

**Summary Table**



|  |  |  |
| --- | --- | --- |
| **Indicator** | **Week 16**  **2015** | **Week**  **17 2015** |
| % Districts | 100 | 100 |
| Ave % HU | 56 | 61 |
| % Timely reports | 81 | 76 |
| AFP | 13(0) | 5(0) |
| Rabies | 389(0) | 434(1) |
| Cholera | 6(0) | 14(0) |
| Dysentery | 1005(0) | 1174(0) |
| Guinea  Worm | 0(0) | 2(0) |
| Malaria | 107028  (40) | 132767  (42) |
| Measles | 253(0) | 270 (1) |
| Meningitis | 4(0) | 3(0) |
| NNT | 0(0) | 1(1) |
| Plague | 0(0) | 0(0) |
| Typhoid | 1527(2) | 2060(1) |

**Completeness of Reporting**

All districts (100%) reported; improvement in completeness from 56% (week 16) to 61% was noted. **34 districts had 80% or more of the health units reporting** (highlighted in yellow in summary table)**. Yumbe, Maracha, Moyo, Koboko, Napak and Nwoya** had  **100%** completeness. Consistently, the districts in the northern region have better reporting rates compared to other regions. Kampala and Pader, had less than 9% of the units reporting; followed by Kaberamaido and Mubende with less than 20% (districts with <50% are highlighted in pink)

**Timeliness**

At national level, 76% (1819 out of 2397) health facilities submitted timely reports. Up to 51 districts had 80-100% of their facilities reporting timely.

**Epidemiological week 17 0f 2015 [19-25 April 2015]**

**Disease Outbreaks**

**Typhoid fever:** The typhoid fever outbreak started in week 48 of

2014. By 4th May, up to **12,858 typhoid** cases had been recorded at the six treatment centres in Kampala district. Cleaning and

analysis of the entered data (up to 4th May) was done and **7426**

**cases (52% males) meet the case definition.** In week 17 (20-26th

April), **25 districts** exceeded the epidemic threshold of 20 cases per week. Kampala, Wakiso, Luwero and Bukwo reported higher numbers.  **Four teams**, each with an epidemiologist, clinician, biostatistician, environmental health and laboratory technologist went to eight districts in central, western, eastern and West Nile regions to further verify high number of typhoid cases reported in selected districts.

**Cholera**: **Kasese** and **Bundibugyo** Districts reported 10 and 4 cases respectively. The cholera outbreak started on **14/03/2015 and by 4th May, 81 cases (51% males), 1 death (CFR 1.2%)** had been reported. The cholera treatment center was established in Bwera Hospital and of the 42 stool samples collected and tested at Bwera Hospital laboratory, 38 were positive and *Vibrio cholera inaba* was isolated*.* Children 0-15 years of age (53%) were the most affected. **Mpondwe MLTC (Nyabugando Parish, 21), Karambi**

**and Kitholho** were the most affected sub-counties. A support team is in the district to contribute to the control efforts.

**Measles:** Incidence rate of measles infection per 1,000,000 population is **2.25 and 28 districts** have an incidence rate of >1 per

1,000,000 total population; majority of which are in western Uganda. Since May 2014, OPD measles data shows that the number of cases reported increased and peaked in November 2014, and has exceeded this peak in March 2015 (**Figure 1**). This week, **45 districts** reported at least one case but **90%** of the samples submitted to UVRI were **Rubella positive**, only 10% were measles. The majority of the **Rubella** cases were >2 (**Figure 2**). Over 50% of lab confirmed measles cases are not vaccinated - this includes both zero **doses and unknown vaccination status.**

**Other priority diseases**

**AFP:** Mitooma, Butambala, Nwoya, Kapchorwa and Bundibugyo reported a case each. These districts have achieved a target of reporting at least two cases a year.

**Rabies:** There was 11.5% increase in number of cases reported**.** Out of 81 districts which reported at least one case of animal bites as a proxy for rabies, 11 districts had ten or more cases. Wakiso district (45) reported the highest number of cases Koboko reported one death. All these districts should **investigate the cases,** provide detailed **reports of animal bites without provocation.**

**Dysentery**: Although 97 districts reported at least a case of dysentery, 41 districts with 10 or more cases should conduct detailed **laboratory investigation** to rule out epidemic dysentery due to ***Shigella*.**

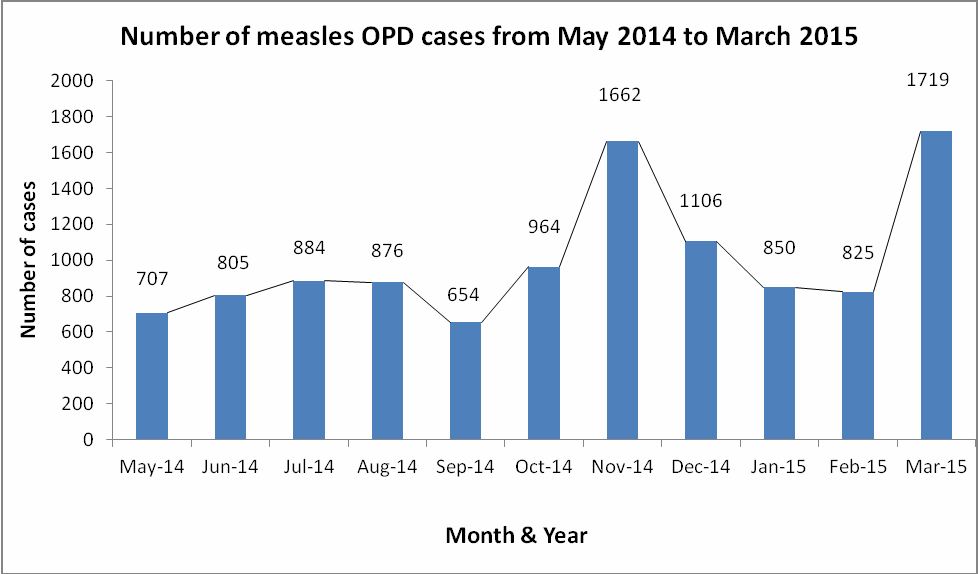
**Malaria:** The increased cases reported matched the increase in reporting rates by health units. Districts with more than 3000 cases this week were: Arua (6194), Wakiso (4145), Kasese (4143), Nebbi (3586), Kamuli (3445) and Iganga (3155). Malaria testing and treatment analysis shows a wide gap between number of suspect and positive cases by RDT or microscopy **(Figure 3).** More ACTs were dispensed compared to the number of malaria cases treated **(Figure 4).**

**Neonatal tetanus:** Hoima district reported the one case and death.

**Human Influenza:** The UVRI National Influenza Centre data from sentinel surveillance sites for ILI shows that from the start of the year, only 3 out of 246 samples (average of 14 samples collected per week) were positive for Influenza B virus. In week 17, 17 suspect samples were collected but none was positive.

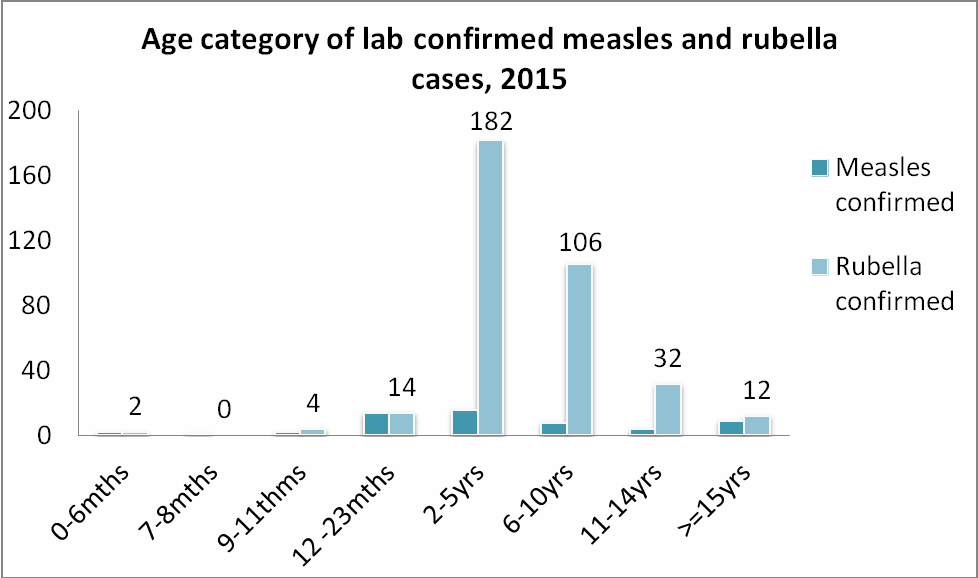
**Guinea worm: One case each was reported in Amuria and Kitgum districts.** The Guinea Worm control program was informed to investigate, but results are not yet available.

**Maternal deaths:** In week 17, 2309 out of 3823 (60.3%) health facilities reported about maternal deaths. A total of 15 maternal and 18 perinatal deaths were reported compared to 14 maternal, 29 perinatal deaths in week 16 and 9 maternal, 9 perinatal deaths in week 15. Hoima RRH, Jinja RRH and Kitayunjwa HC III reported two cases each this week.

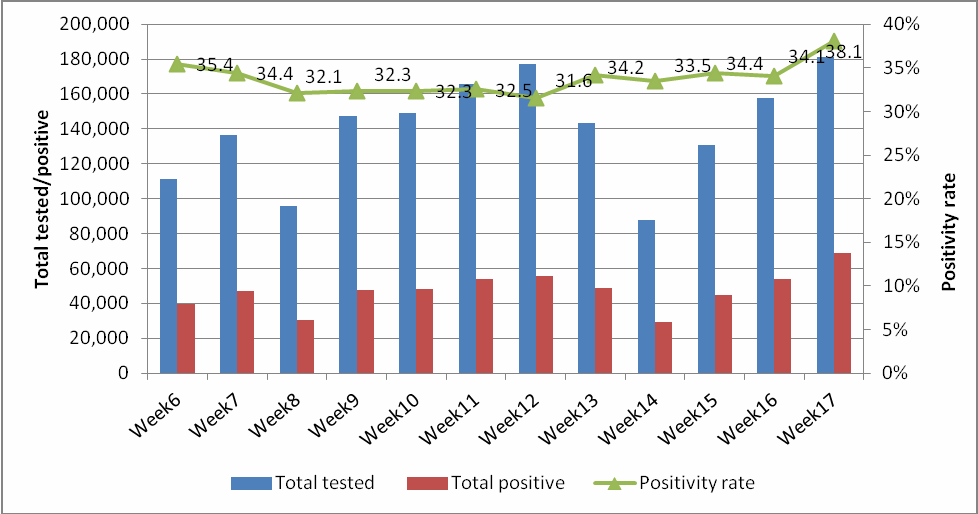


**Figure 1: Trend of OPD measles monthly cases from May 2014 to March 2015**

**Editorial:** *Dr. M. Musenero*, *Mr. M. Mugagga, Dr. J. Wamala, Dr. Issa Makumbi , Dr. R. Musoke, Dr. J. Sekajugo, Dr. F. Adatu, Dr. Immy Nabukenya,* **Founders:***Dr. Jimmy Kamugisha (RIP), Dr. J. Wanyana, Dr. M. Lamunu, Dr. C. Mugero Dr. N Ndayimirigye Mr. L. Luswa (RIP), Dr. N. Bakyaita, Mr. M. Mugagga*



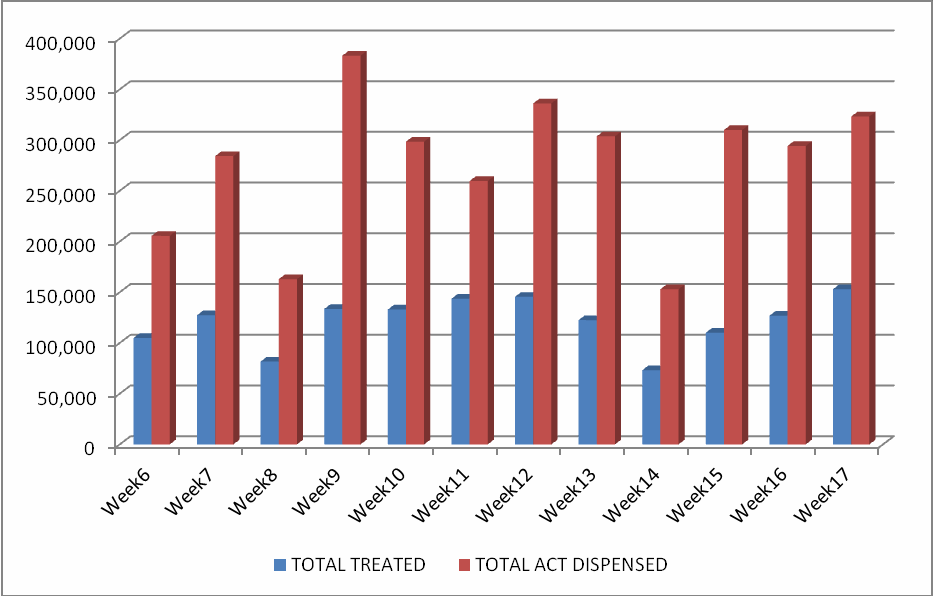
**Figure 2: Age category of Measles and Rubella laboratory confirmed cases, 2015**



**Figure 3: Comparison of malaria suspected cases, RDT positive and testing rate in week 17**

**Editorial:** *Dr. M. Musenero*, *Mr. M. Mugagga, Dr. J. Wamala, Dr. Issa Makumbi , Dr. R. Musoke, Dr. J. Sekajugo, Dr. F. Adatu, Dr. C. Okot, Dr. I. Nabukenya*

**Founders:***Dr. J. Kamugisha (RIP), Dr. J. Wanyana, Dr. M. Lamunu, Dr. C. Mugero Dr. N Ndayimirigye Mr. L. Luswa (RIP), Dr. N. Bakyaita, Mr. M. Mugagga*



**Figure 4: Comparison of malaria cases treated and total Artemisinin Combination Therapy (ACTs)**

**dispensed**

***For comments please contact: The Epidemiological Surveillance Division- M.O.H; P.O BOX 7272***

***Kampala, Tel: 0414-340874/0414-345108 ; Email:*** [***esd@health.go.ug***](mailto:esd@health.go.ug) ***or*** [***esduganda@yahoo.co.uk***](mailto:esduganda@yahoo.co.uk)

**Summary table for epidemiological reports received for week ending 25th April 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 | 68 | 0 | 5 | 0 | 11 | 0 | 574 | 0 | 0 | 0 | 0 | 0 |
| Adjumani | 86 | 0 | 1 | 0 | 21 | 0 | 1987(2) | 0 | 0 | 0 | 0 | 0 |
| Agago | 79 | 0 | 2 | 0 | 28 | 0 | 439 | 0 | 0 | 0 | 0 | 0 |
| Alebtong | 57 | 0 | 5 | 0 | 0 | 0 | 371 | 0 | 0 | 0 | 0 | 2 |
| Amolatar | 92 | 0 | 0 | 0 | 5 | 0 | 471 | 0 | 0 | 0 | 0 | 2 |
| Amudat | 88 | 0 | 2 | 0 | 27 | 0 | 346 | 0 | 0 | 0 | 0 | 3 |
| Amuria | 65 | 0 | 1 | 0 | 1 | 1 | 1428 | 0 | 0 | 0 | 0 | 0 |
| Amuru | 55 | 0 | 5 | 0 | 8 | 0 | 619 | 0 | 0 | 0 | 0 | 6 |
| Apac | 84 | 0 | 14 | 0 | 2 | 0 | 1296 | 0 | 0 | 0 | 0 | 0 |
| Arua | 97 | 0 | 2 | 0 | 52 | 0 | 6194(3) | 4 | 0 | 0 | 0 | 98 |
| Budaka | 44 | 0 | 4 | 0 | 3 | 0 | 604 | 0 | 0 | 0 | 0 | 1 |
| Bududa | 87 | 0 | 0 | 0 | 11 | 0 | 1030(1) | 0 | 0 | 0 | 0 | 5 |
| Bugiri | 23 | 0 | 4 | 0 | 4 | 0 | 1035 | 0 | 0 | 0 | 0 | 11 |
| Buhweju | 47 | 0 | 6 | 0 | 0 | 0 | 162 | 0 | 0 | 0 | 0 | 0 |
| Buikwe | 34 | 0 | 9 | 0 | 10 | 0 | 751 | 0 | 0 | 0 | 0 | 21 |
| Bukedea | 46 | 0 | 17 | 0 | 2 | 0 | 152 | 0 | 0 | 0 | 0 | 0 |
| Bukomansimbi | 82 | 0 | 1 | 0 | 2 | 0 | 405 | 10 | 0 | 0 | 0 | 5 |
| Bukwo | 87 | 0 | 0 | 0 | 28 | 0 | 356 | 0 | 0 | 0 | 0 | 51 |
| Bulambuli | 75 | 0 | 0 | 0 | 0 | 0 | 669 | 0 | 0 | 0 | 0 | 0 |
| Buliisa | 90 | 0 | 3 | 0 | 6 | 0 | 518 | 0 | 0 | 0 | 0 | 4 |
| Bundibugyo | 86 | 1 | 7 | 4 | 40 | 0 | 2174 | 0 | 0 | 0 | 0 | 17 |
| Bushenyi | 49 | 0 | 3 | 0 | 0 | 0 | 898(1) | 1 | 0 | 0 | 0 | 17 |
| Busia | 54 | 0 | 1 | 0 | 9 | 0 | 2409 | 3 | 0 | 0 | 0 | 42 |
| Butaleja | 63 | 0 | 2 | 0 | 4 | 0 | 1873(1) | 0 | 0 | 0 | 0 | 1 |
| Butambala | 96 | 1 | 8 | 0 | 8 | 0 | 863 | 2 | 0 | 0 | 0 | 21 |
| Buvuma | 82 | 0 | 3 | 0 | 9 | 0 | 238 | 3 | 1 | 0 | 0 | 5 |
| Buyende | 70 | 0 | 2 | 0 | 5 | 0 | 680 | 0 | 0 | 0 | 0 | 0 |
| Dokolo | 94 | 0 | 6 | 0 | 5 | 0 | 872 | 0 | 0 | 0 | 0 | 5 |
| Gomba | 83 | 0 | 5 | 0 | 10 | 0 | 568 | 0 | 0 | 0 | 0 | 1 |
| Gulu | 77 | 0 | 0 | 0 | 62 | 0 | 1270 | 0 | 0 | 0 | 0 | 94 |
| Hoima | 78 | 0 | 0 | 0 | 55 | 0 | 2567(4) | 4 | 0 | 1 | 0 | 61 |
| Ibanda | 50 | 0 | 3 | 0 | 0 | 0 | 2038 | 0 | 0 | 0 | 0 | 3 |
| Iganga | 57 | 0 | 2 | 0 | 6 | 0 | 3155 | 0 | 0 | 0 | 0 | 0 |
| Isingiro | 78 | 0 | 3 | 0 | 0 | 0 | 2188(1) | 0 | 0 | 0 | 0 | 23 |
| Jinja | 34 | 0 | 8 | 0 | 26 | 0 | 2099(3) | 2 | 0 | 0 | 0 | 13 |
| Kaabong | 52 | 0 | 9(1) | 0 | 15 | 0 | 984 | 0 | 0 | 0 | 0 | 0 |
| Kabale | 88 | 0 | 0 | 0 | 2 | 0 | 255 | 0 | 0 | 0 | 0 | 0 |
| Kabarole | 84 | 0 | 1 | 0 | 3 | 0 | 2658(3) | 8 | 1 | 0 | 0 | 18 |
| Kaberamaido | 19 | 0 | 0 | 0 | 0 | 0 | 306 | 0 | 0 | 0 | 0 | 1 |
| Kalangala | 64 | 0 | 0 | 0 | 4 | 0 | 178 | 0 | 0 | 0 | 0 | 3 |
| Kaliro | 25 | 0 | 0 | 0 | 0 | 0 | 338 | 0 | 0 | 0 | 0 | 0 |
| Kalungu | 55 | 0 | 2 | 0 | 1 | 0 | 359 | 5 | 0 | 0 | 0 | 6 |
| Kampala | 7 | 0 | 3 | 0 | 5 | 0 | 718 | 14 | 0 | 0 | 0 | 359 |
| Kamuli | 51 | 0 | 3 | 0 | 5 | 0 | 3445 | 1 | 0 | 0 | 0 | 1 |
| Kamwenge | 58 | 0 | 1 | 0 | 6 | 0 | 1747 | 7 | 0 | 0 | 0 | 4 |
| Kanungu | 65 | 0 | 0 | 0 | 6 | 0 | 774 | 11 | 0 | 0 | 0 | 58 |
| Kapchorwa | 94 | 1 | 9 | 0 | 29 | 0 | 918 | 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 | 79 | 0 | 0 | 10 | 11 | 0 | 4153(1) | 26 | 0 | 0 | 0 | 8 |
| Katakwi | 55 | 0 | 2 | 0 | 3 | 0 | 1155 | 0 | 0 | 0 | 0 | 0 |
| Kayunga | 88 | 0 | 0 | 0 | 19 | 0 | 1831(2) | 1 | 0 | 0 | 0 | 8 |
| Kibaale | 66 | 0 | 3 | 0 | 21 | 0 | 1438 | 14 | 0 | 0 | 0 | 70(1) |
| Kiboga | 71 | 0 | 0 | 0 | 3 | 0 | 356 | 3 | 0 | 0 | 0 | 7 |
| Kibuku | 46 | 0 | 17 | 0 | 2 | 0 | 309 | 0 | 0 | 0 | 0 | 0 |
| Kiruhura | 82 | 0 | 1 | 0 | 0 | 0 | 1888 | 5 | 0 | 0 | 0 | 3 |
| Kiryandongo | 60 | 0 | 14 | 0 | 7 | 0 | 809 | 3 | 0 | 0 | 0 | 18 |
| Kisoro | 92 | 0 | 14 | 0 | 1 | 0 | 296(1) | 0 | 0 | 0 | 0 | 6 |
| Kitgum | 57 | 0 | 1 | 0 | 18 | 1 | 852 | 0 | 0 | 0 | 0 | 19 |
| Koboko | 100 | 0 | 9 | 0 | 9 | 0 | 2065 | 1 | 0 | 0 | 0 | 7 |
| Kole | 83 | 0 | 10 | 0 | 1 | 0 | 178 | 0 | 0 | 0 | 0 | 0 |
| Kotido | 41 | 0 | 1 | 0 | 50 | 0 | 759 | 0 | 0 | 0 | 0 | 71 |
| Kumi | 64 | 0 | 1 | 0 | 3 | 0 | 1225 | 0 | 0 | 0 | 0 | 23 |
| Kween | 88 | 0 | 5 | 0 | 10 | 0 | 478 | 0 | 0 | 0 | 0 | 8 |
| Kyankwanzi | 29 | 0 | 10 | 0 | 1 | 0 | 208 | 0 | 0 | 0 | 0 | 7 |
| Kyegegwa | 67 | 0 | 5 | 0 | 1 | 0 | 978 | 4 | 0 | 0 | 0 | 3 |
| Kyenjojo | 50 | 0 | 8 | 0 | 5 | 0 | 634 | 1 | 0 | 0 | 0 | 4 |
| Lamwo | 90 | 0 | 1 | 0 | 0 | 0 | 234 | 0 | 0 | 0 | 0 | 0 |
| Lira | 63 | 0 | 0 | 0 | 11 | 0 | 779(1) | 0 | 0 | 0 | 0 | 15 |
| Luuka | 32 | 0 | 0 | 0 | 0 | 0 | 531 | 0 | 0 | 0 | 0 | 0 |
| Luwero | 55 | 0 | 5 | 0 | 12 | 0 | 1072 | 4 | 1 | 0 | 0 | 61 |
| Lwengo | 26 | 0 | 18 | 0 | 0 | 0 | 200 | 2 | 0 | 0 | 0 | 13 |
| Lyantonde | 56 | 0 | 0 | 0 | 1 | 0 | 635 | 5 | 0 | 0 | 0 | 93 |
| Manafwa | 70 | 0 | 1 | 0 | 24 | 0 | 1372(2) | 0 | 0 | 0 | 0 | 24 |
| Maracha | 100 | 0 | 9 | 0 | 19 | 0 | 2845(1) | 0 | 0 | 0 | 0 | 25 |
| Masaka | 65 | 0 | 1 | 0 | 1 | 0 | 689(5) | 7 | 0 | 0 | 0 | 7 |
| Masindi | 74 | 0 | 1 | 0 | 22 | 0 | 1434 | 2 | 0 | 0 | 0 | 0 |
| Mayuge | 31 | 0 | 5 | 0 | 11 | 0 | 921 | 0 | 0 | 0 | 0 | 1 |
| Mbale | 71 | 0 | 0 | 0 | 7 | 0 | 1563 | 1 | 0 | 0 | 0 | 8 |
| Mbarara | 83 | 0 | 5 | 0 | 13 | 0 | 1366 | 5 | 0 | 0 | 0 | 31 |
| Mitooma | 64 | 1 | 0 | 0 | 1 | 0 | 1096 | 15 | 0 | 0 | 0 | 2 |
| Mityana | 51 | 0 | 0 | 0 | 10 | 0 | 1638 | 12 | 0 | 0 | 0 | 9 |
| Moroto | 64 | 0 | 4 | 0 | 30 | 0 | 949 | 0 | 0 | 0 | 0 | 5 |
| Moyo | 100 | 0 | 1 | 0 | 13 | 0 | 2741 | 0 | 0 | 0 | 0 | 21 |
| Mpigi | 78 | 0 | 1 | 0 | 2 | 0 | 1004 | 0 | 0 | 0 | 0 | 20 |
| Mubende | 13 | 0 | 1 | 0 | 9 | 0 | 336 | 9(1) | 0 | 0 | 0 | 32 |
| Mukono | 67 | 0 | 0 | 0 | 16 | 0 | 1868 | 2 | 0 | 0 | 0 | 19 |
| Nakapiripirit | 71 | 0 | 4 | 0 | 27 | 0 | 699 | 0 | 0 | 0 | 0 | 8 |
| Nakaseke | 70 | 0 | 8 | 0 | 14 | 0 | 704 | 17 | 0 | 0 | 0 | 28 |
| Nakasongola | 27 | 0 | 45 | 0 | 13 | 0 | 359 | 2 | 0 | 0 | 0 | 10 |
| Namayingo | 24 | 0 | 9 | 0 | 8 | 0 | 845 | 0 | 0 | 0 | 0 | 7 |
| Namutumba | 21 | 0 | 1 | 0 | 2 | 0 | 392 | 1 | 0 | 0 | 0 | 0 |
| Napak | 100 | 0 | 5 | 0 | 20 | 0 | 960 | 0 | 0 | 0 | 0 | 0 |
| Nebbi | 86 | 0 | 1 | 0 | 44 | 0 | 3586(2) | 2 | 0 | 0 | 0 | 28 |
| Ngora | 33 | 0 | 2 | 0 | 1 | 0 | 405 | 0 | 0 | 0 | 0 | 1 |
| Ntoroko | 67 | 0 | 5 | 0 | 8 | 0 | 261 | 6 | 0 | 0 | 0 | 8 |
| Ntungamo | 54 | 0 | 0 | 0 | 4 | 0 | 705(1) | 7 | 0 | 0 | 0 | 3 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **District** | **% of H/U**  **reporting** | **AFP** | **Animal bite (Suspected Rabies)** | **Cholera** | **Dysentery** | **Guinea**  **Worm** | **Malaria** | **Measles** | **Meningitis** | **NNT** | **Plague** | **Typhoid**  **Fever** |
| Nwoya | 100 | 1 | 2 | 0 | 5 | 0 | 814 | 0 | 0 | 0 | 0 | 0 |
| Otuke | 92 | 0 | 1 | 0 | 0 | 0 | 289(1) | 0 | 0 | 0 | 0 | 7 |
| Oyam | 72 | 0 | 5 | 0 | 10 | 0 | 501(1) | 0 | 0 | 0 | 0 | 8 |
| Pader | 6 | 0 | 14 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| Pallisa | 57 | 0 | 2 | 0 | 8 | 0 | 1806(1) | 0 | 0 | 0 | 0 | 25 |
| Rakai | 37 | 0 | 4 | 0 | 9 | 0 | 1717 | 11 | 0 | 0 | 0 | 31 |
| Rubirizi | 94 | 0 | 0 | 0 | 0 | 0 | 761 | 0 | 0 | 0 | 0 | 7 |
| Rukungiri | 67 | 0 | 4 | 0 | 1 | 0 | 1386 | 4 | 0 | 0 | 0 | 2 |
| Sembabule | 75 | 0 | 6 | 0 | 7 | 0 | 1207 | 0 | 0 | 0 | 0 | 57 |
| Serere | 68 | 0 | 9 | 0 | 6 | 0 | 998 | 0 | 1 | 0 | 0 | 0 |
| Sheema | 53 | 0 | 17 | 0 | 0 | 0 | 758 | 0 | 0 | 0 | 0 | 0 |
| Sironko | 79 | 0 | 1 | 0 | 1 | 0 | 2231 | 0 | 0 | 0 | 0 | 0 |
| Soroti | 74 | 0 | 0 | 0 | 9 | 0 | 1958(2) | 1 | 0 | 0 | 0 | 16 |
| Tororo | 53 | 0 | 0 | 0 | 1 | 0 | 1984 | 0 | 0 | 0 | 0 | 18 |
| Wakiso | 64 | 0 | 3 | 0 | 29 | 0 | 4545 | 31 | 0 | 0 | 0 | 168 |
| Yumbe | 100 | 0 | 7 | 0 | 29 | 0 | 2619 | 0 | 0 | 0 | 0 | 14 |
| Zombo | 95 | 0 | 3 | 0 | 15 | 0 | 1397(2) | 0 | 0 | 0 | 0 | 2 |
| National | 61 | 5(0) | 434(0) | 14(0) | 1174  (0) | 2(0) | 132767 (42) | 270(1) | 3(0) | 1(1) | 0(0) | 2060  (1) |

HU= Health Units, AFP=Acute Flaccid Paralysis, NNT=Neonatal Tetanus

**Compiled by the Epidemiological Surveillance Division, Ministry of Health**