



World Health  
Organization

*Republic of Sudan*

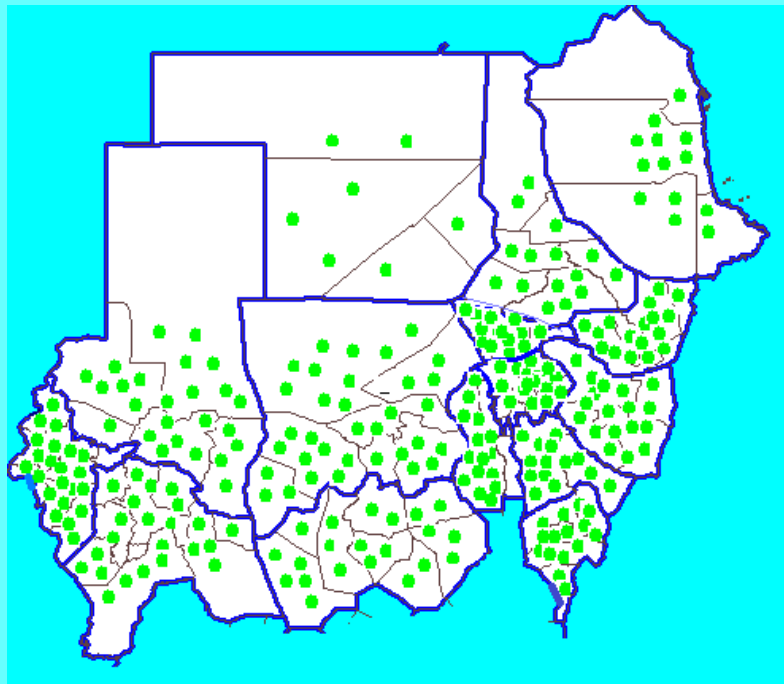


**Weekly AFP surveillance report**  
**week 39**

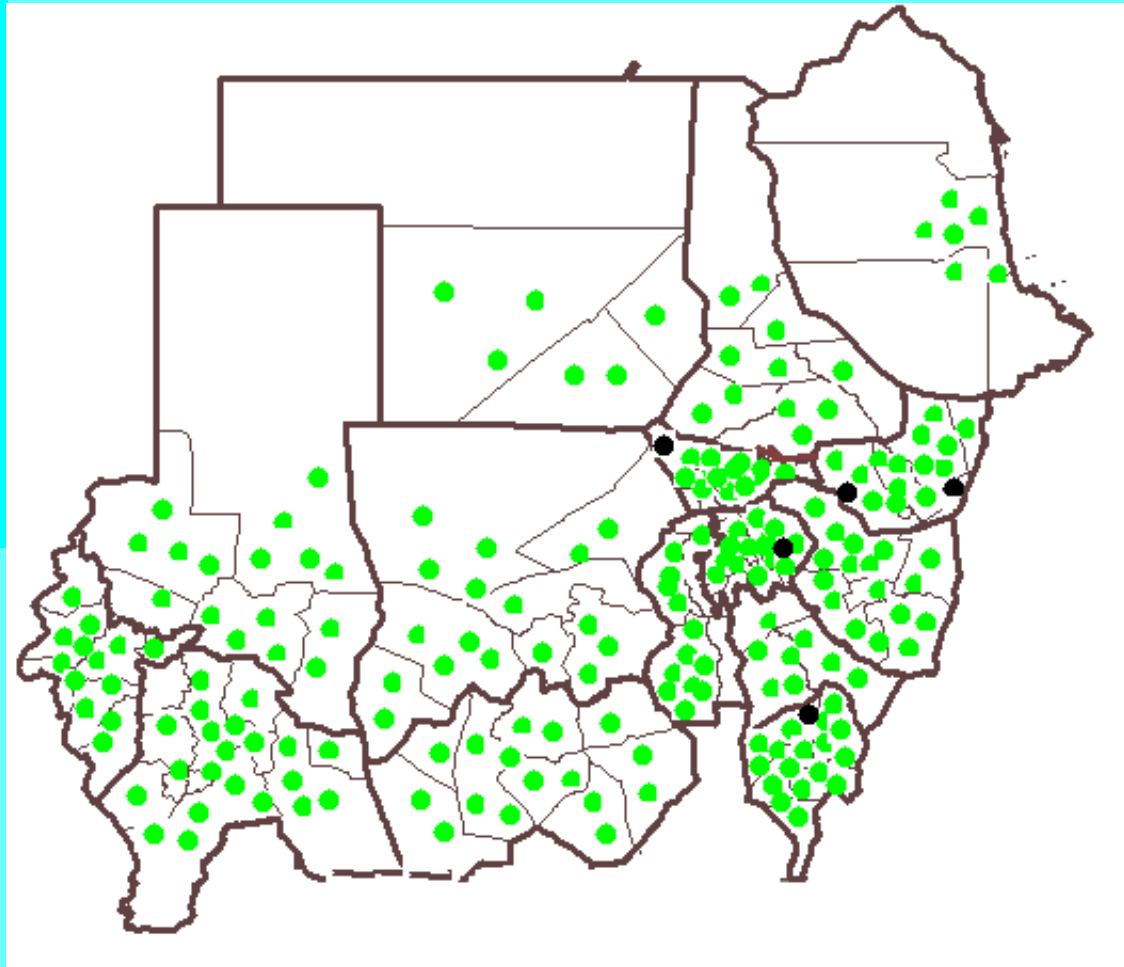
**E**nding on 2 October 2011

*AFP Surveillance central unit*

**Map 1. Distribution of AFP cases by classification, Sudan, 2010**



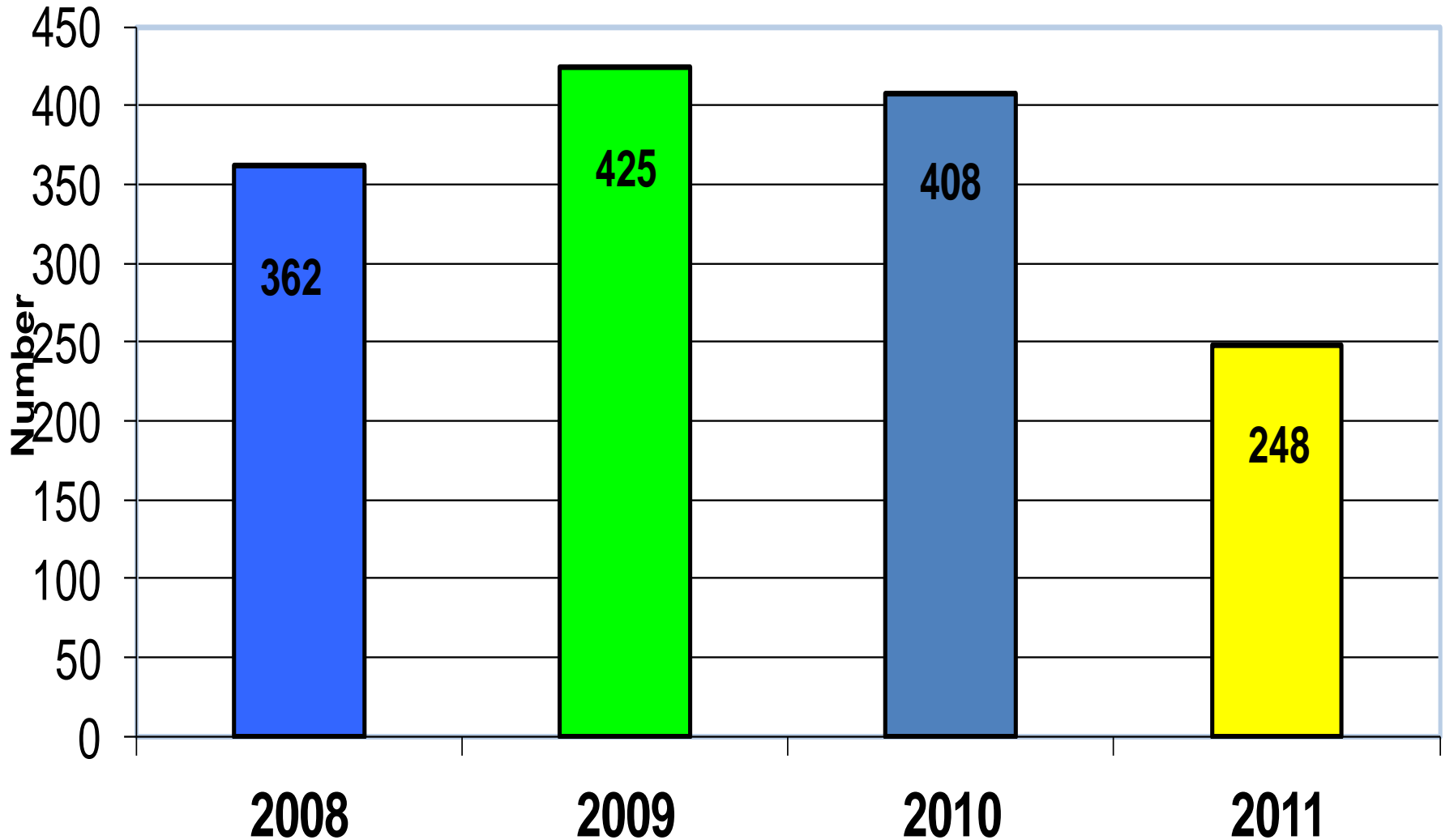
**Map 2. Distribution of AFP cases by classification, Sudan, 2011\***



- Non-polio AFP
- Pending classification

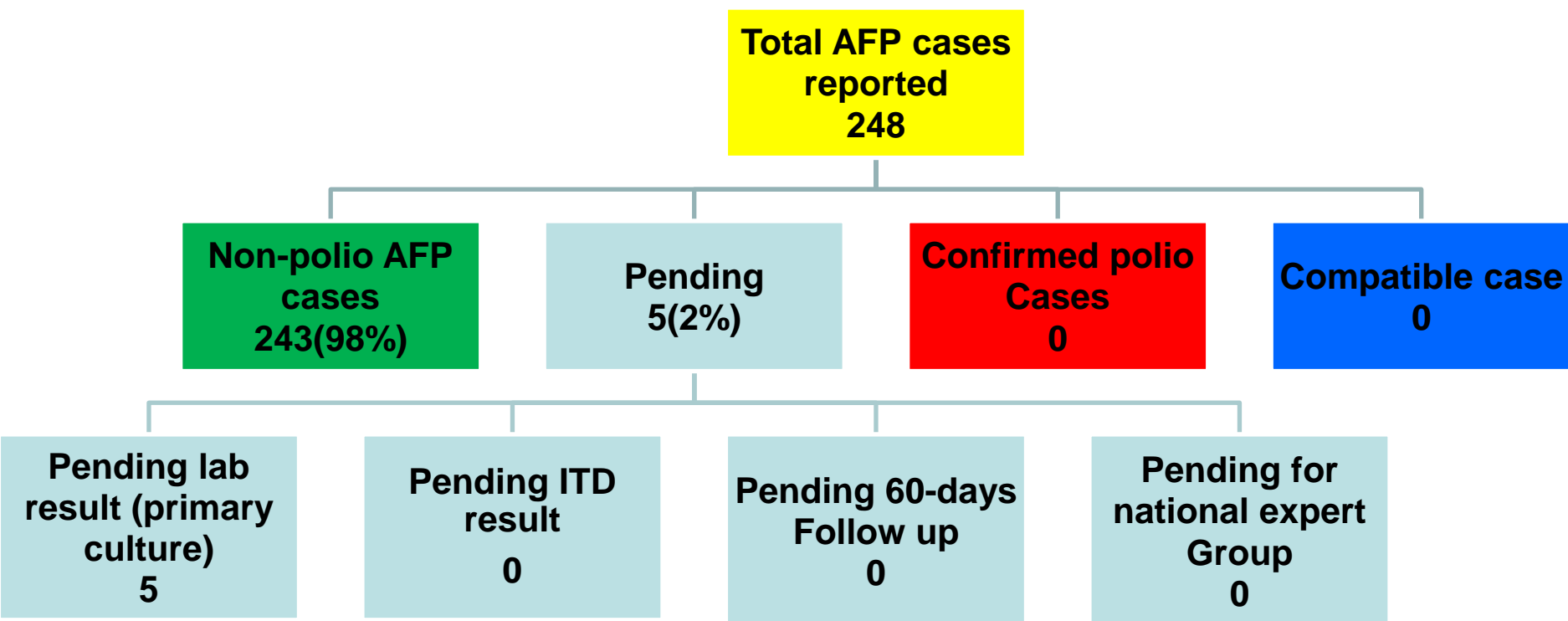
**\* Up to 2/10/2011**

**Fig. 1: Total AFP cases  
Sudan, 2008-2011\***



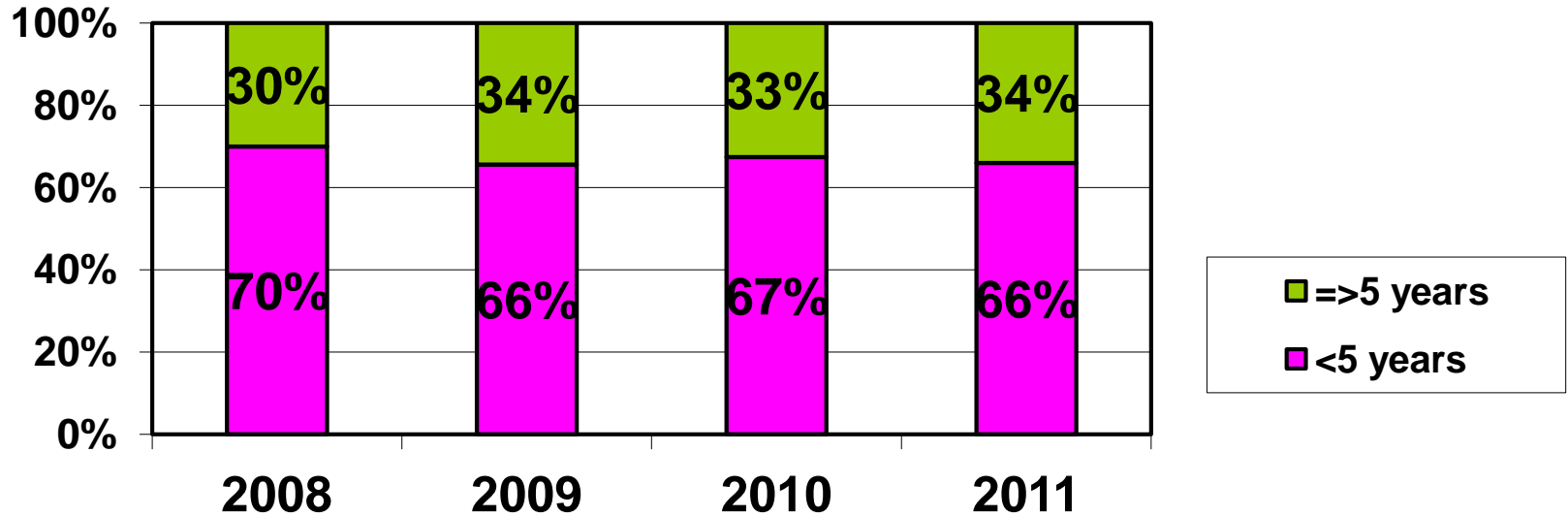
**\* Up to 2/10/2011**

**Fig. 2: Total AFP cases by classification, Sudan, 2011\***



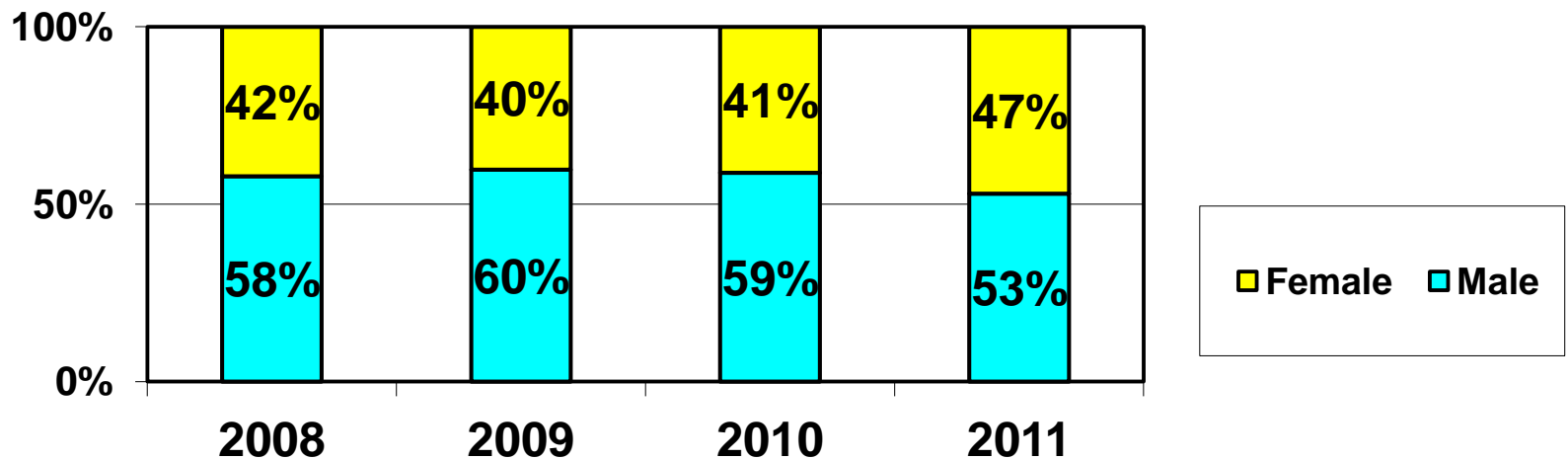
**\* Up to 2/10/2011**

### Fig. 3: AFP cases by age group, 2008 – 2011\*



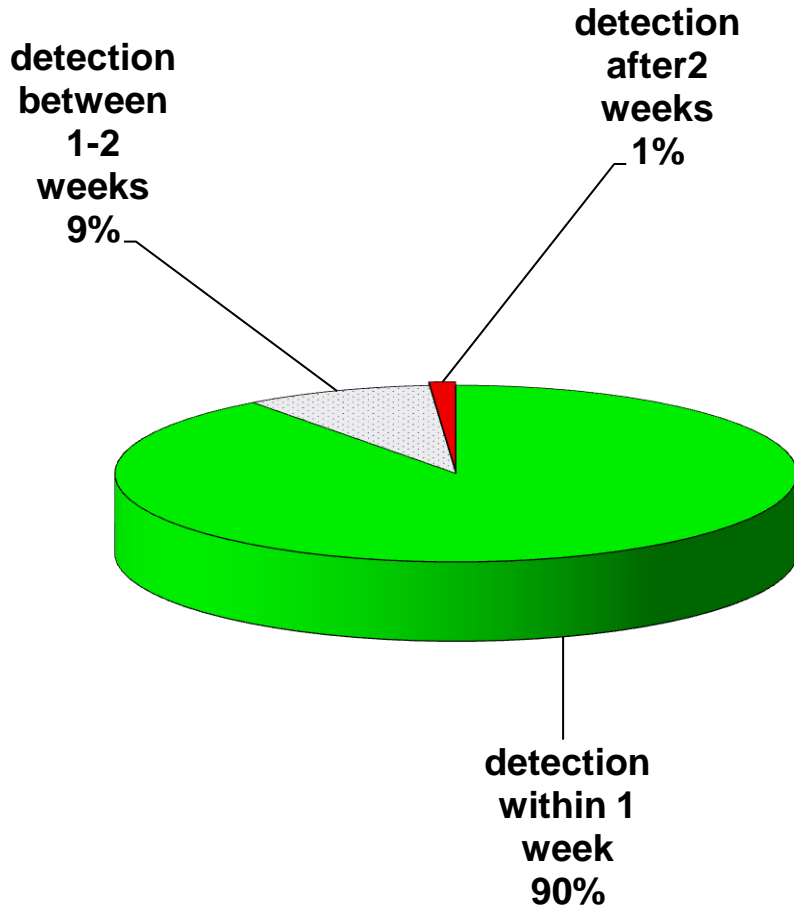
\* Up to 2/10/2011

### Fig. 4: AFP cases by sex 2008 – 2011\*



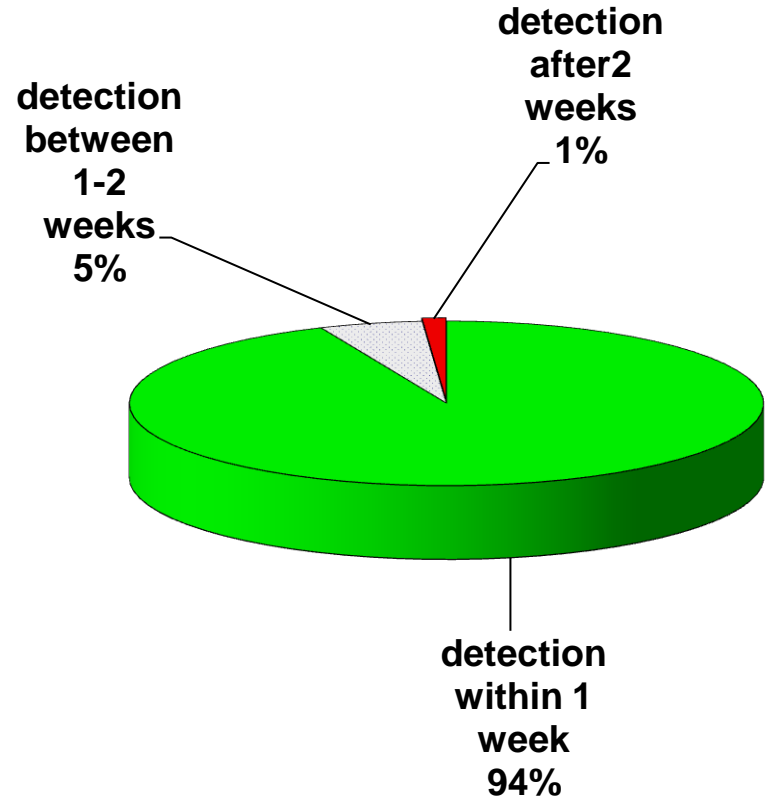
**Fig. 5: Percent distribution of AFP cases by time of detection, 2010**

**N = 408 AFP cases**



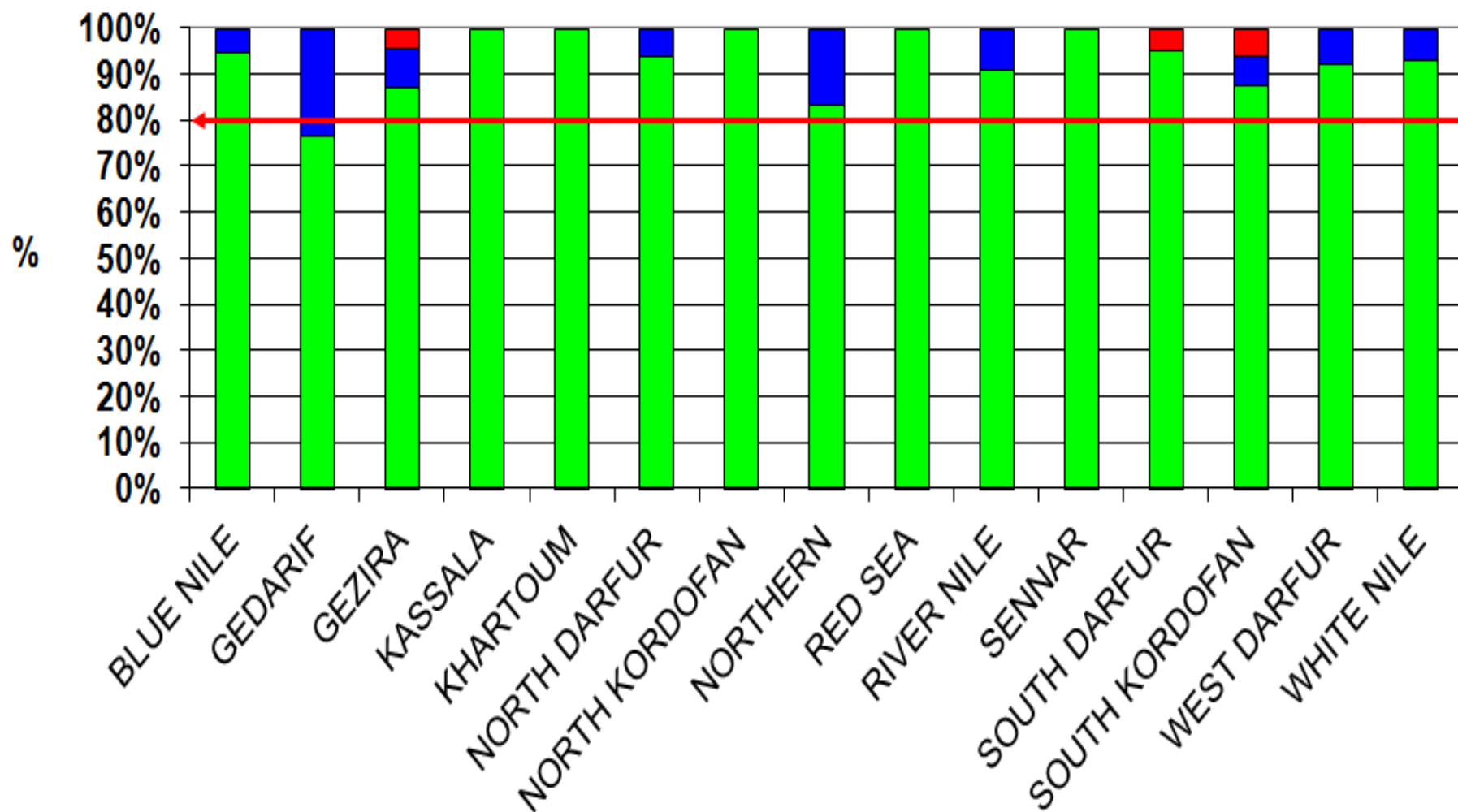
**Fig. 6: Percent distribution of AFP cases by time of detection, 2011\***

**N = 248 AFP cases**



**\* Up to 2/10/2011**

**Fig. 7: Percent distribution of AFP cases according to the timeliness of detection by states, 2011\***



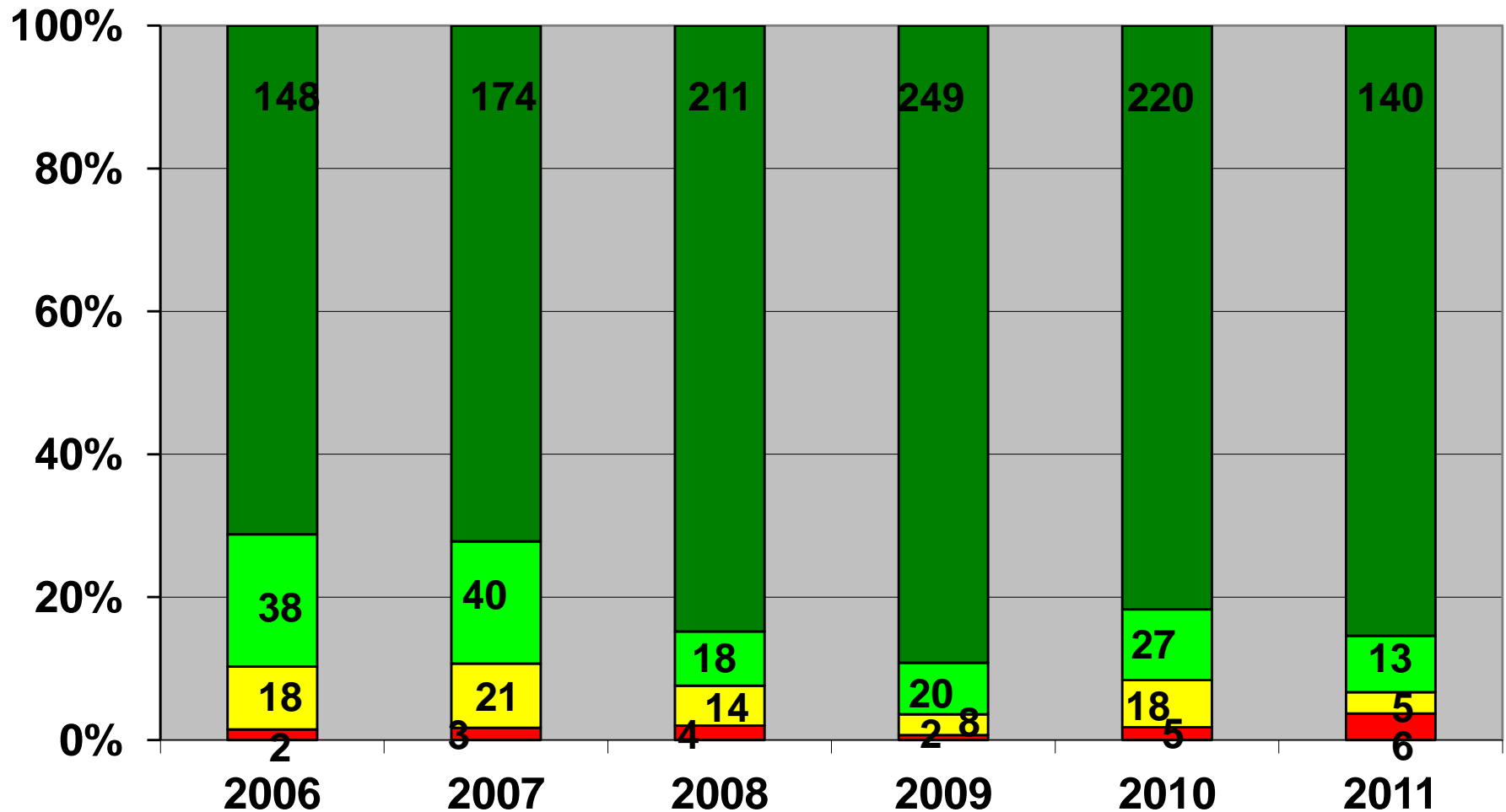
\* Up to 2/10/2011

■ Early detection ■ Moderate detection ■ Late detection

# Table 1. Major AFP surveillance performance indicators, up to 2/10/2011

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	365,591	19	18	1	0	0	100%	6.9	17%
Gedarif	860,364	17	17	0	0	0	94%	2.6	12%
Gezira	1,921,077	23	22	1	0	0	96%	1.6	23%
Kasala	836,195	16	14	2	0	0	100%	2.6	21%
Khartom	2,401,033	42	41	1	0	0	100%	2.3	15%
N.Darf	863,045	16	16	0	0	0	94%	2.5	19%
N.Kord	1,262,262	19	19	0	0	0	95%	2.0	11%
Northern	267,256	6	6	0	0	0	100%	3.0	33%
Red Sea	330,018	6	6	0	0	0	100%	2.4	33%
River Nile	461,734	11	11	0	0	0	91%	3.2	18%
Sennar	717,437	9	9	0	0	0	100%	1.7	11%
S.Darfur	1,747,110	21	21	0	0	0	95%	1.6	10%
S. Kord	960,789	16	16	0	0	0	94%	2.2	13%
W.Darfur	949,143	13	13	0	0	0	92%	1.8	15%
W. Nile	834,567	14	14	0	0	0	100%	2.2	14%
<b>Total</b>	<b>14,777,621</b>	<b>248</b>	<b>243</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>97%</b>	<b>2.2</b>	<b>16%</b>

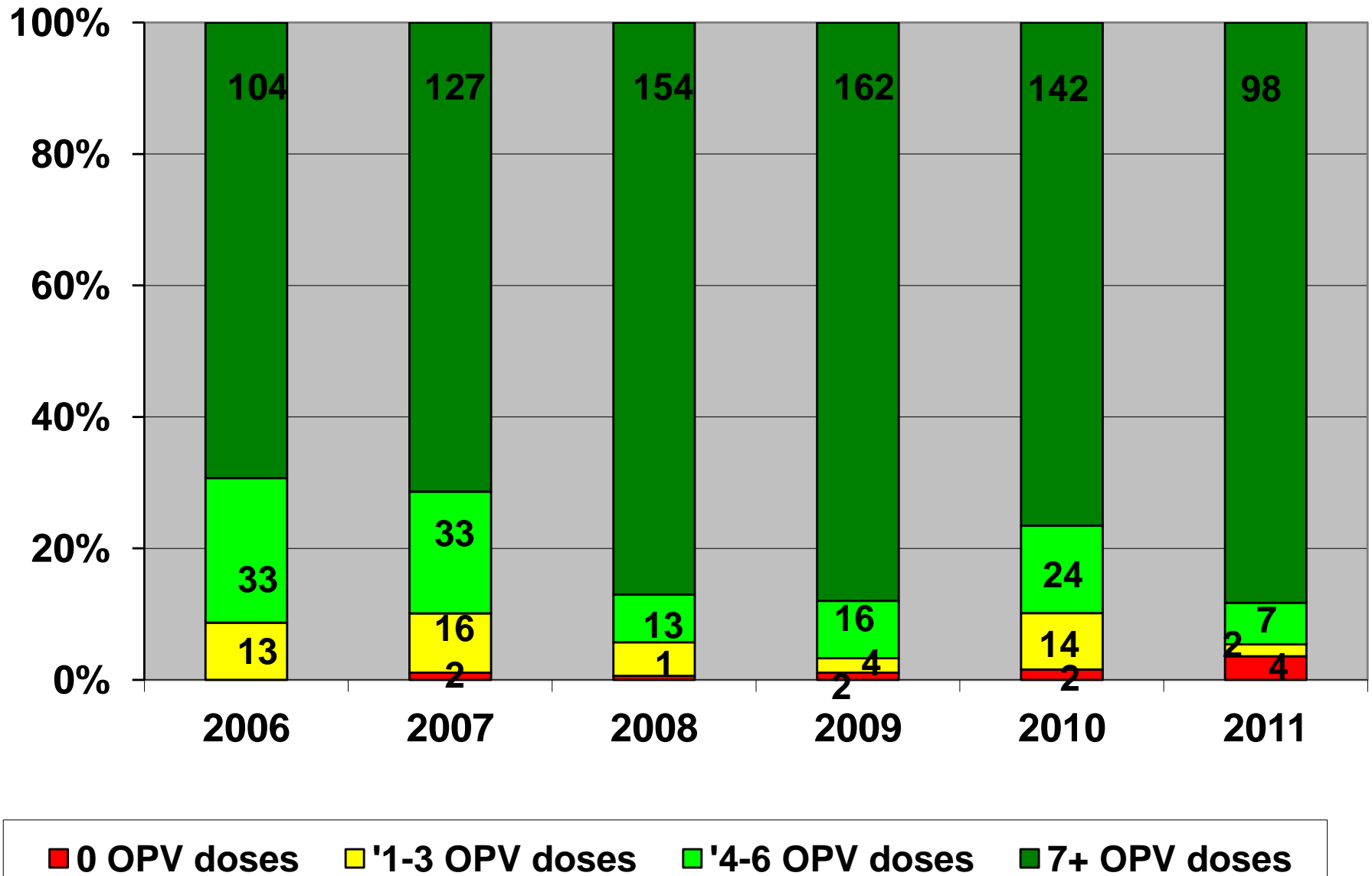
**Fig. 8: Percent distribution of AFP cases < 60 months by number of OPV doses, 2006-2011\***



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

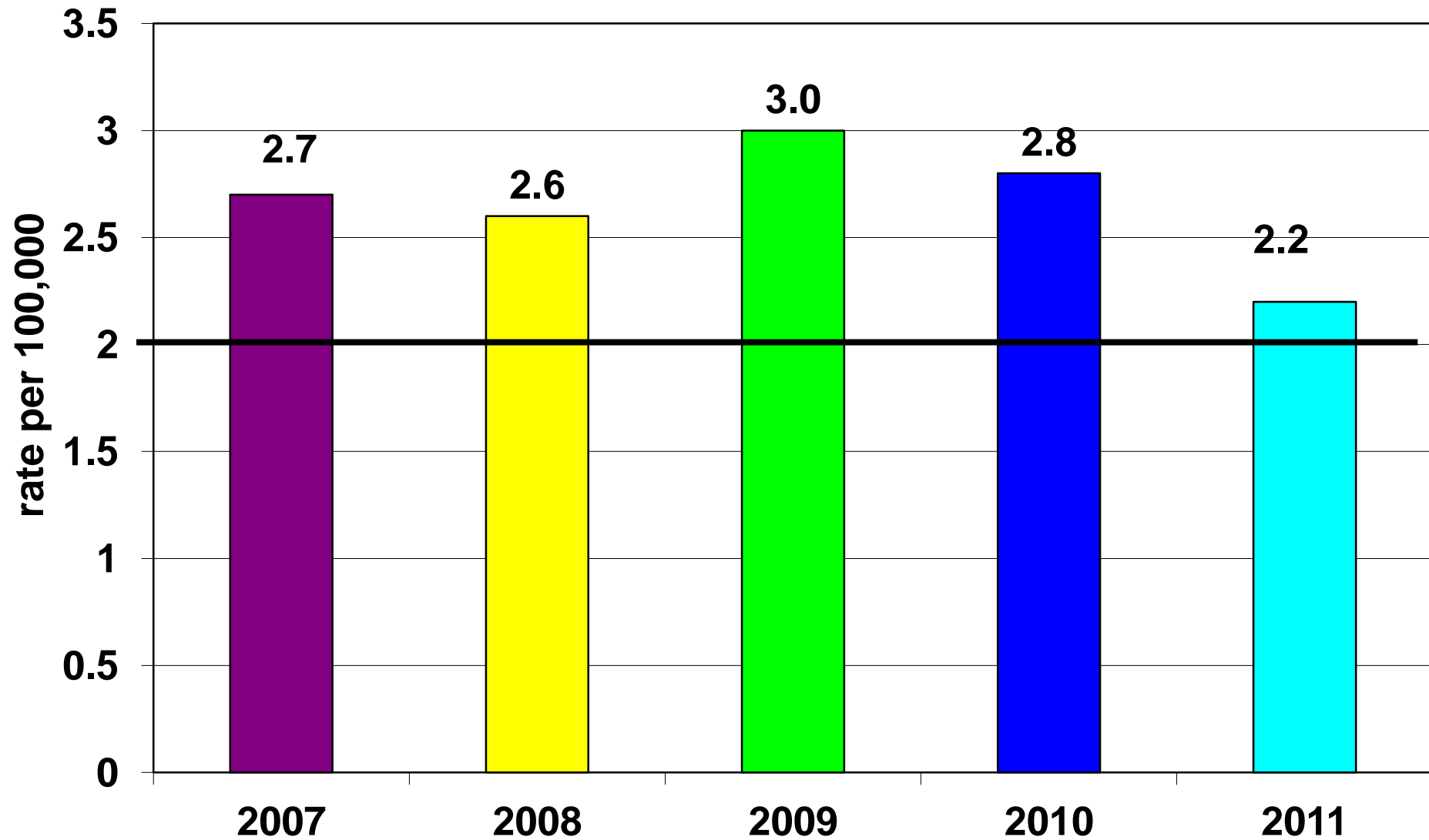
\* Up to 2/10/2011

**Fig. 9: No. & percent distribution of AFP cases 6-36 months by number of OPV doses, 2006-2011\***



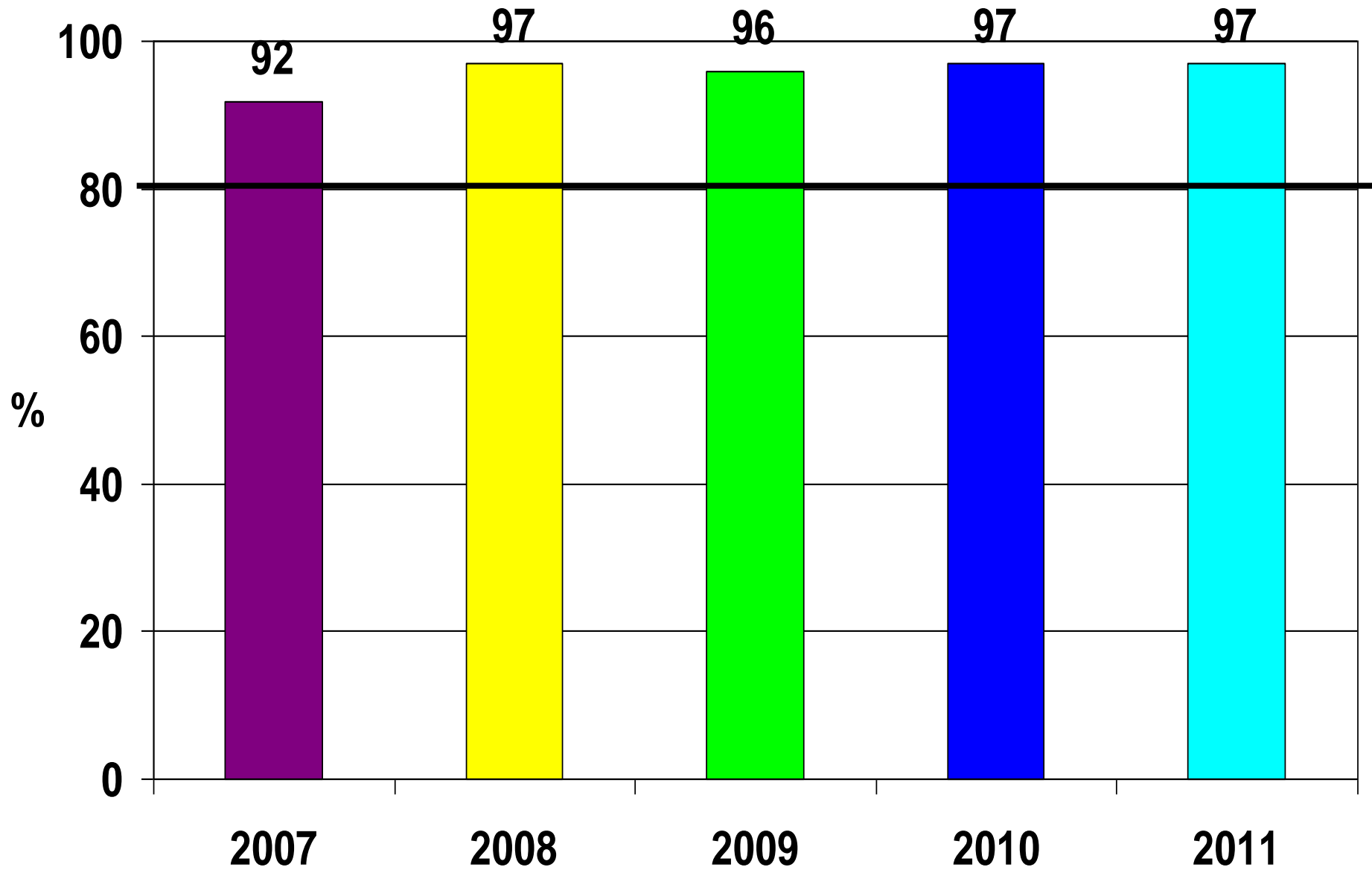
\* Up to 2/10/2011

**Fig. 10: Non-Polio AFP rate per 100,000 children under 15 years of age, 2007 – 2011\***



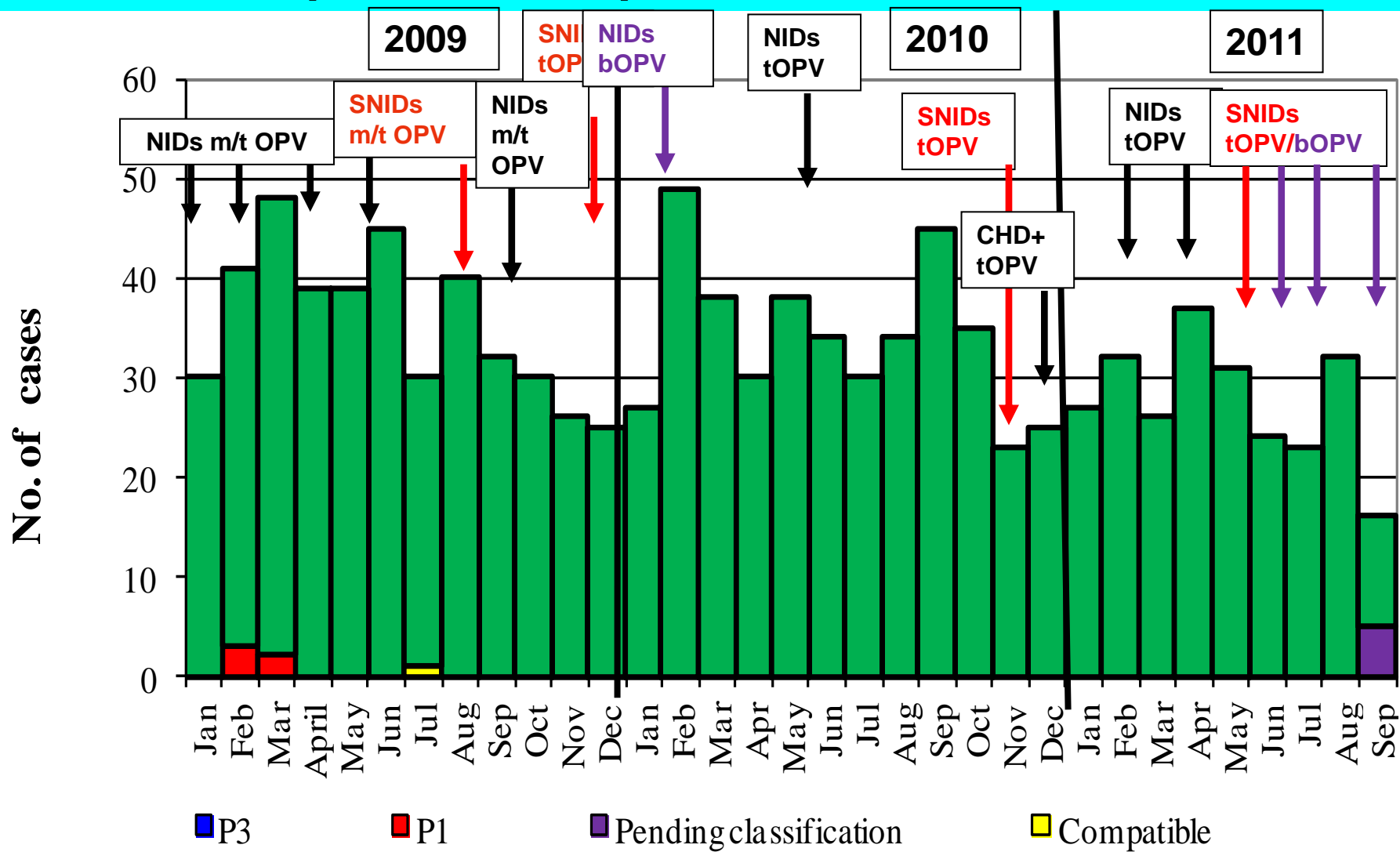
\* Up to 2/10/2011

**Fig. 11: Adequate stool collection rate, 2007 – 2011\***



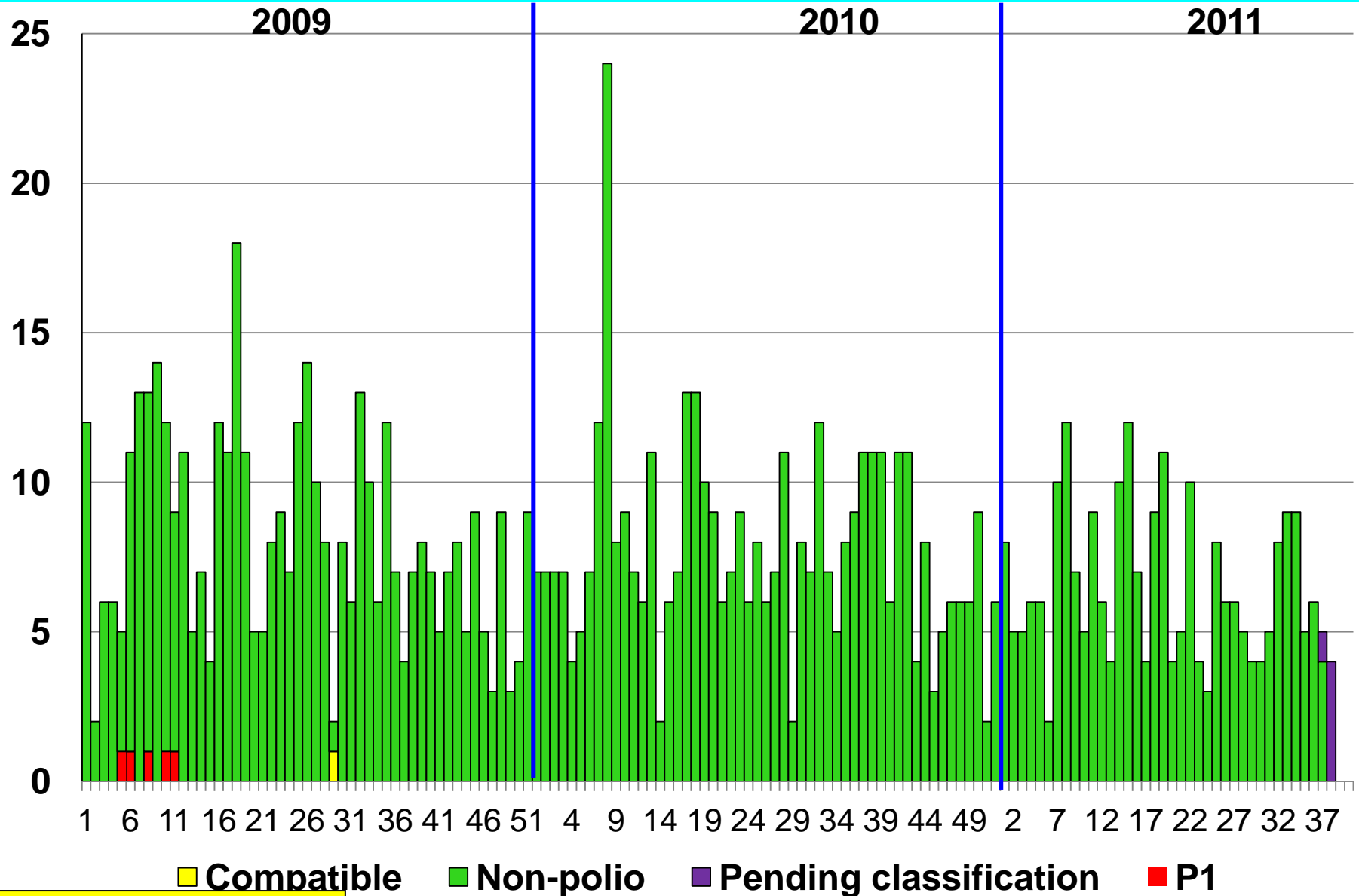
\* Up to 2/10/2011

# Fig 12. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation, 2009-2011\*



\* Up to 2/10/2011

# Fig. 13: Distribution of AFP cases by classification and week of onset, 2009 – 2011\*



\* Up to 2/10/2011

### Map 3. Non-polio AFP rate by state, 2010

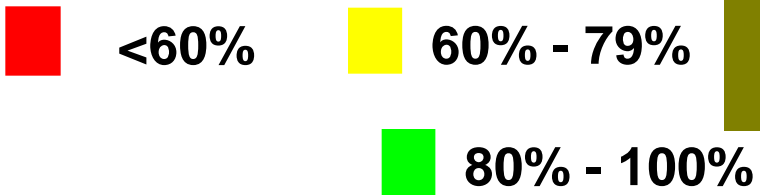
### Map 4. Annualized Non-polio AFP rate by state 2011\*



\* Up to 2/10/2011

**Map 5. Percent distribution of AFP cases having adequate stool samples by states, 2010**

**Map 6. Percent distribution of AFP cases having adequate stool samples by state, 2011\***



\* Up to 2/10/2011

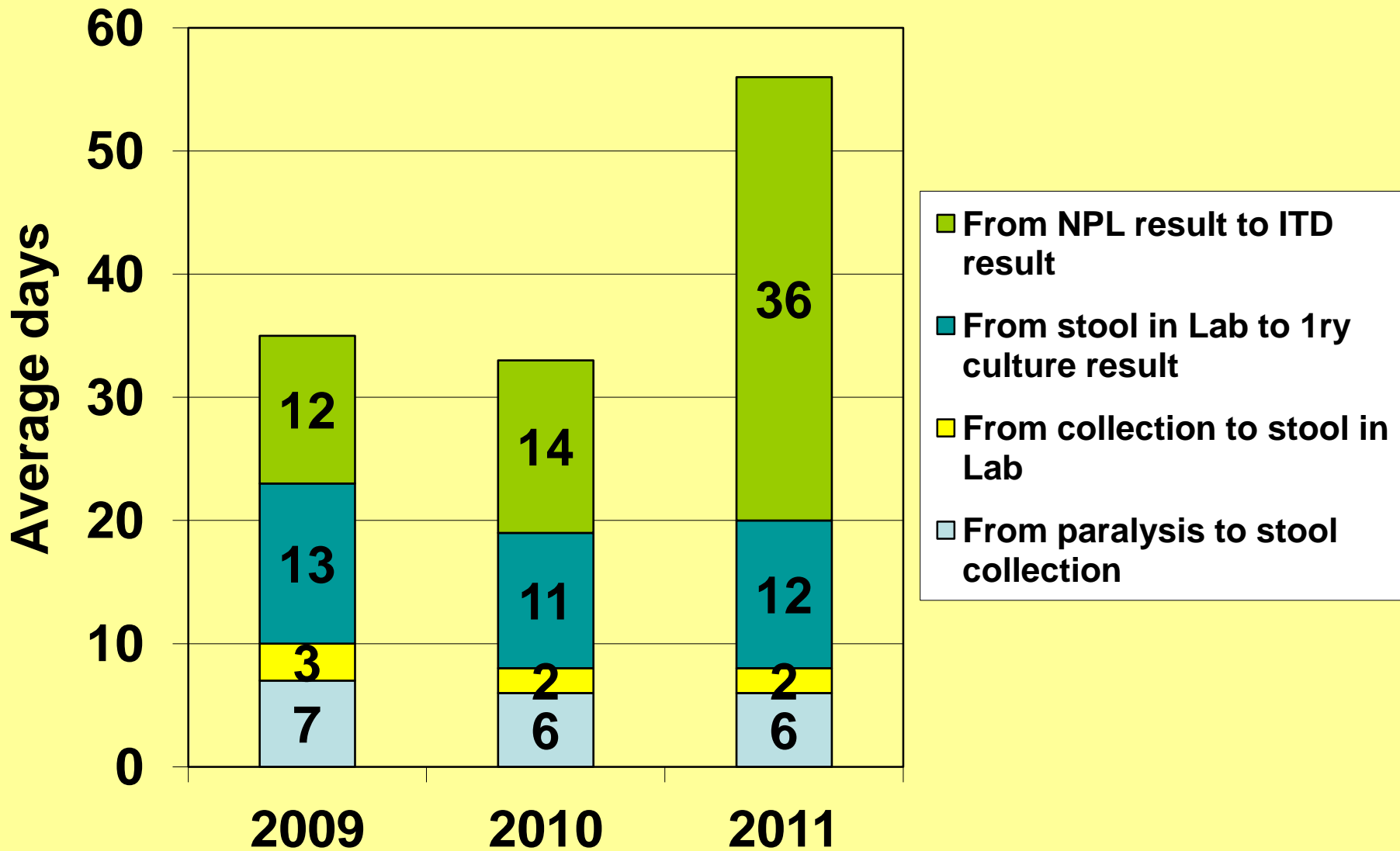
## Table 2. National polio lab performance indicators 2009-2011

Indicator	2009 up to W39	2010 up to W39	2011 up to W39
<b>AFP cases with samples tested in NPL</b>	<b>322</b>	<b>316</b>	<b>248</b>
<b>Cases with wild poliovirus (imported P1)</b>	<b>5</b>	<b>0</b>	<b>0</b>
<b>Cases with wild poliovirus (imported P3)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Cases with non-polio enterovirus</b>	<b>14%</b>	<b>18%</b>	<b>16%</b>
<b>SL viruses No. &amp; (%) from AFP cases</b>	<b>6(1.9%)</b>	<b>7(1.7%)</b>	<b>7(3.1%)</b>
<b>Median days from the time of samples received in the lab to primary culture report or L20B result</b>	<b>10 days</b>	<b>11days</b>	<b>12 days</b>
<b>Number of samples from the AFP contacts tested in the NPL</b>	<b>360</b>	<b>164</b>	<b>158</b>
<b>Contacts with non-polio enterovirus</b>	<b>9%</b>	<b>18.4%</b>	<b>13%</b>
<b>Sabin like viruses No. &amp; (%) from contacts</b>	<b>4(1.2%)</b>	<b>0</b>	<b>5(3.5%)</b>
<b>NSL like viruses from contacts</b>	<b>3</b>	<b>0</b>	<b>0</b>

**Table 3. Polio lab performance  
2009 - 2011**

<b>Week of onset</b>	<b>Total AFP Cases with samples</b>	<b>AFP Cases under processes</b>	<b>L20B +ve pending ITD</b>	<b>Negative cases</b>	<b>NPEV positive</b>	<b>% NPEV</b>	<b>Result reported within 14 days</b>	<b>Arrival within 3 days of being collected from the 2<sup>nd</sup> sample</b>	<b>Arrival within 3 days of being sent from the 2<sup>nd</sup> sample</b>
<b>2009 up to W39</b>	<b>322</b>	<b>9</b>	<b>0</b>	<b>267</b>	<b>46</b>	<b>14%</b>	<b>88%</b>	<b>82%</b>	<b>99%</b>
<b>2010 up to W39</b>	<b>316</b>	<b>25</b>	<b>0</b>	<b>229</b>	<b>51</b>	<b>18%</b>	<b>90%</b>	<b>86%</b>	<b>99%</b>
<b>2011 up to W39</b>	<b>248</b>	<b>5</b>	<b>0</b>	<b>204</b>	<b>39</b>	<b>16%</b>	<b>88%</b>	<b>82%</b>	<b>100%</b>

# Fig. 14: AFP Specimens' median timeliness NPL 2009-2011\*



\* Up to 2/10/2011