

## WEST NILE MENINGITIS EPIDEMIC UPDATE, FEBRUARY 24 2007

### West Nile Meningitis Summary Figures as of 23 February 2007

DISTRICT	NEW CASES	CUMULATIVE CASES	NEW DEATH	TOTAL DEATH	CFR [%]
*ARUA/ MARACHA- TEREGO	256	1744	6	51	2.9
KOBOKO	6	437	1	21	4.8
YUMBE	37	333	1	15	4.5
ADJUMANI	66	206	1	8	3.9
MOYO	7	117	0	6	5.1
NEBBI	0	7	0	2	28.6
<b>TOTAL</b>	<b>372</b>	<b>3,100</b>	<b>9</b>	<b>109</b>	<b>3.5</b>

\*Arua/Maracha-Terego line list update as of 23<sup>rd</sup> February was not ready; these are figures of 19<sup>th</sup> February 2007

#### Highlights

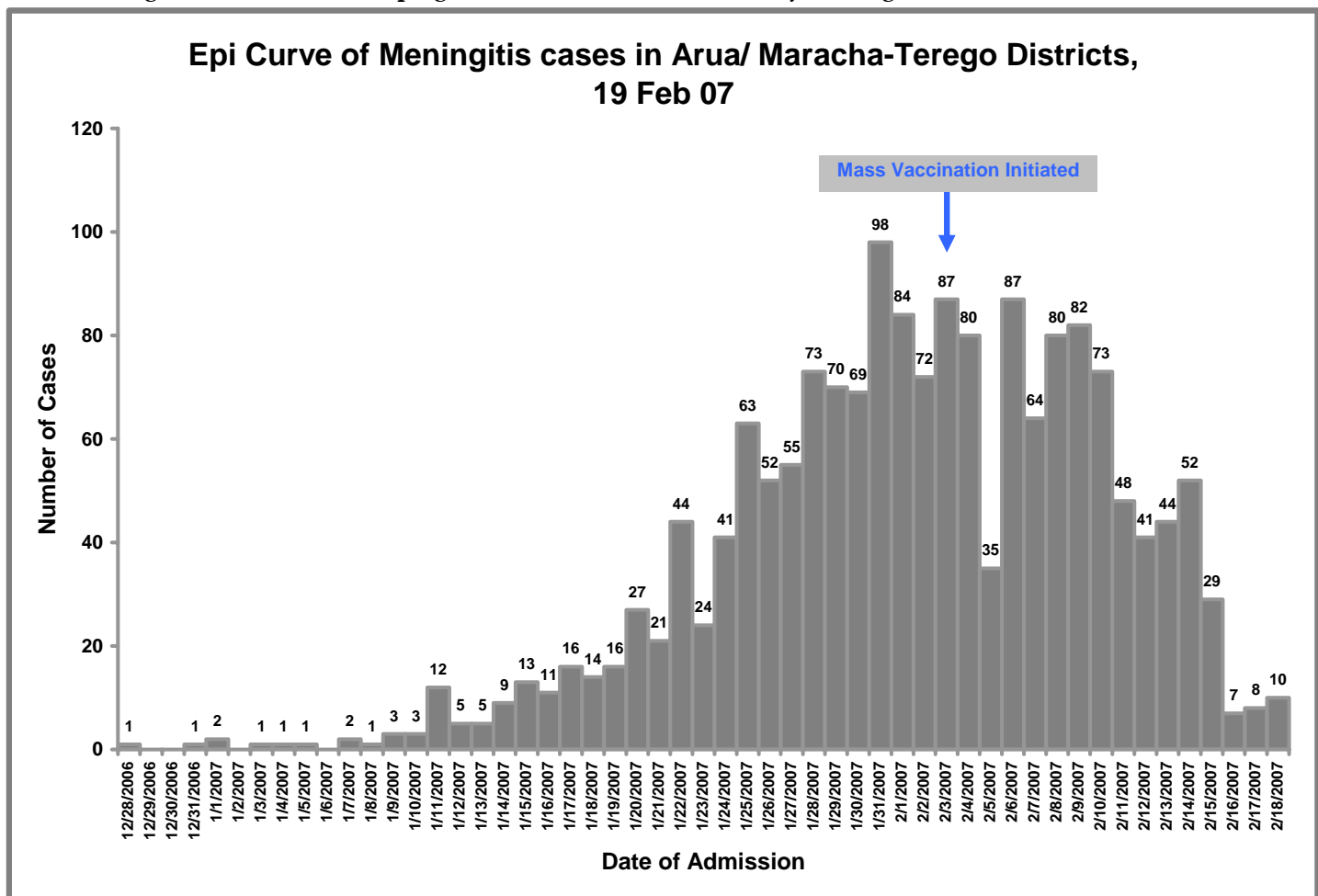
- The meningitis epidemic in west Nile sub-region has continued to exhibit a declining trend in all districts over the last five days. Koboko and Moyo districts' registered the most significant reduction, while moderate reduction has been noted in the districts of Yumbe and Adjumani during this period.
- Vaccination has been completed in Koboko district (5 subcounties; 128,467 vaccinated, coverage of 115.3%).Detailed reported is yet to be submitted.
- Vaccination was also completed in Arua/Maracha-Terego districts on 22<sup>nd</sup> February 2007, bringing the number of sub counties vaccinated to 21.(results for the 9 sub counties are not yet ready;189,716 were vaccinated in the first 13 sub counties vaccinated)
- Training at district and sub county level in preparation for vaccination has been done in the districts of Yumbe, Moyo and Adjumani.(22<sup>nd</sup> to 25<sup>th</sup> February 2007)
- Vaccines and associated logistics(AD, Safety boxes, syringes,etc) arrived in the three districts of Yumbe, Moyo and Adjumani and vaccination is set to begin on Monday 26<sup>th</sup> February 2007.
- Funds for implementation of the vaccination have been accessed by all three districts of Yumbe,Moyo and Adjumani.

## DISTRICT DESCRIPTIVE EPIDEMIOLOGY

### ARUA/ MARACHA-TEREGO DISTRICT

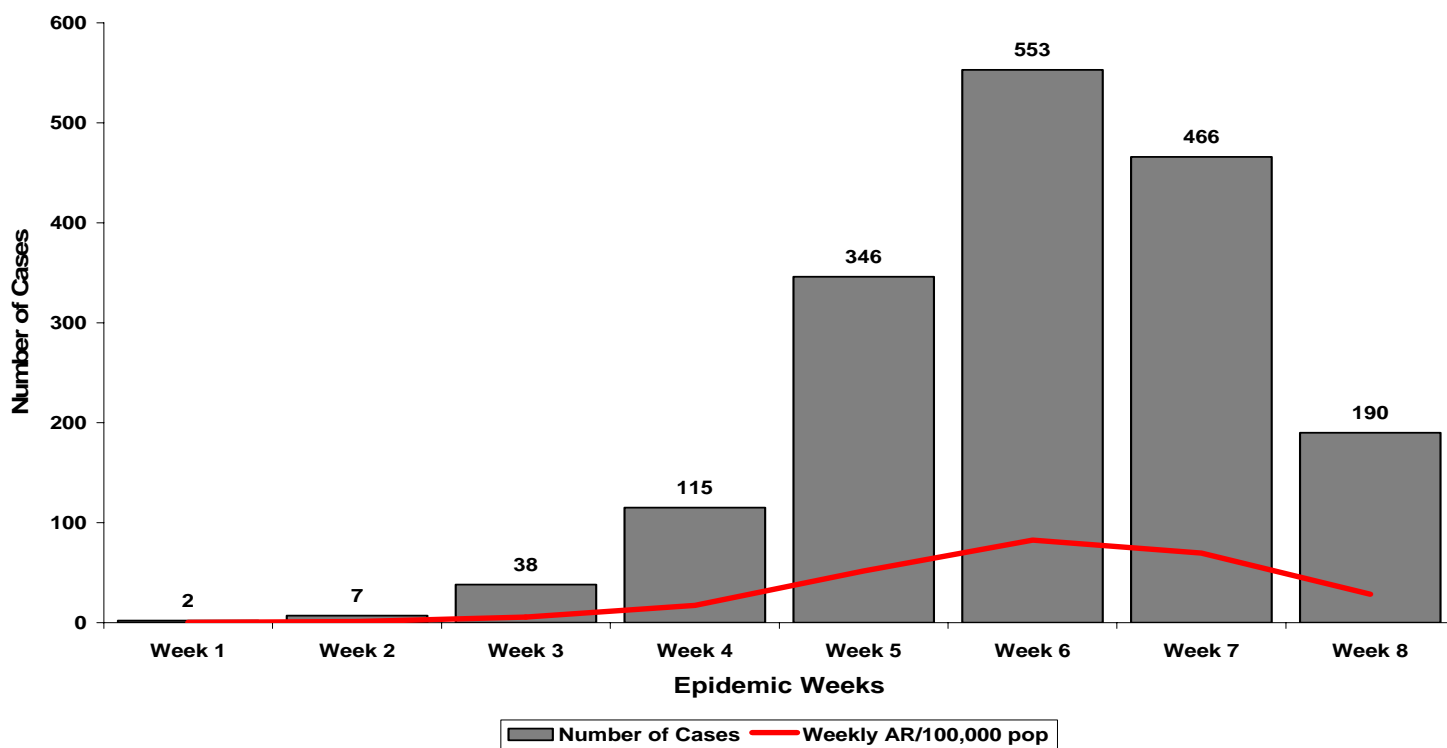
(Arua/Maracha-Terego line list update as of 23<sup>rd</sup> February was not ready; these are figures of 19<sup>th</sup> February 2007)

The meningitis epidemic has significantly reduced in Arua/ Maracha-Terego districts. The cumulative number of new cases registered in the last 1 week [12 – 18 Feb] was 256 compared to 558 cases the previous week [5 – 11 Feb], a 54% reduction in new cases. A cumulative of 1,744 cases has been registered in 8 weeks since the first cases were reported on 28 December 2006; with 51 deaths, giving a CFR of 2.9% - signifying good case management and early referral to treatment centres. The epi curve below demonstrates a significant decline in the number of cases since mass meningitis vaccination campaign was initiated on 3 February [see figure below].



The reduction in the number of cases is equally demonstrated in the weekly cumulative and AR figure below.

### Weekly Cumulative Cases and AR in Arua/ Maracha-Terego, Feb 07



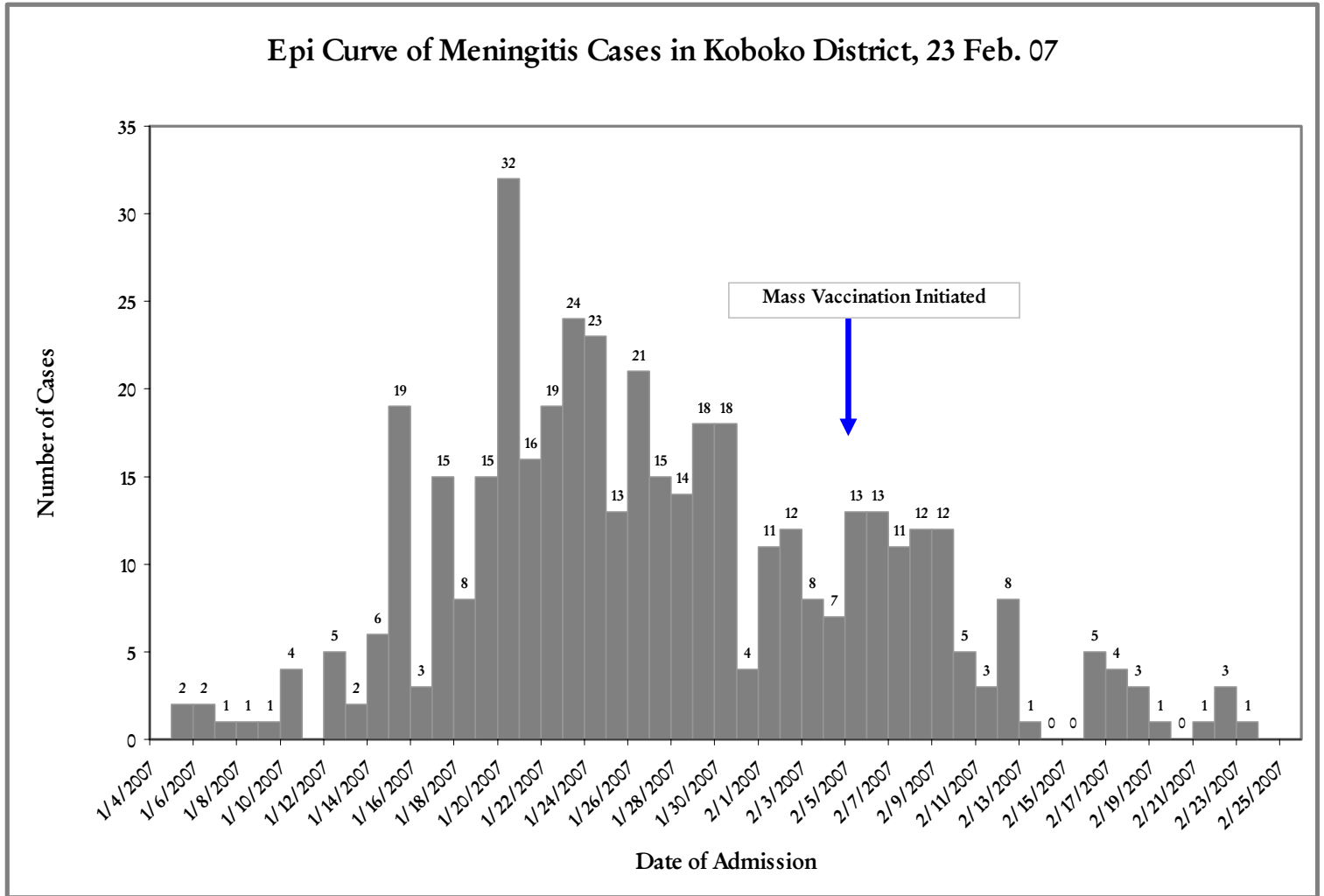
The weekly AR of the sub-counties affected is shown in the table below.

Sub-county	Total Population	Weekly Attack Rate/ 100,000 population								Cumulative AR/ 100,000
		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	
Omugo	35,074	-	6	17	145	311	425	271	74	1,249
Yivu	22,077	-	-	5	59	145	403	231	118	960
Aiivu	33,064	-	-	21	30	227	233	169	76	756
Oleba	25,646	-	-	-	31	121	105	226	43	526
Katrini	31,101	-	-	-	3	45	103	113	106	370
Odupi	49,727	4	6	42	36	58	99	54	28	324
Nyadri	24,113	-	-	4	-	54	95	100	54	307
Beleafe	16,298	-	12	-	-	37	117	55	-	221
Kijomoro	31,292	-	-	-	3	6	74	99	35	217
Tara	17,584	-	-	-	17	28	80	51	40	216
Oluffe	19,128	-	-	-	5	31	47	63	21	167
Uriama	21,600	-	-	-	9	37	32	79	-	157
Rhino Camp	17,728	-	-	-	-	23	23	6	51	102
Rigbo	32,251	-	-	6	22	22	19	9	3	81
Arua Hill [Municipality]	17,162	-	-	-	-	6	29	35	-	70
Oli River [Municipality]	33,848	-	-	-	-	3	21	32	6	62
Oluvu	27,576	-	-	-	-	7	11	11	7	36
Manibe	26,177	-	-	-	-	-	4	19	8	31
Pajulu	38,992	-	-	-	-	3	10	10	3	26
Dadamu	28,734	-	-	-	-	-	7	10	3	21

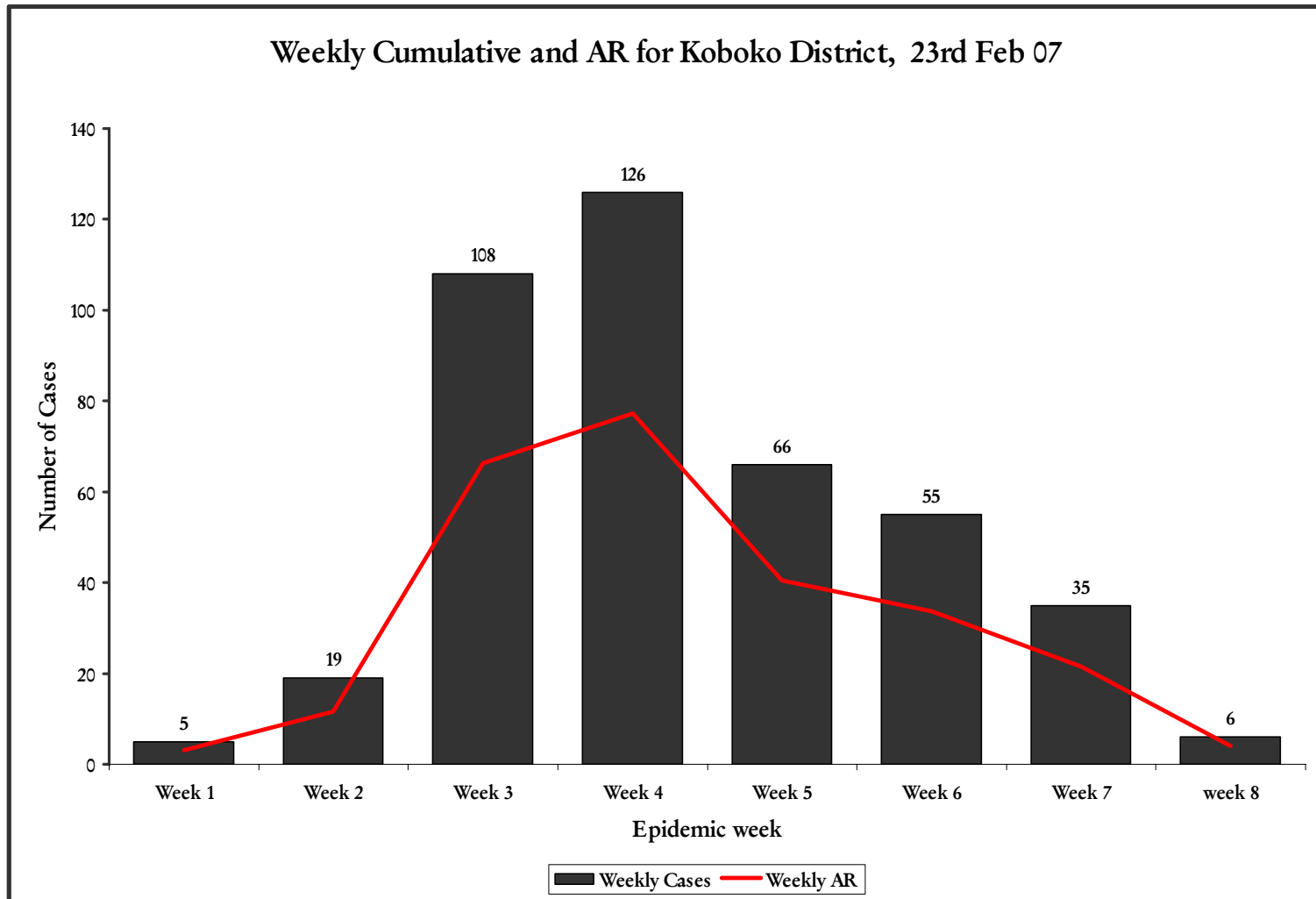
Aroi	21,365	-	-	-	-	-	9	5	-	14
Oluko	31,549	-	-	-	-	-	3	3	6	13
Adumi	45,878	-	-	-	-	-	4	7	-	11
Ajia	21,789	-	-	-	-	-	-	5	-	5
<b>Total</b>	<b>669,753</b>									<b>256</b>

## 2. KOBOKO DISTRICT

The meningitis epidemic in Koboko district is tending to its end as shown in the epi-curve below. There has been a steady decline in the number of new cases (only 6 cases over the last 5 days). A cumulative number of 437 cases with 21 deaths have been registered, giving a CFR of 4.8%.



The weekly cumulative cases and AR are shown in the figure below:

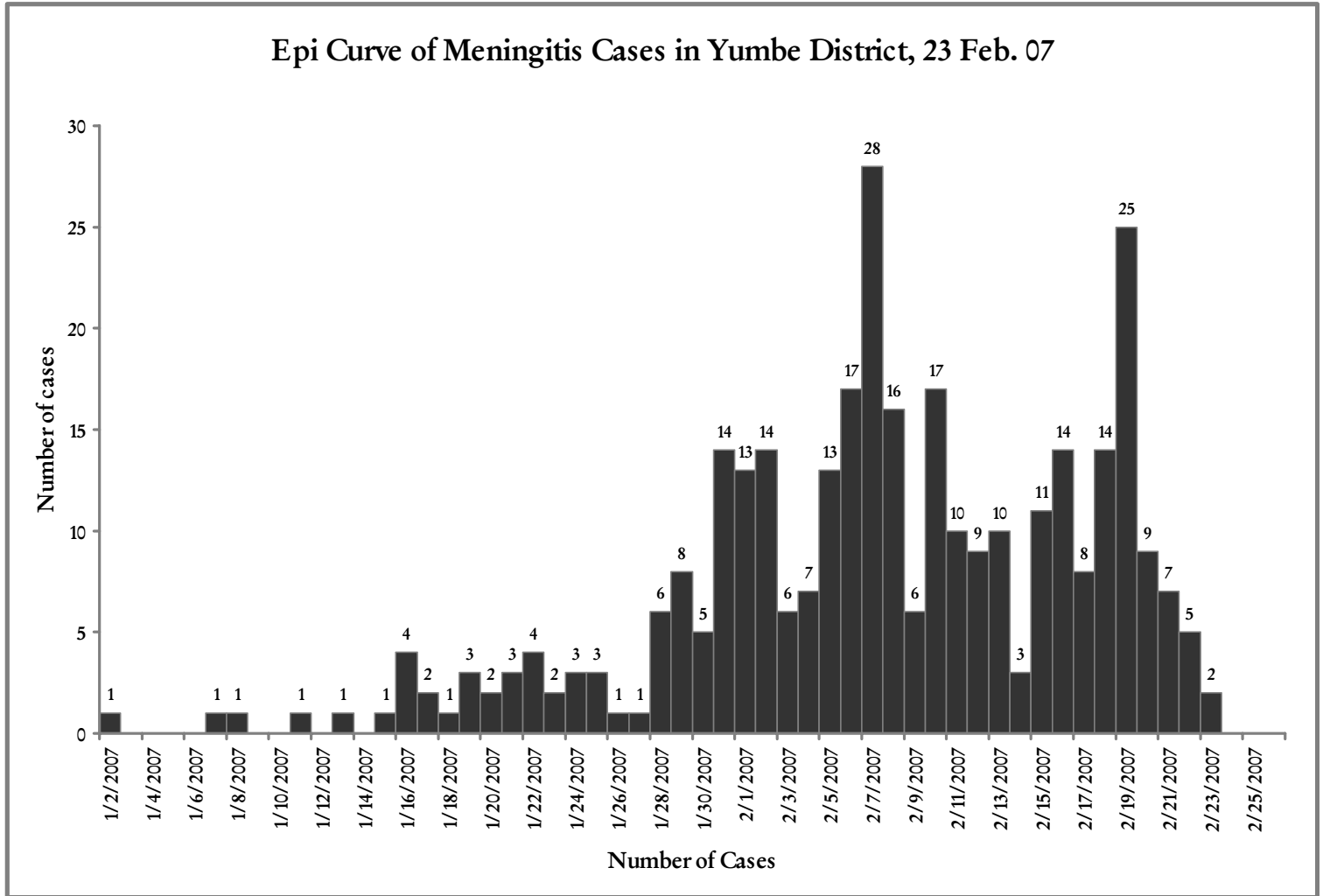


**Weekly AR and Cumulative by Sub-county in Koboko District**

Sub-county	Total Population	Weekly AR/ 100,000 Population								Cumulative AR/ 100,000 pop
		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	
Midia	35,094	3	26	131	142	68	66	66	8.55	510
Koboko Town Council	36,698	5	8	114	101	38	60	30	5.45	362
Lobule	44,655	4	16	31	49	38	4	2	2.24	148
Kuluba	23,034	-	-	22	61	35	9	-	-	126
Ludara	23,520	-	-	4	13	13	26	-	-	55
<b>Total</b>	<b>163,001</b>	<b>3</b>	<b>12</b>	<b>66</b>	<b>77</b>	<b>40</b>	<b>34</b>	<b>21</b>	<b>3.68</b>	<b>258</b>

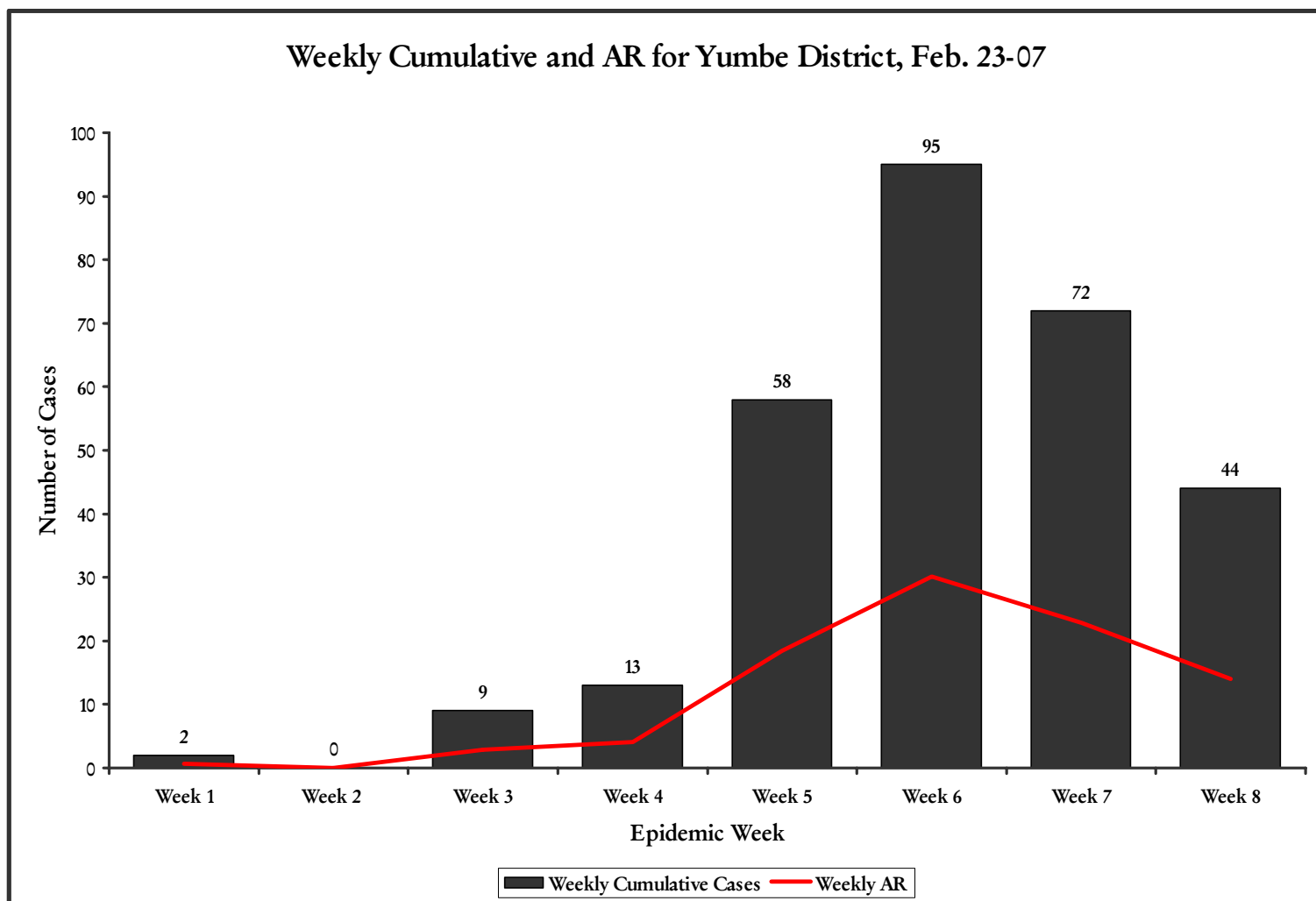
### 3. YUMBE DISTRICT

The meningitis epidemic in Yumbe district continued to show a moderate decline in the last 5 days as indicated in the epi-curve below. A cumulative number of 333 cases with 15 deaths [CFR 4.8%] have been registered, since the start of the epidemic (16 January 2007).



There was a significant reduction in the number of cases registered in the last 5 days as shown in the figure below:

Weekly Cumulative and AR for Yumbe District, Feb. 23-07



The weekly and cumulative AR by sub-county is shown in the table below:

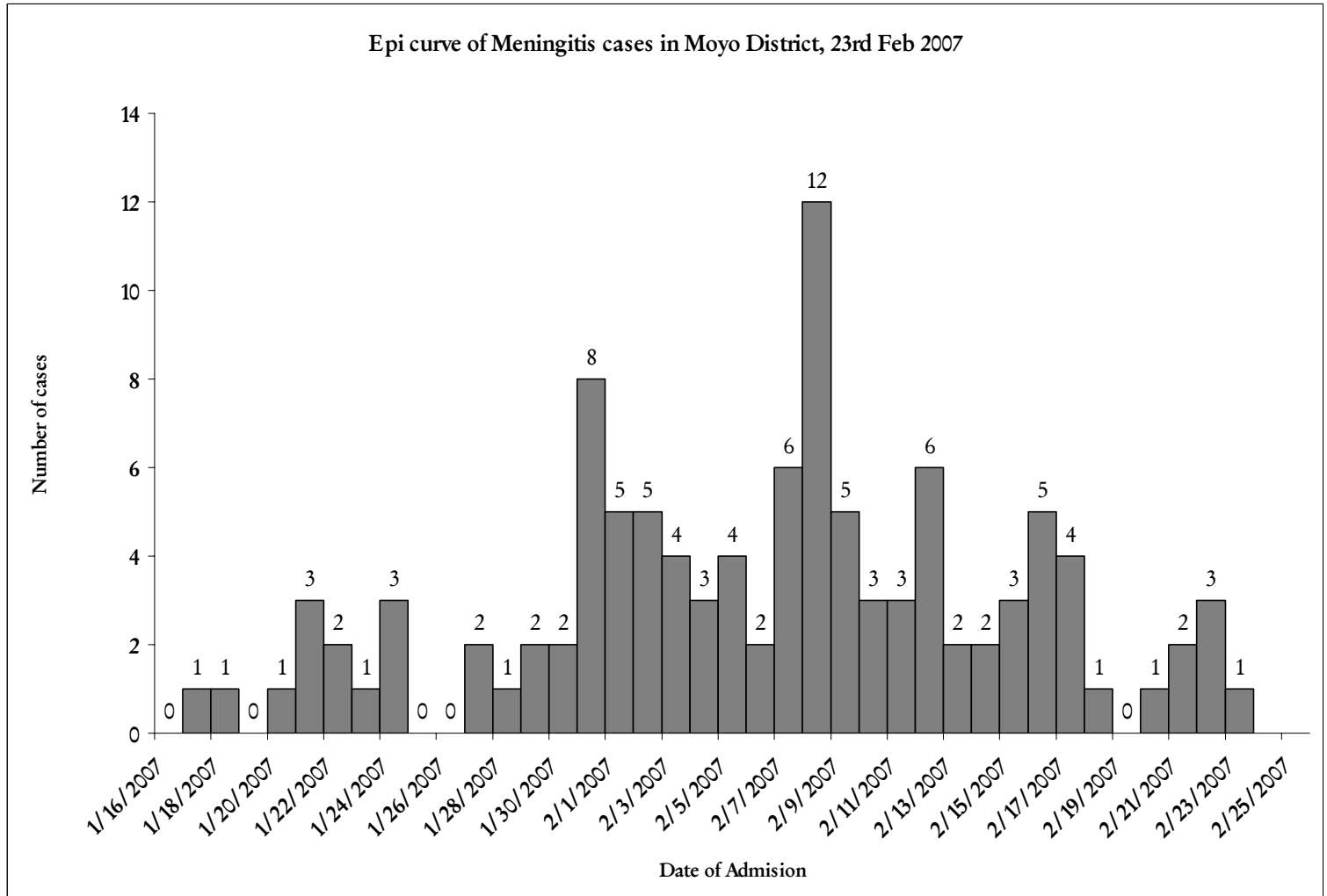
Weekly & Cumulative AR by sub-county in Yumbe District

Sub-County	Population	Weekly AR/ 100,000 population								Cumulative AR/ 100,000 population
		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8*	
Odravo	47,679	2	-	4	10	38	90	42	25	212
Drajini	40,767	-	-	-	5	34	69	32	24	164
Kei	30,004	-	-	3	7	30	7	10	10	67
Kuru	49,838	-	-	4	2	14	8	-	6	34
Apo	31,510	-	-	3	-	6	3	16	9	38
Yumbe Town Council	19,305	-	-	5	5	5	21	41	15	93
Romogi	47,985	2	-	-	-	6	-	4	-	13
Midigo	47,985	-	-	4	4	8	27	44	25	104
<b>Total</b>	<b>315,073</b>	<b>1</b>	<b>-</b>	<b>3</b>	<b>4</b>	<b>18</b>	<b>30.15</b>	<b>22.85</b>		<b>93</b>

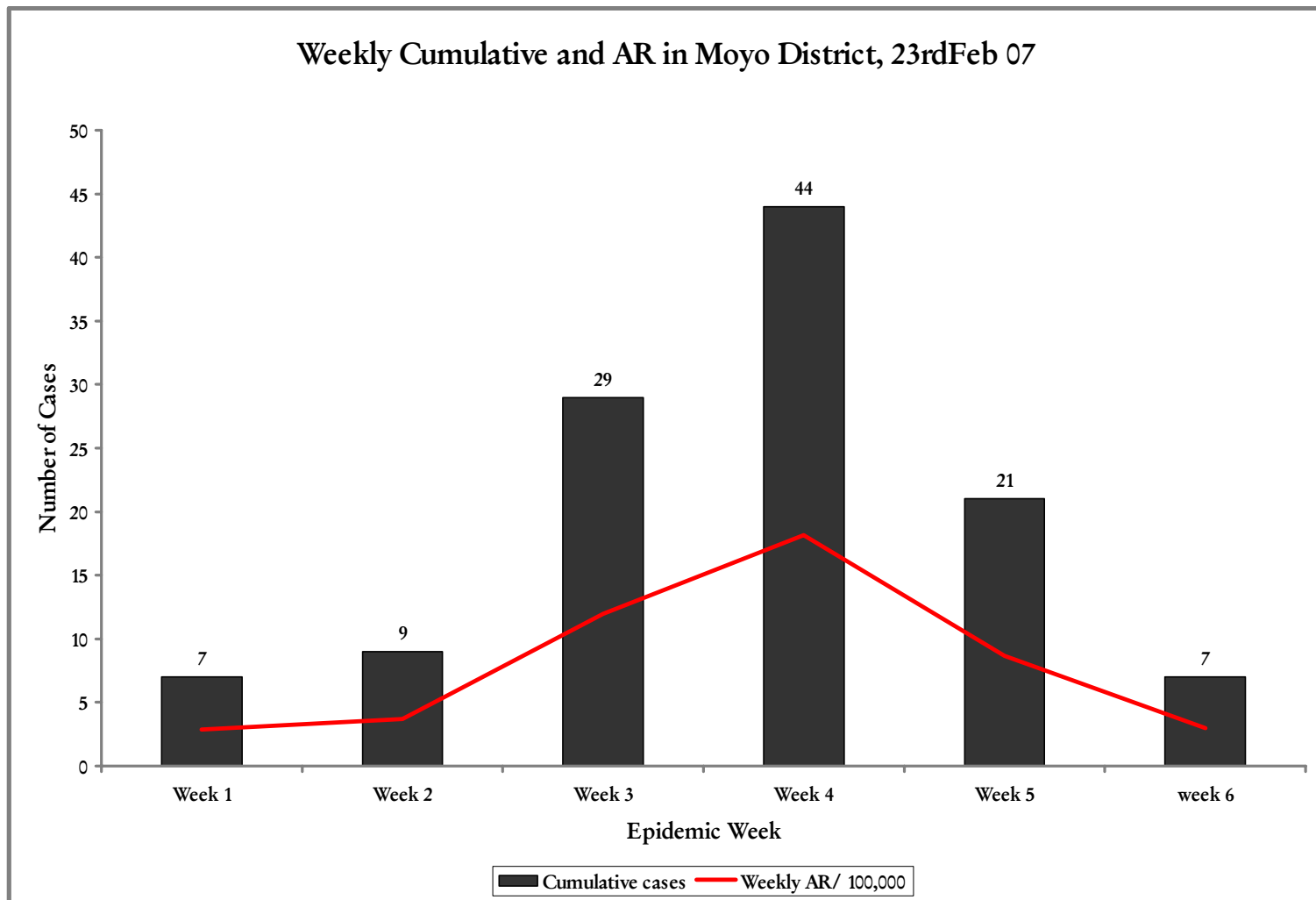
NB: 31 cases originated from Maracha-Terego district; 9 from Koboko and 8 from Moyo  
 Week\* data available up to 23<sup>rd</sup> February 2007

#### 4. MOYO DISTRICT

The meningitis epidemic in Moyo district is steadily declining as demonstrated by the epi- curve below. A cumulative of 117 cases and 6 deaths have been registered, giving a CFR of 5.1%.



The declining trend is also depicted in the weekly cumulative cases and AR figure below:



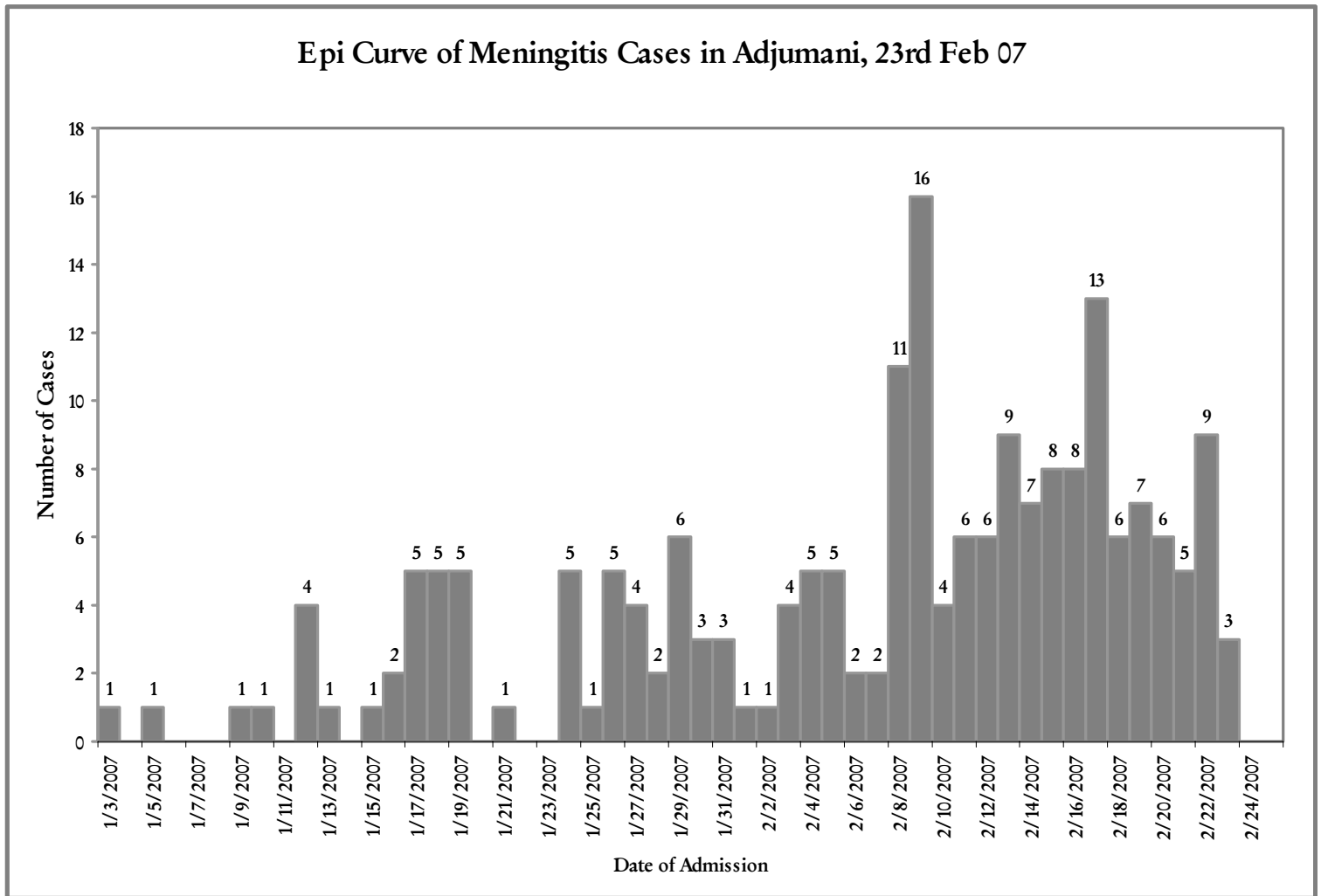
The Weekly AR by sub-county is shown in the table below:

**Weekly & Cumulative AR by Sub-county in Moyo District**

Sub-county	Total Population	Weekly AR/ 100,000					Cumulative AR/ 100,000	
		Week 1	Week 2	Week 3	Week 4	Week 5		
Gimara	31,358	-	-	16	83	29	10	137
Aliba	32,049	3	3	53	16	12	0	87
Lefori	23,510	4	-	9	21	13	4	51
Itula	53,472	7	11	7	15	7	4	52
Dufile	26,713	-	4	-	-	4	0	7
Metu	34,907	3	3	-	-	-	3	9
Moyo	40,606	-	-	2	-	0	0	2
<b>Total</b>	<b>242,615</b>	<b>3</b>	<b>4</b>	<b>12</b>	<b>18</b>	<b>9</b>	<b>3</b>	<b>45</b>

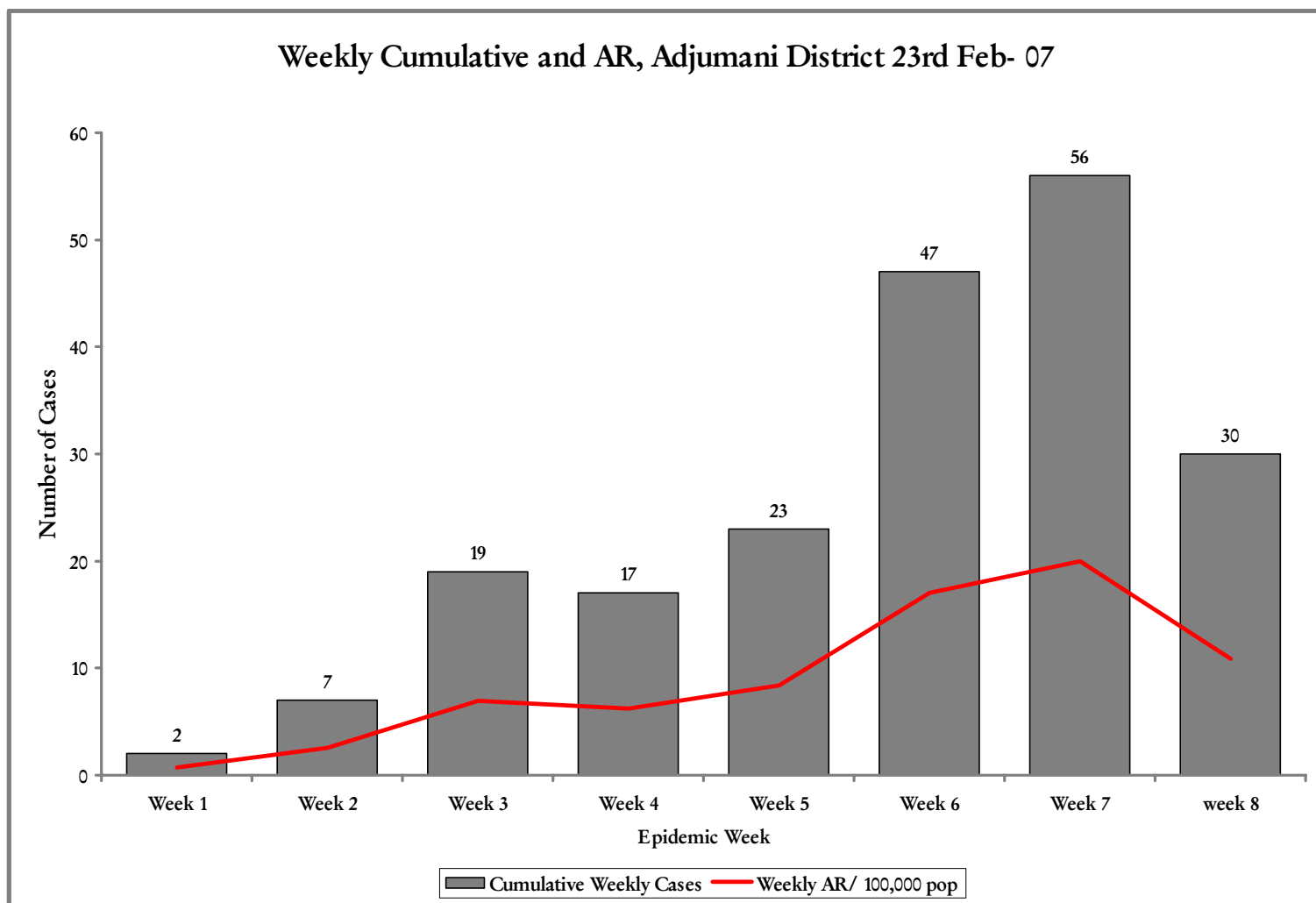
## 5. ADJUMANI DISTRICT

The meningitis epidemic in Adjumani district has shown a moderate decline over the last five days as shown in the epi-curve below. A cumulative number of 206 cases with 8 deaths [CFR 3.9%] have been registered.



The weekly cumulative cases and AR figure below further demonstrates the reduction in the trend of the epidemic.

Weekly Cumulative and AR, Adjumani District 23rd Feb- 07



Ciforo sub-county that has refugee settlements remains the worse affected.

Weekly & Cumulative AR by sub-county in Adjumani

Sub-county	Population	Weekly AR/ 100,000 population								Cumulative AR/ 100,000 population
		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	
Ciforo	57,071	-	11	25	26	33	56	58	31.54	240
Adjumani Town Council	27,332	-	4	4	4	7	15	26	3.66	62
Adropi	59,073	-	-	3	-	-	2	2	3.61	14
Dzaipi	37,641	-	-	-	-	5	14	17	1.69	36
Ofua	55,424	2	-	4	2	-	3	5	10.63	24
Pakele	37,403	3	-	-	-	-	3	8	10.69	24
<b>Total</b>	<b>273,944</b>	<b>1</b>	<b>3</b>	<b>7</b>	<b>6</b>	<b>8</b>	<b>17</b>	<b>20</b>	<b>11</b>	<b>73</b>

## 6. NEBBI DISTRICT

The situation in Nebbi district has largely remained stable with the number of suspected meningitis cases registered standing at 7 with 2 deaths in 2 weeks [CFR 28.6%].

### **Conclusion:**

The trend of the meningitis epidemic in the West Nile sub-region is generally declining. With the mass vaccination completed in Arua/ Maracha-Terego and Koboko districts' and beginning on the 26<sup>th</sup> February 2007 in Yumbe, Moyo and Adjumani districts', the epidemic should be curtailed soon.

Reported by:

Dr. Ongom Moses

WHO Field-based Officer

Arua

25 February 2007