



World Health  
Organization

*Republic of Sudan*

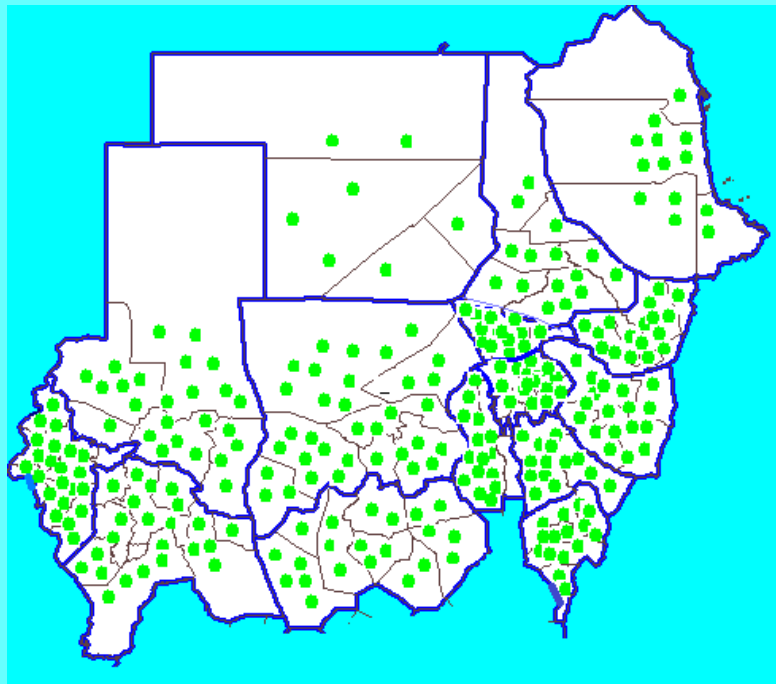


**Weekly AFP surveillance report**  
**week 47**

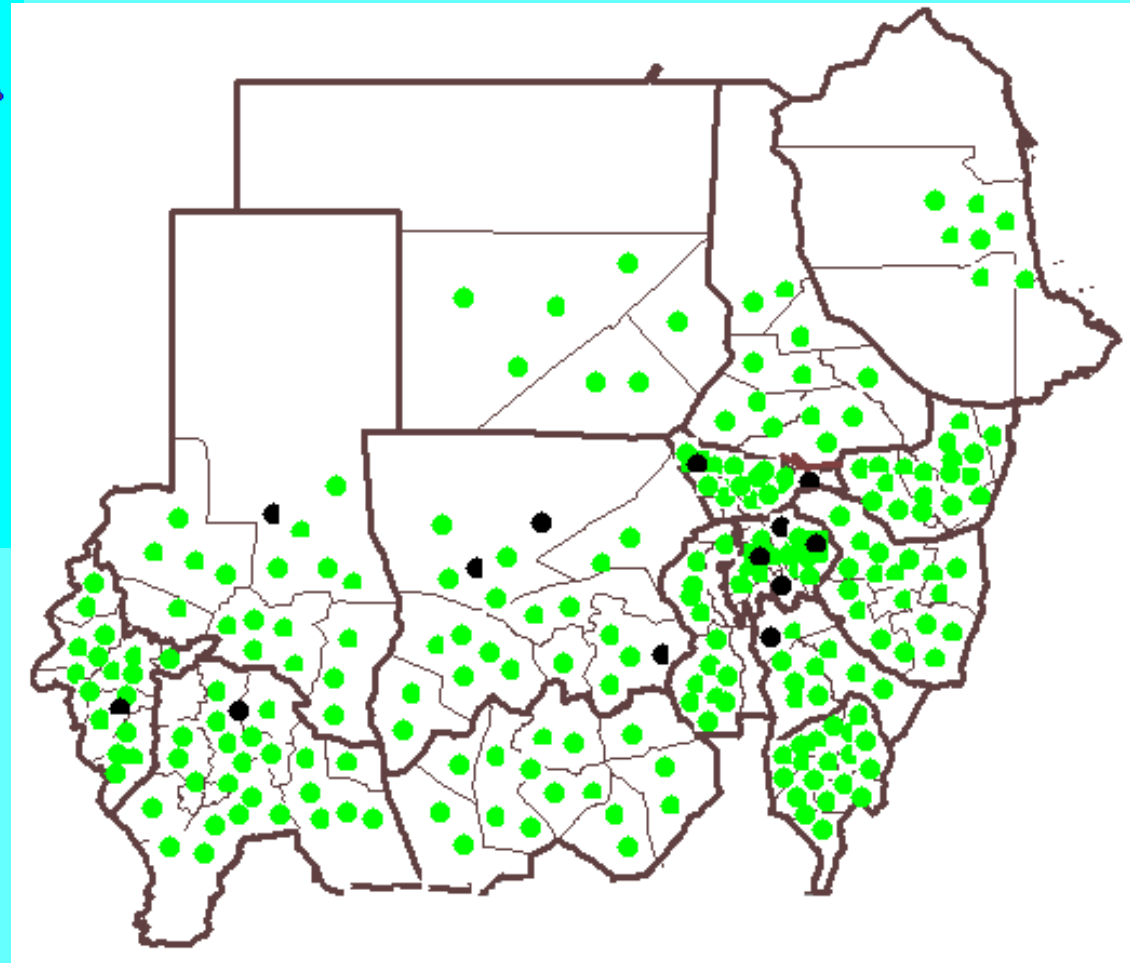
**Ending on 27 November 2011**

*AFP Surveillance central unit*

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



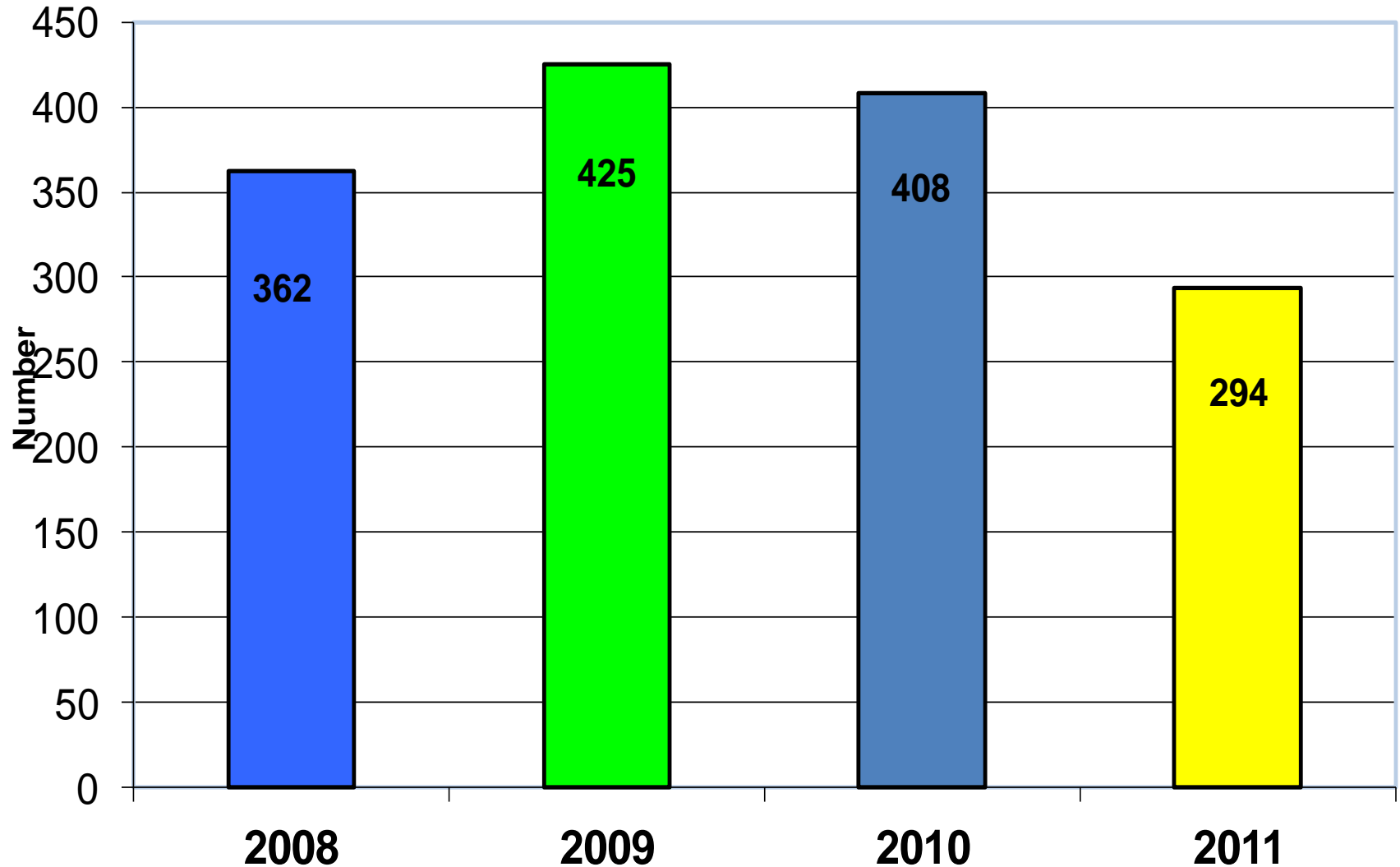
**Map 2. Distribution of AFP cases by classification, Sudan, 2011\***



- Non-polio AFP
- Pending classification

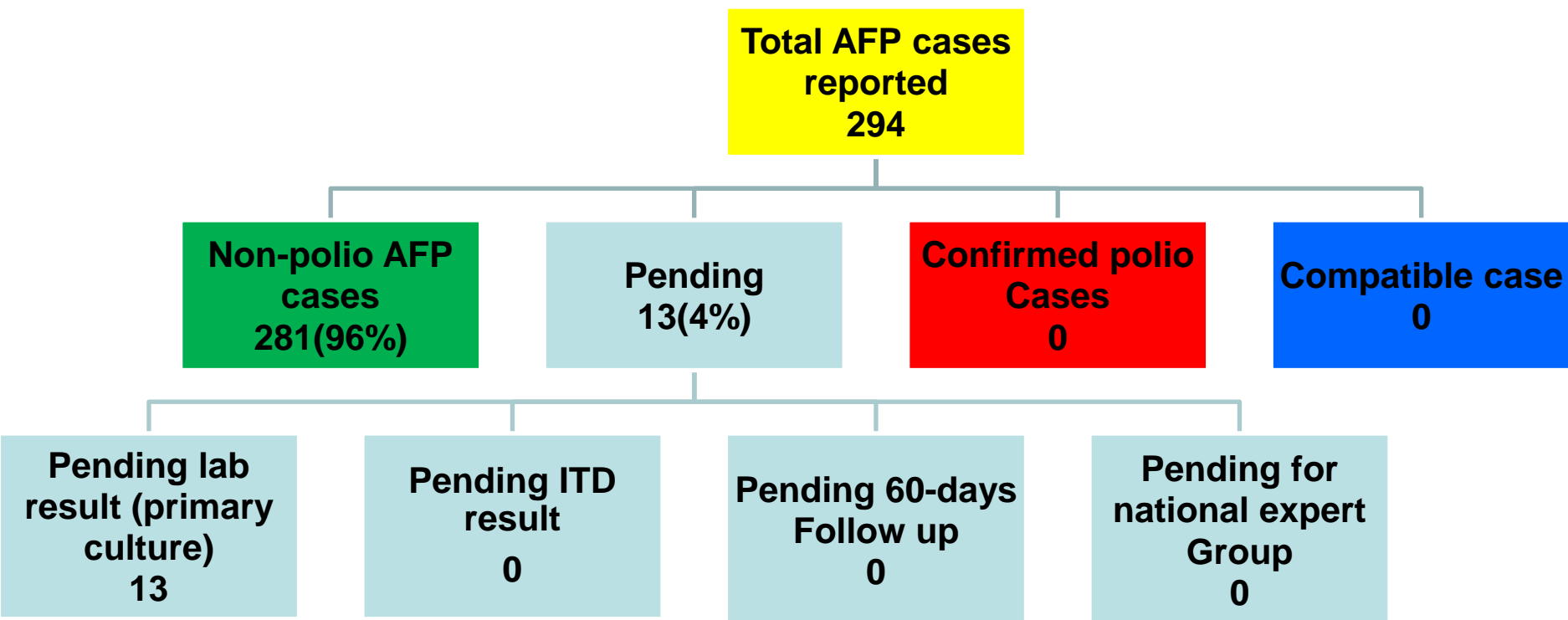
**\* Up to 27/11/2011**

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



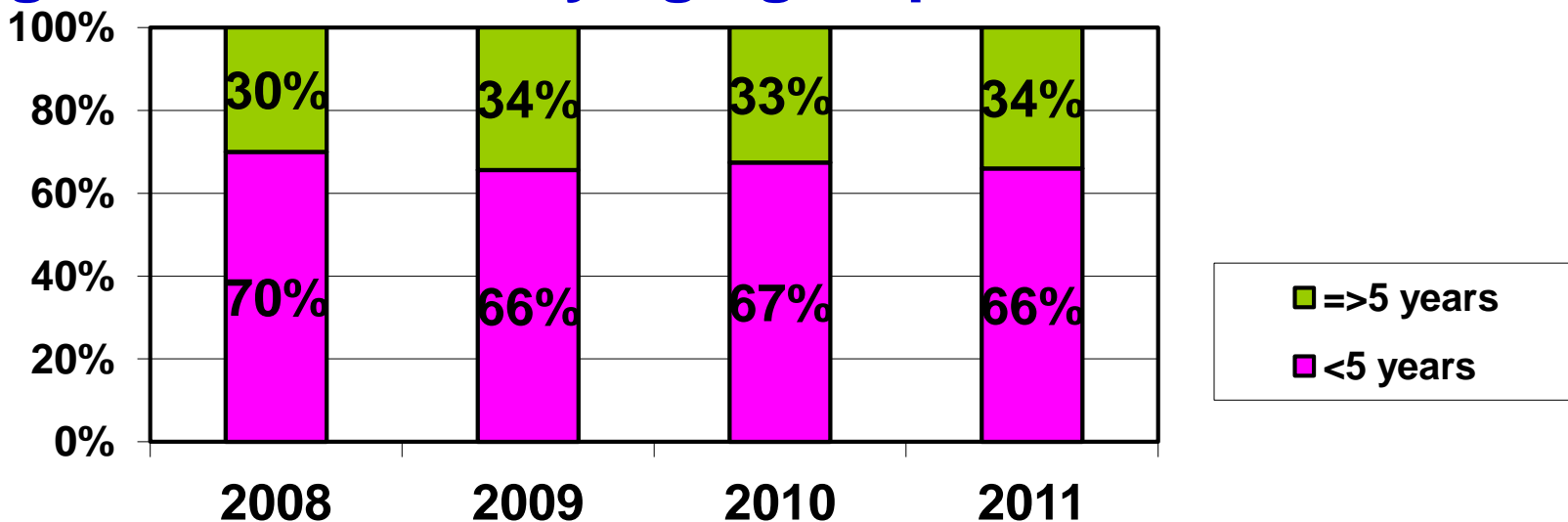
**\* Up to 27/11/2011**

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



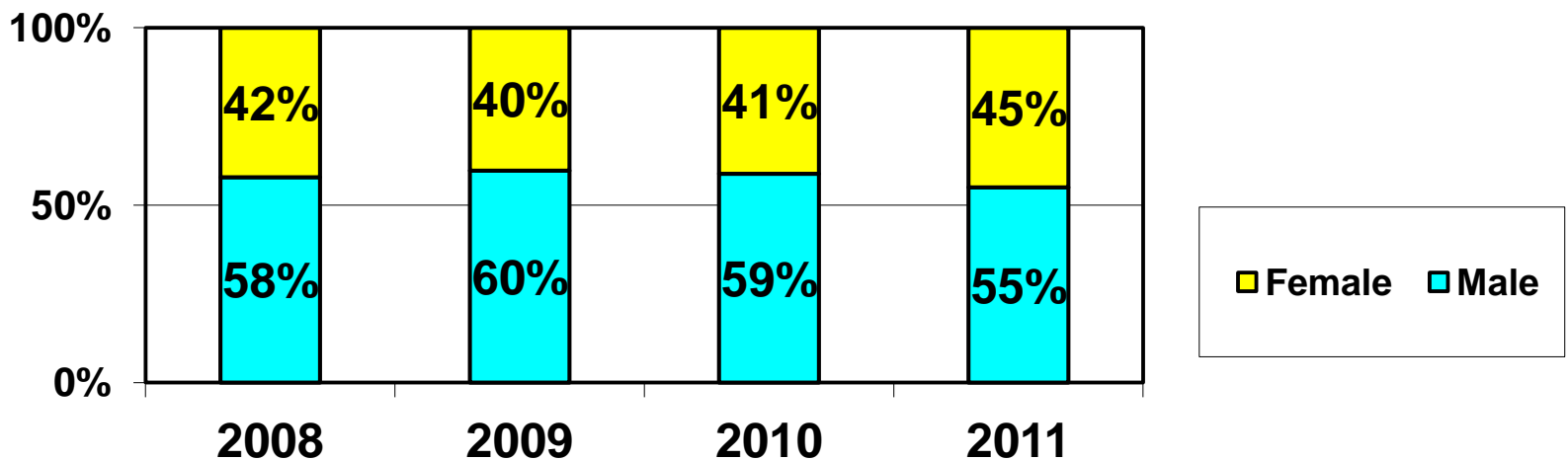
**\* Up to 27/11/2011**

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



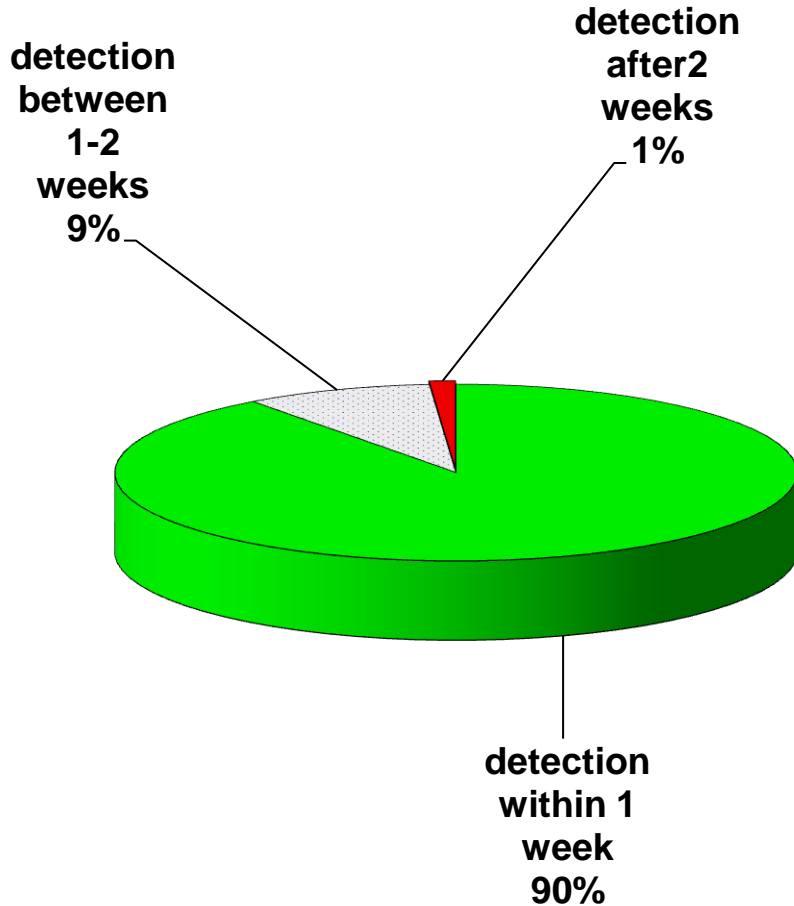
\* Up to 27/11/2011

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



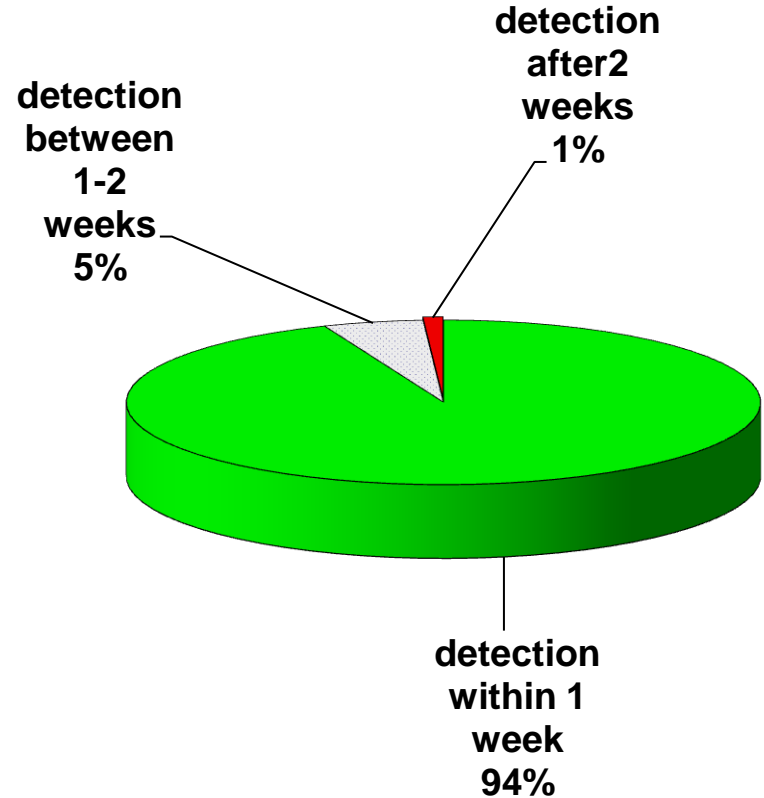
**Fig. 5: Percent distribution of AFP cases by time of detection, 2010**

**N = 408 AFP cases**



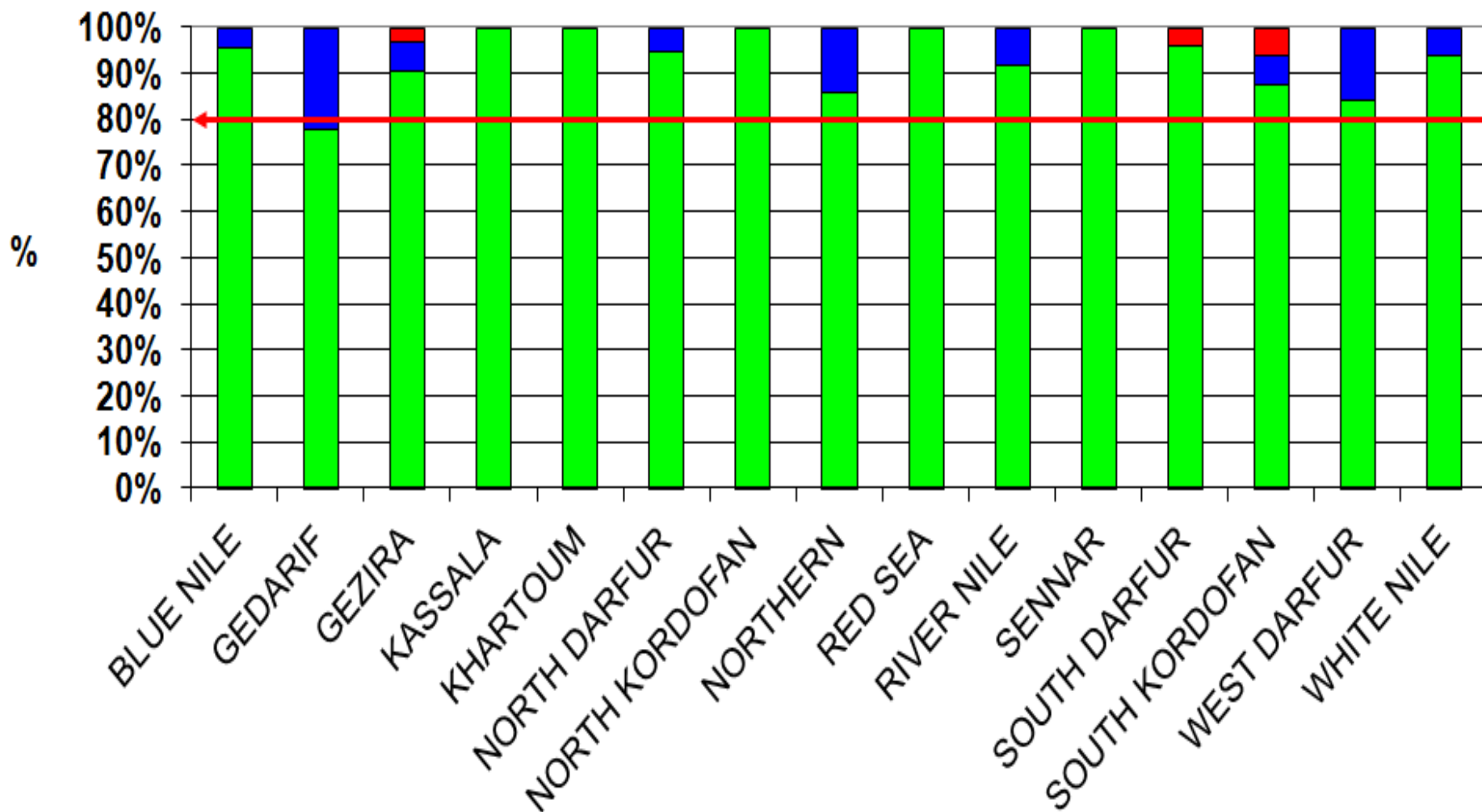
**Fig. 6: Percent distribution of AFP cases by time of detection, 2011\***

**N = 294 AFP cases**



**\* Up to 27/11/2011**

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



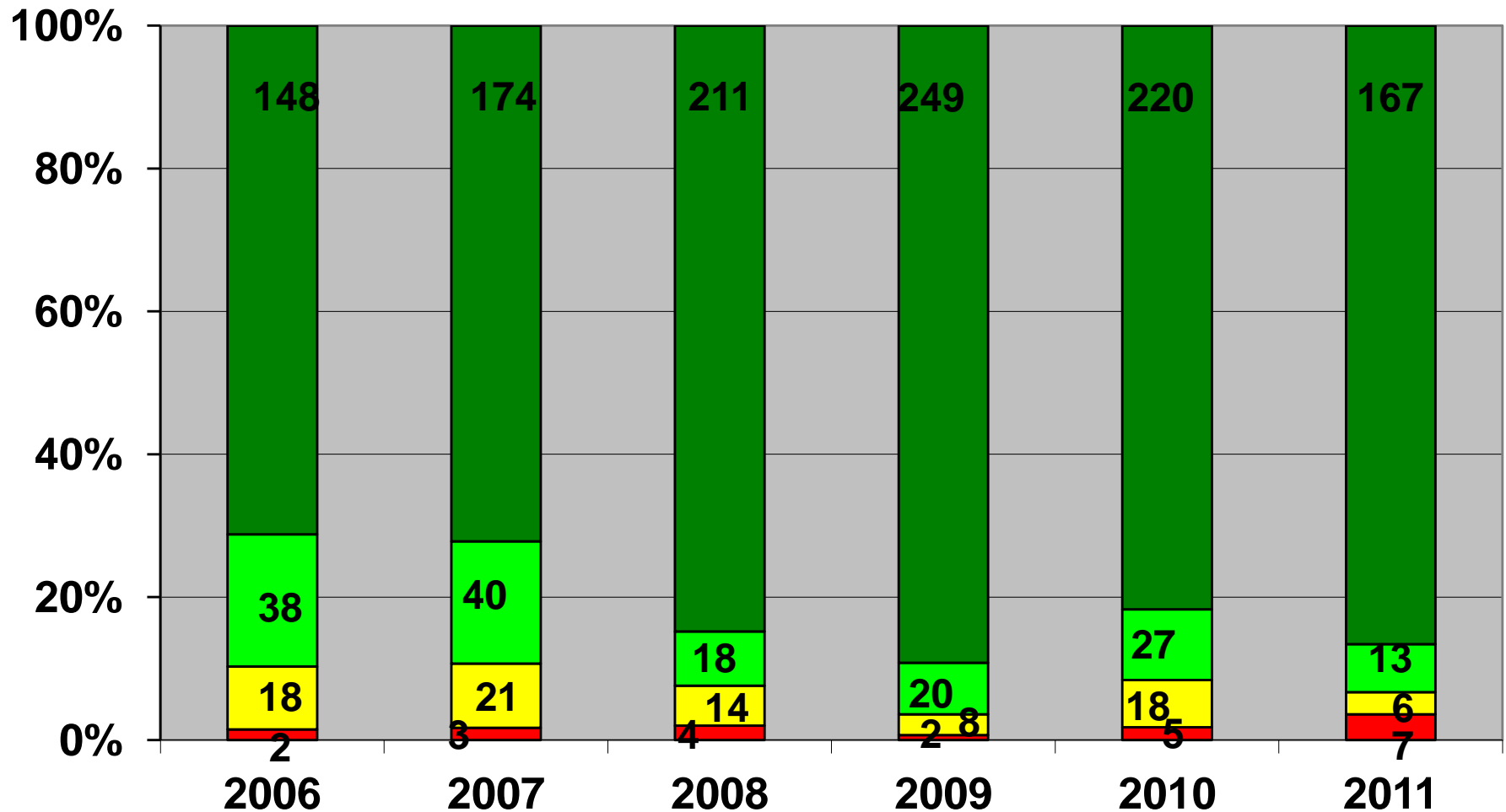
\* Up to 27/11/2011

■ Early detection ■ Moderate detection ■ Late detection

# Table 1. Major AFP surveillance performance indicators, up to 27/11/2011

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	22	22	0	0	0	100%	6.7	14%
Gedarif	860,364	18	18	0	0	0	94%	2.3	11%
Gezira	1,921,077	32	28	4	0	0	94%	1.8	21%
Kasala	836,195	19	19	0	0	0	100%	2.5	21%
Khartom	2,401,033	46	44	2	0	0	100%	2.1	14%
N.Darf	863,045	19	18	1	0	0	95%	2.4	17%
N.Kord	1,262,262	25	22	3	0	0	96%	2.2	9%
Northern	267,256	7	7	0	0	0	100%	2.9	29%
Red Sea	330,018	7	7	0	0	0	100%	2.3	29%
River Nile	461,734	12	12	0	0	0	92%	2.9	17%
Sennar	717,437	11	10	1	0	0	100%	1.7	10%
S.Darfur	1,747,110	25	24	1	0	0	96%	1.6	17%
S. Kord	960,789	16	16	0	0	0	94%	1.8	13%
W.Darfur	949,143	19	18	1	0	0	95%	2.2	11%
W. Nile	834,567	16	16	0	0	0	100%	2.1	13%
<b>Total</b>	<b>14,777,621</b>	<b>294</b>	<b>281</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>97%</b>	<b>2.2</b>	<b>15%</b>

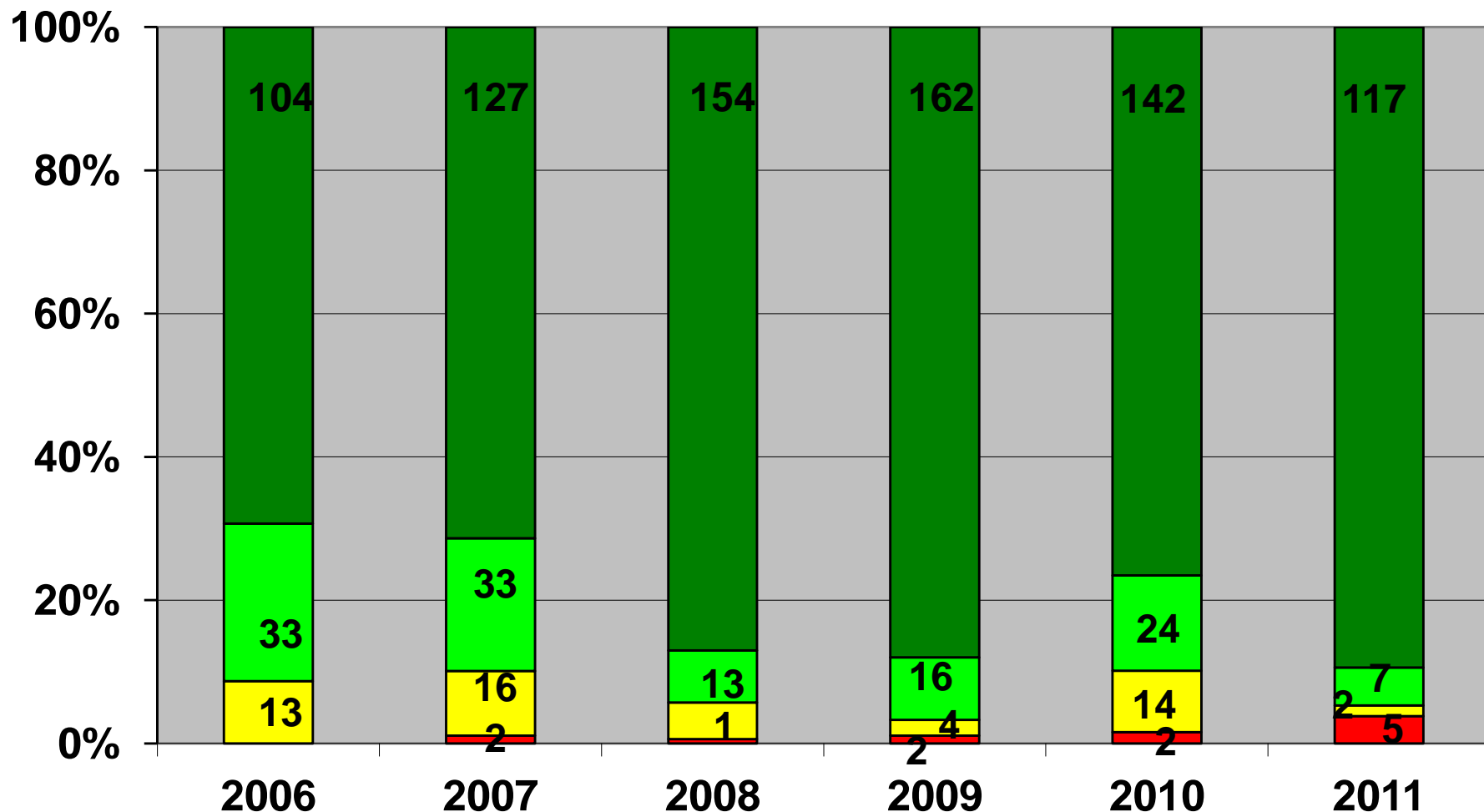
**Fig. 8: Percent distribution of AFP cases < 60 months by number of OPV doses, 2006-2011\***



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

\* Up to 27/11/2011

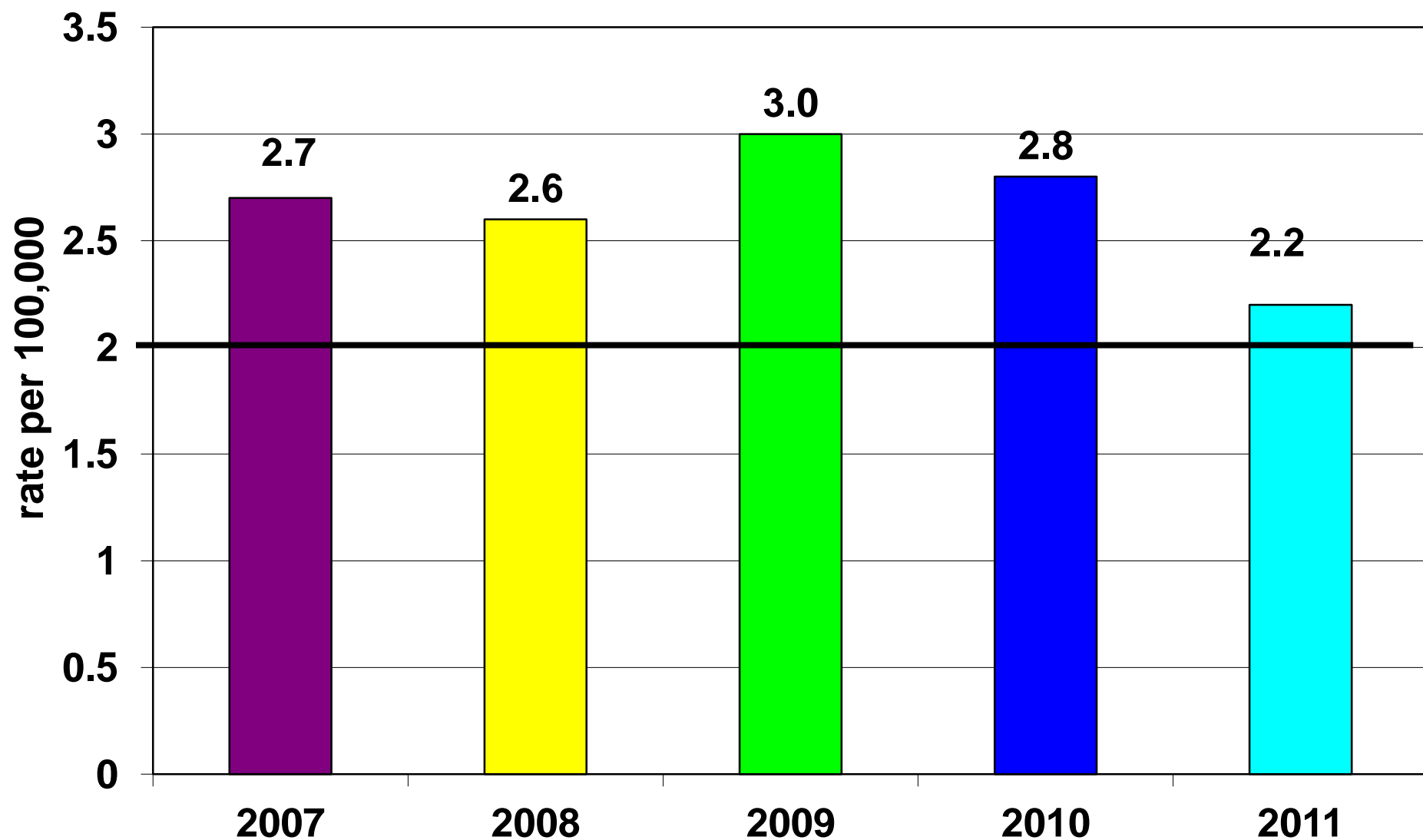
**Fig. 9: No. & percent distribution of AFP cases 6-36 months by number of OPV doses, 2006-2011\***



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

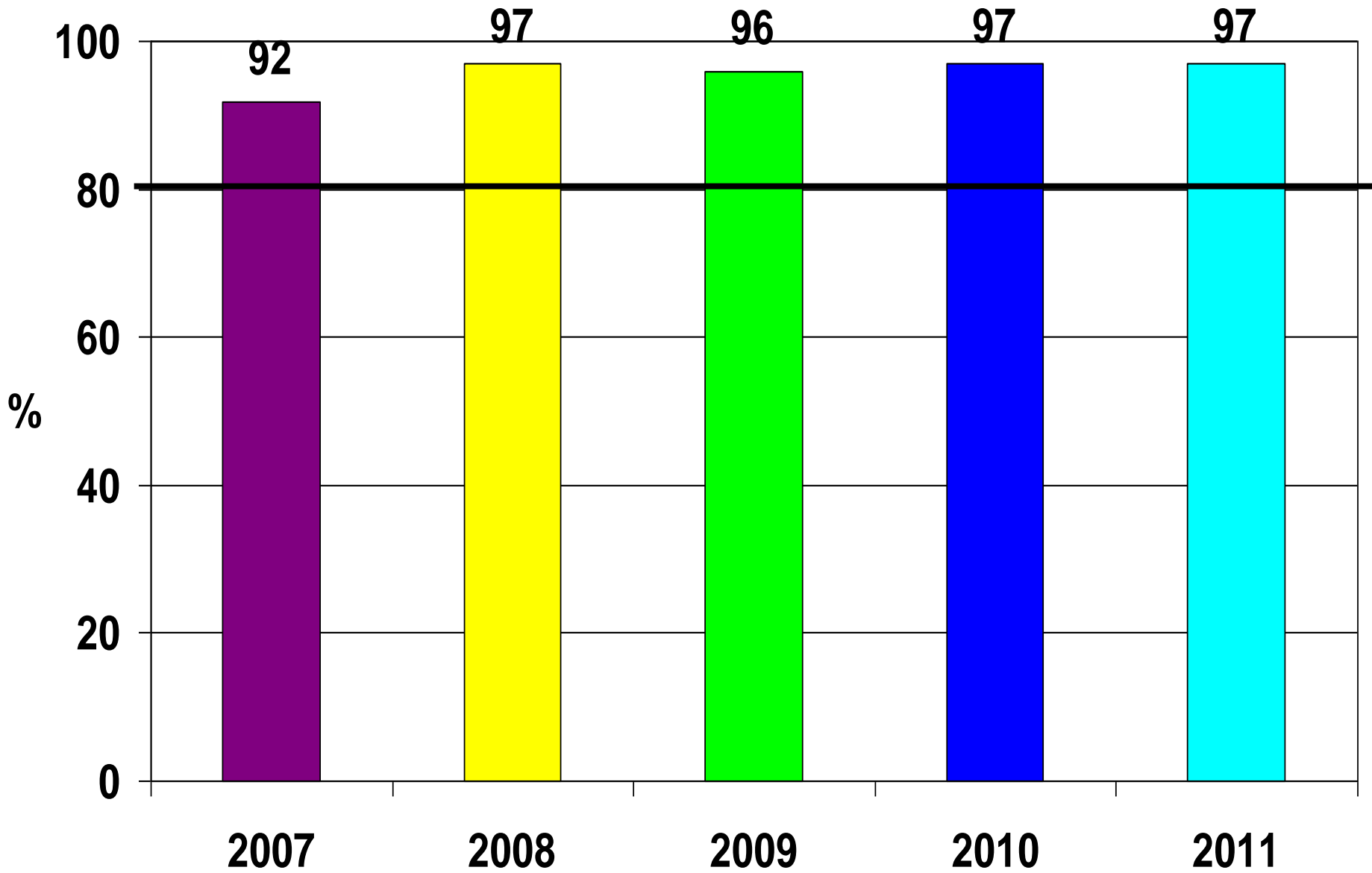
\* Up to 27/11/2011

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



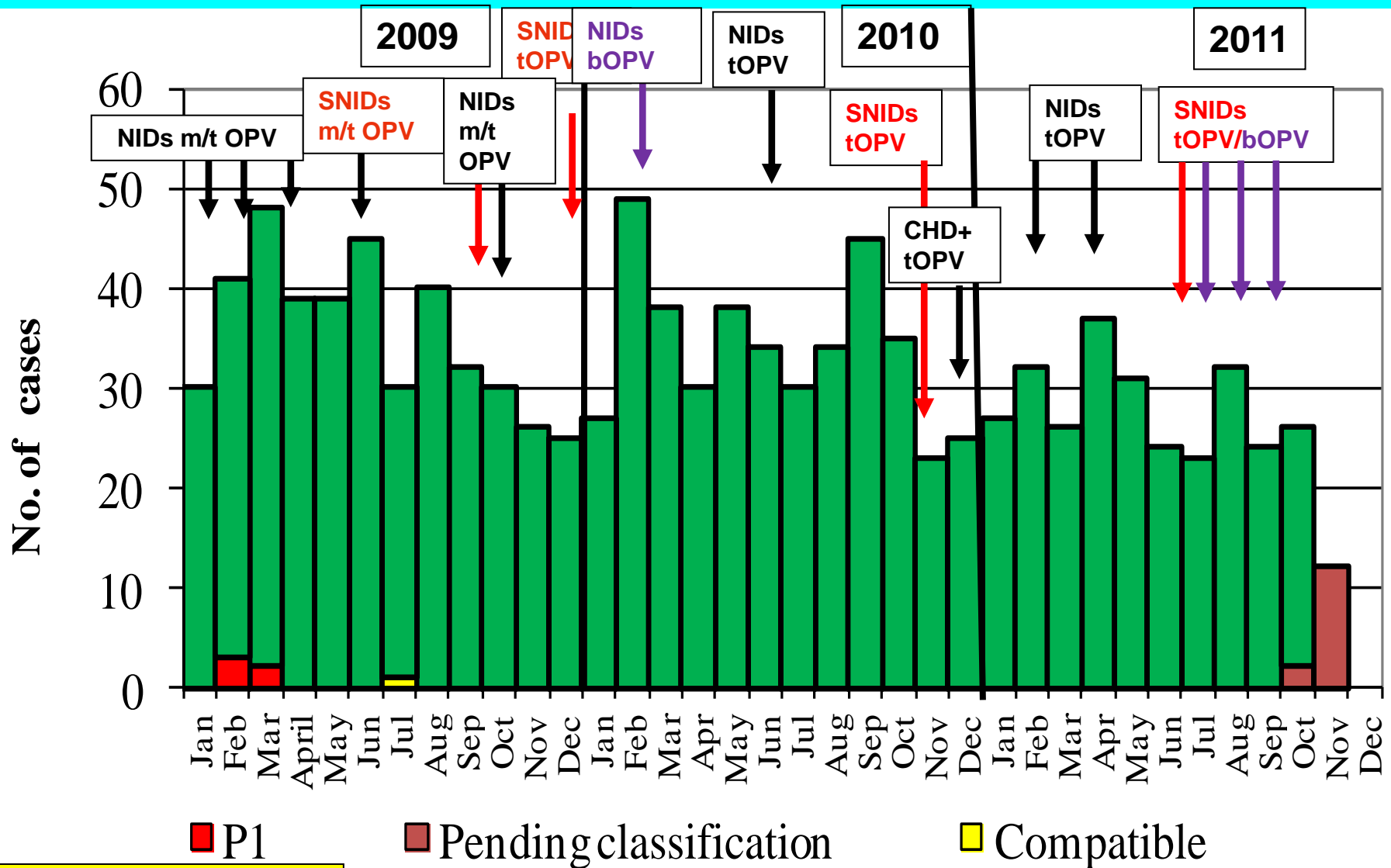
\* Up to 27/11/2011

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



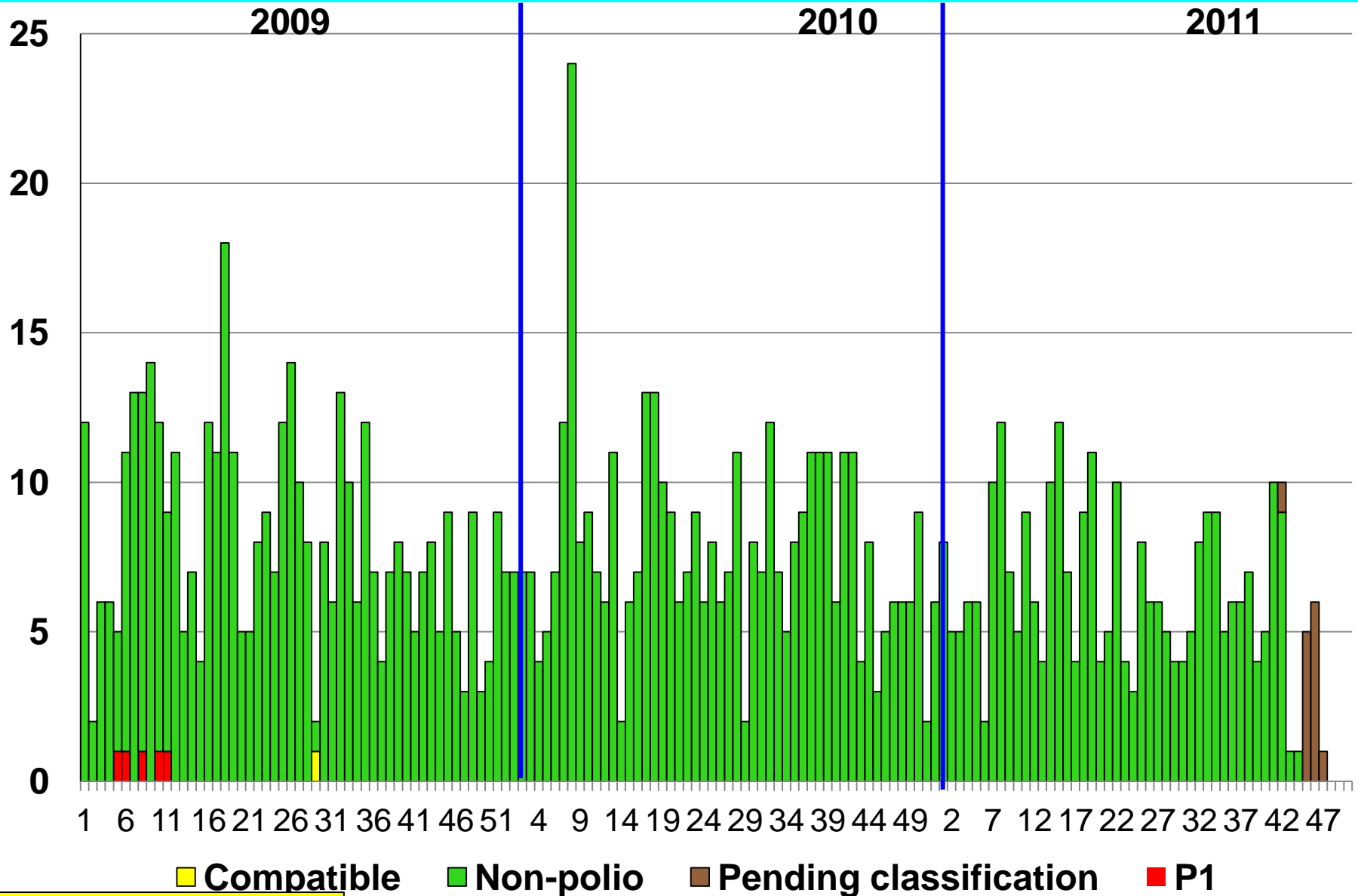
\* Up to 27/11/2011

# 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 27/11/2011

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



\* Up to 27/11/2011

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

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

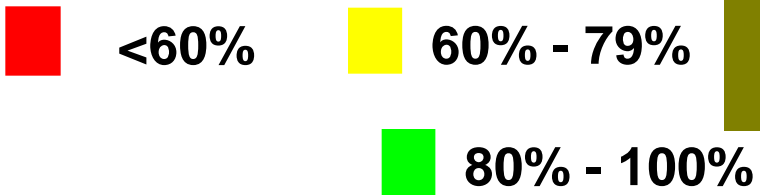


- <1 per 100,000
- 1-1.9 per 100,000
- 2 or more per 100,000

\* Up to 27/11/2011

**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 27/11/2011**

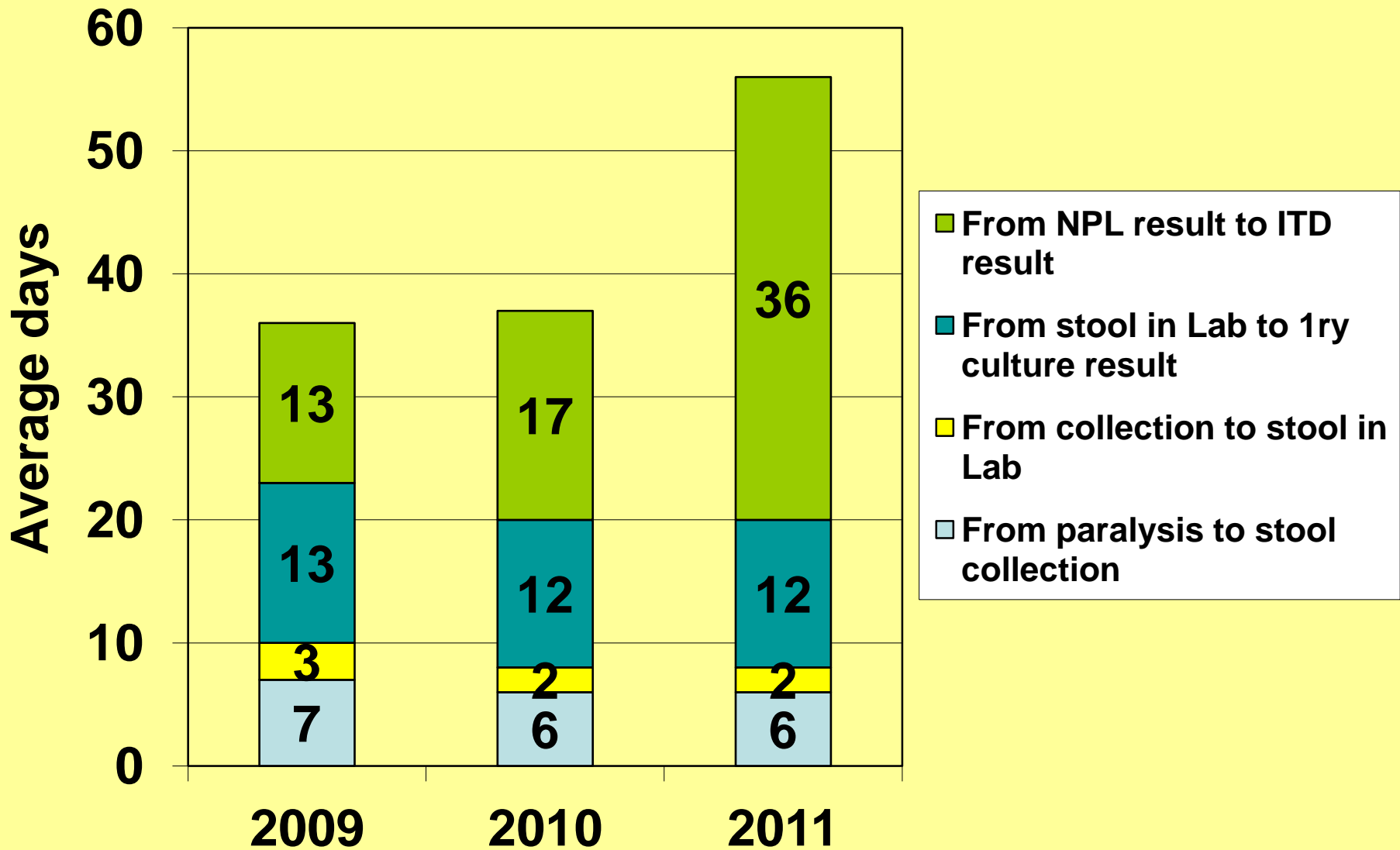
## Table 2. National polio lab performance indicators 2009-2011

Indicator	2009 up to W47	2010 up to W47	2011 up to W47
<b>AFP cases with samples tested in NPL</b>	<b>378</b>	<b>370</b>	<b>294</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>15%</b>	<b>15%</b>
<b>SL viruses No. &amp; (%) from AFP cases</b>	<b>6(1.7%)</b>	<b>6(1.7%)</b>	<b>8(2.8%)</b>
<b>Median days from the time of samples received in the lab to primary culture report or L20B result</b>	<b>12 days</b>	<b>12days</b>	<b>12 days</b>
<b>Number of samples from the AFP contacts tested in the NPL</b>	<b>433</b>	<b>212</b>	<b>191</b>
<b>Contacts with non-polio enterovirus</b>	<b>8.5%</b>	<b>13%</b>	<b>12%</b>
<b>Sabin like viruses No. &amp; (%) from contacts</b>	<b>4(1.0%)</b>	<b>0</b>	<b>5(2.8%)</b>
<b>NSL like viruses from contacts</b>	<b>3</b>	<b>0</b>	<b>0</b>

## Table 3. Polio lab performance 2009 - 2011

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
2009 up to W47	378	17	0	311	50	14%	89%	80.9%	98.9%
2010 up to W47	370	7	0	307	56	15%	94%	85%	99%
2011 up to W47	291	13	0	238	43	15%	89.6%	83%	100%

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



\* Up to 27/11/2011