



World Health  
Organization

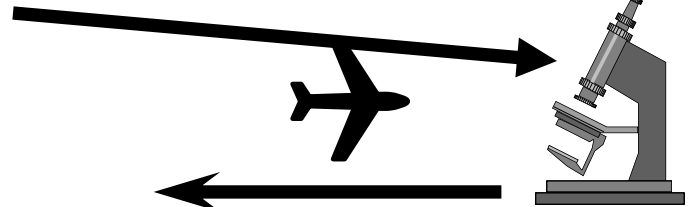
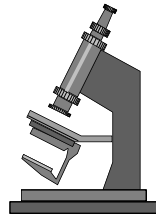
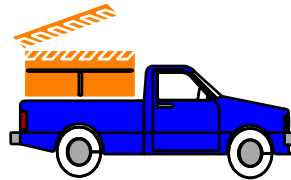
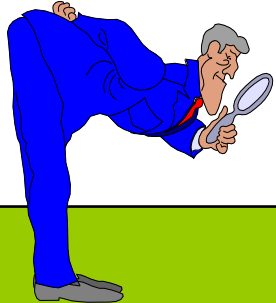


*Republic of Sudan*



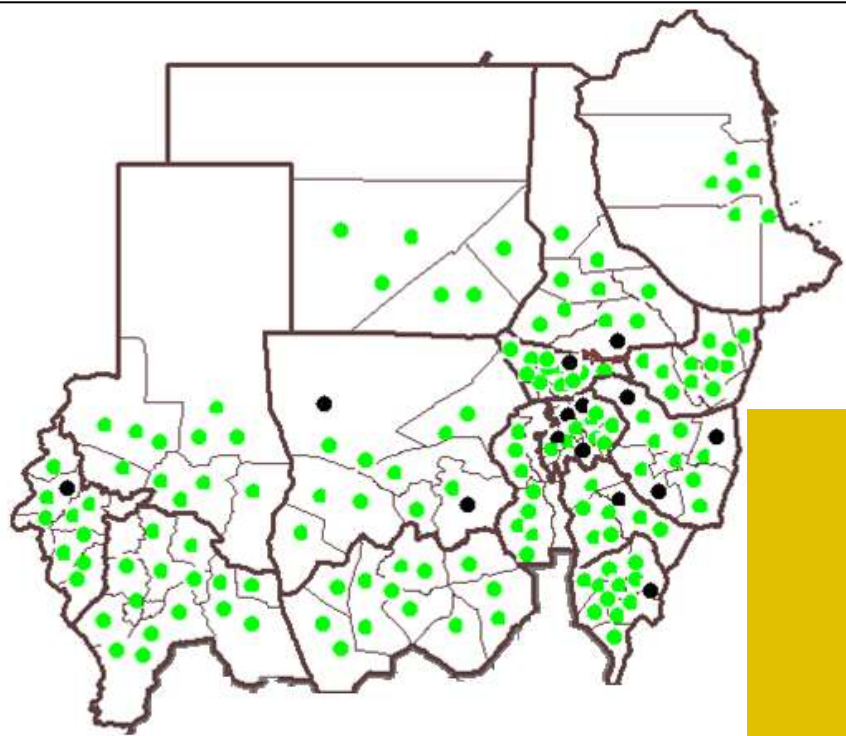
**Weekly AFP surveillance report  
week 28**

**Ending on 15 July 2012**

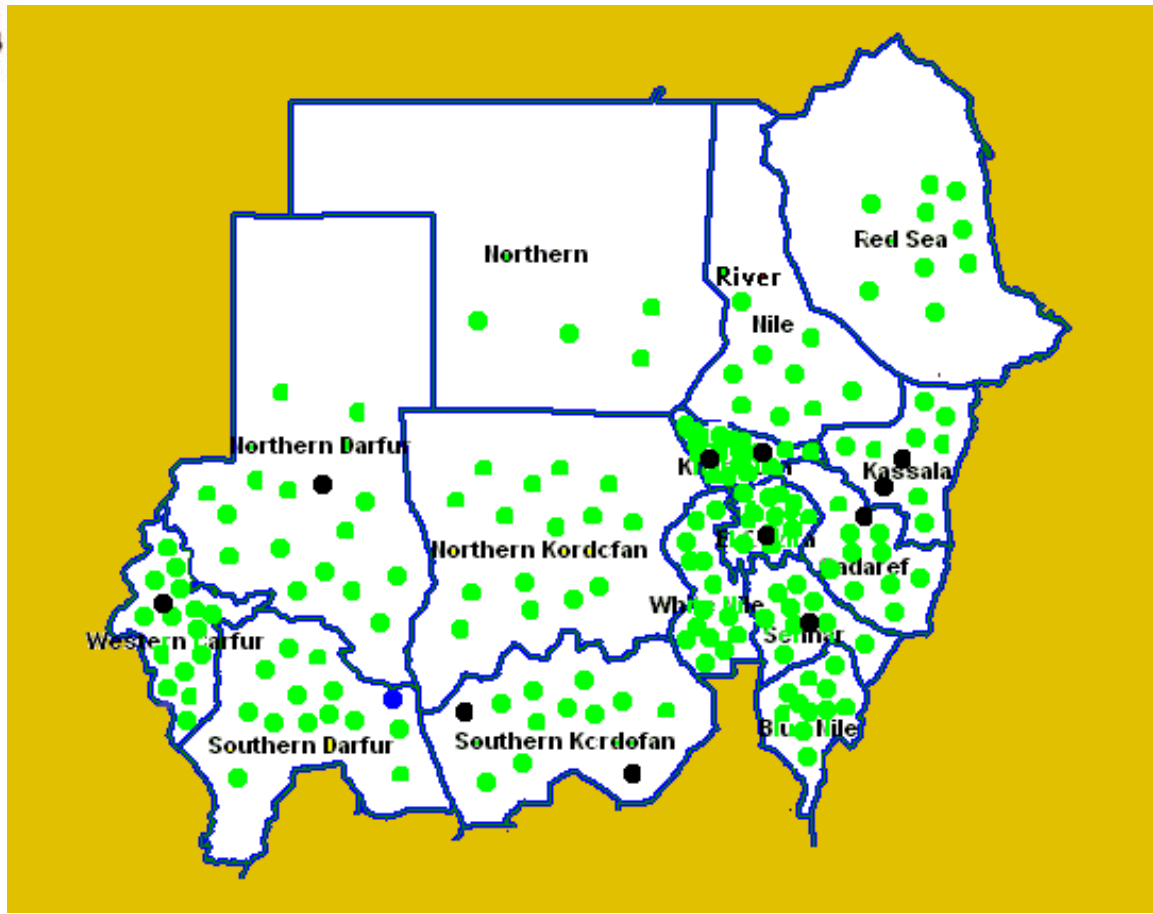


*AFP Surveillance central unit*

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



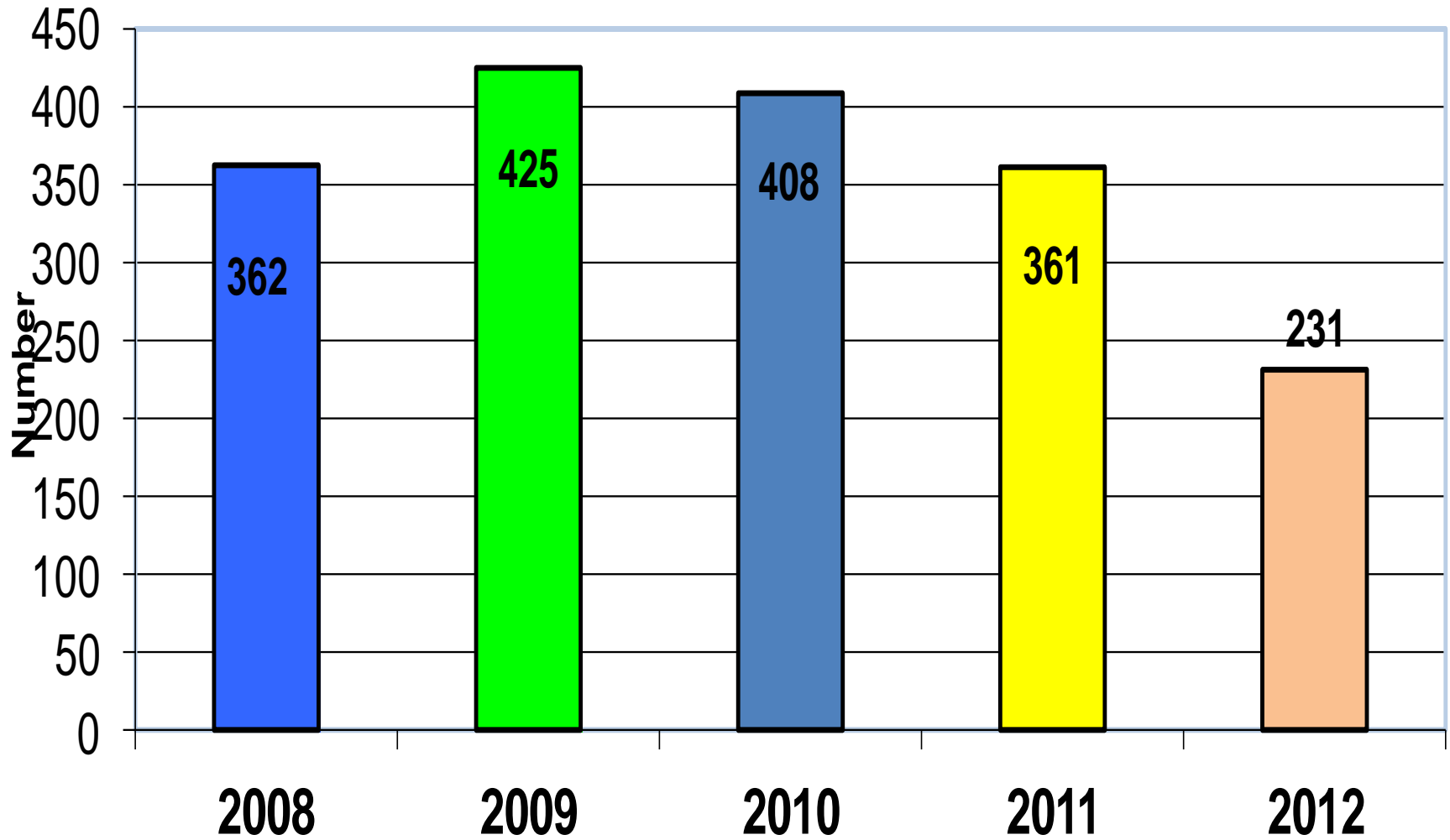
**Map 2. Distribution of AFP cases by classification, Sudan, 2012\***



- Non-polio AFP
- Pending classification
- VDPV

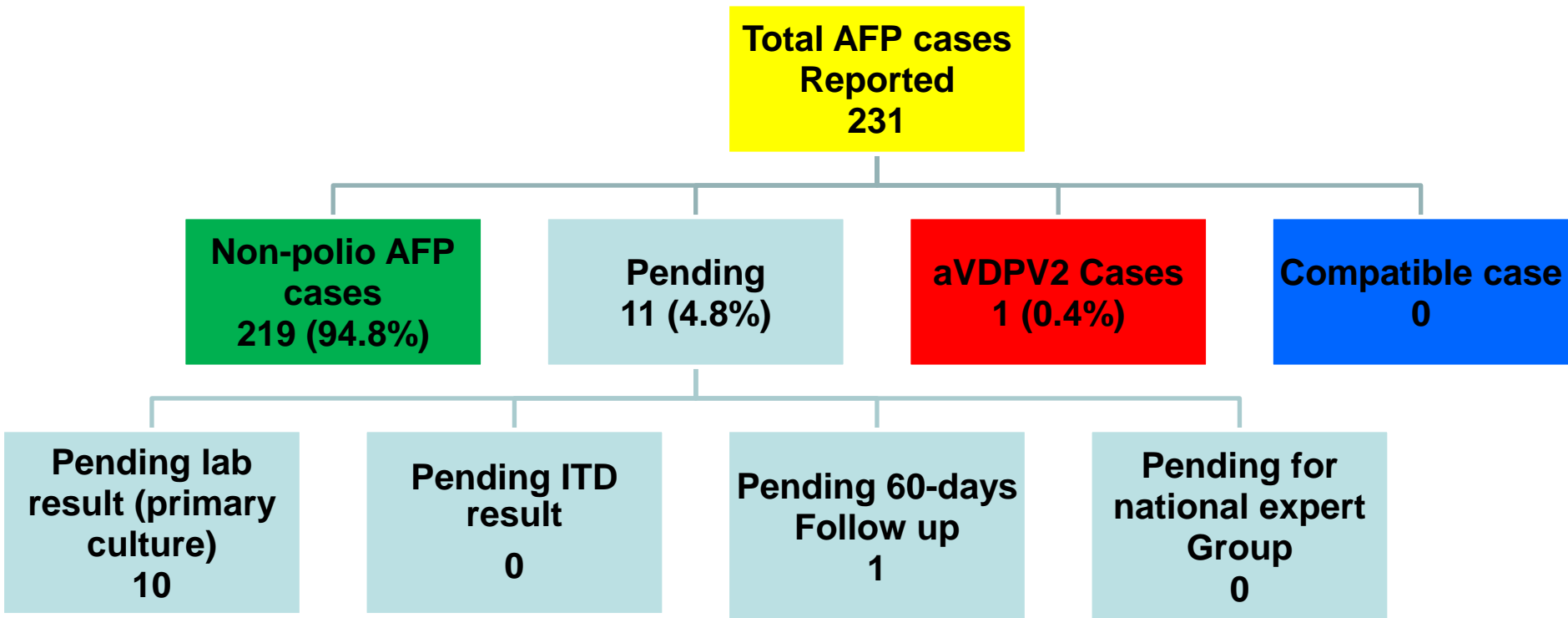
**\*Up to week 28**

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



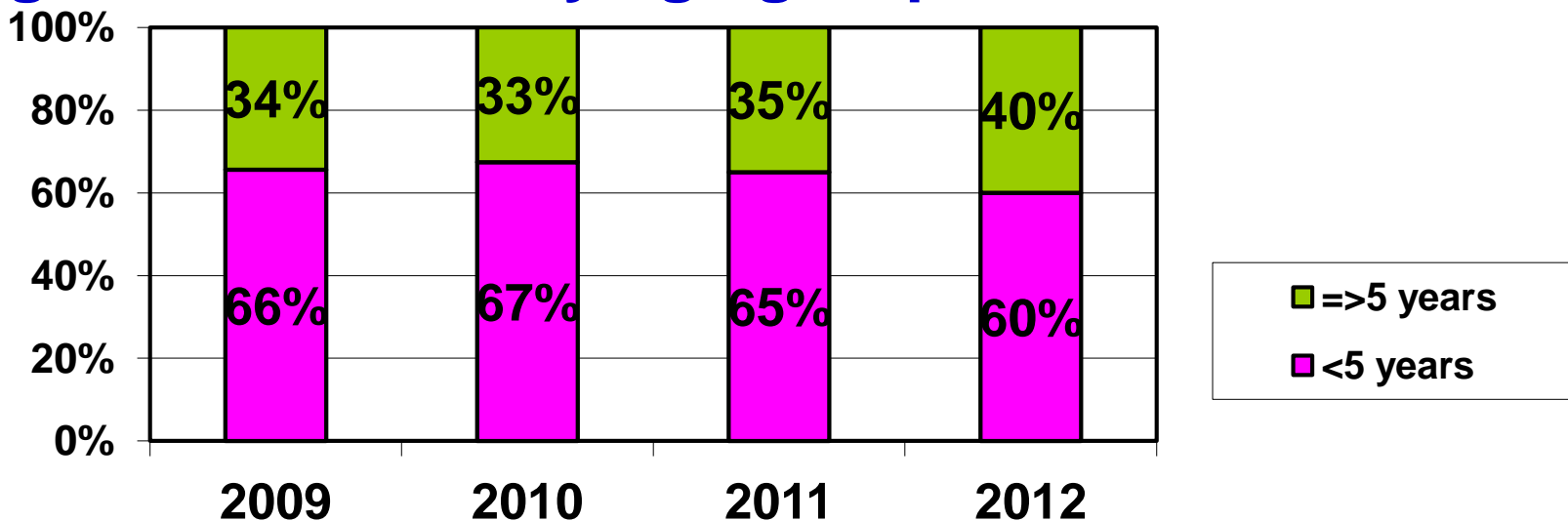
**\*Up to week 28**

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



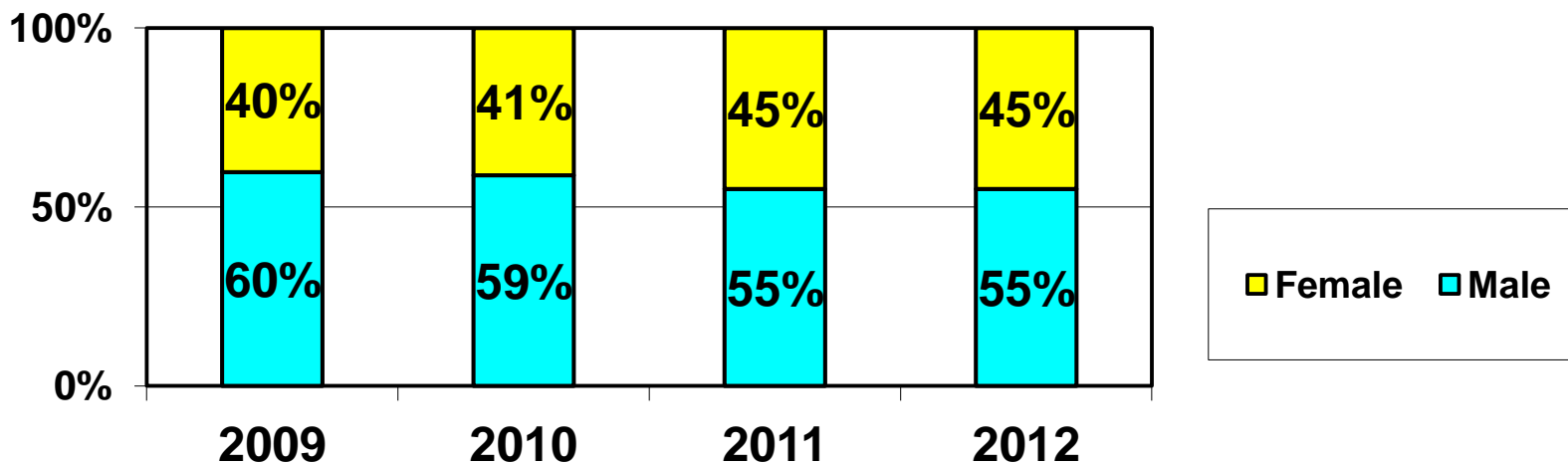
**\*Up to week 28**

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



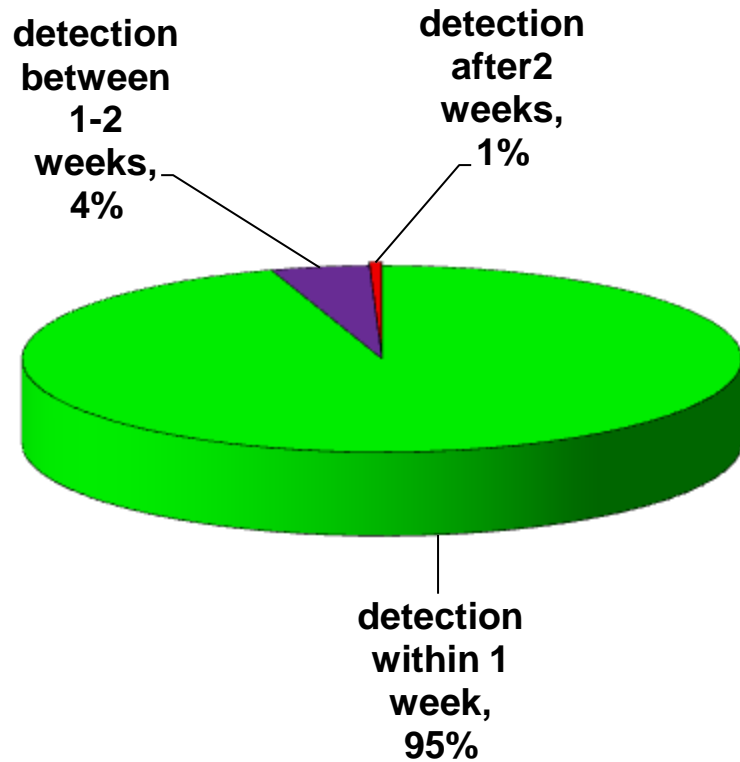
\*Up to week 28

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



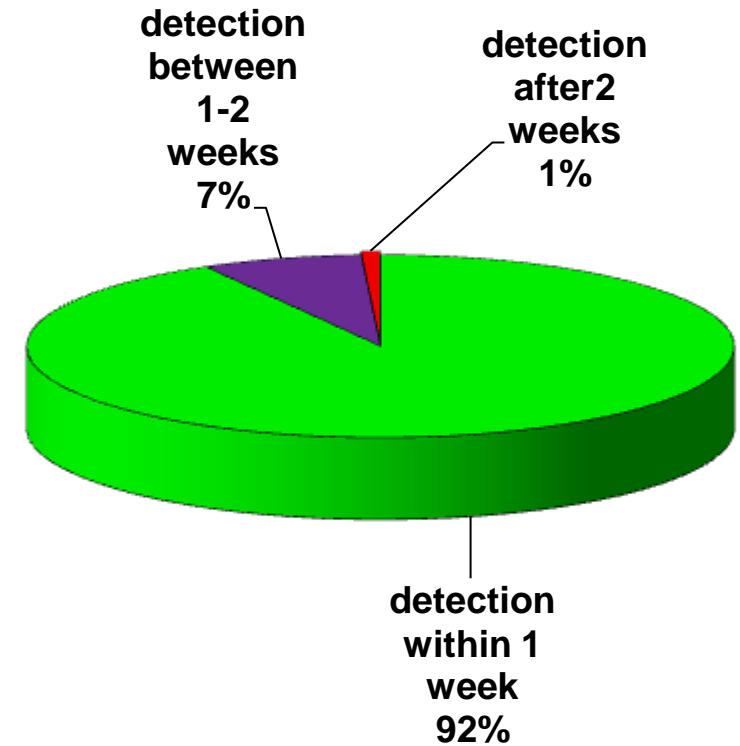
**Fig. 5: Percent distribution of AFP cases by time of detection, 2011\***

**N = 181 AFP cases**



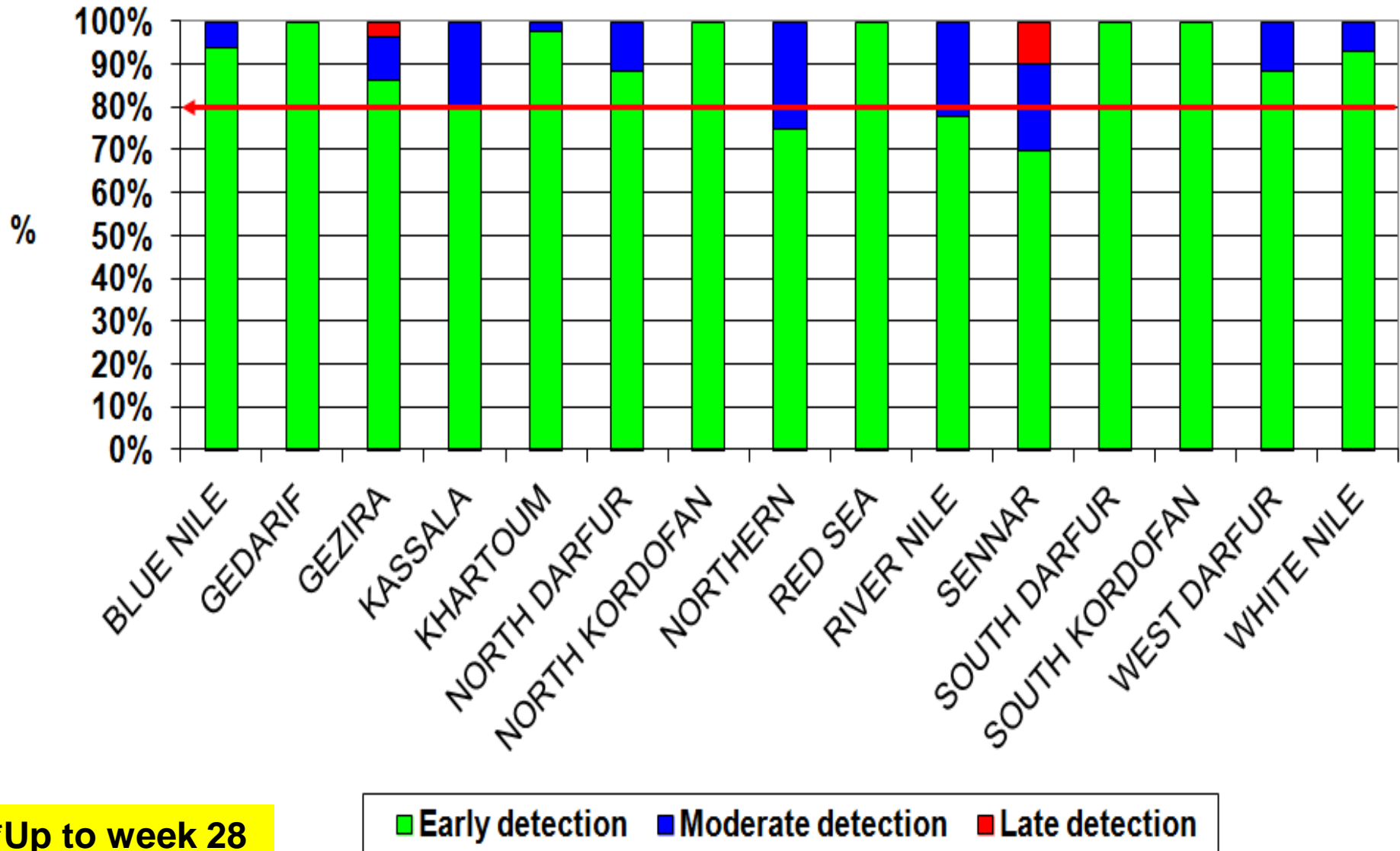
**Fig. 6: Percent distribution of AFP cases by time of detection, 2012\***

**N = 231 AFP cases**



**\*Up to week 28**

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

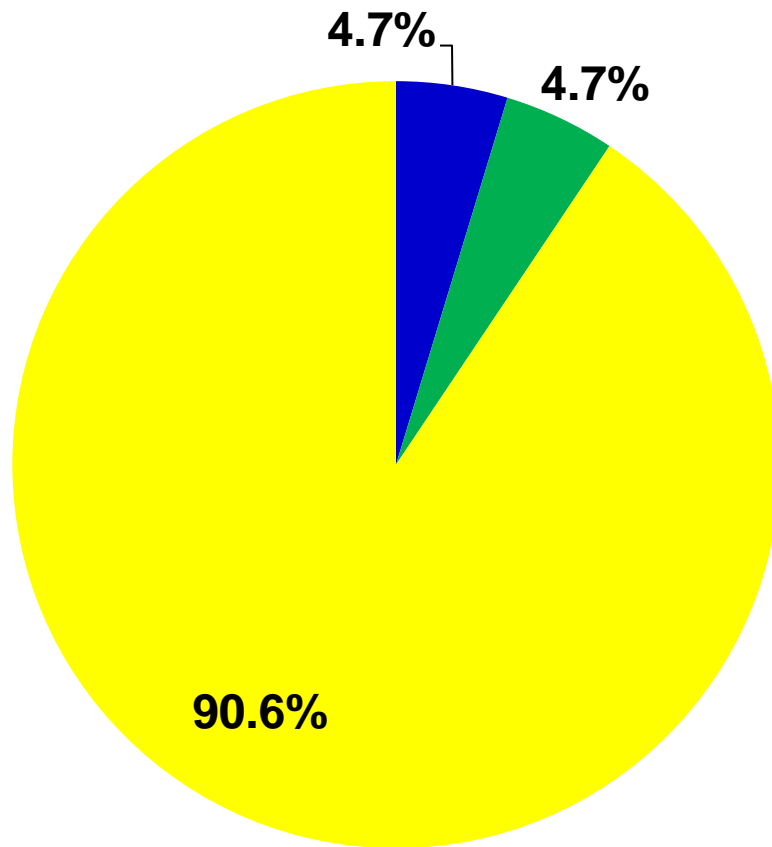


# Table 1. Major AFP surveillance performance indicators, up to week 28, 2012

State	U 15 yrs population	Total reported AFP cases	Non-polio AFP cases	Pending classification	VDPV	Compatible cases	% Adequate stools	Annualized AFP rate	% NPEV
B. Nile	551,519	16	16	0	0	0	94%	5.4	13%
Gedarif	887,810	11	10	1	0	0	91%	2.3	10%
Gezira	1,974,675	29	28	1	0	0	97%	2.7	21%
Kasala	857,183	10	8	2	0	0	100%	2.2	10%
Khartoum	2,489,151	43	41	2	0	0	98%	3.2	12%
N.Darf	890,317	17	16	1	0	0	100%	3.5	12%
N.Kord	1,281,448	16	16	0	0	0	94%	2.3	13%
Northern	271,479	4	4	0	0	0	75%	2.7	25%
Red Sea	331,008	9	9	0	0	0	100%	5.0	11%
River Nile	470,091	9	9	0	0	0	100%	3.6	11%
Sennar	735,588	10	9	1	0	0	90%	2.5	20%
S.Darfur	1,806,686	16	13	2	1	0	94%	1.6	7%
S. Kord	974,048	10	10	0	0	0	100%	1.9	0%
W.Darfur	971,638	17	16	1	0	0	100%	3.2	24%
W. Nile	855,181	14	14	0	0	0	100%	3.0	14%
<b>Total</b>	<b>15,347,822</b>	<b>231</b>	<b>219</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>97%</b>	<b>2.8</b>	<b>14%</b>

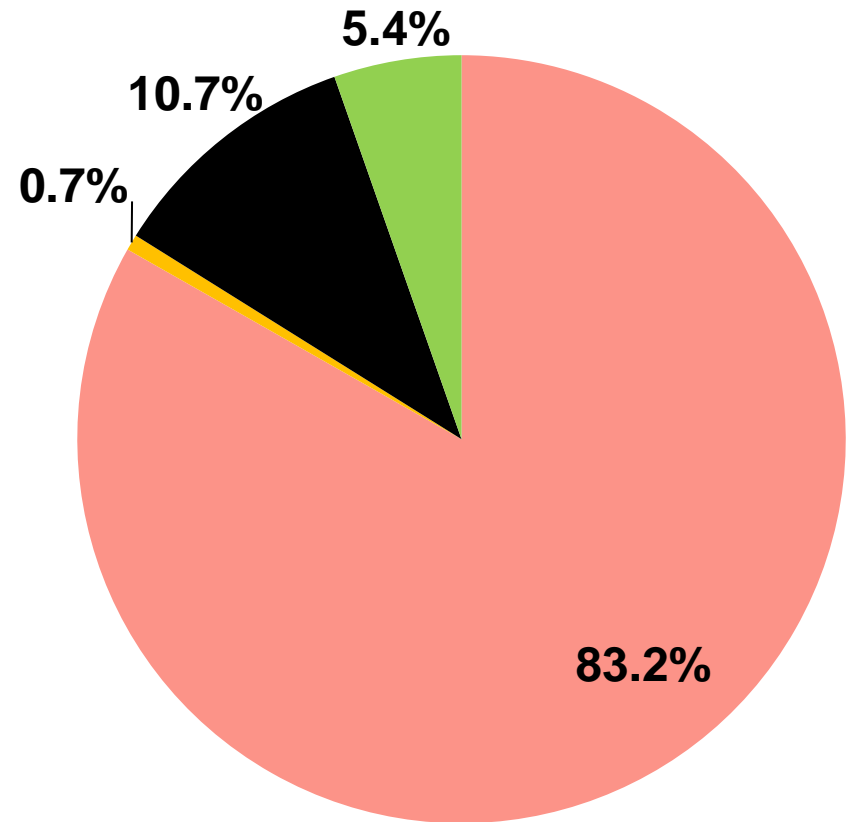


**Fig. 8: Sources of AFP cases up to week 28**



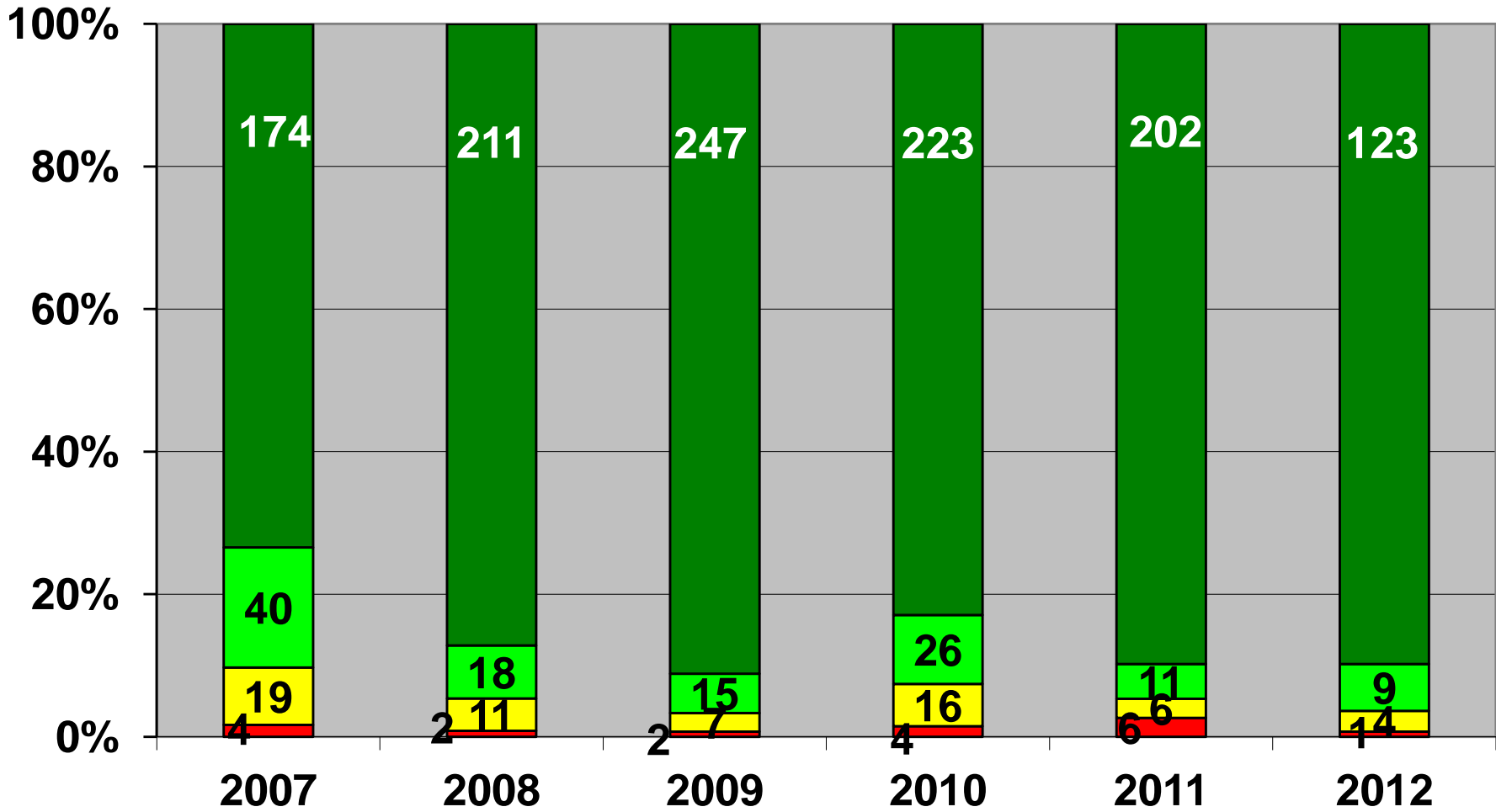
**IDPs**   **Nomads**   **Residents**

**Fig. 9: Types of reporting sites up to week 28**



**Government**   **Others**  
**Private**   **Volunteers**

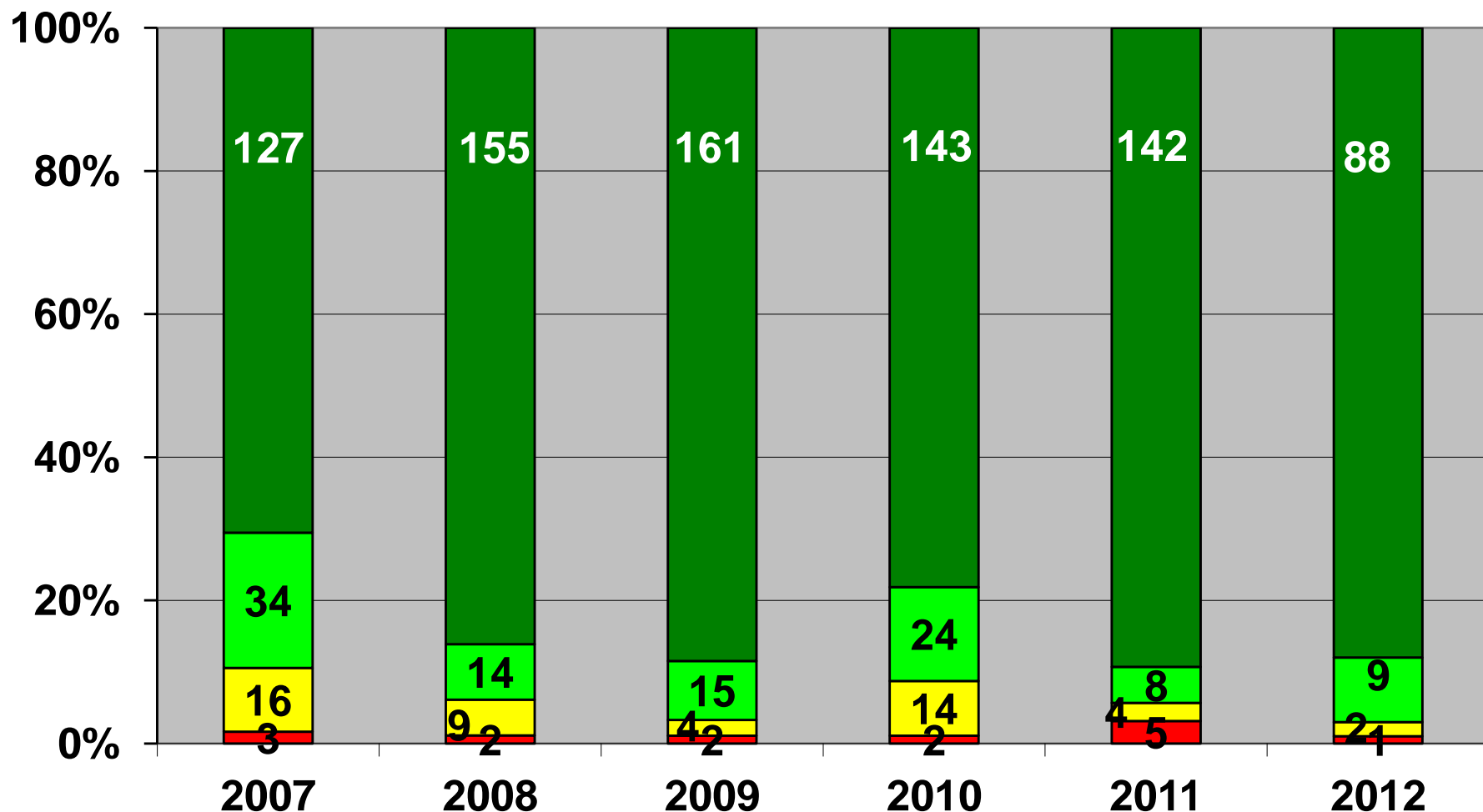
# Fig. 10: Percent distribution of AFP cases 6-59 months by number of OPV doses, 2007-2012\*



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

\*Up to week 28

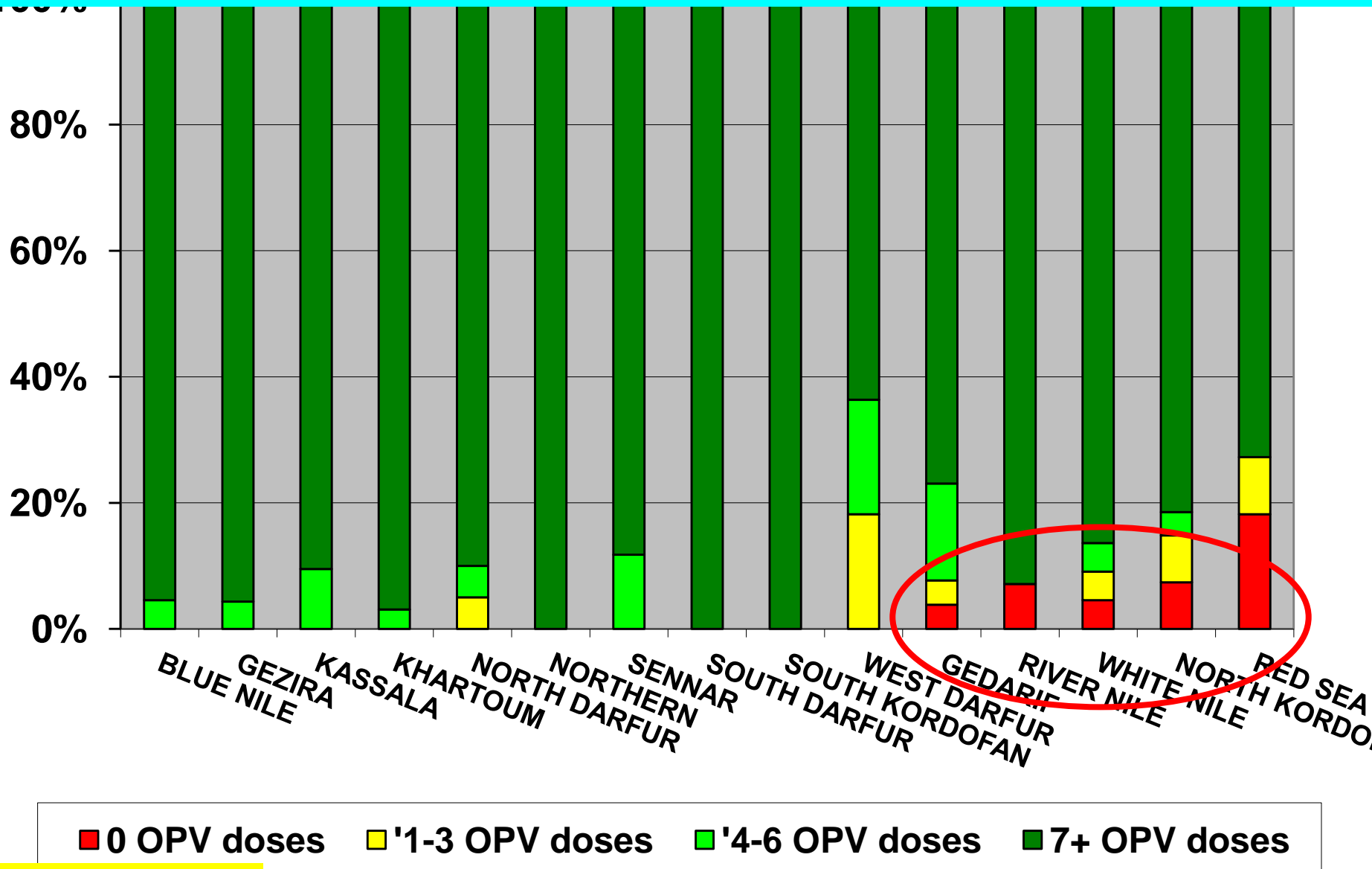
**Fig. 11: No. & percent distribution of AFP cases 6-36 months by number of OPV doses, 2007-2012\***



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

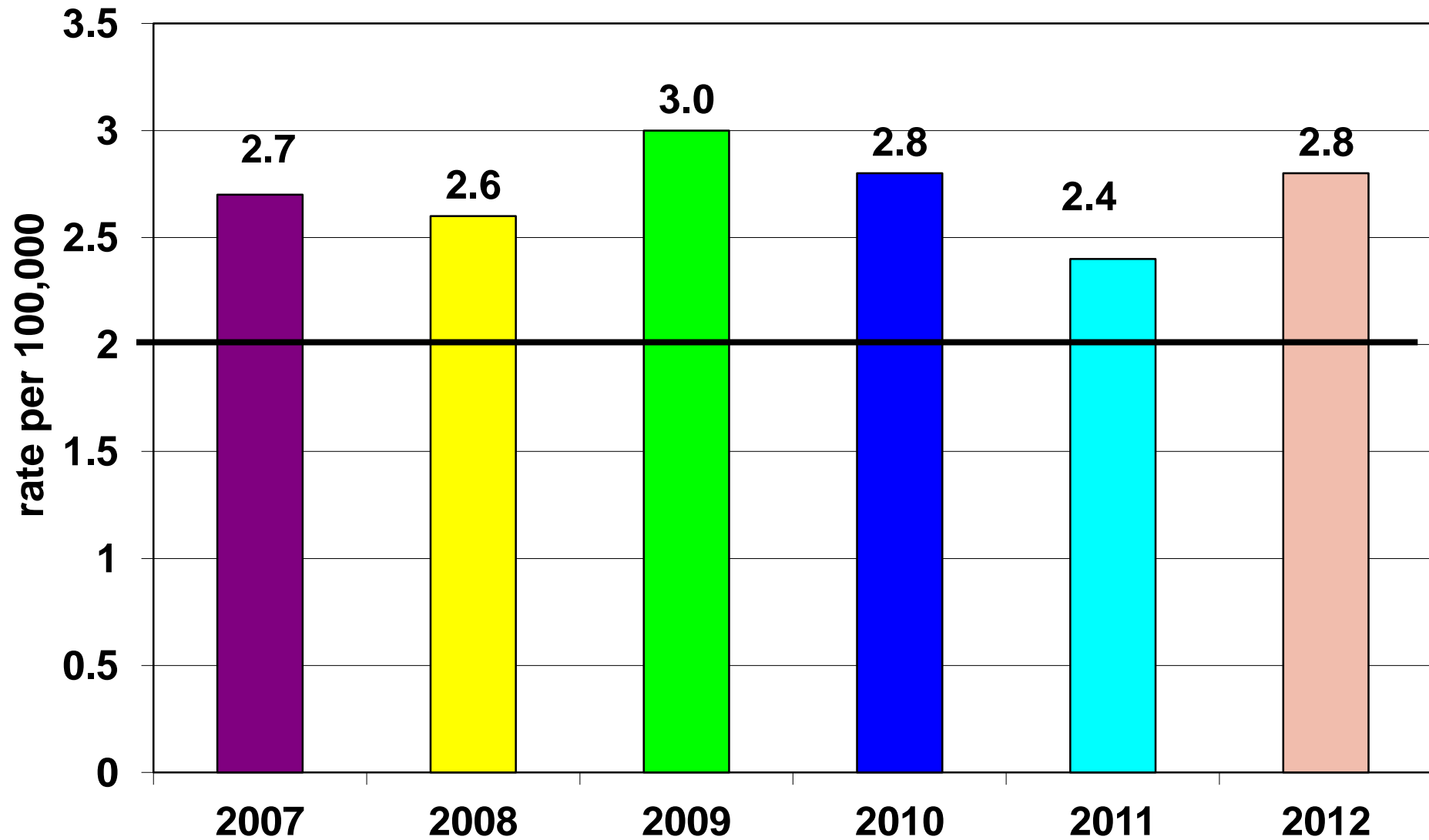
**\*Up to week 28**

**Fig. 12: Percent distribution of AFP cases 6-59 months by number of OPV doses and states, 2011-2012\***



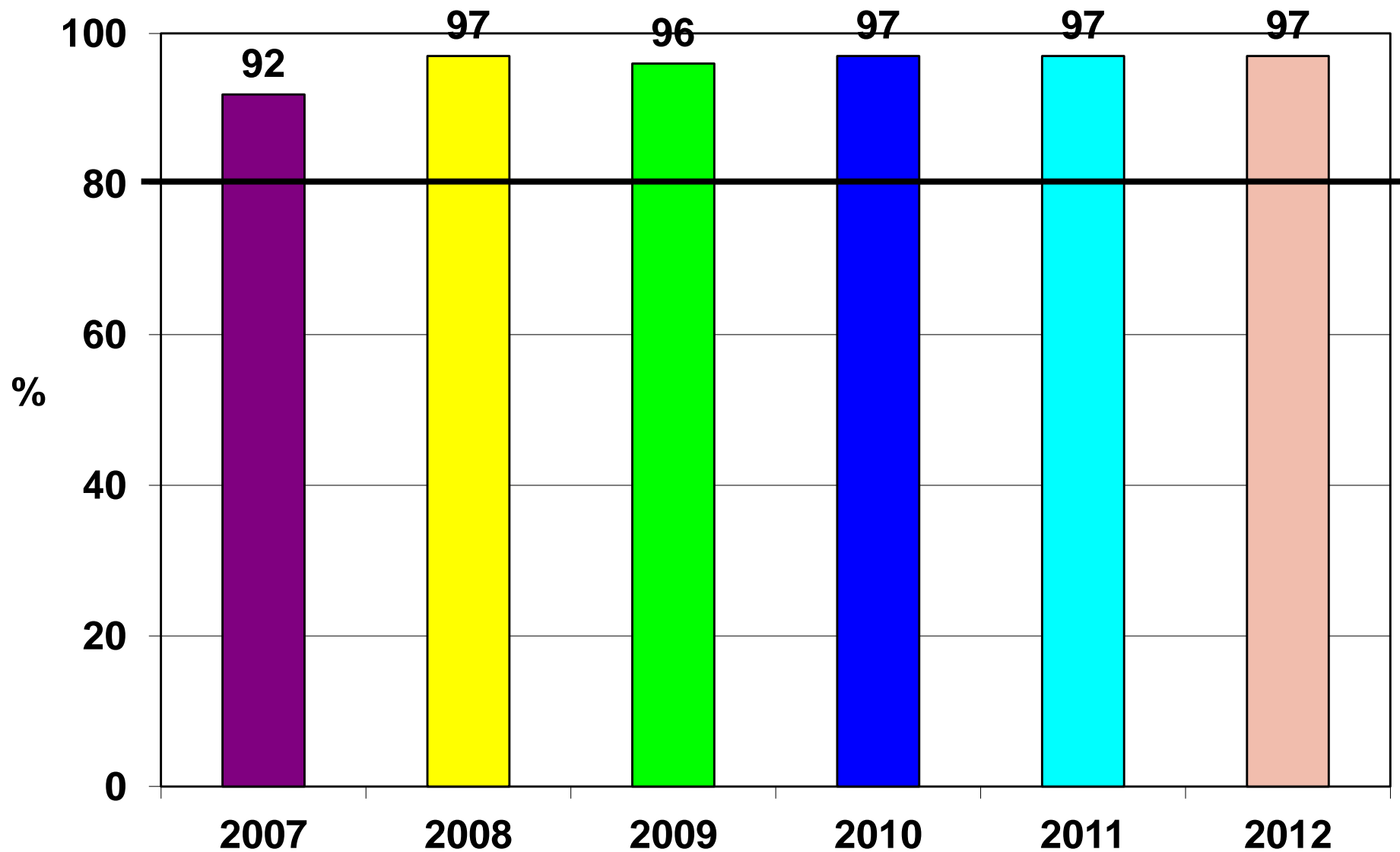
\*Up to week 28

**Fig. 13: Non-Polio AFP rate per 100,000 children under 15 years of age, 2007 – 2012\***



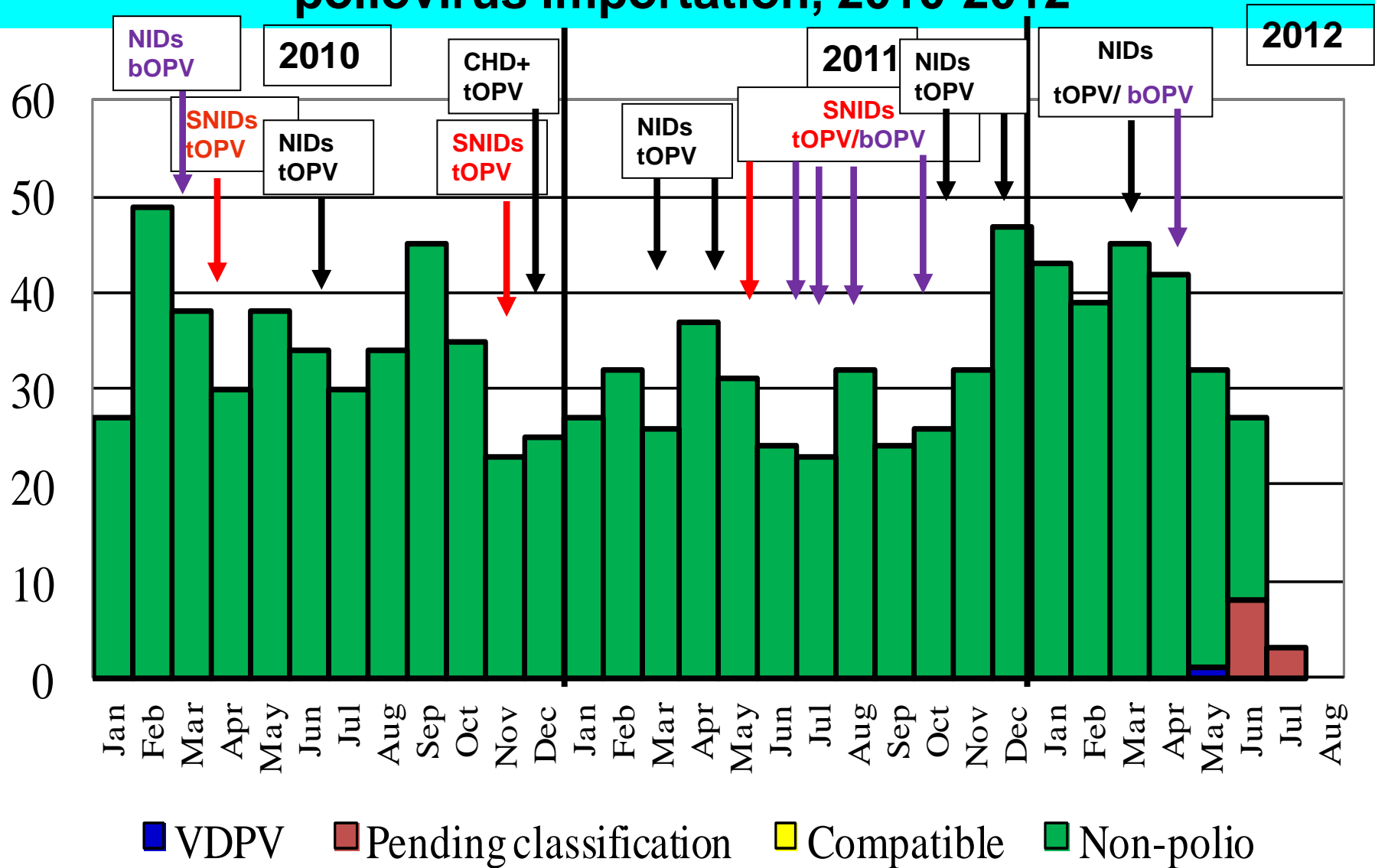
**\*Up to week 28**

**Fig. 14: Adequate stool collection rate, 2007 – 2012\***



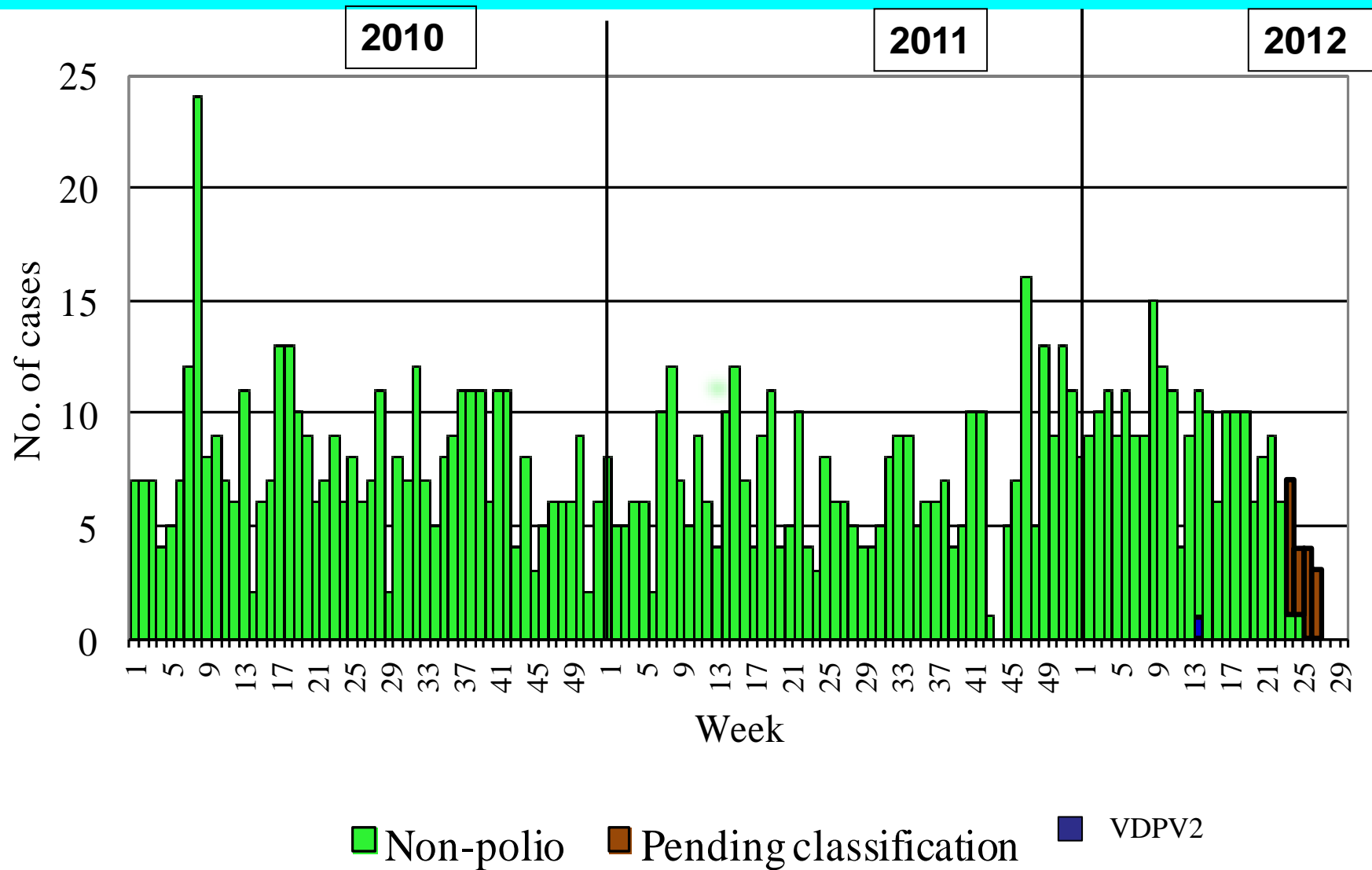
**\*Up to week 28**

**Fig 15. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation, 2010-2012\***



\*Up to week 28

**Fig 16. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation, 2010-2012\***



\*Up to week 28



**Map 3. Non-polio AFP rate by state, 2011 up to W28**



**Map 4. Annualized Non-polio AFP rate by state, 2012 up to W28**

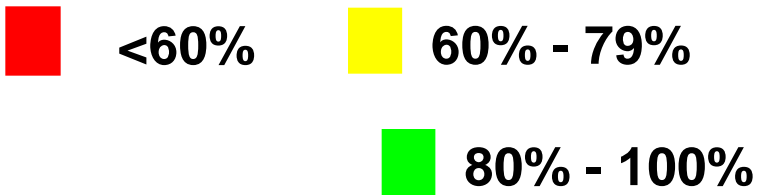


<1 per 100,000  
 1-1.9 per 100,000  
 2 or more per 100,000

**Map 5. Percent distribution of AFP cases having adequate stool samples by states, 2011 up to W28**



**Map 6. Percent distribution of AFP cases having adequate stool samples by state, 2012 up to W28**



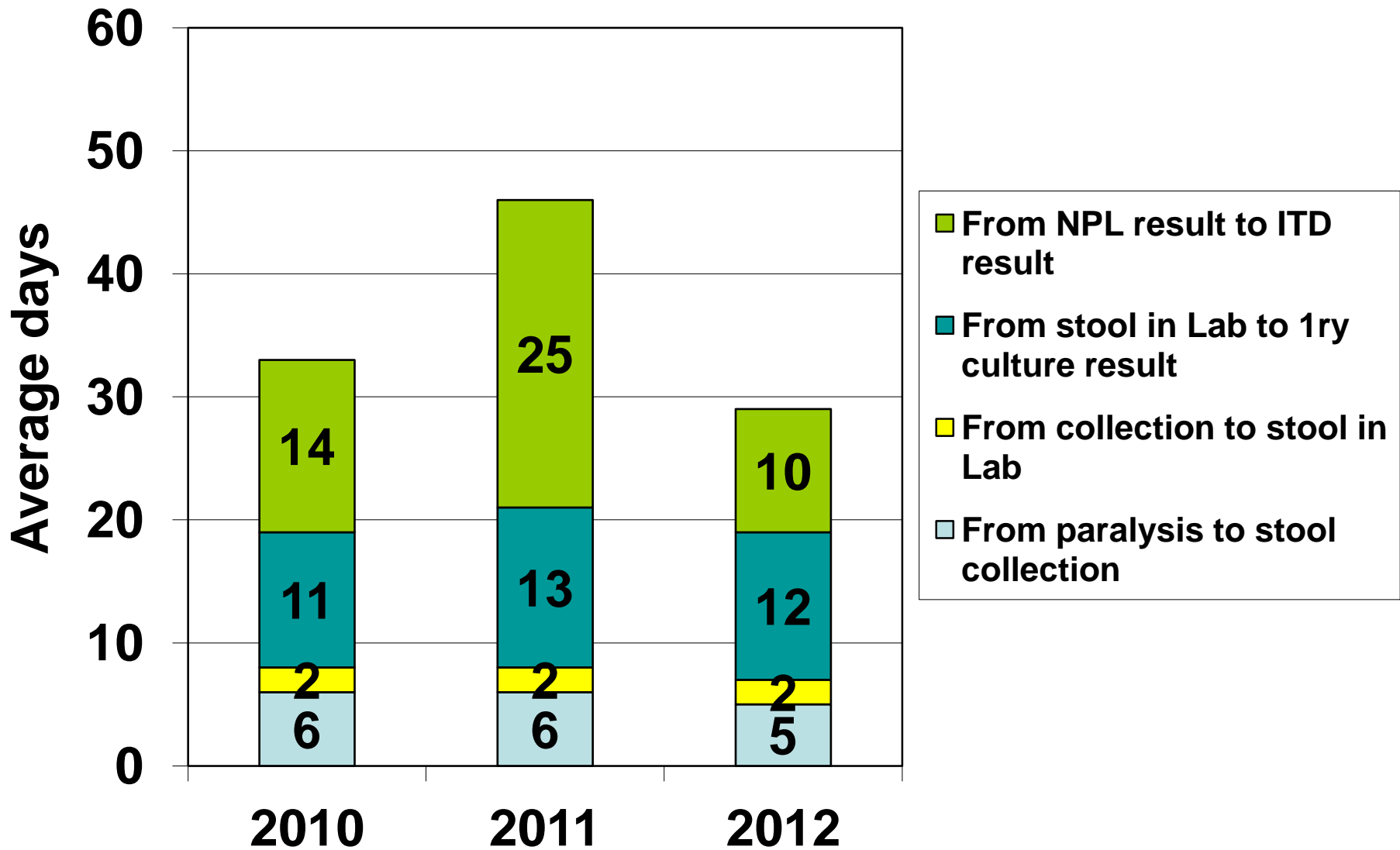
**Table 2. National polio lab performance indicators 2010-2012 up to week 28**

<b>Indicator</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
<b>AFP cases with samples tested in NPL</b>	<b>221</b>	<b>181</b>	<b>230</b>
<b>Cases with aVDPV2</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Cases with non-polio enterovirus</b>	<b>9%</b>	<b>17%</b>	<b>14%</b>
<b>SL viruses No. &amp; (%) from AFP cases</b>	<b>3(1.5%)</b>	<b>6(3.6%)</b>	<b>3(1.4%)</b>
<b>Median days from the time of samples received in the lab to primary culture report or L20B result</b>	<b>11days</b>	<b>12 days</b>	<b>12days</b>
<b>Number of samples from the AFP contacts tested in the NPL</b>	<b>116</b>	<b>104</b>	<b>181</b>
<b>Contacts with non-polio enterovirus</b>	<b>8.8%</b>	<b>11%</b>	<b>11%</b>
<b>Sabin like viruses No. &amp; (%) from contacts</b>	<b>0</b>	<b>5(5.1%)</b>	<b>1(0.8%)</b>
<b>Wild polioviruses from contacts</b>	<b>0</b>	<b>0</b>	<b>0</b>

## 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 28	221	17	1	184	19	9%	90%	86%	99%
2011 up to week 28	181	12	0	140	29	17%	84%	83%	100%
2012 up to week 28	230	10	0	189	31	14%	93%	85%	99%

# Fig. 17: AFP Specimens' median timeliness NPL 2010-2012\*



\*Up to week 28