



Ministry of Health Uganda

Weekly Epidemiological Bulletin

Highlights:

Epidemiological week 28 of 2015 [5th July – 11th July 2015]

- Two cholera cases in Arua District and four deaths from South Sudan
- Focus on AFP surveillance

Summary Table

Indicator	Week 27 2015	Week 28 2015
% Districts	99	99
Ave % HU	68	71
% Timely reports	78	79
AFP	3(0)	2(0)
Rabies	372(0)	362(1)
Cholera	10(0)	4(0)
Dysentery	984(0)	898(0)
Guinea Worm	3(0)	0
Malaria	252738 (67)	249130 (95)
Measles	199(0)	165(0)
Meningitis	35(2)	11(0)
NNT	4(1)	1(0)
Plague	0	0
Typhoid	2245(6)	2600(0)

Completeness of Reporting

Only one district (Pader) did not report in week 28. The average reporting rate for health facilities in the country improved from 68% in week 27 to 71% in week 28. The number of districts that achieved the set target of reporting improved from 32% (n=36) to 39% (n=44). Districts that achieved 100%, 80-99% and <80% reporting are highlighted in yellow, green and red respectively. There has been significant improvement in reporting rates (average 82%) in 34 districts that have been trained in IDSR.

Timeliness

Timely reporting from health facilities in the country was 79%, similar to that of week 27.

Disease Outbreaks

Cholera: Since 10th July, there were no new cases admitted in Katwe-Kabatoro or Bwera cholera treatment centres in Kasese district. Kinyabwambwa CTC was closed by end of June. However three cases were reported from Kasese district in week 28. A fourth case reported from Luwero district has been confirmed to be a data entry error. There have been two reported cases of cholera in Arua among people returning from South Sudan. The district has started active case search, opened a treatment centre in the Regional Referral Hospital and activated the District

Task Force. From 10-18th July, 4 deaths of Ugandans due to cholera were reported in South Sudan, but the burials were conducted in Uganda. Efforts have been made to get updates on both outbreaks.

Measles: There was a slight reduction in the number of reported suspected measles cases from 199 in week 27 to 165 cases in week 28. Three districts reported high number of cases i.e. Wakiso (15) followed by Kamwenge (14), where there is a confirmed measles outbreak and Rukungiri (14). Investigations show that the confirmed outbreak in Kamwenge is localized in three sub-counties, namely: Biguri, Nkoma and Rwizi (**Figure 1 and Table 1**).

Rubella: These cases clinically present like measles and affect the same age groups; therefore the observed numbers reported as measles include Rubella. For example, the laboratory analysis shows that there are more cases of Rubella among the samples submitted for investigation of suspected measles (**Figure 2**). The country is discussing options including introduction of MMR vaccine rather than the current monovalent measles vaccine.

Typhoid fever: The number of reported suspected cases increased from 2245 in week 27 to 2600 in week 28. Kampala district reported the highest number of cases (350), although this was less compared to week 27 when it reported 421 cases. There were no reported deaths attributed to typhoid fever.

Other priority diseases

AFP: Two cases were reported in Kapchorwa and Gulu districts.

Special Focus on AFP Surveillance: About 1/100,000 population of children 0-14 years was targeted for surveillance. To increase the surveillance sensitivity, the target rate was doubled in 2005 to 2/100,000 population under 15 years and in 2011, doubled to 4/100,000 population.

It is then anticipated that if a district can find 4 AFP cases per 100,000 population of children 0-14 years, then it would find Wild Polio virus infections if they occurred. The districts that met this surveillance target last year were more than 90% but <20% of the districts have attained the target by the first half of 2015.

AFP Performance Indicators by Week 27

Non-Polio AFP rate of 1.60 was achieved

95 out of 112 (84.8%) districts have reported at least one AFP case this year while 17 out of 112 (15.2%) districts are still silent.

13 out of 112 (11.6%) districts have attained the new rate of $\geq 4/100000$ children 0 - 14 years.

41 out of 112 (36.6%) have attained a non-polio AFP rate of $\geq 2/100,000$ children 0 - 14 years.

Stool adequacy is at 86.2%.

NPENT rate is 13.3% above the target of 10%.

Rabies: The number of animal bites as a proxy of rabies slightly reduced from 372 in week 27 to 362 in week 28. One death due to rabies was reported by Yumbe district. The district has been informed to investigate this report.

Dysentery: The number of reported dysentery cases reduced from 984 in week 27 to 898 in week 28. The suspected cases reported are based on clinical presentation. There is general lack of laboratory diagnostic capacity to confirm if these cases are due to *Shigella*, which would lead to outbreaks.

Meningitis: Meningitis cases reduced from 35 in week 27 to 11 in week 28; reported in Kampala, Gulu, Hoima and Amuria which are outside the meningococcal meningitis belt. There was no death attributed to meningitis.

Malaria: The outbreak in the Acholi and Lango regions is still ongoing (**Figure 3**). **Figure 4** is a map showing the incidence of Malaria in week 28. Mucwini sub-county in Kitgum district reported had the highest incidence of malaria. In Agago and Kitgum districts, the proportion of health facilities with complete stock out of ACTs was 78% and 50% respectively.

Maternal deaths: Seventeen maternal deaths were reported 11 districts. However, the 5 deaths reported from Busembatia HC III (Iganga district) has been confirmed to be a data entry error.

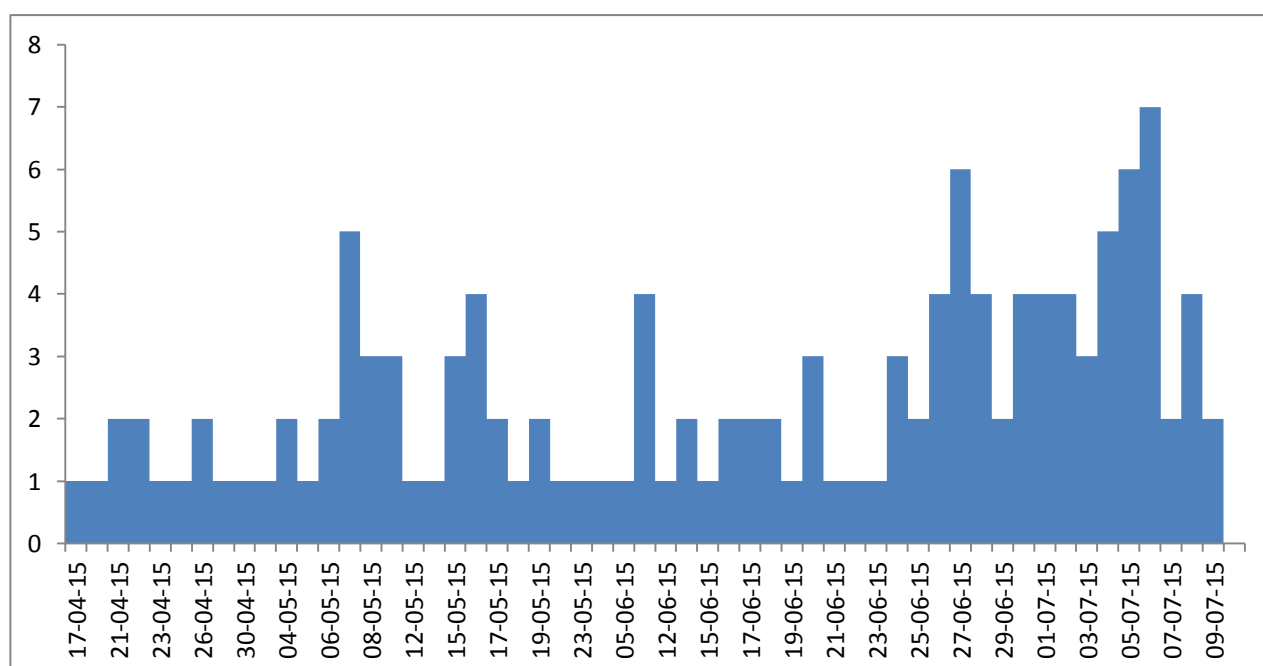


Figure 1: Attack rates of measles in Kamwenge district, April to July 2015

Table 1: Attack rates of measles by sub-county in Kamwenge district

Sub-county	Frequency	Population(2013)	AR/1000 population
Biguri	85	34,560	2.5
Nkoma	43	32,811	1.3
Bwizi	7	30,482	0.2

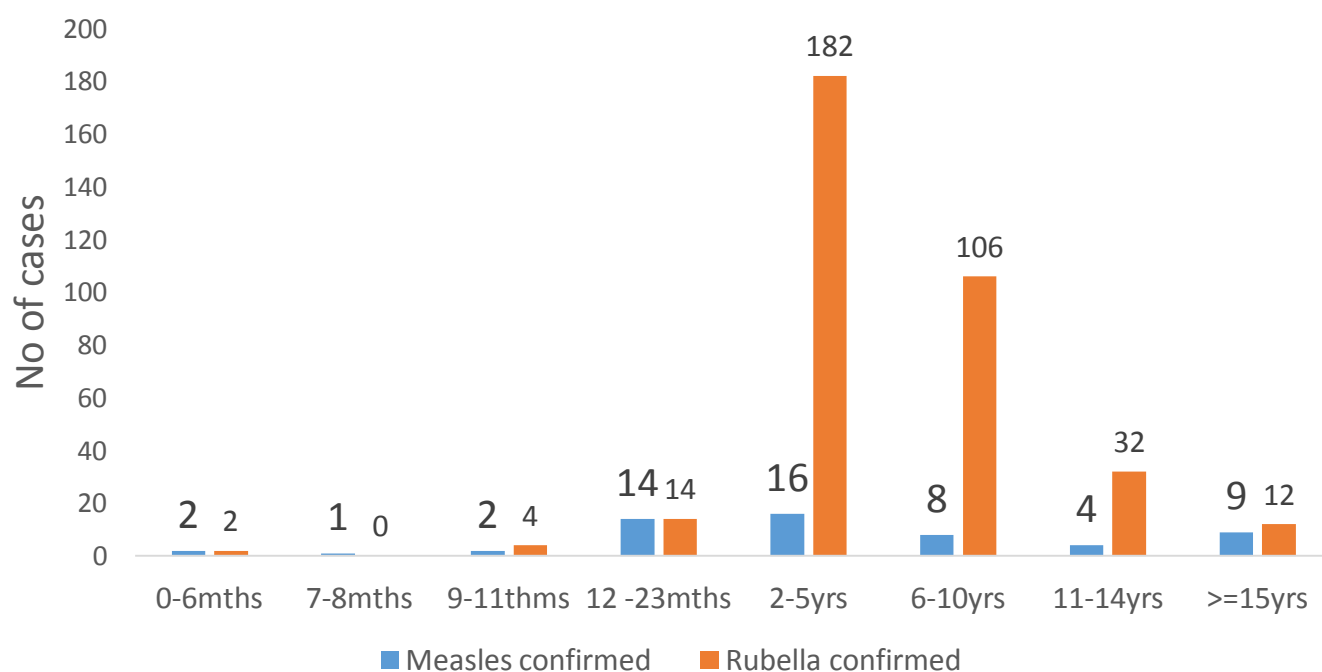


Figure 2: Age category of laboratory confirmed measles and rubella cases, 2015

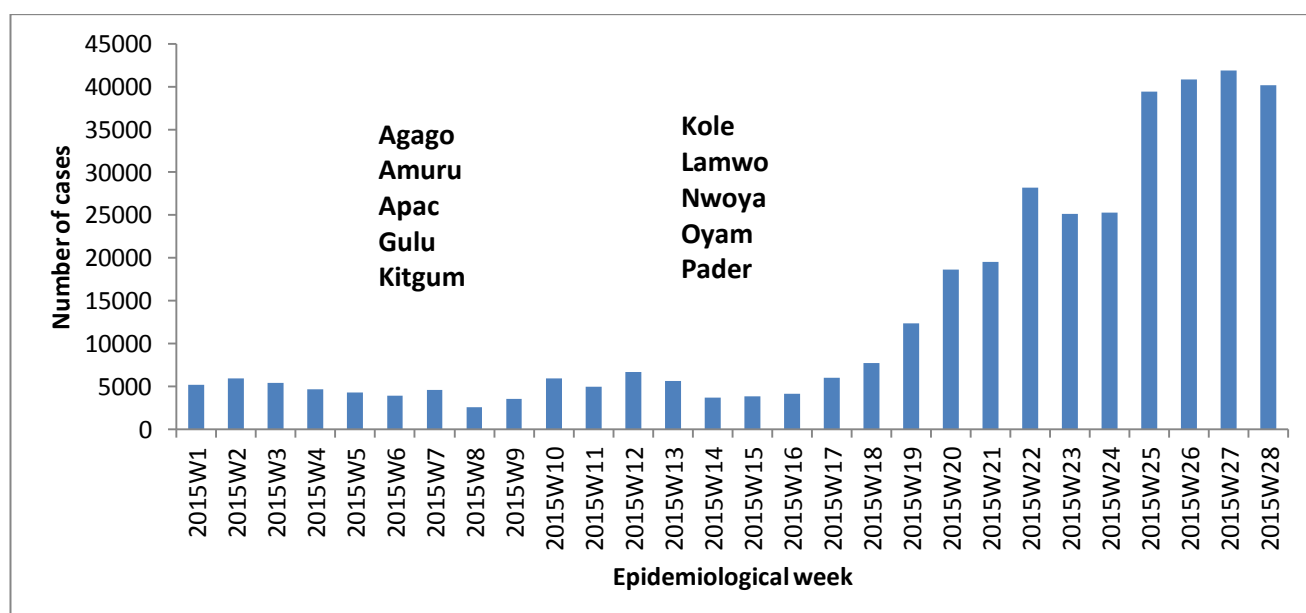
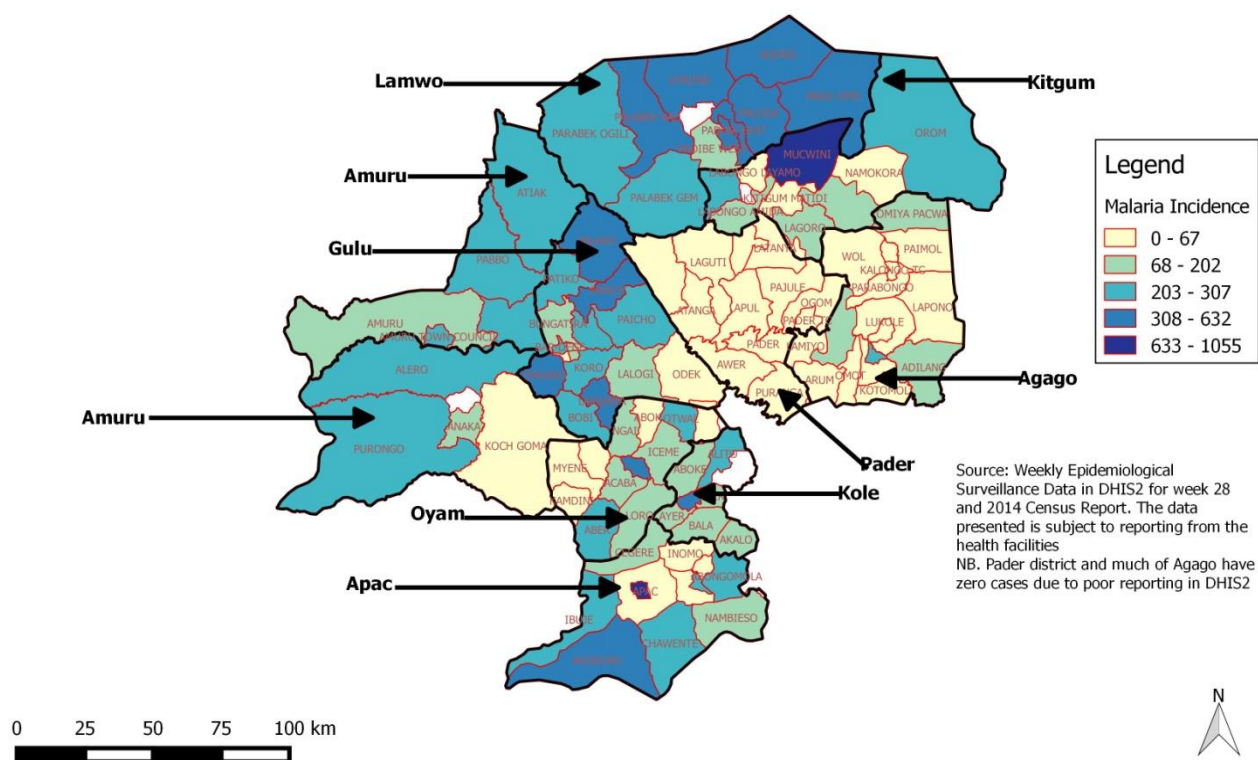


Figure 3: Malaria cases by epidemiological week; 2014-2015 (source: DHIS-2).

Fig. 3: Incidence of malaria per 10,000 popn adjusted by reporting rates in the subcounties of the affected districts, wk 28



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Summary table for epidemiological reports received for week ending 11th July 2015

(Numbers in brackets indicate deaths)

District	% of H/U reporting	AFP	Animal bite (Suspected Rabies)	Cholera	Dysentery	Guinea Worm	Malaria	Measles	Meningitis	NNT	Plague	Typhoid Fever
Abim	75	0	0	0	9	0	1222	0	0	0	0	1
Adjumani	83	0	3	0	31	0	3823(4)	0	0	0	0	0
Agago	76	0	2	0	35	0	3377(1)	0	0	0	0	9
Alebtong	47	0	1	0	5	0	1423	0	0	0	0	4
Amolatar	92	0	0	0	1	0	1172	0	0	0	0	3
Amudat	88	0	0	0	5	0	254(1)	0	0	0	0	14
Amuria	77	0	6	0	3	0	4131	1	2	0	0	1
Amuru	78	0	1	0	19	0	4202	0	0	0	0	0
Apac	61	0	1	0	0	0	5429	0	0	0	0	0
Arua	81	0	9	0	37	0	7126(2)	4	1	0	0	84
Budaka	79	0	3	0	6	0	969	0	0	0	0	26
Bududa	93	0	1	0	4	0	1152	0	0	0	0	7
Bugiri	58	0	3	0	8	0	3051	0	0	0	0	47
Buhweju	73	0	0	0	0	0	231	0	0	0	0	0
Buike	87	0	8	0	9	0	3153(2)	4	0	0	0	81
Bukedea	12	0	0	0	2	0	144	0	0	0	0	0
Bukomansimbi	82	0	0	0	1	0	904	0	0	0	0	0
Bukwo	100	0	9	0	41	0	670	0	0	0	0	31
Bulambuli	84	0	0	0	0	0	920	0	0	0	0	0
Buliisa	73	0	1	0	3	0	738	0	0	0	0	8
Bundibugyo	77	0	3	0	13	0	2544	0	0	0	0	23
Bushenyi	58	0	6	0	0	0	1042	1	0	0	0	42
Busia	90	0	2	0	12	0	3426	1	0	0	0	14
Butaleja	92	0	3	0	10	0	1776(4)	0	0	0	0	8
Butambala	87	0	3	0	2	0	1613	0	0	0	0	29
Buvuma	36	0	0	0	1	0	201	5	0	0	0	0
Buyende	86	0	0	0	1	0	1421	0	0	0	0	0
Dokolo	100	0	4	0	10	0	2289(1)	0	0	0	0	5
Gomba	90	0	1	0	1	0	1610	0	0	0	0	2
Gulu	72	0	4	0	33	0	10480(4)	0	3	0	0	56
Hoima	64	0	8	0	45	0	5509(3)	2	1	2(1)	0	82
Ibanda	49	0	2	0	0	0	1719	1	0	0	0	1
Iganga	59	0	1	0	0	0	3329	0	0	0	0	6
Isingiro	77	0	2	0	7(1)	0	3884(2)	0	0	0	0	54
Jinja	43	0	5	0	6	0	2658(4)	0	0	0	0	12
Kaabong	82	0	12	0	38	0	3846	1	0	0	0	26
Kabale	90	0	5	0	0	0	427	0	0	0	0	0
Kabarole	78	0	10	0	7	0	3654(2)	4	0	0	0	18
Kaberaido	52	0	1	0	4	0	1997	0	0	0	0	18
Kalangala	63	0	1	0	14	0	212	4	0	0	0	0
Kaliro	57	0	0	0	1	0	1000	0	0	0	0	14
Kalungu	44	0	0	0	2	0	1078	5	0	0	0	1
Kampala	63	1	37	0	27	3	3086	59	3	0	0	421
Kamuli	69	0	4	0	1	0	3550(1)	1	0	0	0	7
Kamwenge	88	0	1	0	6	0	4433	16	0	0	0	14
Kanungu	50	0	0	0	6	0	690	1	0	0	0	31
Kapchorwa	95	0	2	0	18	0	965	0	0	0	0	2

District	% of H/U reporting	AFP	Animal bite (Suspected Rabies)	Cholera	Dysentery	Guinea Worm	Malaria	Measles	Meningitis	NNT	Plague	Typhoid Fever
Kasese	69	0	3	10	8	0	4940(24)	2	0	0	0	26
Katakwi	44	0	0	0	3	0	1871	0	0	0	0	0
Kayunga	76	0	7	0	23	0	2870	1	0	0	0	2
Kibaale	67	0	10	0	57	0	2003(1)	1	0	0	0	96 (3)
Kiboga	71	0	0	0	0	0	861	0	0	0	0	1
Kibuku	87	0	1	0	10	0	692	0	0	0	0	0
Kiruhura	66	0	3	0	0	0	2238	2	0	0	0	1
Kiryandongo	77	1	0	0	8	0	2581	0	0	0	0	17
Kisoro	90	0	8	0	2	0	243(14)	1	0	0	0	4
Kitgum	52	0	7	0	17	0	2606	0	0	0	0	10
Koboko	94	0	3	0	1	0	2760	3	0	0	0	0
Kole	92	0	2	0	1	0	3453	0	0	0	0	0
Kotido	47	0	0	0	38	0	1565	0	0	0	0	59
Kumi	46	0	1	0	9	0	2017	0	0	0	0	27
Kween	83	0	1	0	3	0	399	0	0	0	0	3
Kyankwanzi	79	0	1	0	0	0	1532	0	0	0	0	17
Kyegegwa	87	0	0	0	1	0	1546(1)	2	0	0	0	2
Kyenjojo	85	0	6	0	8	0	2762	9	0	0	0	15
Lamwo	100	0	0	0	0	0	5955	0	0	0	0	0
Lira	47	0	1	0	5	0	2545	0	0	0	0	42
Luuka	52	0	0	0	0	0	739	0	0	0	0	0
Luwero	66	0	4	0	15	0	3247	10	0	0	0	76 (2)
Lwengo	32	0	0	0	2	0	766(1)	1	0	0	0	4
Lyantonde	29	0	0	0	0	0	952	0	0	0	0	17
Manafwa	92	0	1	0	3	0	2887	0	0	0	0	38
Maracha	100	0	4	0	14	0	3297(1)	0	0	1	0	29 (1)
Masaka	74	0	2	0	1	0	1938(1)	2	0	0	0	14
Masindi	78	0	16	0	10	0	2072	1	0	0	0	10
Mayuge	43	0	1	0	4	0	1013	3	0	0	0	0
Mbale	96	0	4	0	2	0	2269	0	0	0	0	15
Mbarara	95	0	5	0	8	0	1830	4	0	0	0	42
Mitooma	83	0	0	0	0	0	1399	0	0	0	0	0
Mityana	53	0	8	0	2	0	3165	7	0	0	0	1
Moroto	57	0	3	0	8	0	1000(1)	2	0	0	0	11
Moyo	98	0	5	0	18	0	4629(1)	0	0	0	0	40
Mpigi	82	0	1	0	2	0	1636	1	0	0	0	31
Mubende	19	0	6	0	5	0	1325(1)	7	0	0	0	17
Mukono	46	0	1	0	13	0	1627	6	0	0	0	7
Nakapiripirit	94	0	3	0	15	0	2098	0	0	0	0	21
Nakaseke	46	0	7	0	3	0	953	7	0	0	0	65
Nakasongola	36	0	3	0	4	0	1449	2	0	0	0	5
Namayingo	22	0	0	0	7	0	1321	0	0	1	0	2
Namutumba	68	0	0	0	0	0	1654	0	0	0	0	0
Napak	79	0	4	0	18	0	1293	0	0	0	0	1
Nebbi	79	0	13	0	58	0	4126(5)	0	0	0	0	19

District	% of H/U reporting	AFP	Animal bite (Suspected Rabies)	Cholera	Dysentery	Guinea Worm	Malaria	Measles	Meningitis	NNT	Plague	Typhoid Fever
Ngora	67	0	1	0	1	0	1199	0	0	0	0	0
Ntoroko	78	0	0	0	1	0	348	1	0	0	0	2
Ntungamo	48	0	4	0	3	0	609(1)	0	0	0	0	3
Nwoya	95	0	1	0	0	0	2005(1)	0	0	0	0	0
Otuke	85	0	1	0	0	0	1188(1)	0	0	0	0	5
Oyam	82	0	5	0	5	0	4343(1)	0	0	0	0	6
Pader	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Pallisa	91	0	4	0	8	0	2411(2)	0	0	0	0	9
Rakai	26	0	0	0	3	0	2629	4	0	0	0	15
Rubirizi	88	0	0	0	1	0	1007(1)	0	0	0	0	13
Rukungiri	58	0	12	0	1	0	1483	3	0	0	0	3
Sembabule	71	0	2	0	6	0	2012	0	0	0	0	87
Serere	59	0	3	0	5	0	1159	0	0	0	0	0
Sheema	77	0	8	0	0	0	1355	0	0	0	0	0
Sironko	90	0	0	0	3	0	2327	0	0	0	0	0
Soroti	84	0	6	0	19	0	4318(2)	0	0	0	0	33
Tororo	74	1	7	0	3	0	4500	0	0	0	0	18
Wakiso	54	0	3	0	10	0	4542	7	0	0	0	51
Yumbe	96	0	1	0	13	0	3574(3)	0	0	0	0	9
Zombo	100	0	4	0	12	0	1467	0	0	0	0	2
National	71	3(0)	362(1)	4 (0)	898 (0)	0	249130 (95)	165 (0)	11 (0)	1(0)	0(0)	2600 (0)

HU= Health Units, AFP=Acute Flaccid Paralysis, NNT=Neonatal Tetanus; NR=Not Reported

Key (colour): Yellow: 100% reporting, Green: 80-99% reporting, Red: Below 80% reporting

Compiled by the Epidemiological Surveillance Division, Ministry of Health