



World Health Organization

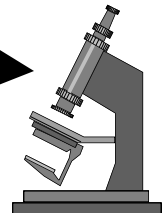
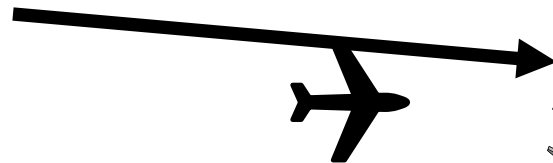
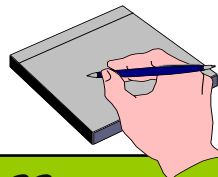
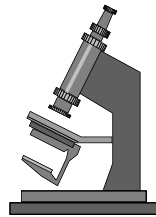
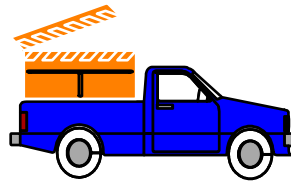
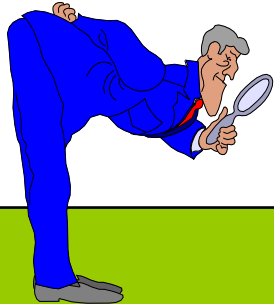


Republic of Sudan



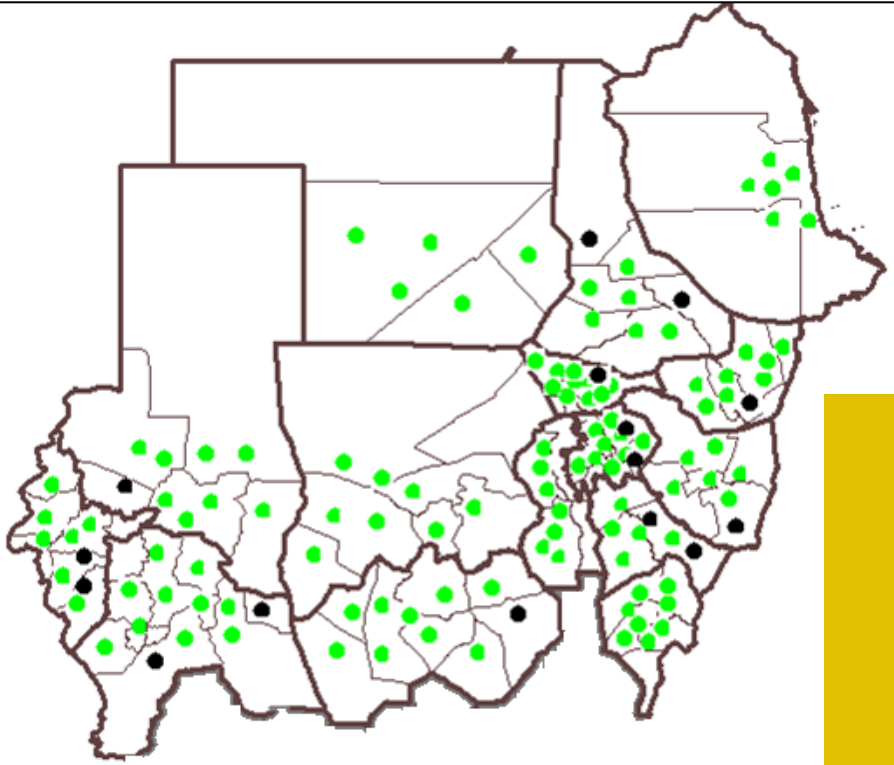
**Weekly AFP surveillance report
week 21**

Ending on 27 May 2012



AFP Surveillance central unit

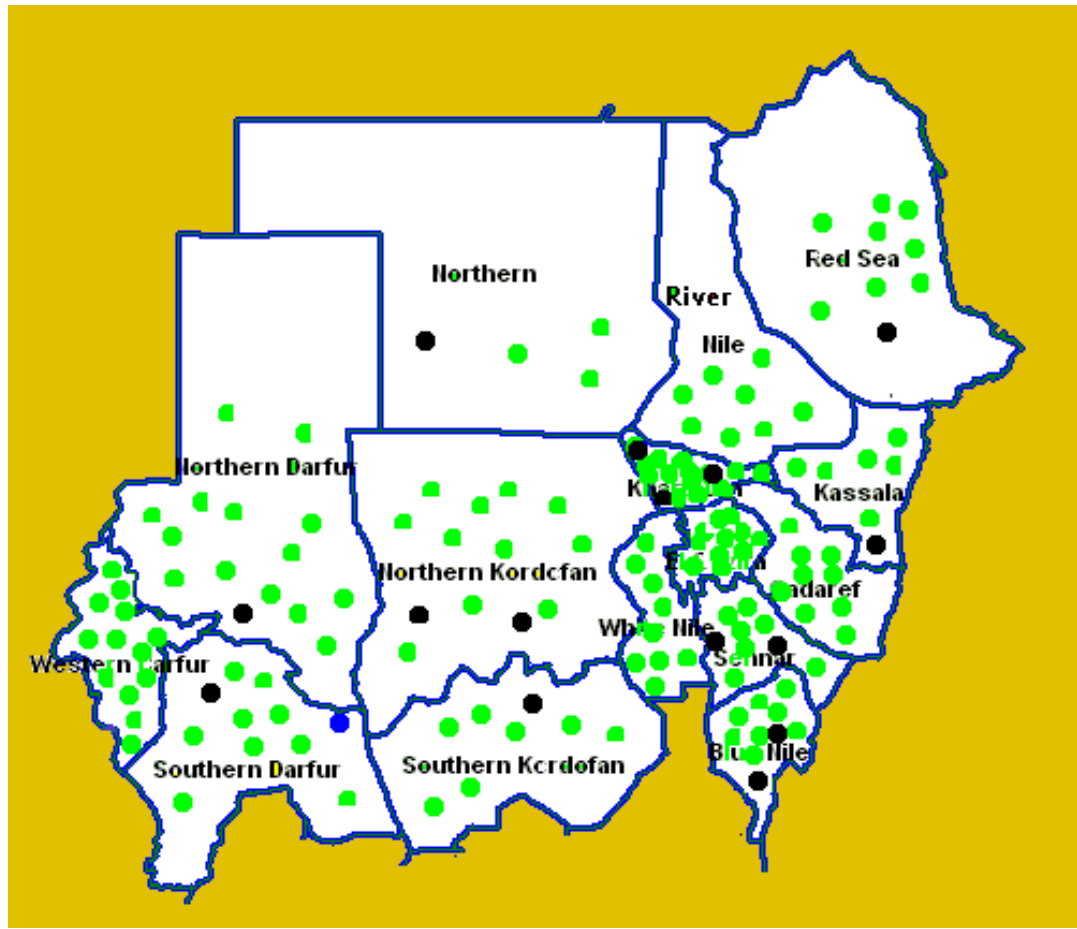
Map 1. Distribution of AFP cases by classification, Sudan, 2011*



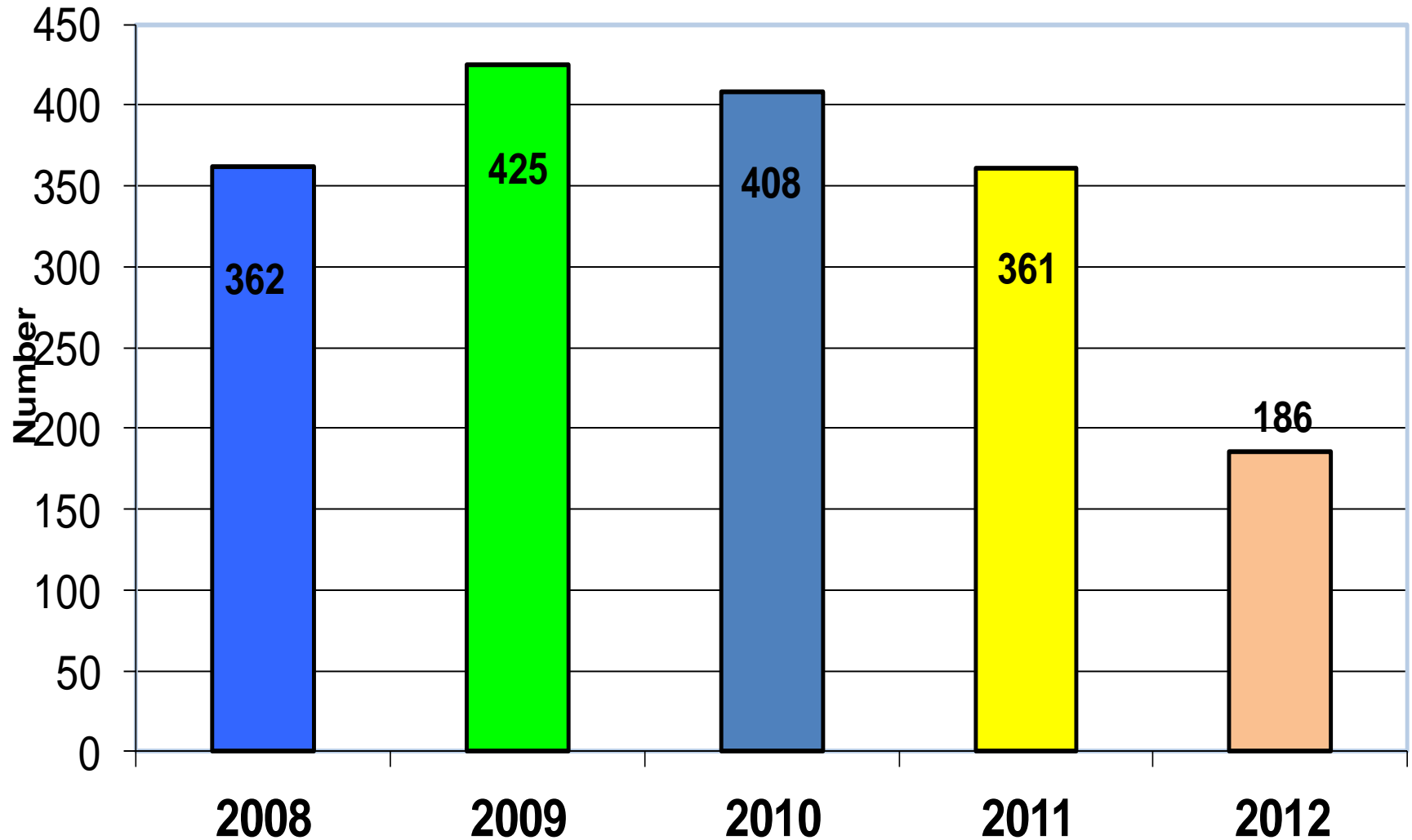
- Non-polio AFP
- Pending classification
- VDPV

***Up to week 21**

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

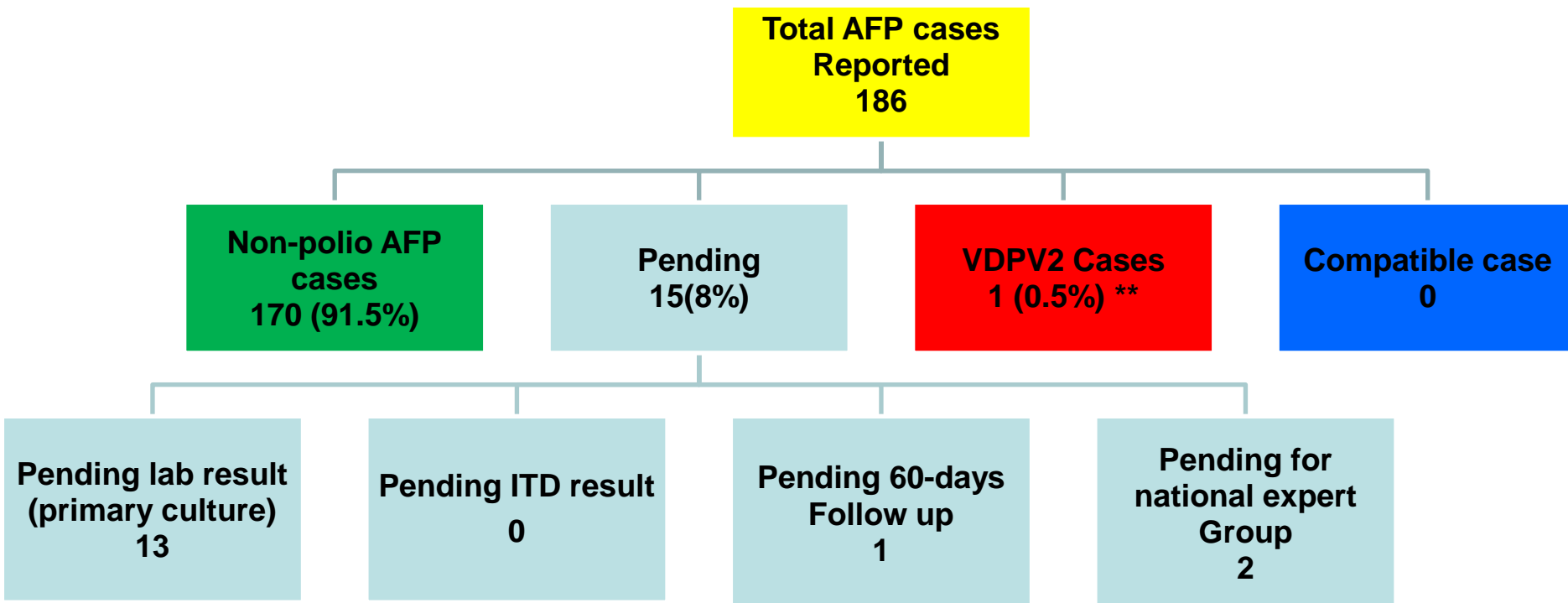


**Fig. 1: Total AFP cases
Sudan, 2008-2012***



***Up to week 21**

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

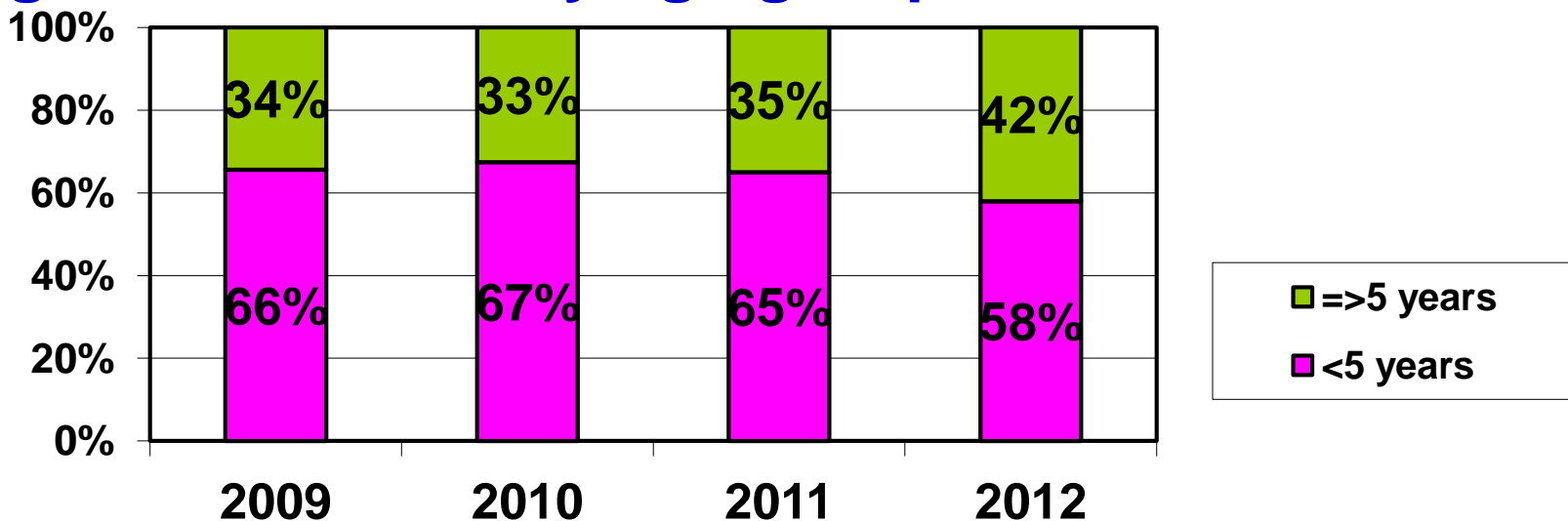


** This case is a 10 years old male child from South Darfur. He presented to Khartoum medical professional as having involuntary movement and left side weakness with floppiness. The date of onset was 1/4/2012. Clinical and epidemiological investigation was promptly done in his original residency (SD) and temporary residencies (Khartoum). The same activities will be done also in a village in Kordofan where the child resided for some time in March 2012. The main clinical investigations included immunological assessment and nerve conduction study. The epidemiological investigation included collection of specimens from the contacts & community vaccination coverage in all places visited by the case. Upon examination last week, the child has fully recovered and the nerve conduction showed no abnormality. Lab investigations are still pending. Intensification of AFP surveillance is undertaken to search for any missing AFP cases.

***Up to week 21**

Local immunization response is under planning.

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



*Up to week 21

Fig. 4: AFP cases by sex 2009 – 2012*

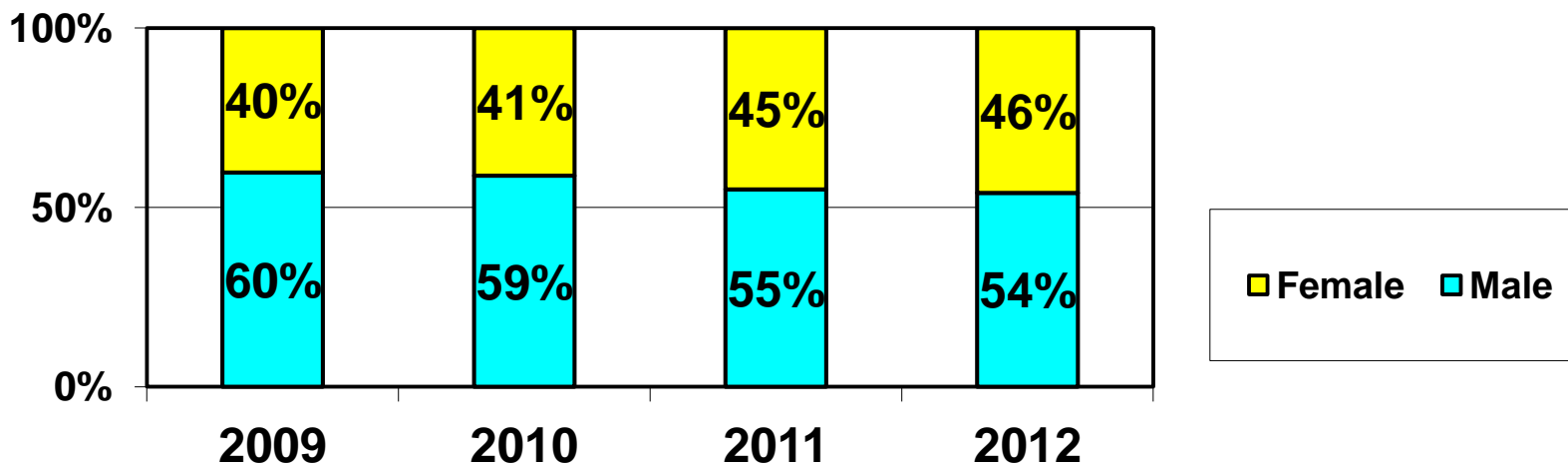


Fig. 5: Percent distribution of AFP cases by time of detection, 2011*

N = 138 AFP cases

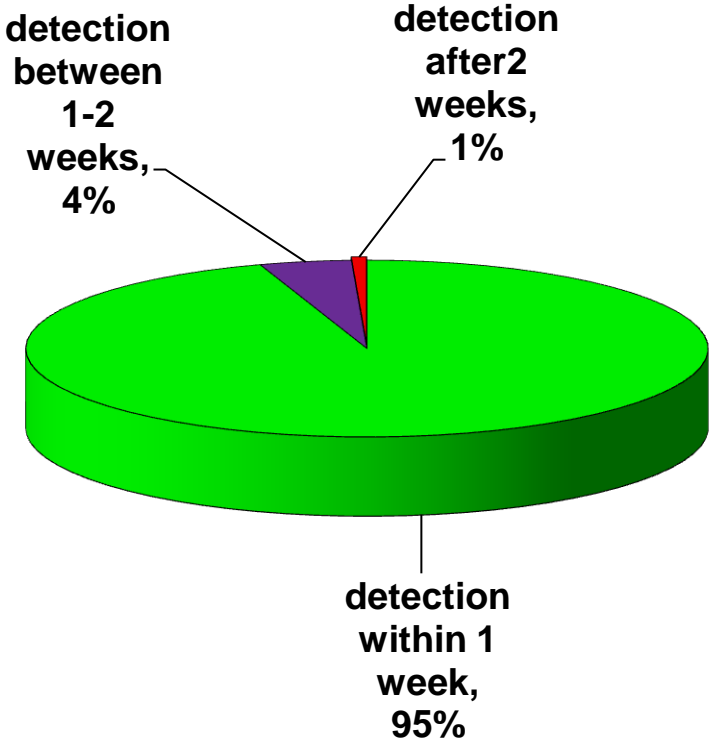
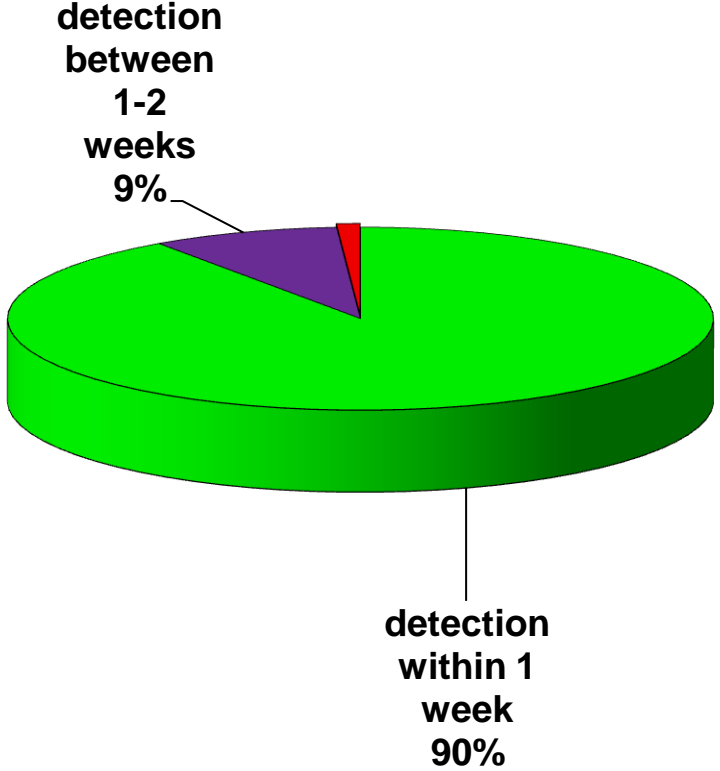


Fig. 6: Percent distribution of AFP cases by time of detection, 2012*

N = 186 AFP cases



***Up to week 21**

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

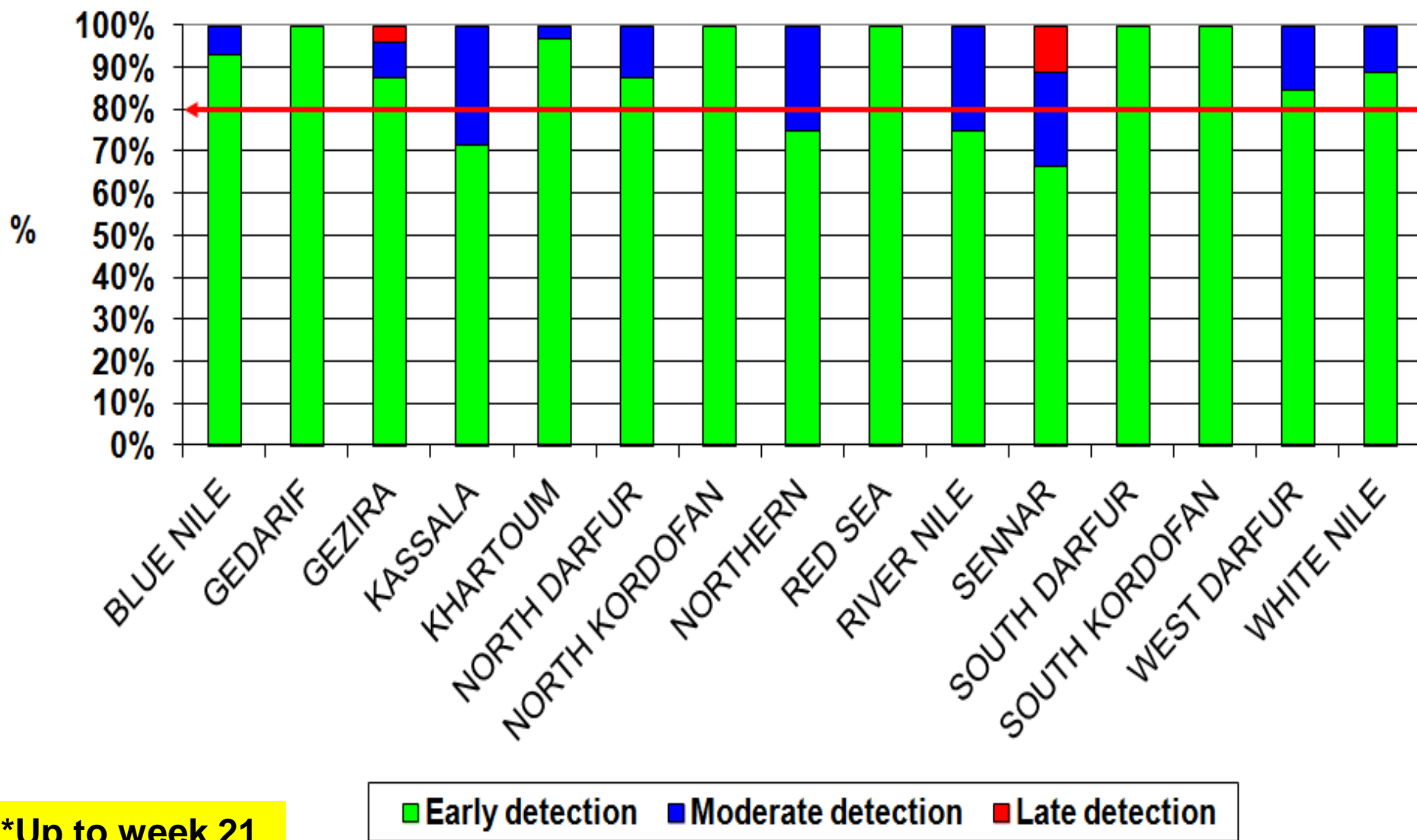
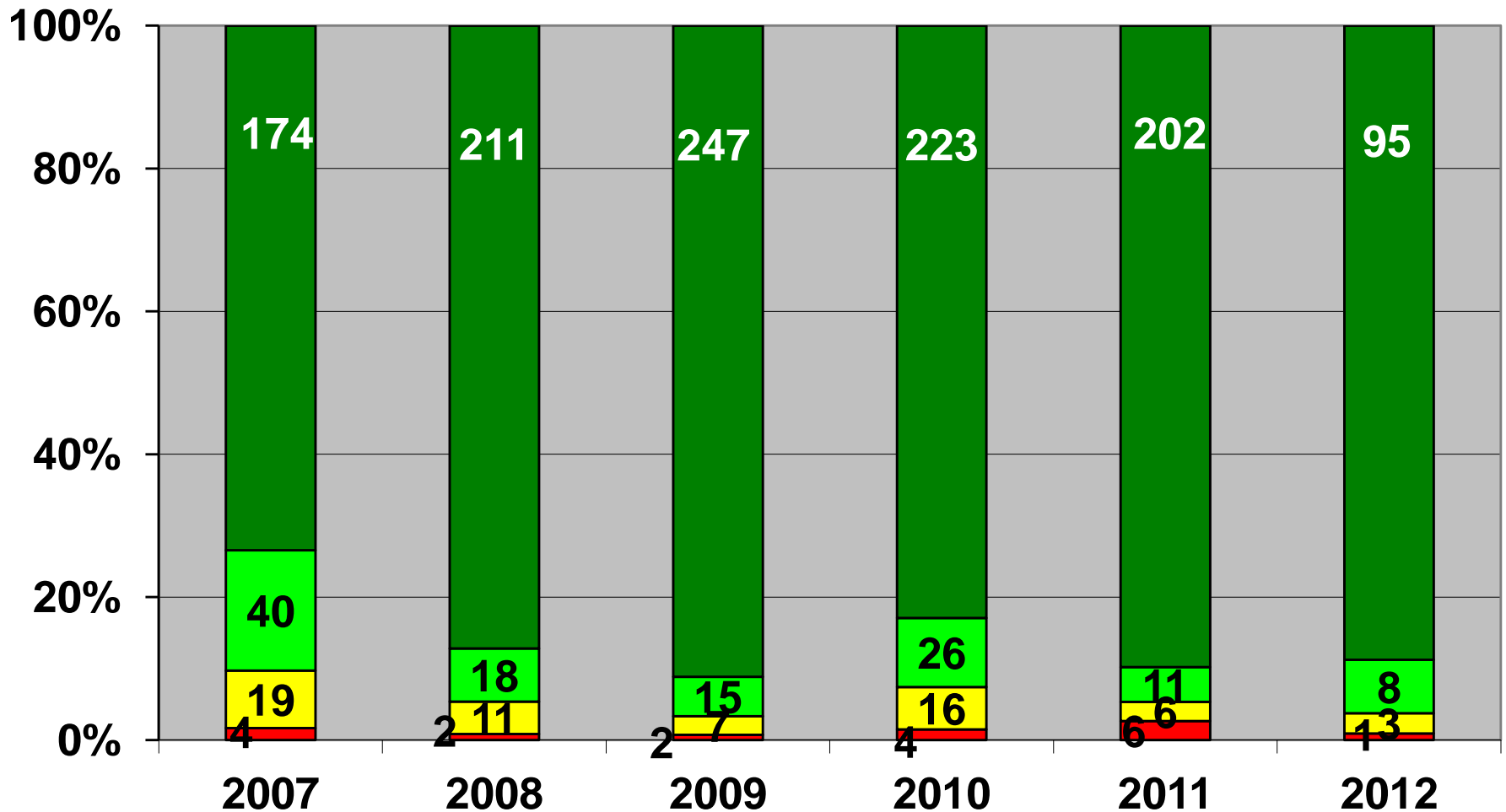


Table 1. Major AFP surveillance performance indicators, up to week 21, 2012

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	451,519	14	12	2	0	0	93%	7.7	14%
Gedarif	887,810	9	9	0	0	0	89%	2.5	11%
Gezira	1,974,675	24	24	0	0	0	96%	3.0	25%
Kasala	857,183	7	6	1	0	0	100%	2.0	14%
Khartoum	2,489,151	32	29	3	0	0	100%	3.2	13%
N.Darf	890,317	16	15	1	0	0	100%	4.4	13%
N.Kord	1,281,448	13	11	2	0	0	92%	2.5	15%
Northern	271,479	4	3	1	0	0	75%	3.6	25%
Red Sea	331,008	9	8	1	0	0	100%	6.7	0%
River Nile	470,091	8	8	0	0	0	100%	4.2	13%
Sennar	735,588	9	7	2	0	0	89%	3.0	22%
S.Darfur	1,806,686	11	9	1	1	0	91%	1.5	10%
S. Kord	974,048	8	7	1	0	0	100%	2.0	0%
W.Darfur	971,638	13	13	0	0	0	100%	3.3	23%
W. Nile	855,181	9	9	0	0	0	100%	2.6	22%
Total	15,247,822	186	170	15	1	0	96%	3.0	16%

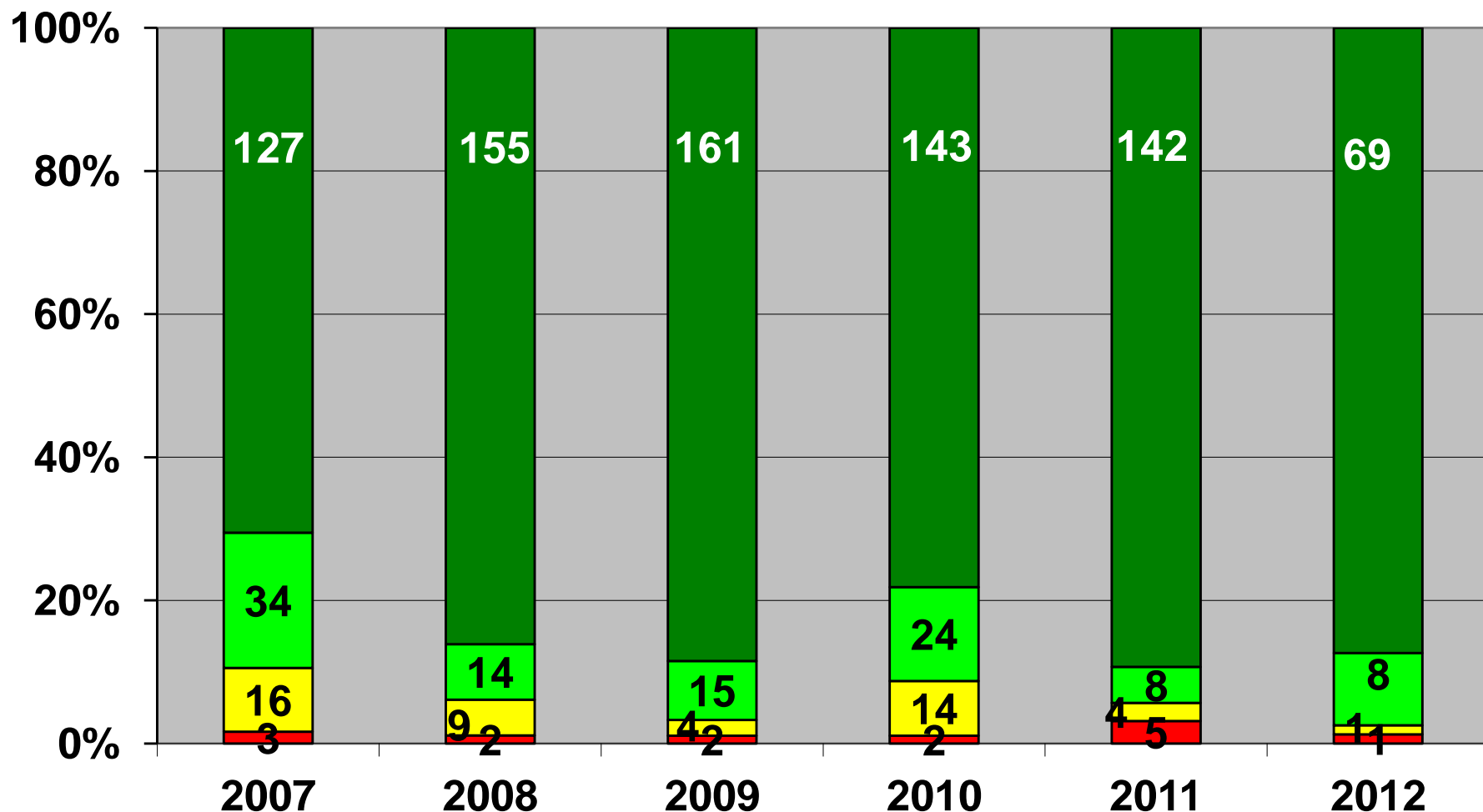
Fig. 8: Percent distribution of AFP cases 6-59 months by number of OPV doses, 2007-2012*



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

***Up to week 21**

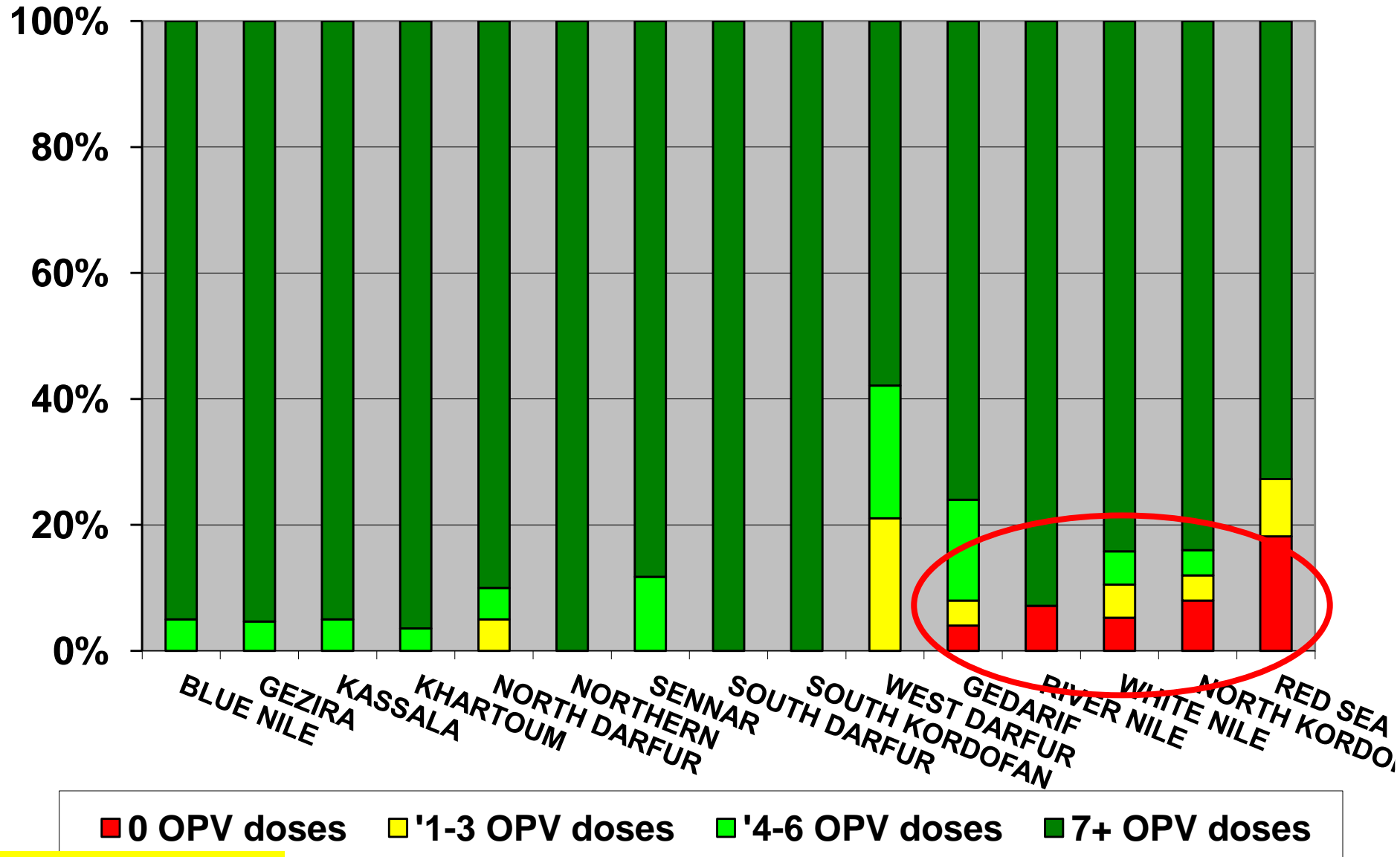
Fig. 9: No. & percent distribution of AFP cases 6-36 months by number of OPV doses, 2007-2012*



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

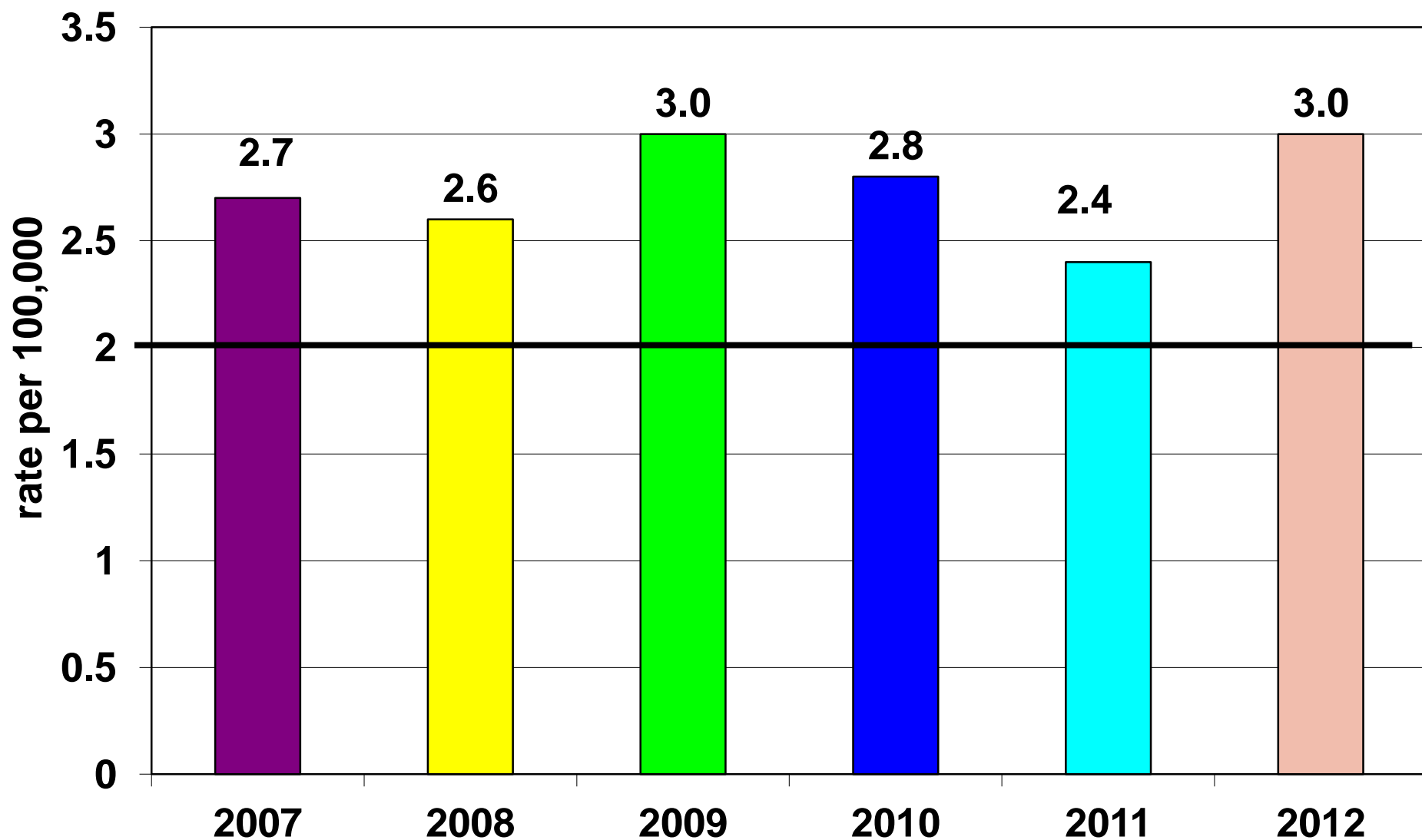
***Up to week 21**

Fig. 10: Percent distribution of AFP cases 6-59 months by number of OPV doses and states, 2011-2012*



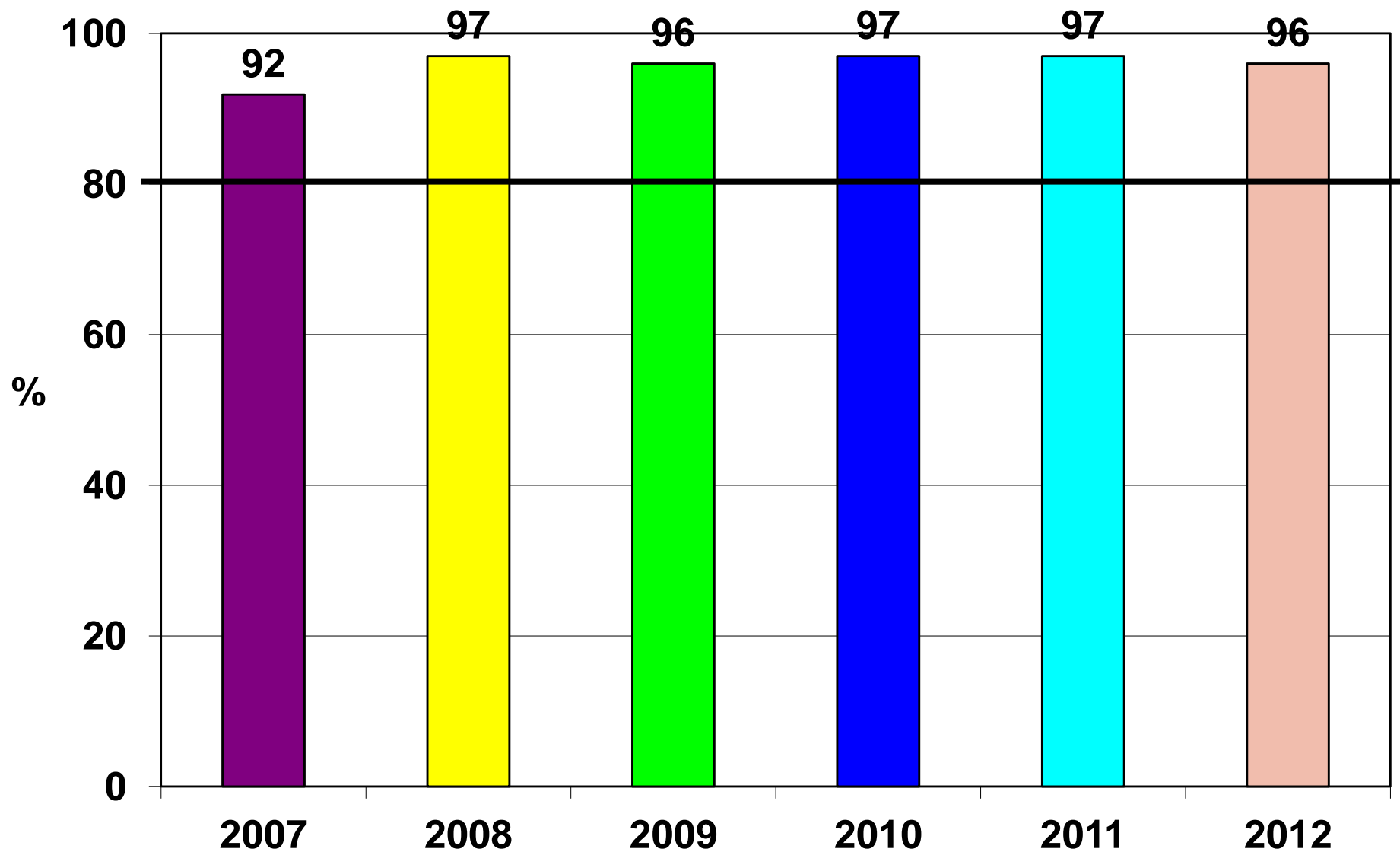
*Up to week 21

Fig. 11: Non-Polio AFP rate per 100,000 children under 15 years of age, 2007 – 2012*



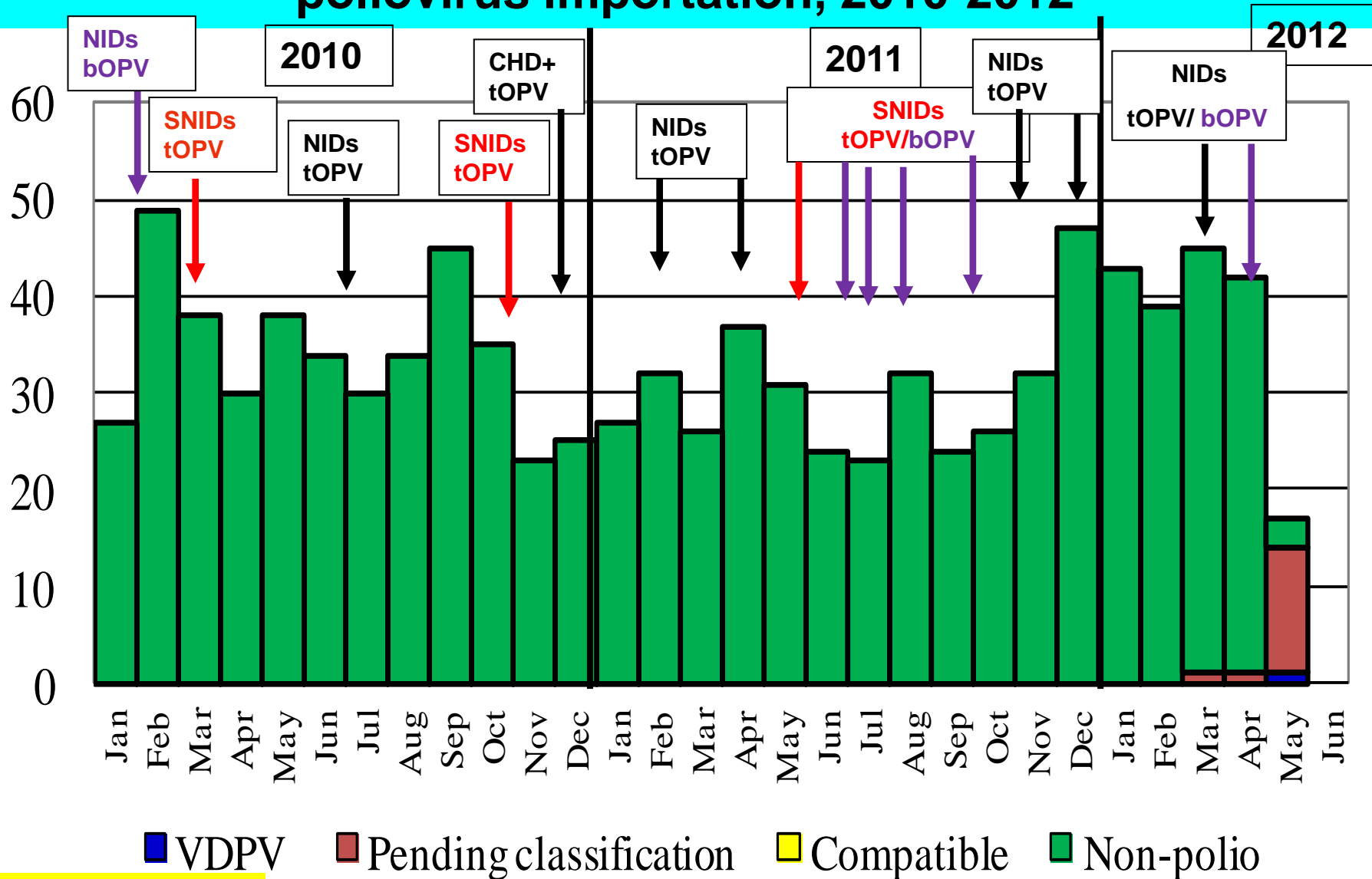
***Up to week 21**

Fig. 12: Adequate stool collection rate, 2007 – 2012*



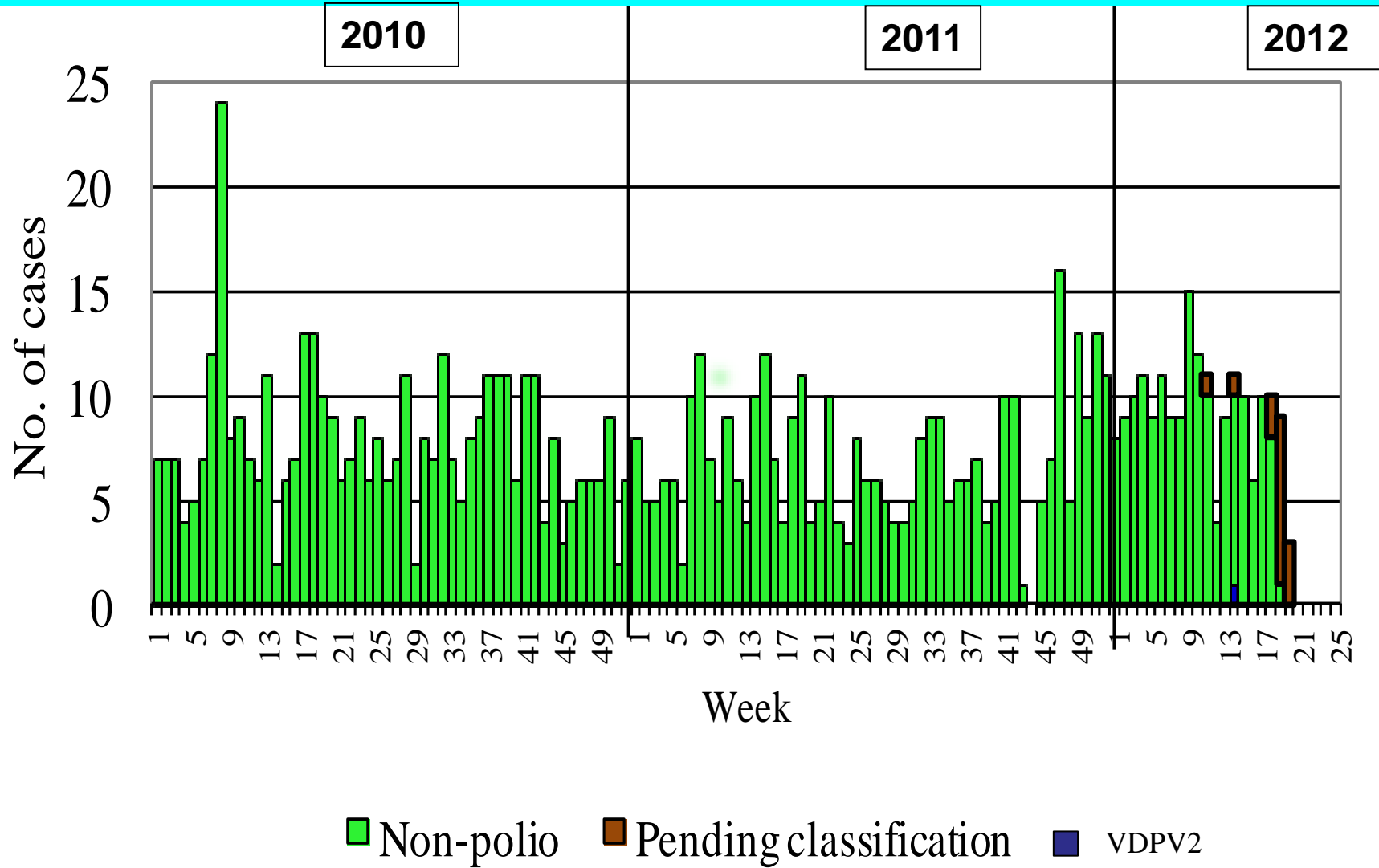
***Up to week 21**

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 21

Fig 14. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation, 2010-2012*

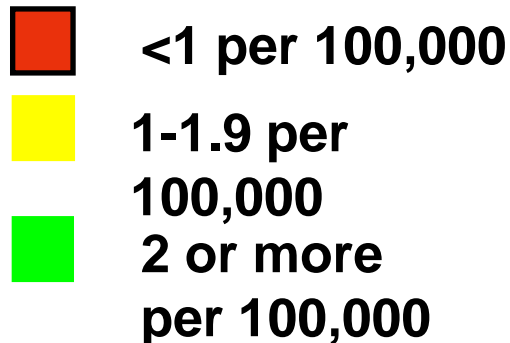


***Up to week 21**

Map 3. Non-polio AFP rate by state, 2011 up to W21



Map 4. Annualized Non-polio AFP rate by state, 2012 up to W21



Map 5. Percent distribution of AFP cases having adequate stool samples by states, 2011 up to W21



Map 6. Percent distribution of AFP cases having adequate stool samples by state, 2012 up to W21

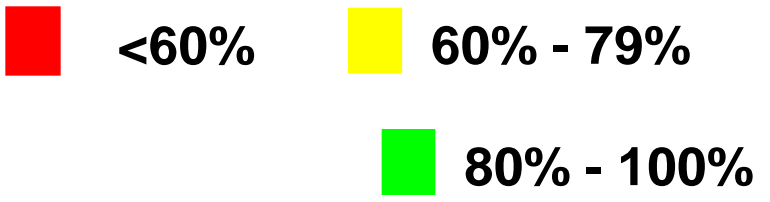


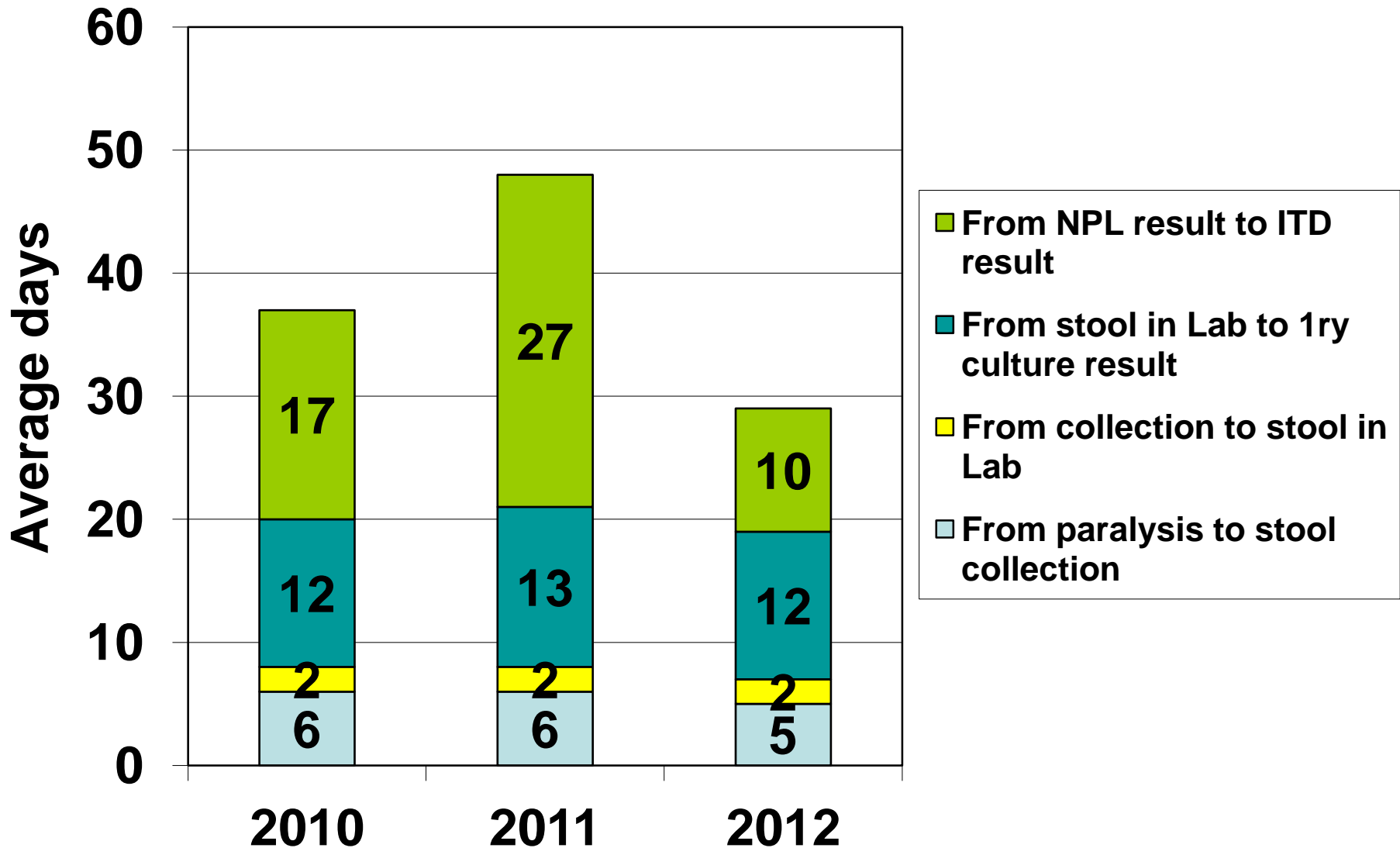
Table 2. National polio lab performance indicators 2010-2012 up to week 21

Indicator	2010	2011	2012
AFP cases with samples tested in NPL	171	138	185
Cases with VDPV2	0	0	1
Cases with non-polio enterovirus	10%	14%	16%
SL viruses No. & (%) from AFP cases	1(0.6%)	1(1%)	3(1.7%)
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	68	88	120
Contacts with non-polio enterovirus	6%	9%	15.7%
Sabin like viruses No. & (%) from contacts	0	4(5.2%)	1(1.0%)
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 nd sample	Arrival within 3 days of being sent from the 2 nd sample
2010 up to week 21	171	15	0	140	16	10%	89%	88%	99%
2011 up to week 21	138	13	4	103	18	14%	78%	83%	100%
2012 up to week 21	185	13	0	144	28	16%	96%	86%	99%

Fig. 16: AFP Specimens' median timeliness NPL 2010-2012*



*Up to week 21