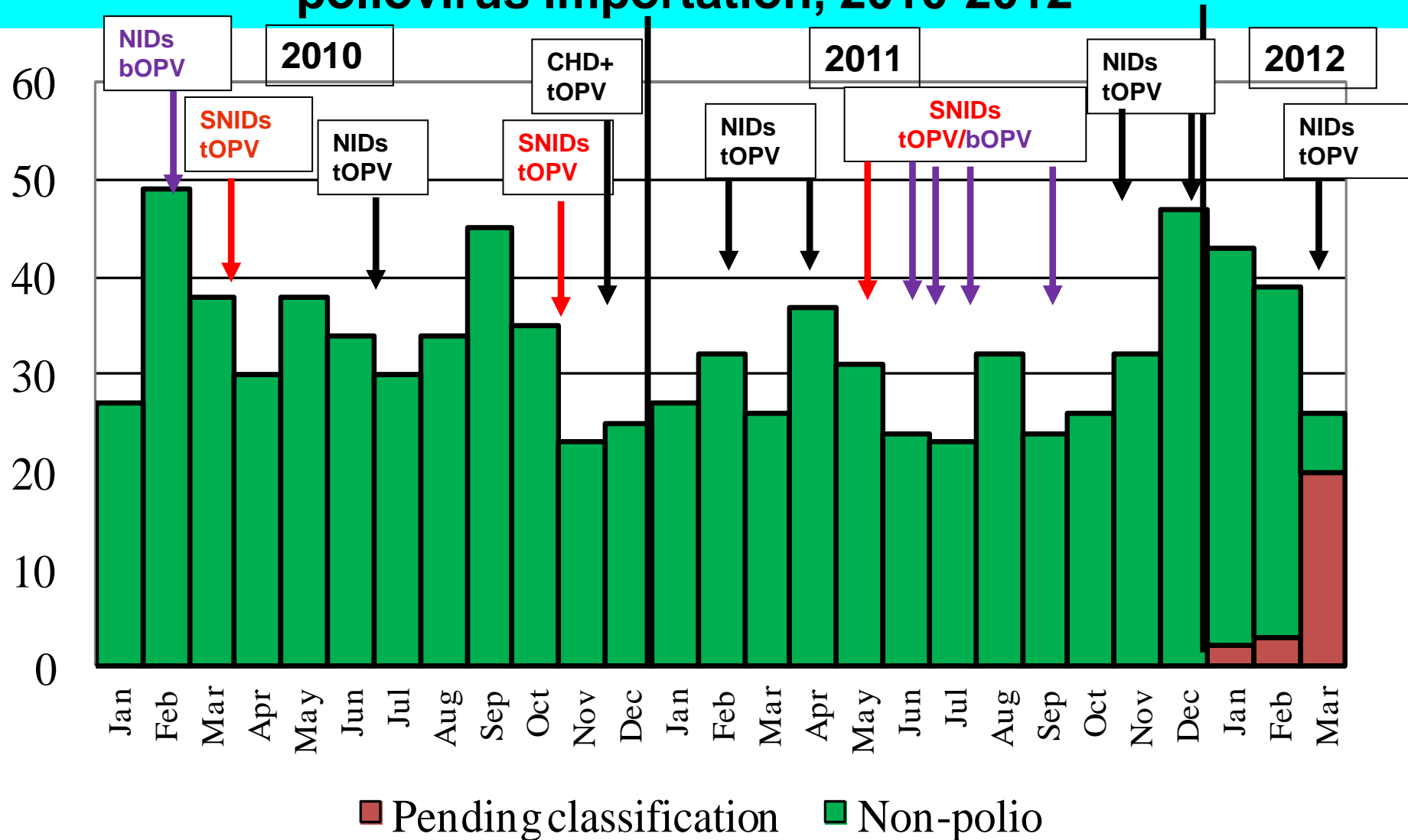
**\*Up to week 12, 2012**

**Fig. 11: Adequate stool collection rate, 2007 – 2012\***



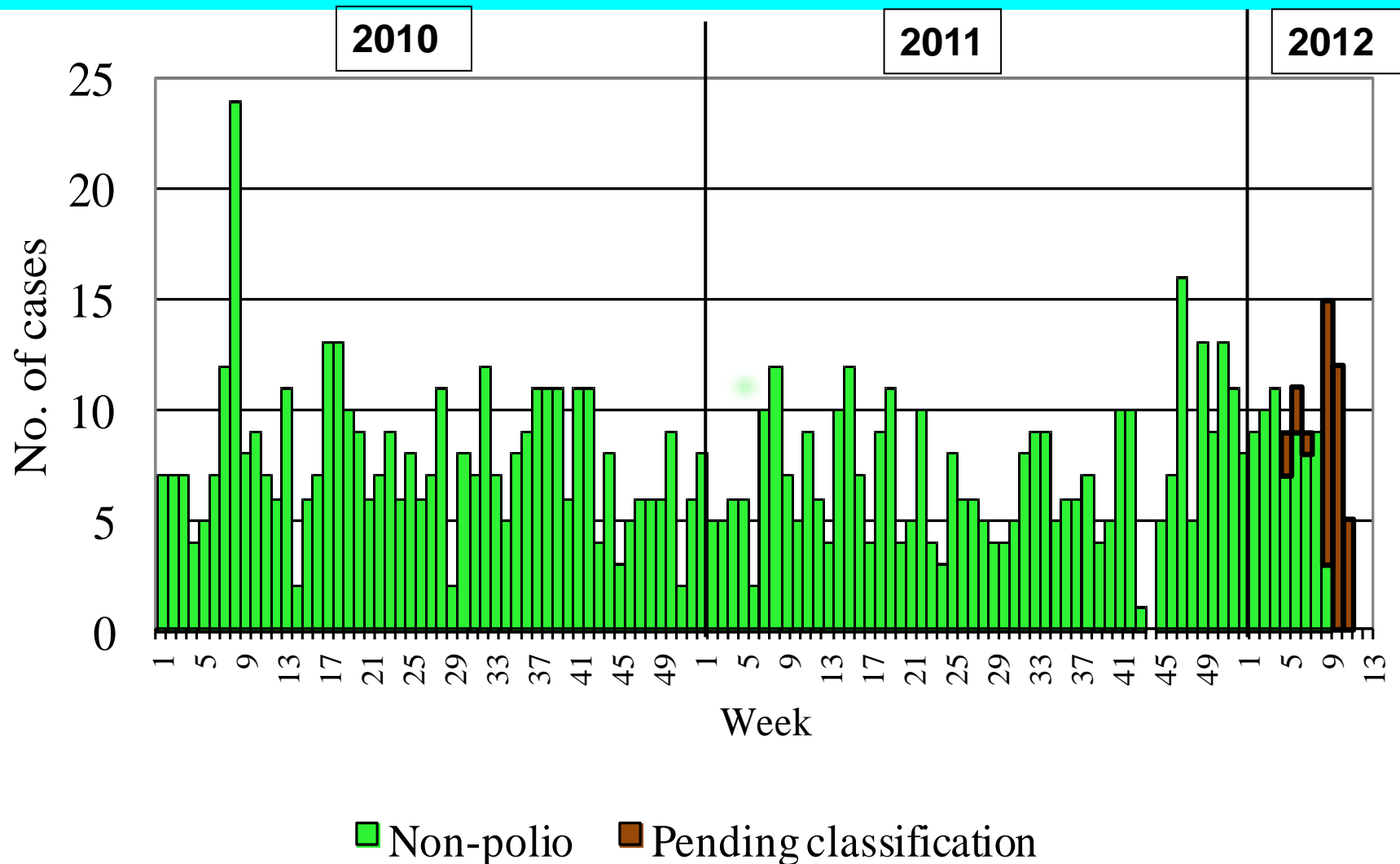
**\*Up to week 12, 2012**

**Fig 12. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation, 2010-2012\***



\*Up to week 12, 2012

# Fig 13. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation, 2010-2012\*

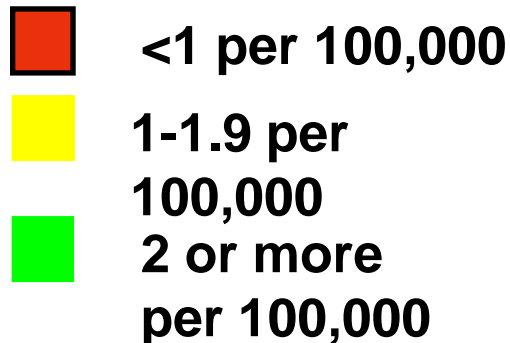


\*Up to week 12, 2012

**Map 3. Non-polio AFP rate by state, 2011 up to W12**



**Map 4. Annualized Non-polio AFP rate by state, 2012 up to W12**



**Map 5. Percent distribution of AFP cases having adequate stool samples by states, 2011 up to W12**



**Map 6. Percent distribution of AFP cases having adequate stool samples by state, 2012 up to W12**



■ <60%     
 ■ 60% - 79%  
■ 80% - 100%



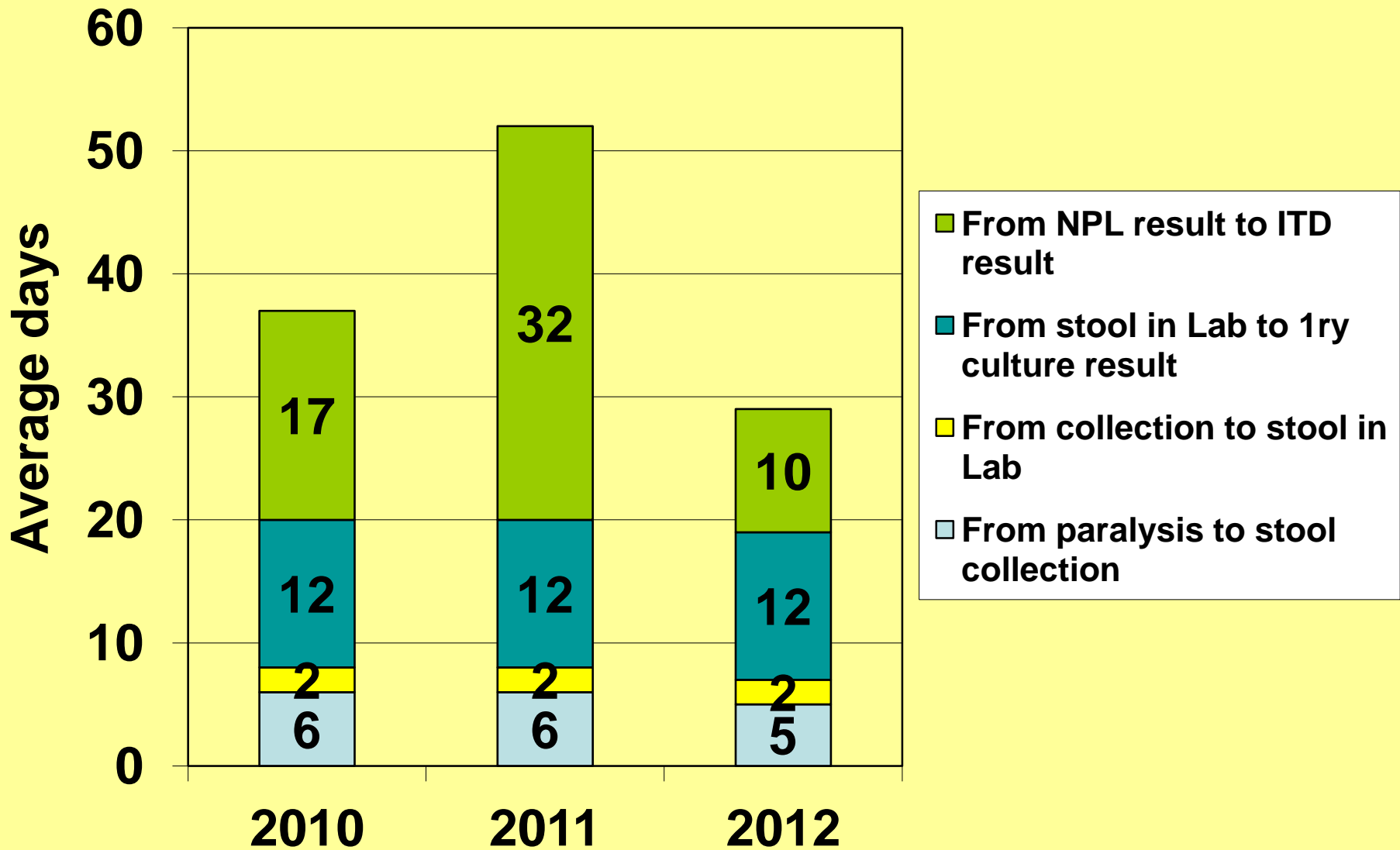
## Table 2. National polio lab performance indicators 2010-2012 up to week 12

| Indicator   | 2010    | 2011    | 2012   |
|---|---------|---------|--------|
| AFP cases with samples tested in NPL  | 96      | 73      | 107    |
| Cases with wild polioviruses  | 0       | 0       | 0      |
| Cases with non-polio enterovirus  | 16%     | 9%      | 25%    |
| SL viruses No. & (%) from AFP cases   | 0       | 0       | 0      |
| Median days from the time of samples received in the lab to primary culture report or L20B result | 12 days | 13 days | 12days |
| Number of samples from the AFP contacts tested in the NPL   | 23      | 48      | 66     |
| Contacts with non-polio enterovirus   | 9%      | 4%      | 28%    |
| Sabin like viruses No. & (%) from contacts  | 0       | 0%      | 0      |
| Wild polioviruses from contacts   | 0       | 0       | 0      |

## Table 3. Polio lab performance 2010 - 2012

| Week of onset      | Total AFP Cases with samples | AFP Cases under process | L20B +ve pending ITD | Negative cases | NPEV positive | % NPEV | Result reported within 14 days | Arrival within 3 days of being collected from the 2 <sup>nd</sup> sample | Arrival within 3 days of being sent from the 2 <sup>nd</sup> sample |
|--------------------|------------------------------|-------------------------|----------------------|----------------|---------------|--------|--------------------------------|--|---|
| 2010 up to week 12 | 96                           | 11                      | 1                    | 70             | 14            | 16%    | 100%                           | 90%  | 100%  |
| 2011 up to week 12 | 73                           | 38                      | 1                    | 32             | 3             | 9%     | 86%                            | 88%  | 100%  |
| 2012 up to week 12 | 107                          | 23                      | 0                    | 61             | 23            | 27%    | 96%                            | 84%  | 99%   |

# Fig. 15: AFP Specimens' median timeliness NPL 2010-2012\*



\*Up to week 12, 2012