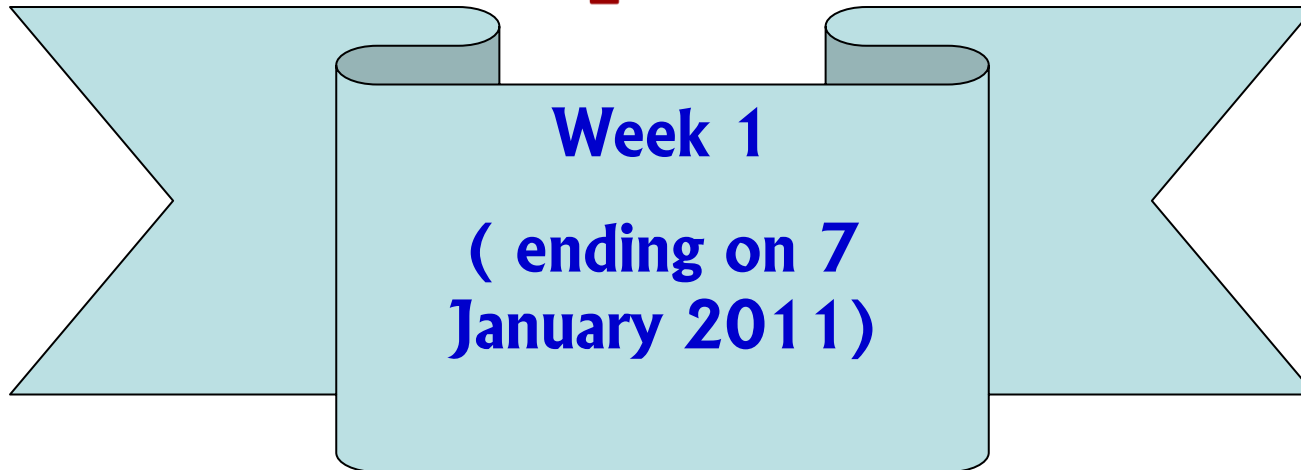




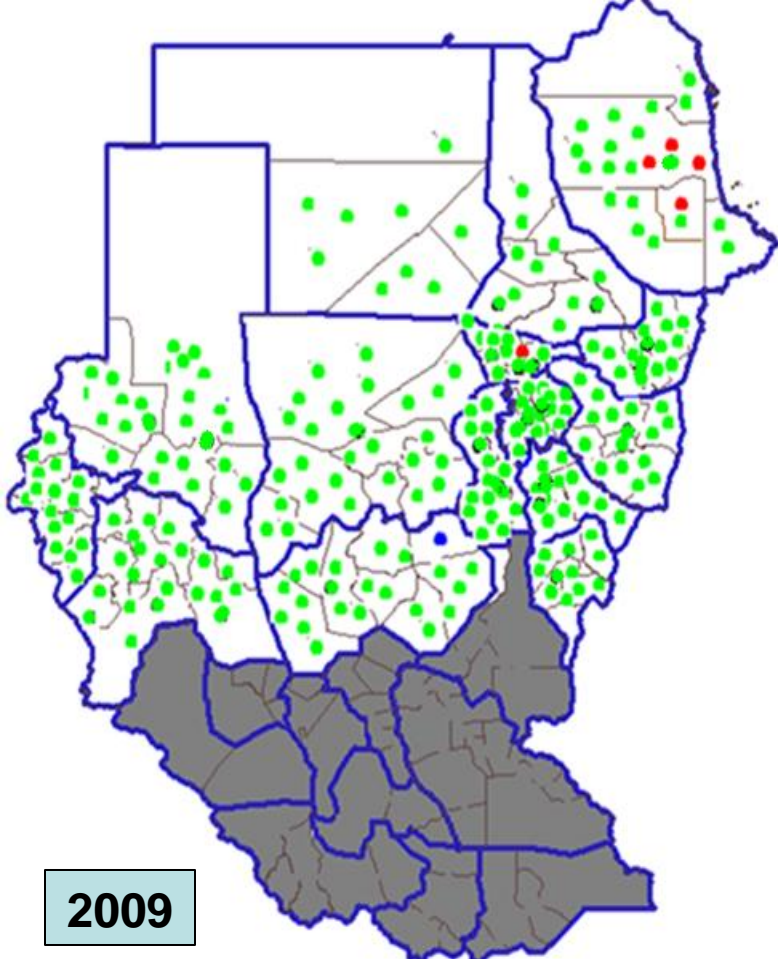
# **Sudan Weekly AFP surveillance report**



**AFP surveillance  
system North sudan**

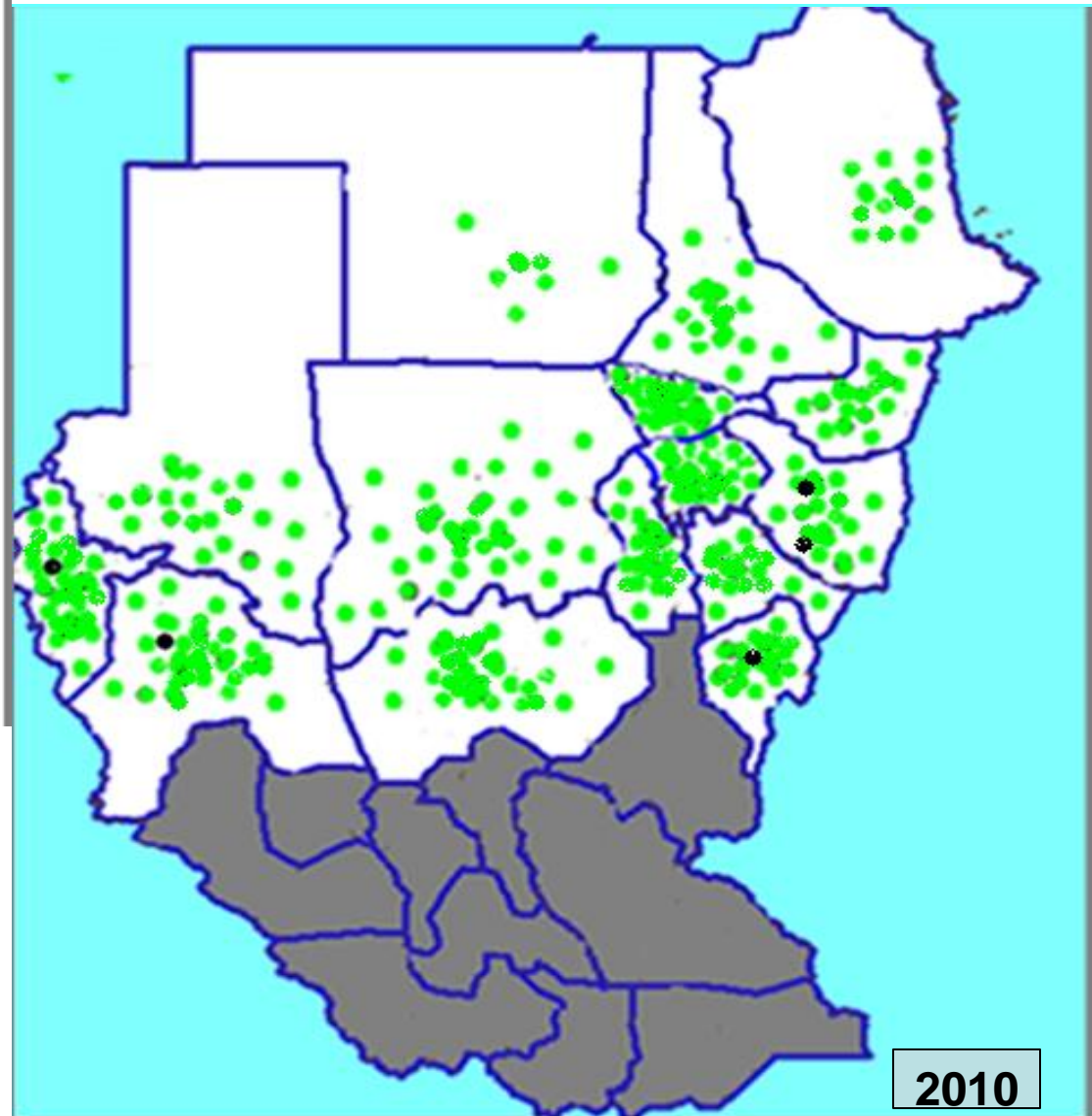
## Map 2. Distribution of AFP cases by classification

N Sudan 2009-2010\*



2009

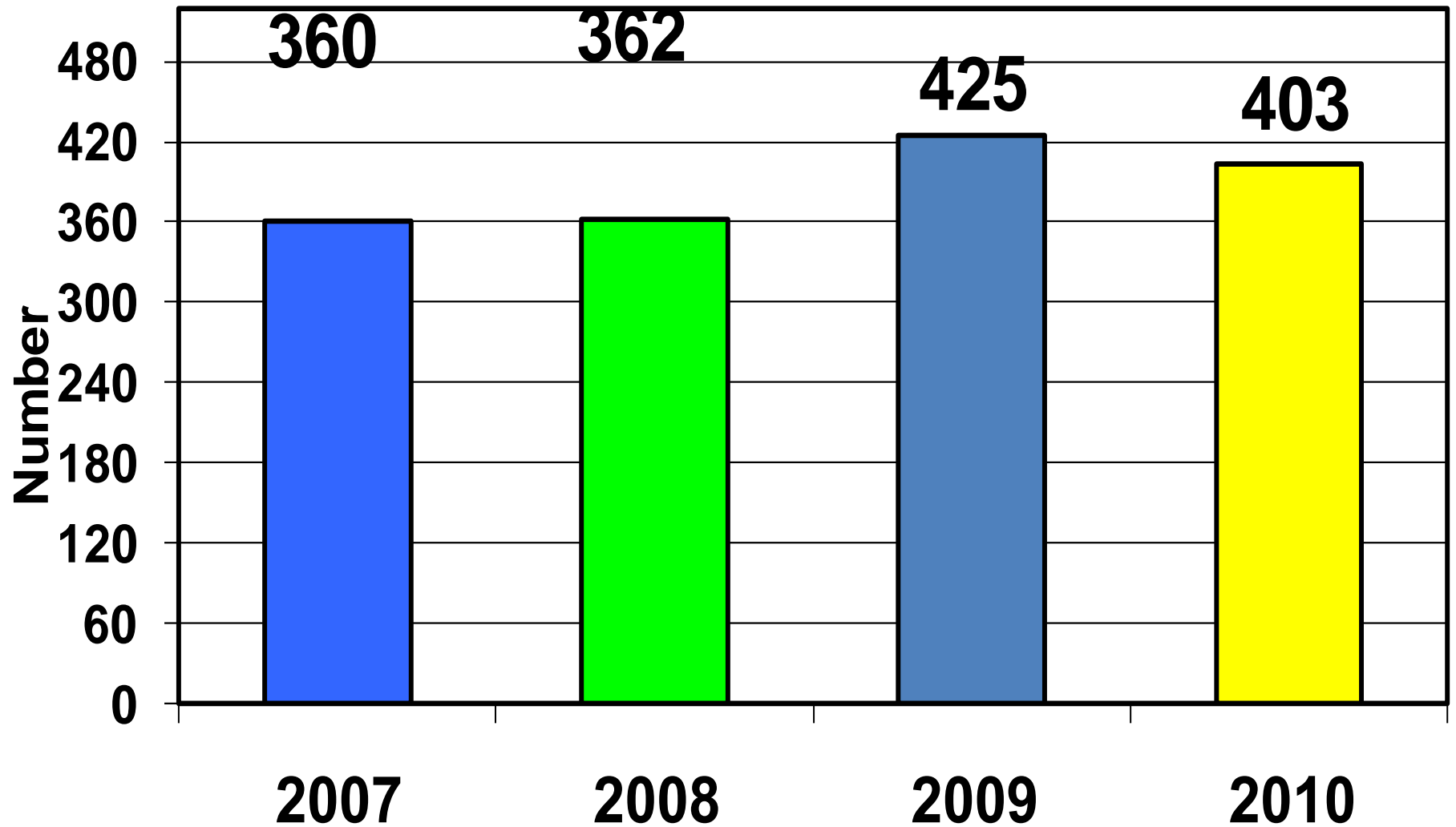
- Polio case P1
- Compatible case
- Non-polio AFP
- Pending classification



2010

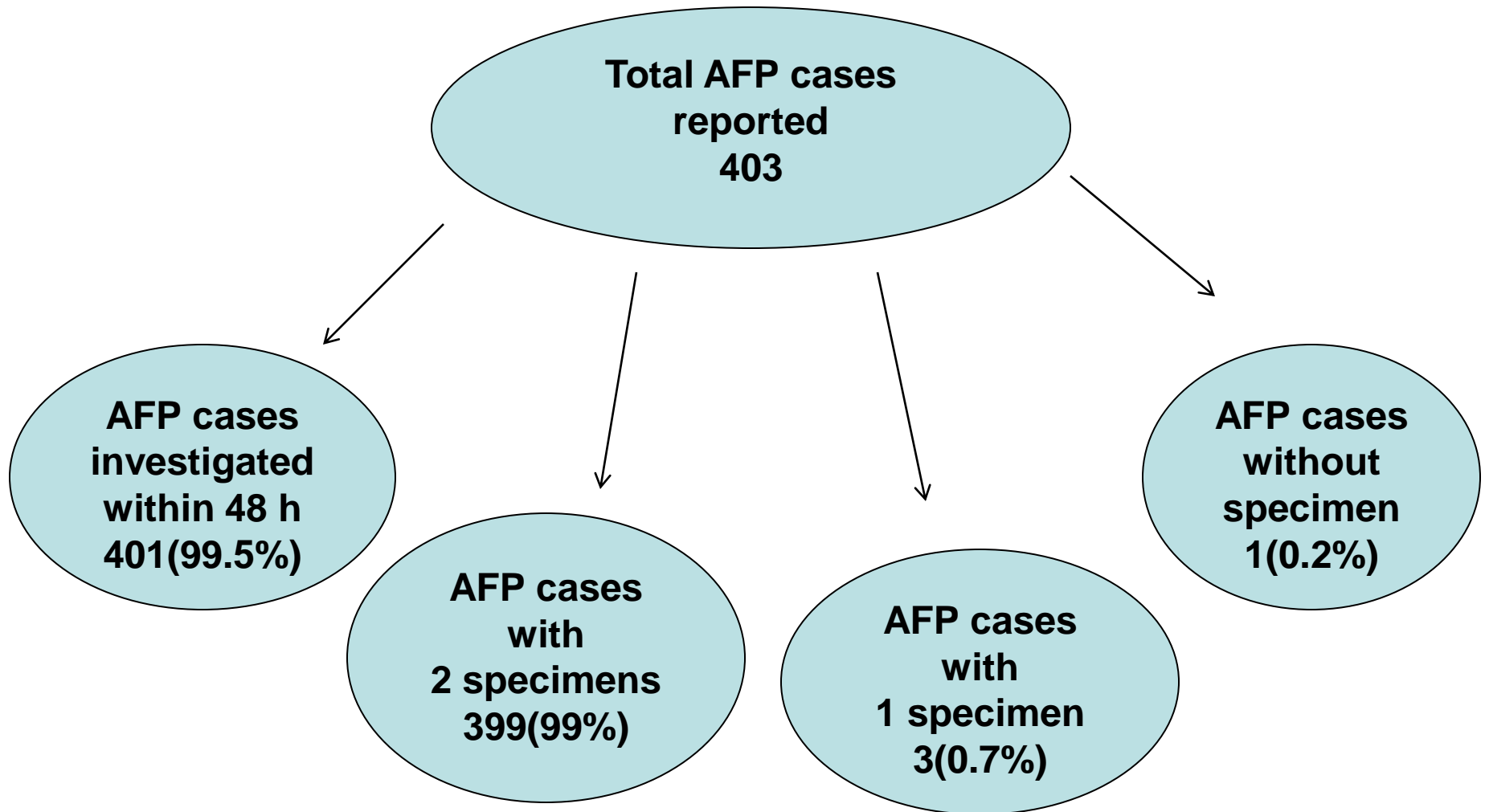
\*Up to week 52

# Fig 1. Total AFP cases, North Sudan 2007 - 2010\*



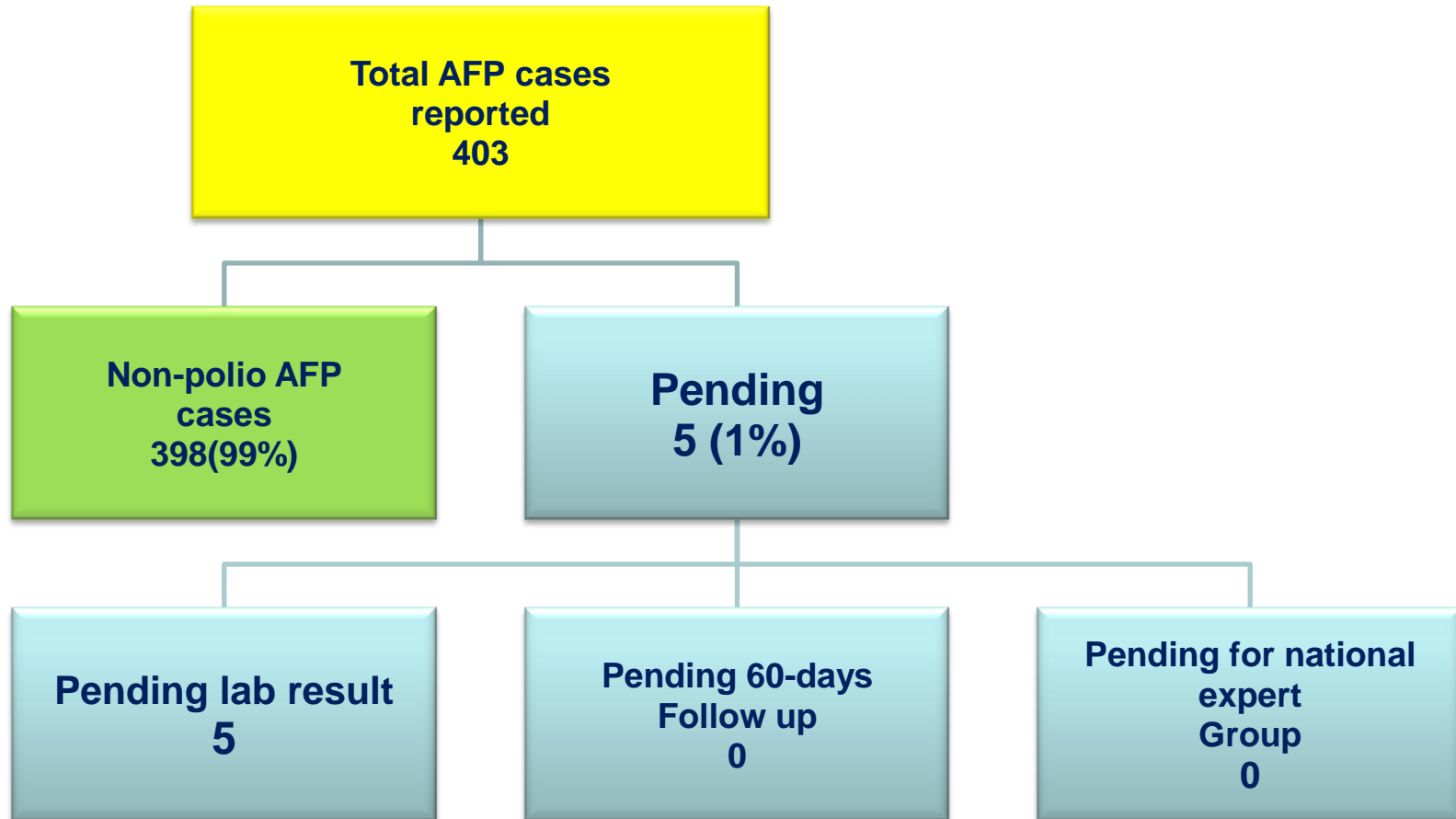
\*Up to week 52

**Fig 2. Timeliness of responding to reported AFP cases, North Sudan, 2010**



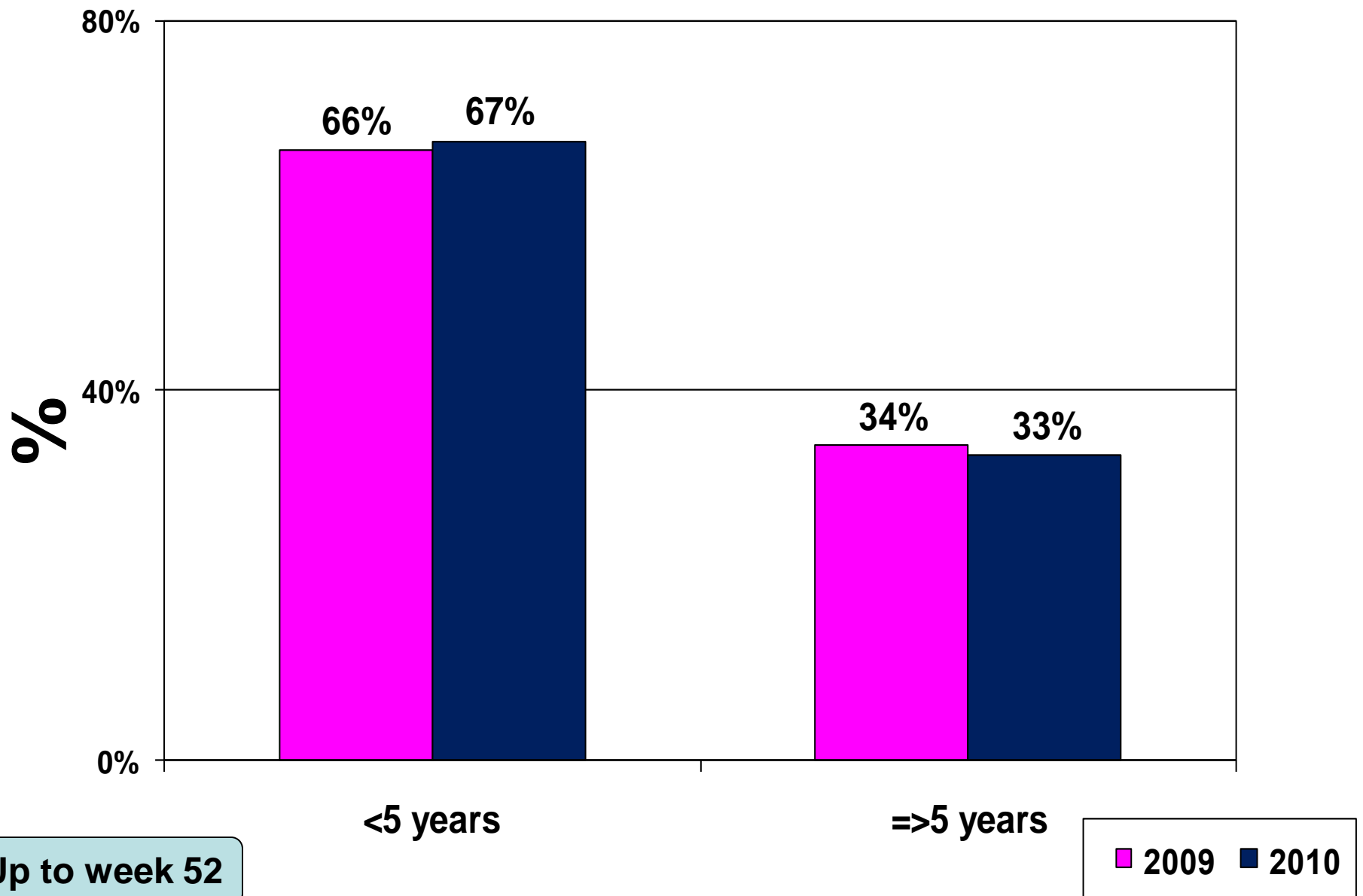
**\*Up to week 52**

**Fig 2. Total AFP cases by classification,  
North Sudan, 2010\***



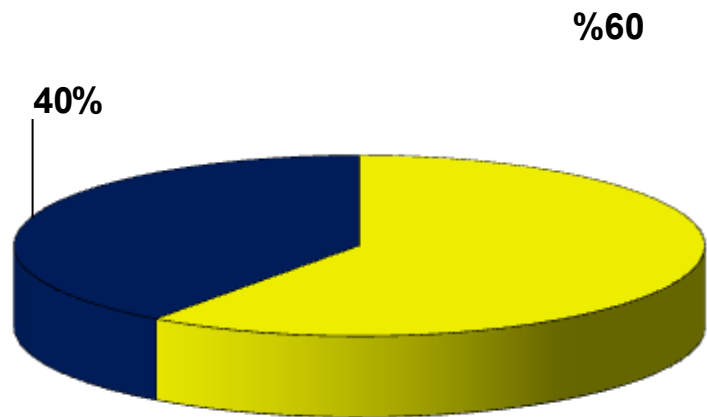
**\*Up to week 52**

**Fig 3. North Sudan AFP cases by age group, 2009 and 2010\***

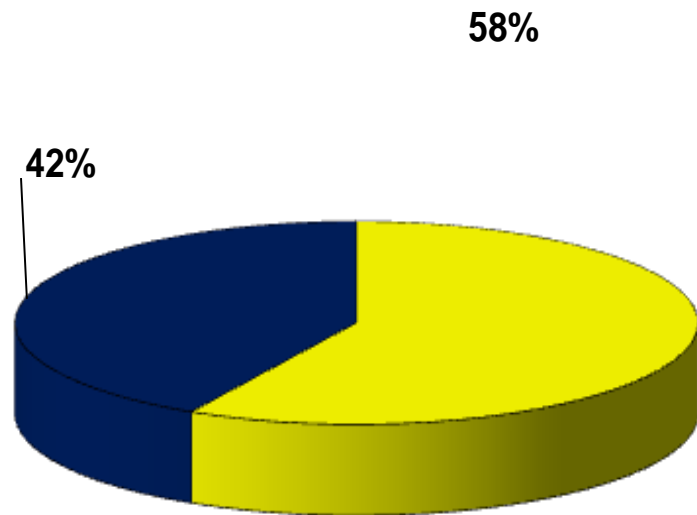


# Fig 4. North Sudan AFP cases by Sex, 2009- \*2010

2009



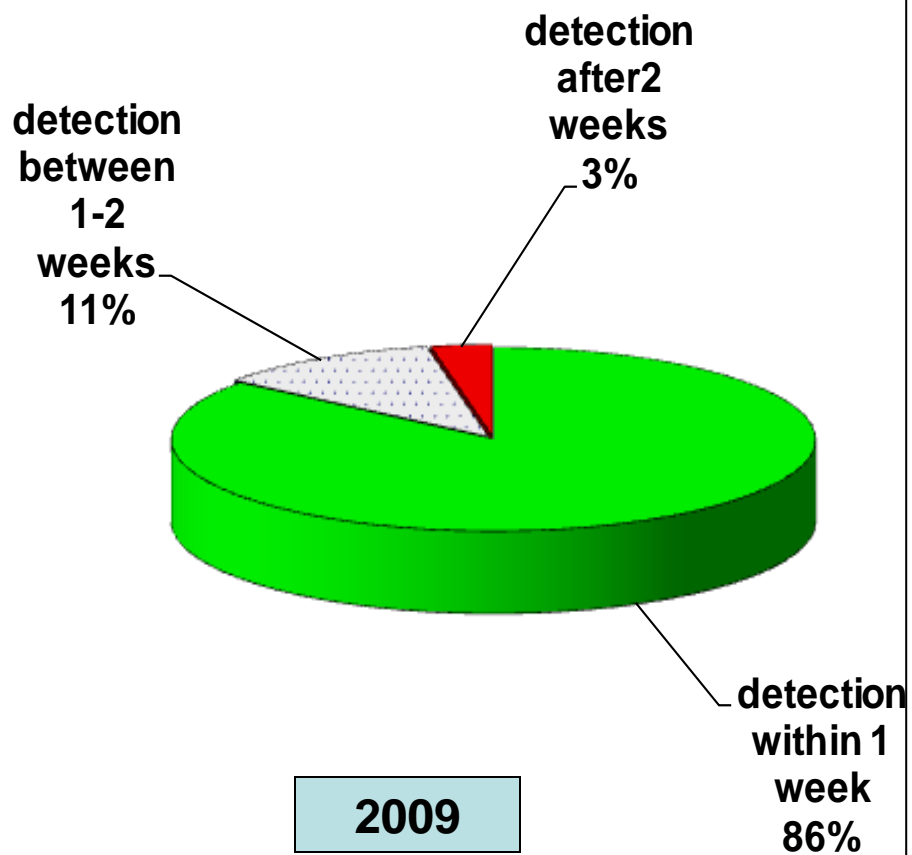
2010



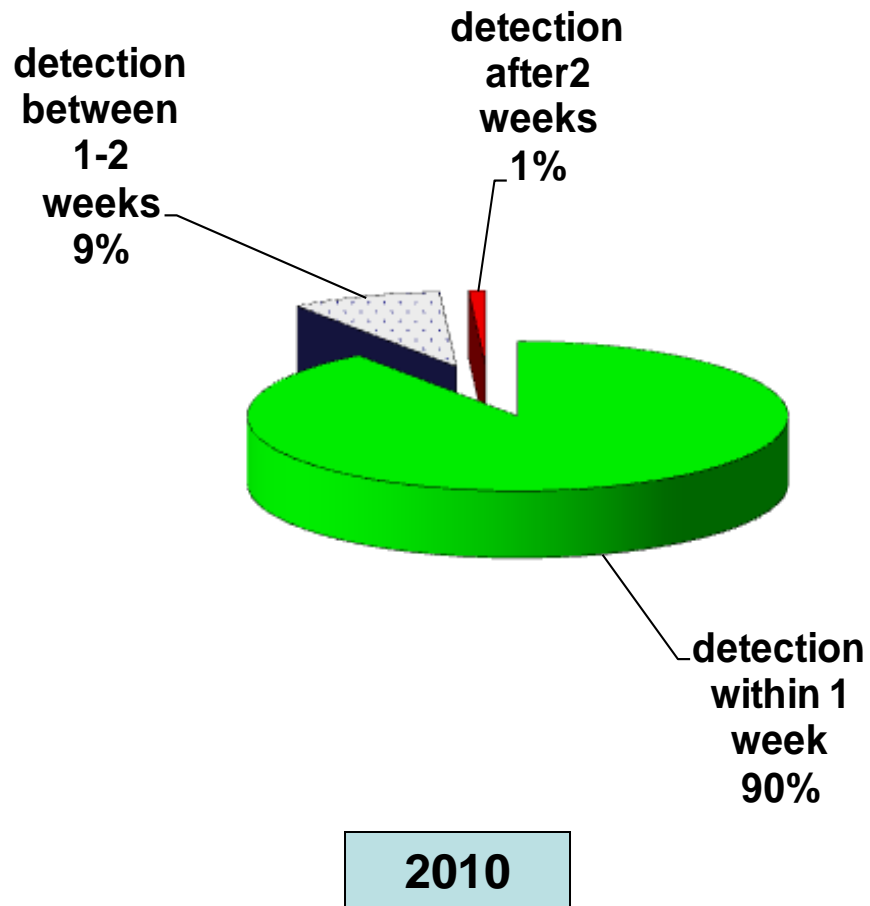
\*Up to week 52

■ male ■ female

**Fig 5. Percent distribution of AFP cases by time of detection, North Sudan, 2009**



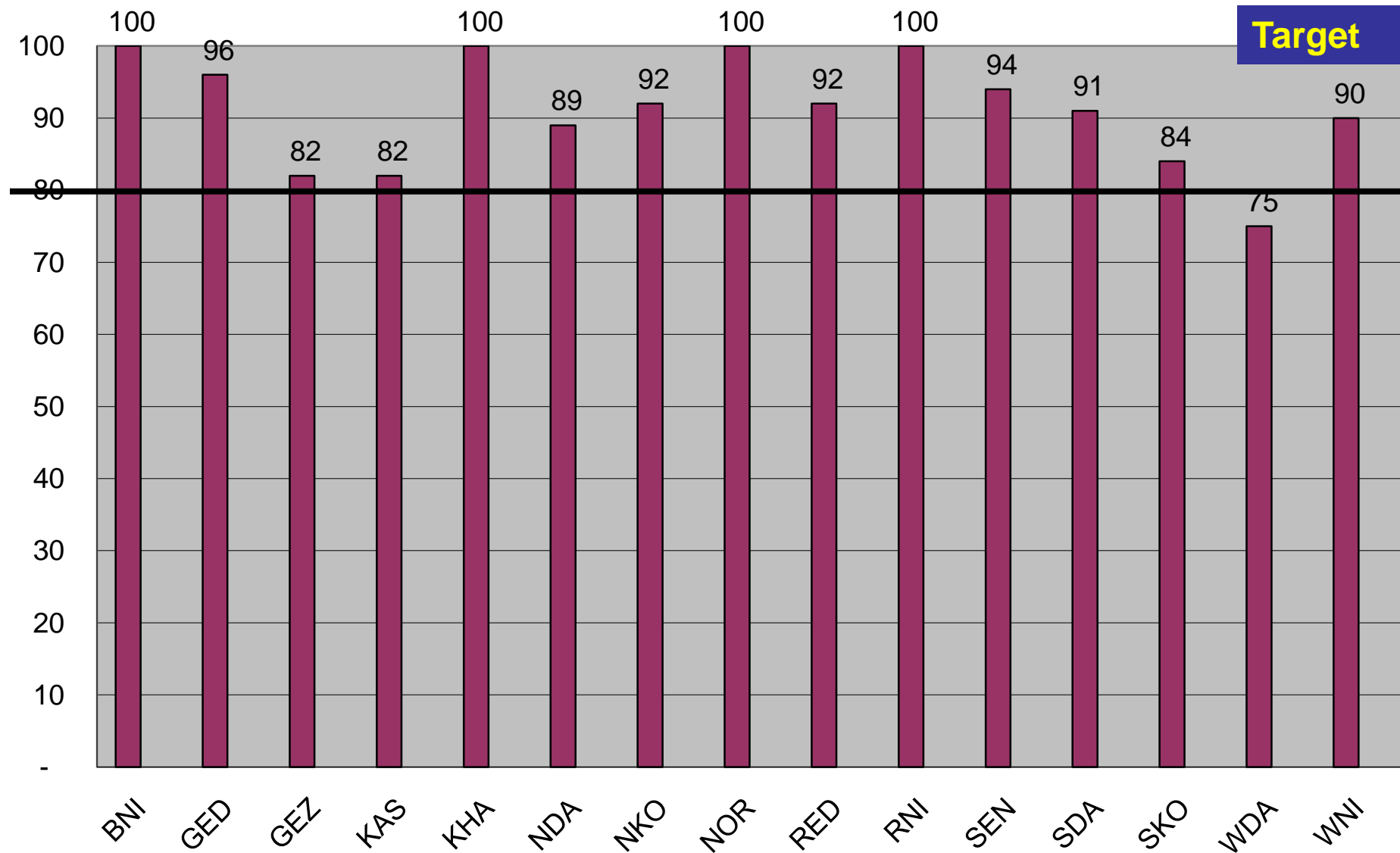
**Fig 6. Percent distribution of AFP cases by time of detection, North Sudan, 2010**



**\*Up to week 52**



# Early detection {within one week} of AFP cases by states North sudan 2010



\*Up to week 52

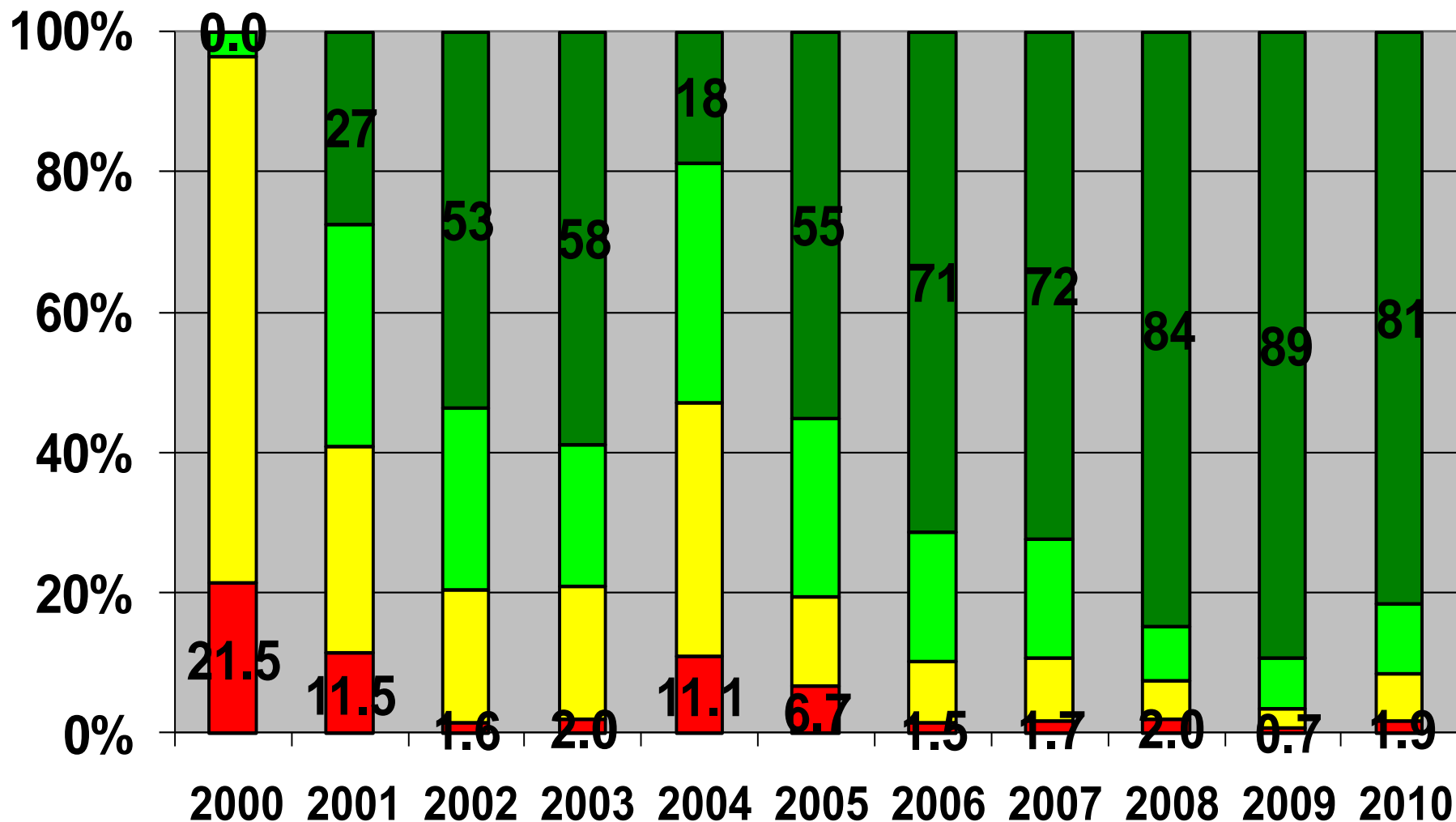
**Table 1. Major AFP surveillance performance indicators, Northern States, 2010 (up to wk 52)**

<b>State</b>	<b>U 15 yrs population</b>	<b>Reported AFP cases</b>	<b>Non-polio AFP cases</b>	<b>Pending classifica</b>	<b>Polio</b>	<b>Comp cases</b>	<b>% Adequate stools</b>	<b>Non-polio AFP rate</b>	<b>% NPEV</b>
<b>B. Nile</b>	<b>355,219</b>	<b>20</b>	<b>19</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>5.6</b>	<b>5%</b>
<b>Gedarif</b>	<b>833,767</b>	<b>22</b>	<b>20</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>95%</b>	<b>2.6</b>	<b>9%</b>
<b>Gezira</b>	<b>1,868,934</b>	<b>50</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>96%</b>	<b>2.7</b>	<b>20%</b>
<b>Kasala</b>	<b>815,721</b>	<b>22</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>95%</b>	<b>2.7</b>	<b>5</b>
<b>Khartoum</b>	<b>2,316,035</b>	<b>48</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>2.1</b>	<b>10%</b>
<b>N.Darf</b>	<b>836,608</b>	<b>28</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>3.3</b>	<b>18%</b>
<b>N.Kord</b>	<b>1,243,363</b>	<b>39</b>	<b>39</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>97%</b>	<b>3.1</b>	<b>15%</b>
<b>Northern</b>	<b>263,099</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>2.7</b>	<b>14%</b>

# Con-Table 1. Major AFP surveillance performance indicators, Northern States, 2010 (up to wk 52)

State	U 15 yrs population	Reported AFP cases	Non-polio AFP cases	Pending classification	Polio	Comp cases	% Adequate stools	Non-polio AFP rate	% NPEV
Red Sea	329,031	13	13	0	0	0	92%	4.0	8%
River Nile	453,525	18	18	0	0	0	94%	4.0	6%
Sennar	699,734	16	16	0	0	0	88%	2.3	25%
S. Darfur	1,689,498	34	33	1	0	0	97%	2.0	24%
S. Kord	947,711	25	25	0	0	0	100%	2.6	28%
W.Darfur	927,169	40	39	1	0	0	98%	4.3	15%
W. Nile	814,450	21	21	0	0	0	100%	2.6	14%
<b>Total</b>	<b>14,393,864</b>	<b>403</b>	<b>398</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>97%</b>	<b>2.8</b>	<b>15%</b>

# Fig 7. Percent distribution of AFP cases < 60 months by number of OPV doses, North Sudan 2000-010\*



0 OPV doses

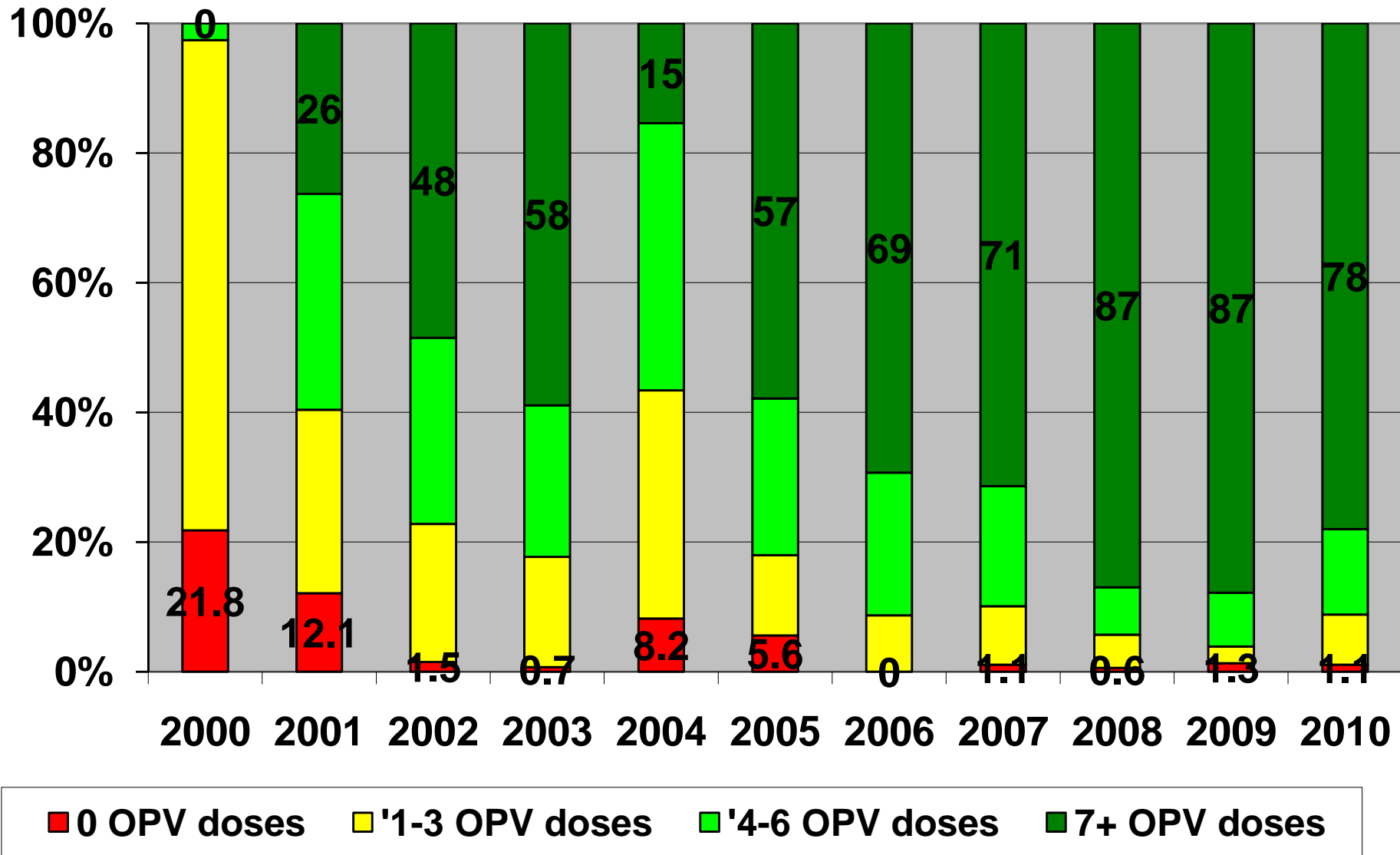
1-3 OPV doses

4-6 OPV doses

7+ OPV doses

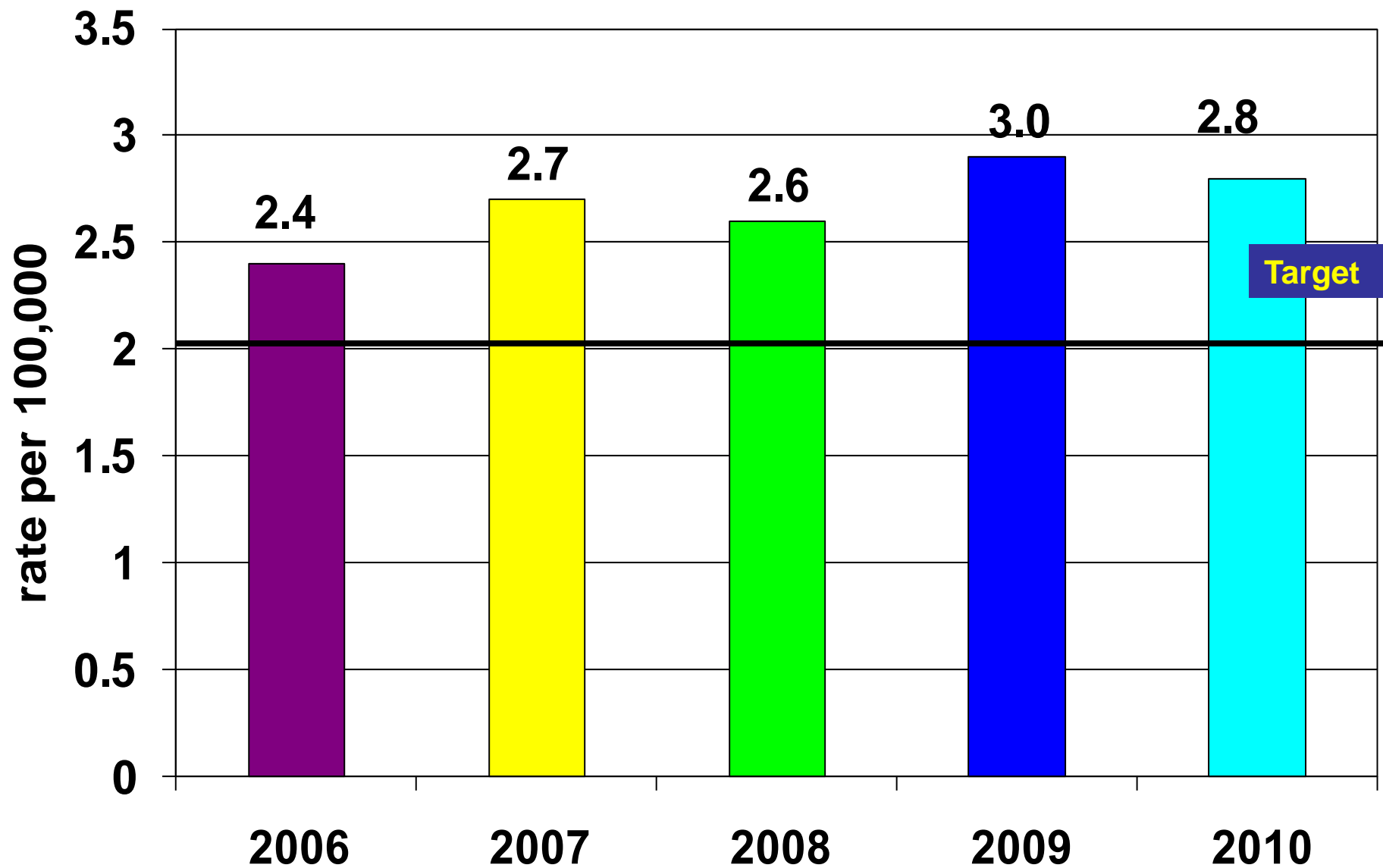
\*Up to week 52

**Fig 8. No. & percent distribution of AFP cases 6-36 months by number of OPV doses, North Sudan 2000-010\***



\*Up to week 52

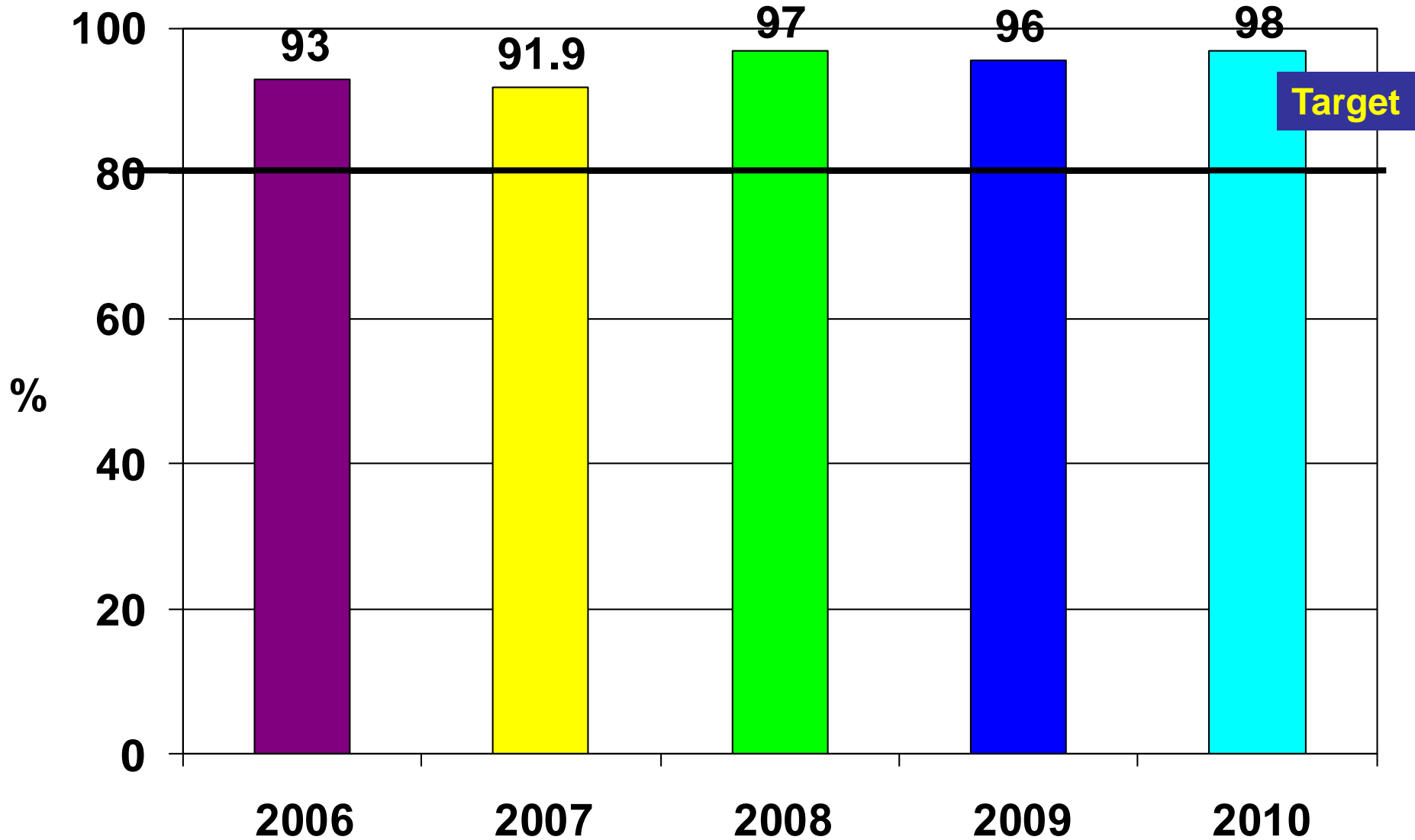
**Fig 8. Non-Polio AFP rate per 100,000 children under 15 years of age, North Sudan, 2006 – 2010**



\*Up to week 52

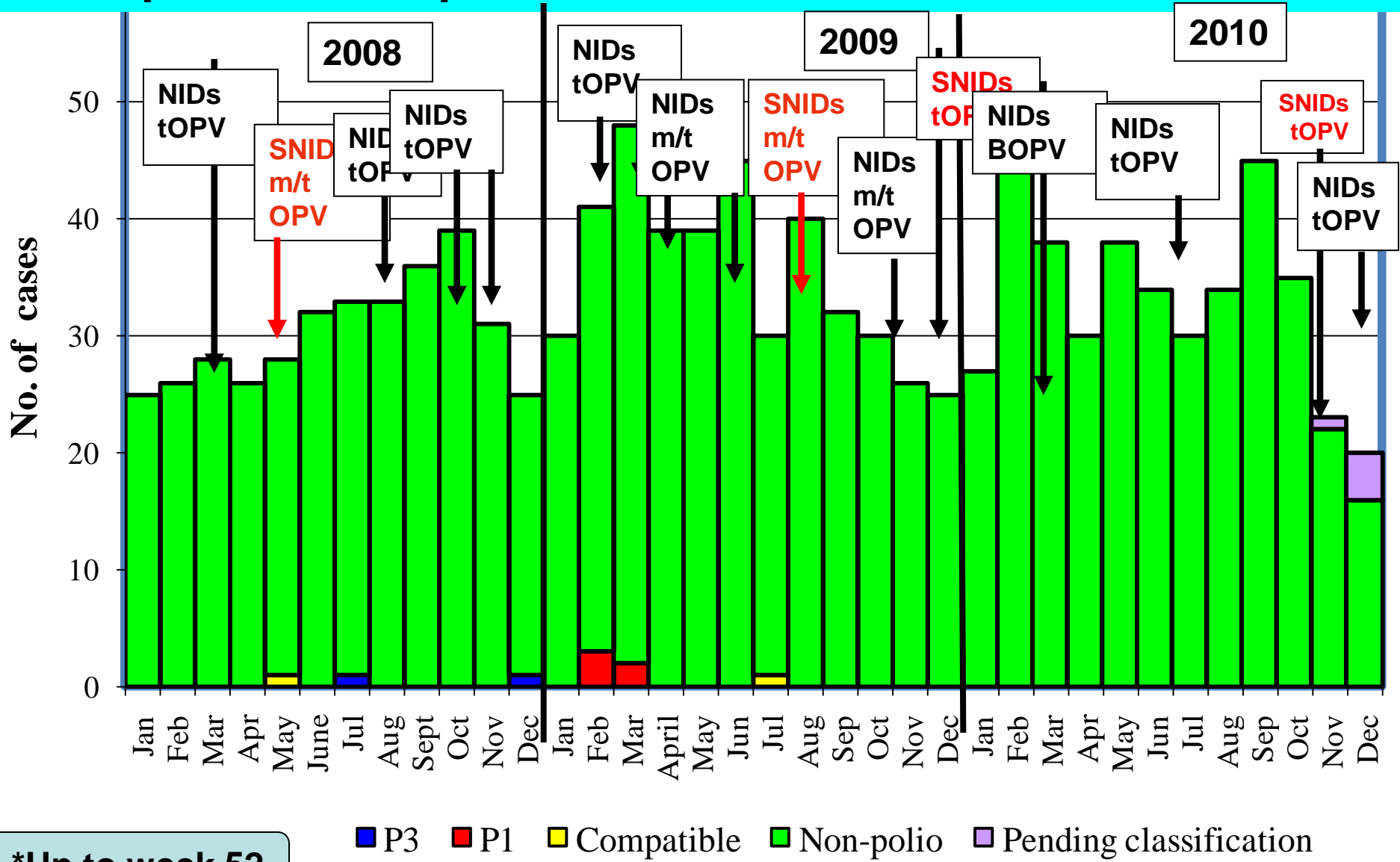
# Fig 9. Adequate stool collection rate

## North Sudan, 2006 – 2010\*



\*Up to week 52

# Fig 11. Distribution of polio and non-polio AFP Cases by classification, month of onset & SIA response to the poliovirus importation in North SUDAN 2008-2010

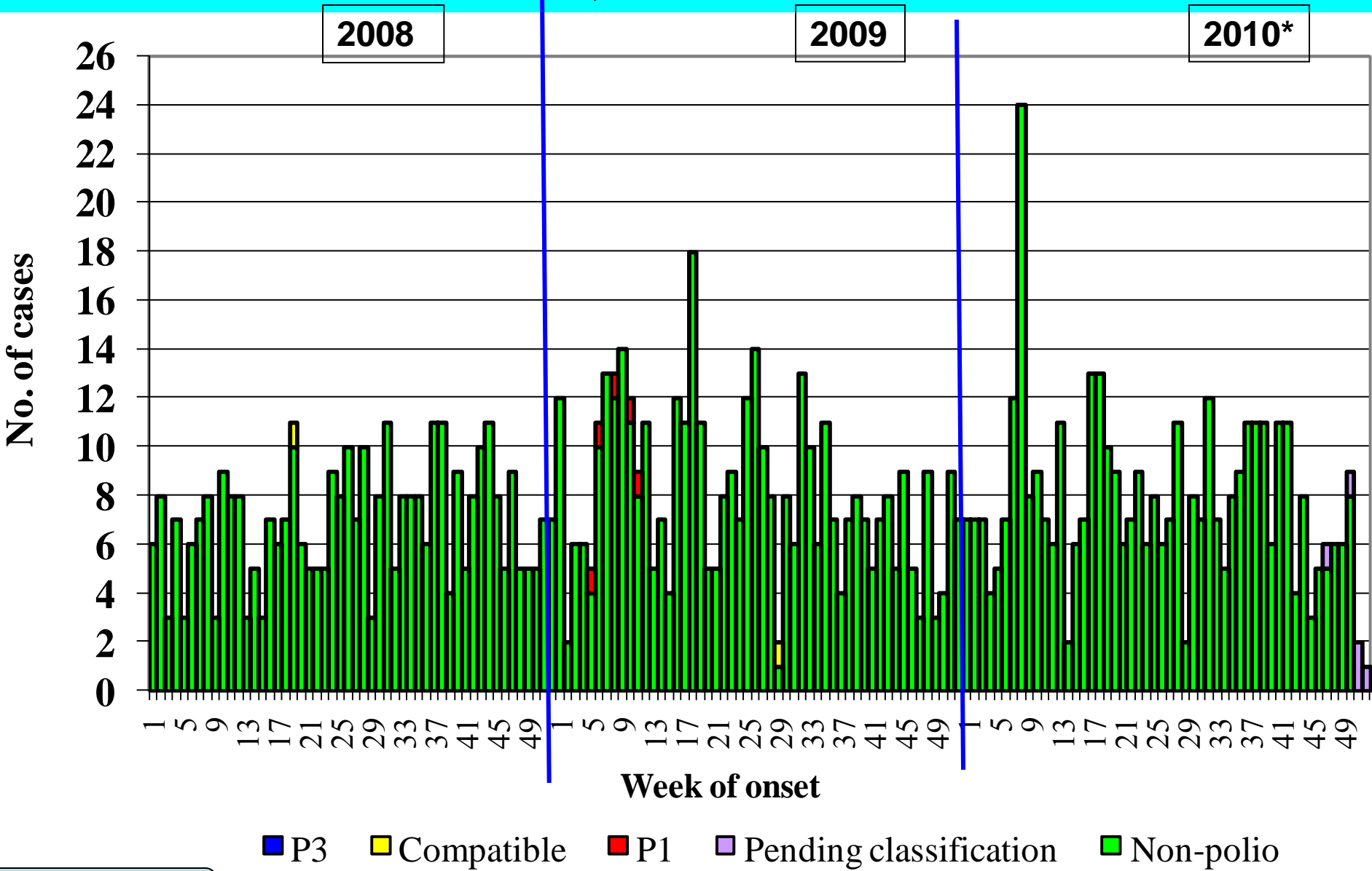


\*Up to week 52

■ P3 ■ P1 ■ Compatible ■ Non-polio ■ Pending classification

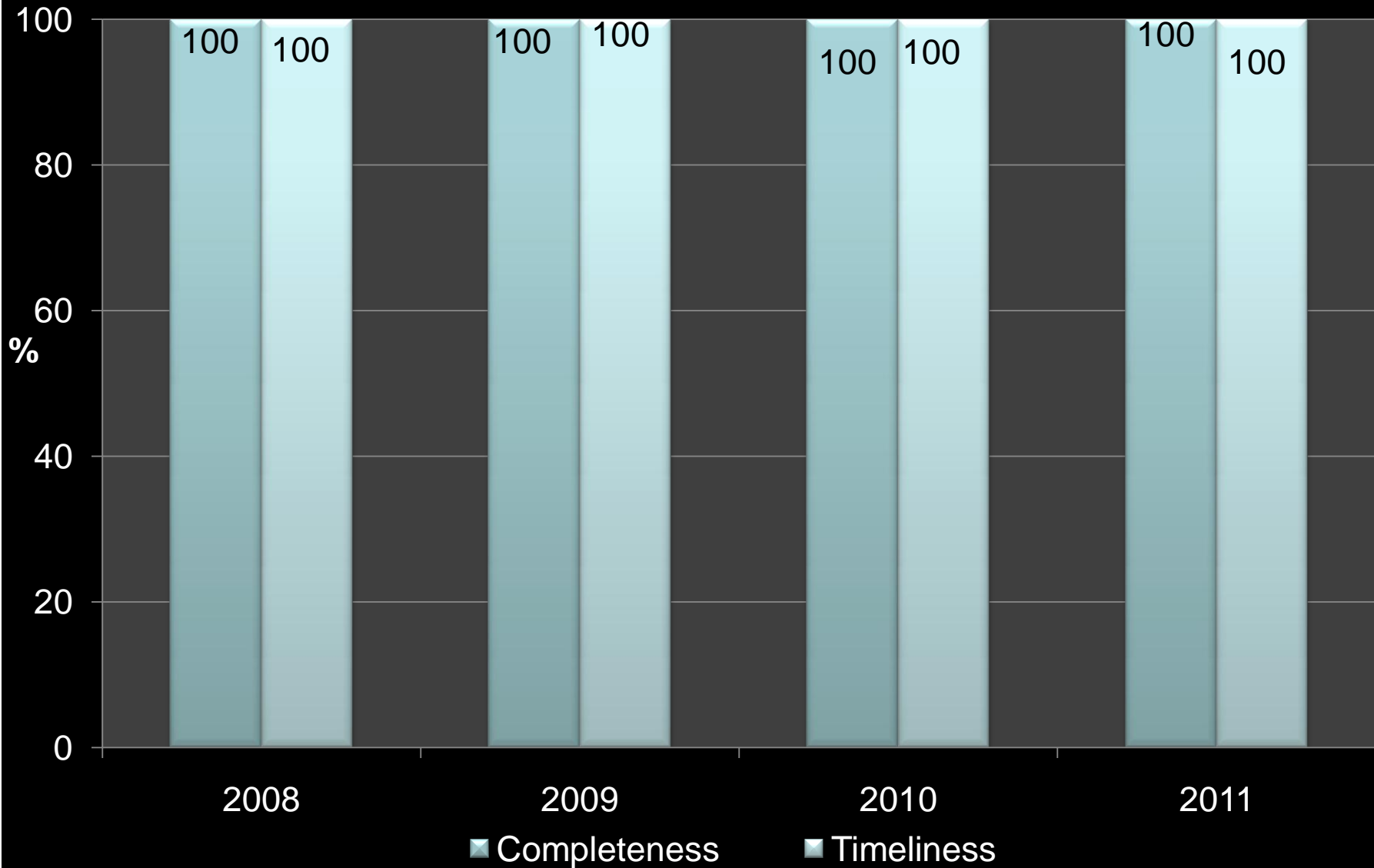


# Fig 12. Distribution of AFP cases by classification and week of onset, North Sudan 2007 – 2010\*

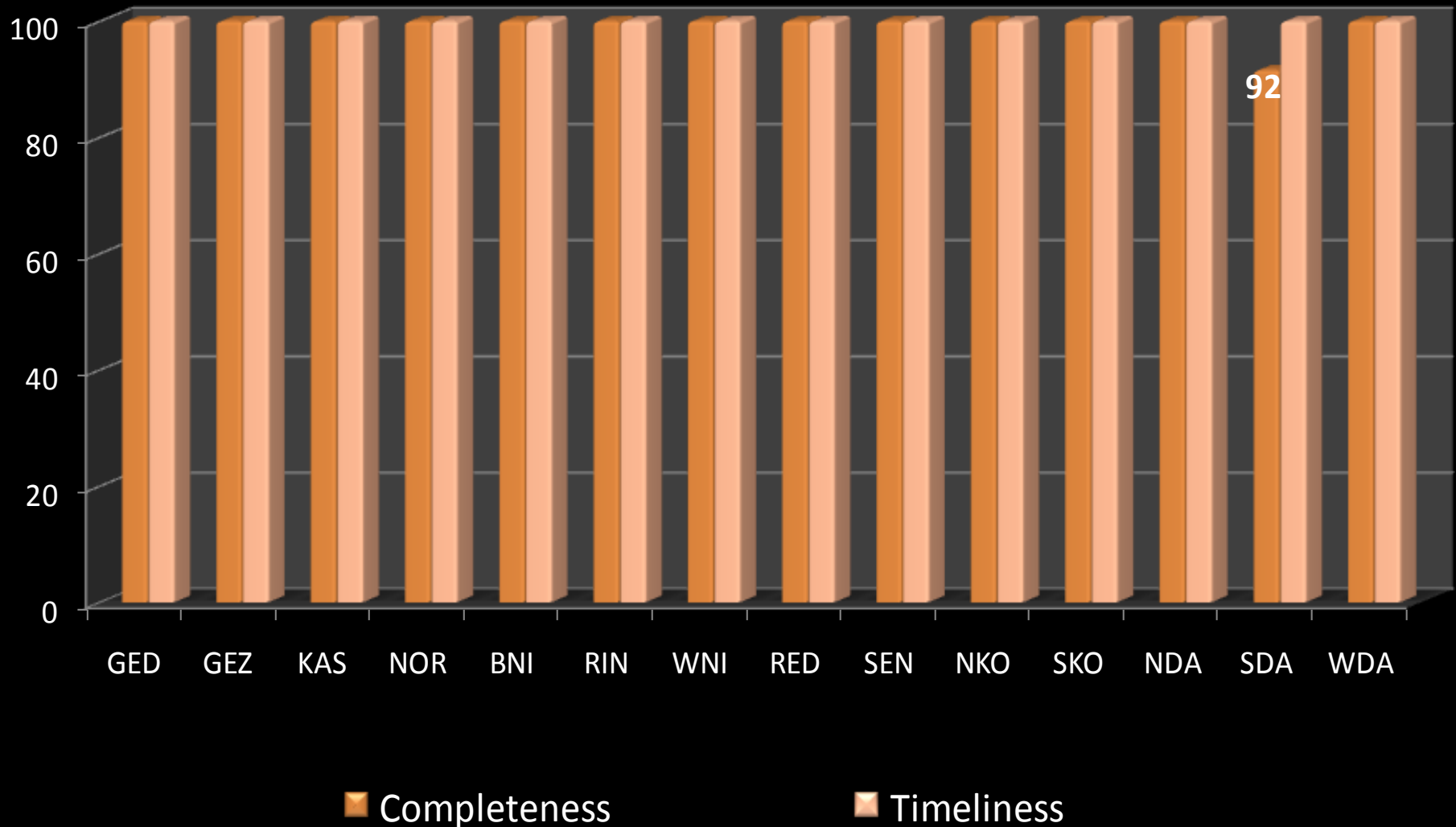


\*Up to week 52

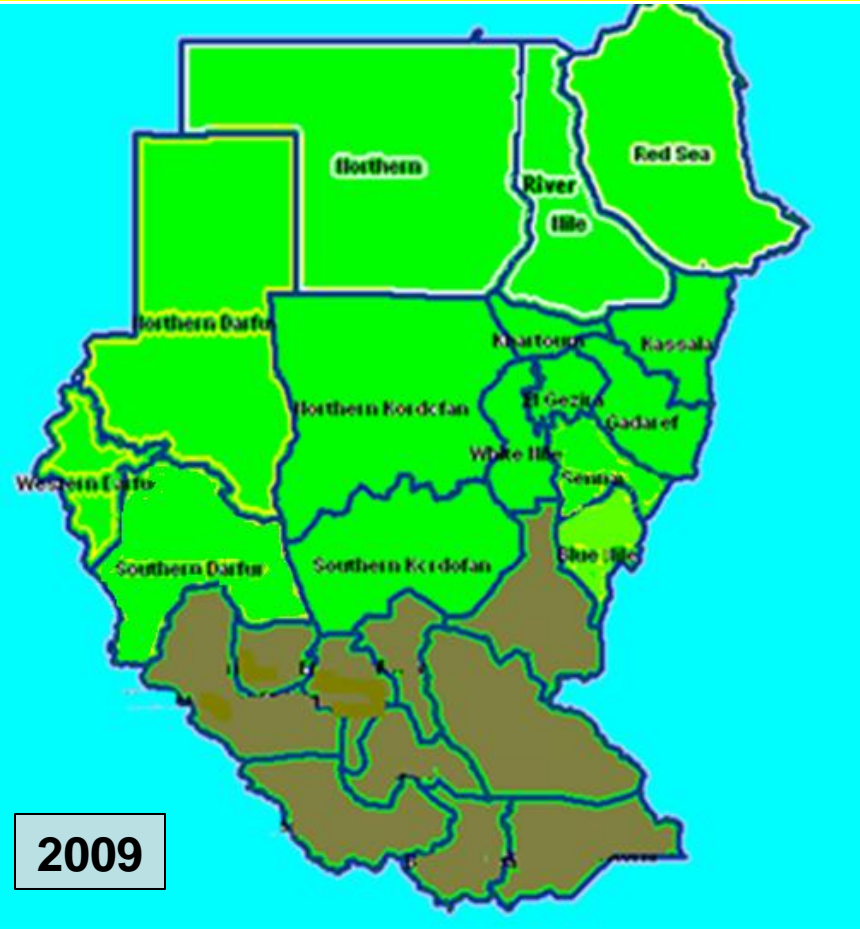
**Fig 13. Zero Reports (Comp. & Time.) According To Reporting To C.U for Northern States, 2008-2011**



**Fig 14. (Comp. & Time) Of Zero Reports According To Reporting Sites For Northern States 2011 (week1)**



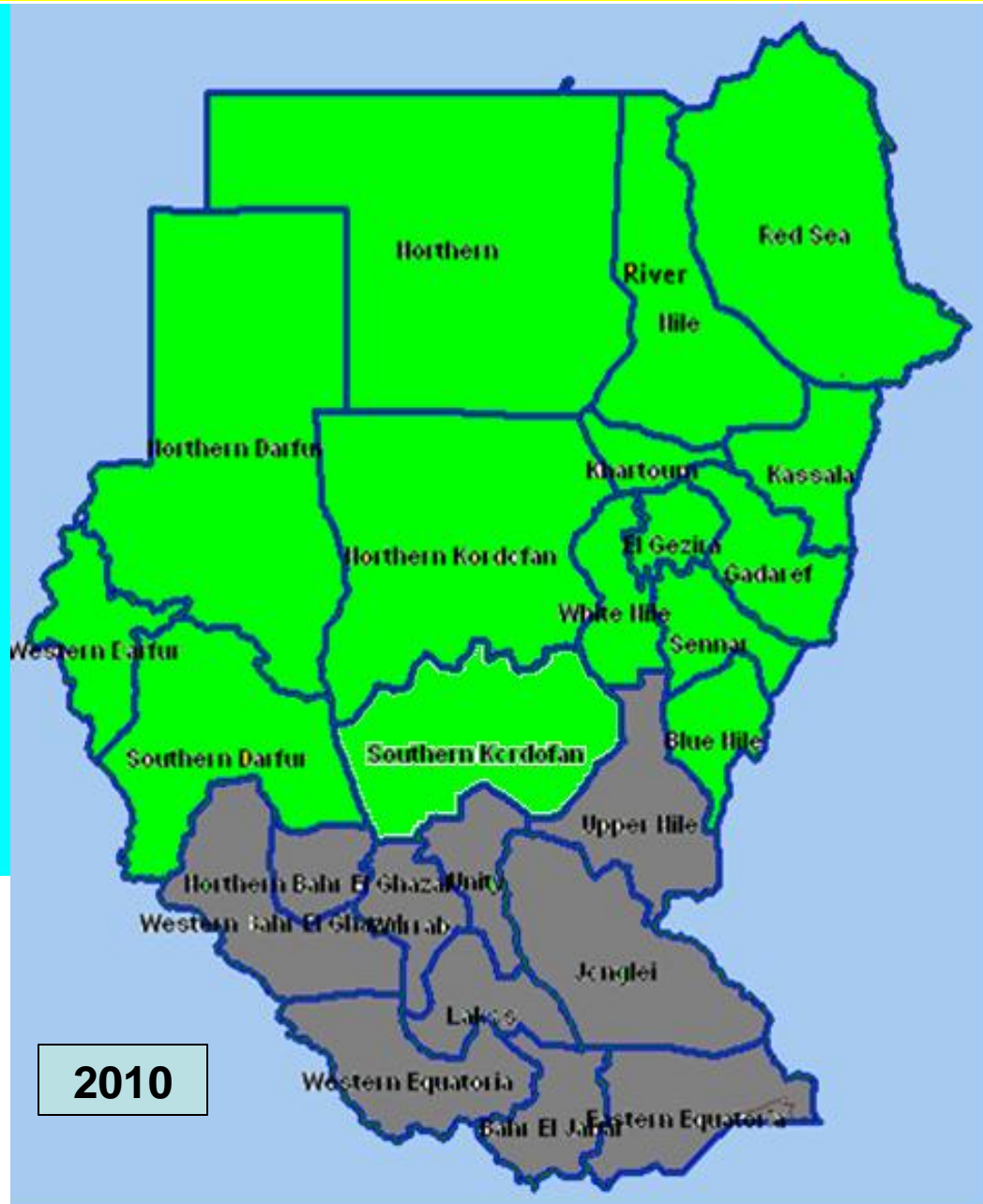
# Map 3. Annualized non-polio AFP rate per 100,000 by state, 2009- 2010 {up to week 52}



2 or more per 100,000






1-1.9 per 100,000



# Map 4. Percent distribution of AFP cases having adequate stool samples by state, 2009- 2010 {up to week 52}



-  80% - 100%
-  60% - 79%
-  No cases

- AFP case during 2011
- SUD.WNI.2011.001
- A male child aged 5 years from Kosti Town, Kosti locality. The onset of paralysis was on 2<sup>nd</sup> of January 2011, notified on the same day from private clinic, investigated on 3<sup>rd</sup> of January. Adequate stool samples were collected and received in the lab.
- The case was diagnosed as GBS.
- Received 18 OPV doses.

**Table 4. National polio lab performance indicators  
North Sudan, 2008-2010**

Indicator	2008	2009	2010*
AFP cases with samples tested in NPL	361	420	402
Cases with wild poliovirus (imported P1)	0	5	0
Cases with wild poliovirus (imported P3)	2	0	0
Cases with non-polio enterovirus	14%	13%	15%
SL viruses No. & (%) from AFP cases	7 (2%)	7 (1.7%)	6 (1.6%)
Median days from the time of samples received in the lab to primary culture report or L20B result	11 days	12 days	12 days
Number of samples from the AFP contacts tested in the NPL	407	488	245
Contacts with non-polio enterovirus	8.1%	8.2%	(14.6)%
Sabin like viruses No. & (%) from contacts	9(2.3%)	4(0.9)	0
NSL like viruses from contacts	0	3	0
Number of Healthy children received in the lab	0	0	5

**Table 5. Polio lab performance  
North Sudan, 2009 and 2010 {up to week 52}**

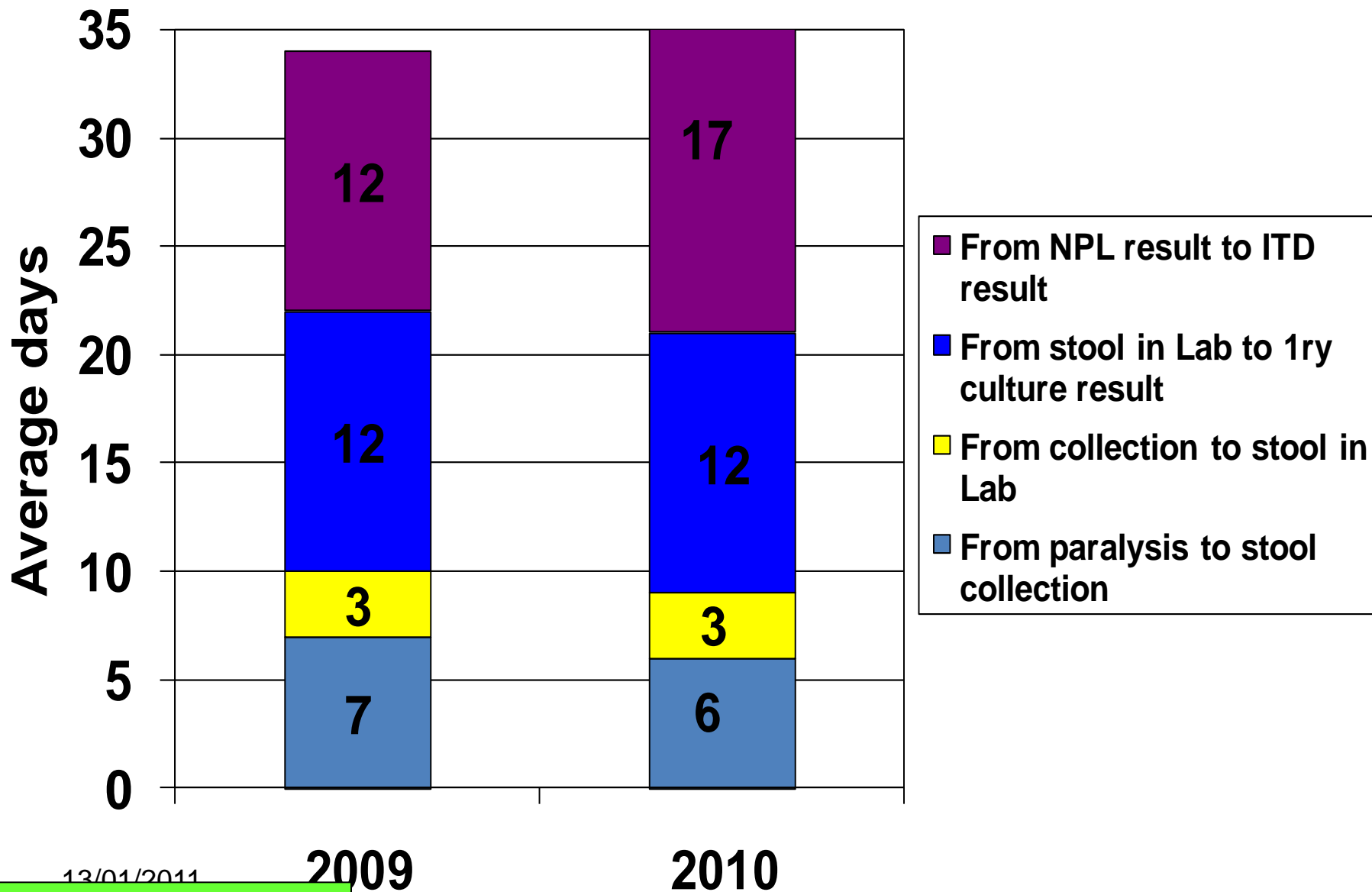
<b>Week of onset</b>	<b>Total AFP Cases with samples</b>	<b>AFP Cases under process</b>	<b>L20B +ve pending ITD</b>	<b>Negative cases</b>	<b>NPEV positive</b>	<b>% NPEV</b>	<b>Result reported within 14 days</b>	<b>Arrival within 3 days of being collected</b>	<b>Arrival within 3 days of being sent</b>
<b>Up to W52 2009</b>	<b>420</b>	<b>0</b>	<b>0</b>	<b>371</b>	<b>53</b>	<b>13%</b>	<b>91%</b>	<b>81%</b>	<b>99%</b>
<b>Up to W52 2010</b>	<b>402</b>	<b>5</b>	<b>2</b>	<b>336</b>	<b>61</b>	<b>15%</b>	<b>93.7%</b>	<b>84%</b>	<b>99%</b>



**Table 2 Polio lab performance  
North Sudan up to week one 2010 and 2011**

<b>Week of onset</b>	<b>Total Cases</b>	<b>Cases under process</b>	<b>L20B POS</b>	<b>NPEV negative</b>	<b>NPEV positive</b>	<b>% NPEV</b>	<b>Result reported within 14days</b>	<b>Arrival within 3 days of being collected</b>
<b>Up to Week one 2011</b>	1	0	0	0	0	0%	0%	
<b>Up to week one 2010</b>	1	0	0	0	0	0%	0%	

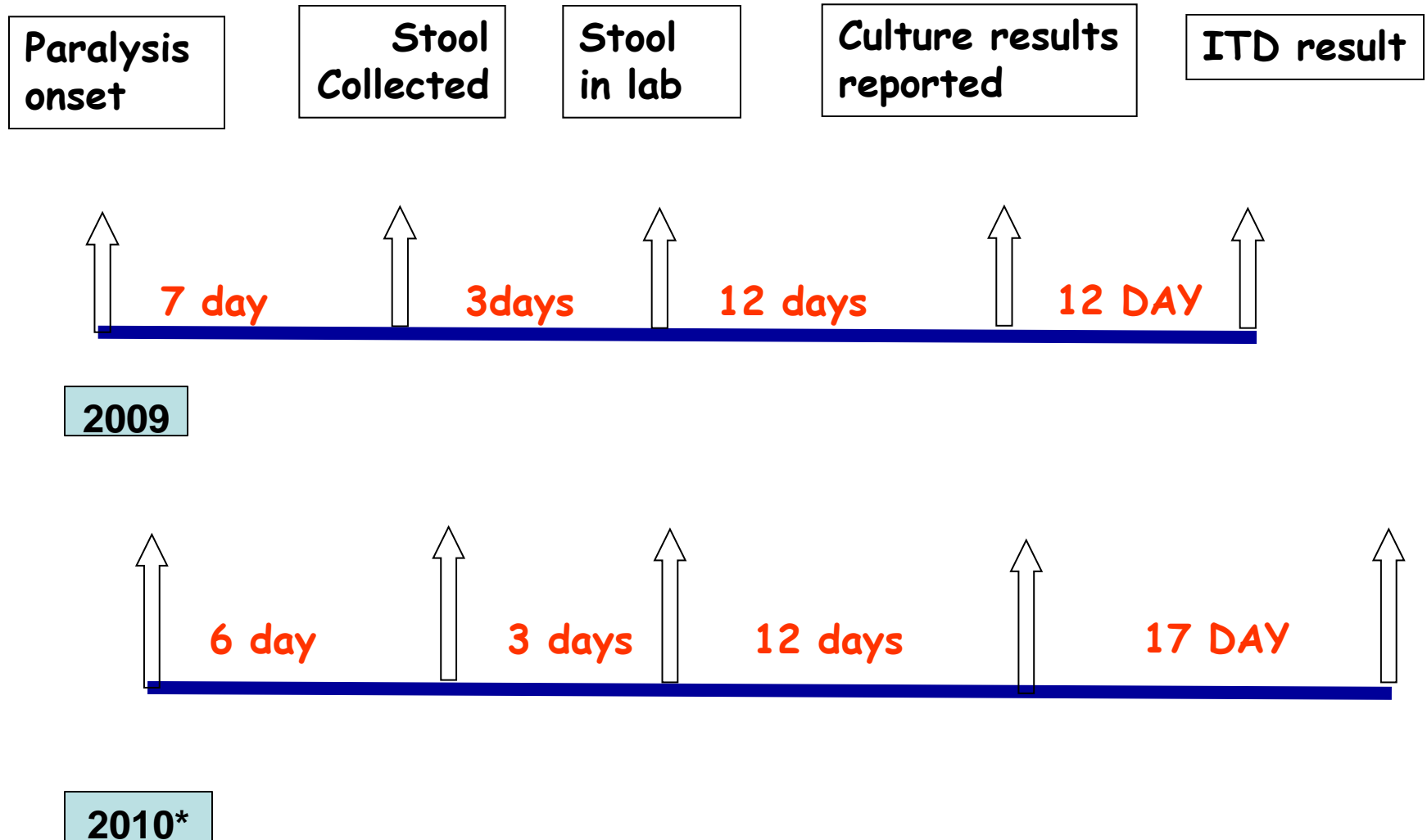
**Fig. 14: AFP Specimens' timeliness, NPL2009-2010\* up to W52**



13/01/2011

\* Up to 10/12/2010

# Fig. 14: AFP Specimens' timeliness, NPL 2009-2010



\* UP to 10/12/2010

Thanks