



WEEKLY EPIDEMIOLOGICAL BULLETIN

WEEK 28– 2024

(08-14 July 2024)

Editorial message

Effective and efficient disease surveillance system contribute to the reduction of morbidity, disability and mortality from disease outbreaks and health emergencies.

This weekly bulletin presents the epidemiological status of the priority diseases, conditions, and events under surveillance in Rwanda. These data are useful to trigger a rapid response for rapid impact, actions and results oriented, a proactive preparedness, risk mitigation and prevention, intelligence, real-time information, and communication for decision making.

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KEY EPIDEMIOLOGICAL HIGHLIGHTS

EPIDEMIOLOGICAL WEEK 28/2024

Event Based Surveillance (EBS) Highlights:

- **Alert from community:** twenty-eight alerts: 24 Human Deaths, 1 Dog Bite, 1 Human Illness, 2 Animal illnesses or deaths
- **Alert from EIOS:** two alerts
 - GHS issues Dengue Fever
 - DR Congo detects at least 25 mpox cases in Goma

● Indicator Based Surveillance (IBS) Highlights:

- 131 immediate reportable diseases were notified by health facilities countrywide. These include the cases of acute flaccid paralysis (AFP), mumps, severe malaria, bloody diarrhea, measles/rubella, chicken pox, bacterial meningitis, typhoid fever, snake bite and Mpox.
- For 8 weekly reportable diseases and health events, a thorough analysis conducted for the epi Week 28 revealed that no cases surpassed the epidemic thresholds.
- A total of 74 deaths were reported through the electronic Integrated Disease Surveillance and Response (eIDSR) system. Most of deaths were perinatal deaths and deaths of children under 5 years.

● Outbreaks and events updates in week 28

Foodborne illnesses outbreak reported in Burera district, Kinyababa Sector

● Completeness and timeliness

In Epi Week 28, the overall completeness and timeliness of surveillance data reporting in Rwanda was 97% and 91% respectively.

WEEKLY UPDATES ON EVENT BASED SURVEILLANCE (EBS) EPIDEMIOLOGICAL WEEK 28

Description: *Event Based Surveillance (EBS) is a type of public health surveillance system that detects and reports unusual health events or disease outbreaks in a timely manner. The system is designed to detect signals of potential public health threats and allow a rapid response to prevent or control the spread of diseases. RBC is implementing EBS through PHS&EPR Division.*

Currently, an electronic Community Event Based Surveillance System (eCBS) and Epidemic Intelligence from Open Source (EIOS) are being used to detect and report events of public health importance from the community and media. The process for establishment of other types of EBS is still being on going.

COMMUNITY BASED SURVEILLANCE

- **Alert from community:** twenty-eight alerts:

- 24 Human Deaths reported in 24 villages
- 1 Dog Bite
- 1 Human Illness
- 2 Animal illnesses or deaths

- **Alert from EIOS: two alerts**

1. GHS issues Dengue Fever alert

Summary: The Ghana Health Service (GHS) has announced the outbreak of clinical malaria, known as Dengue Fever, in some districts of the Eastern Region. According to the GHS, a total of nine cases have been confirmed after samples were sent to the Noguchi Memorial Institute for Medical Research (NMIMR). The GHS said a team from the national level, comprising entomologists and epidemiologists, has joined the regional team to undertake a detailed investigation into the outbreak.

<https://www.adomonline.com/ghs-issues-dengue-fever-alert/>

2. DR Congo detects at least 25 mpox cases in Goma

Summary: At least 25 cases of a dangerous new strain of mpox have been detected in the eastern city of Goma. Congo has seen 20,000 cases and more than 1,000 deaths from mpox since the start of 2023. Authorities recently approved the use of vaccines to tackle the upsurge.

<https://www.voanews.com/a/dr-congo-detects-at-least-25-mpox-cases-in-goma-mainly-in-displacement-camps-/7695086.html>

WEEKLY UPDATES ON INDICATOR BASED SURVEILLANCE (IBS)

Description: *Rwanda had implemented Indicator Based Surveillance according to the IDSR guidelines 3rd edition where approximately 45 priority diseases, health conditions and public health events are being monitored and reported from health facilities countrywide on a regular basis. Diseases that are prone to outbreaks are being reported immediately within 24 hours after detection while diseases that are considered as endemic are reported on weekly basis every Monday before midday.*

A. IMMEDIATE REPORTABLE DISEASES – EPI WEEK 28

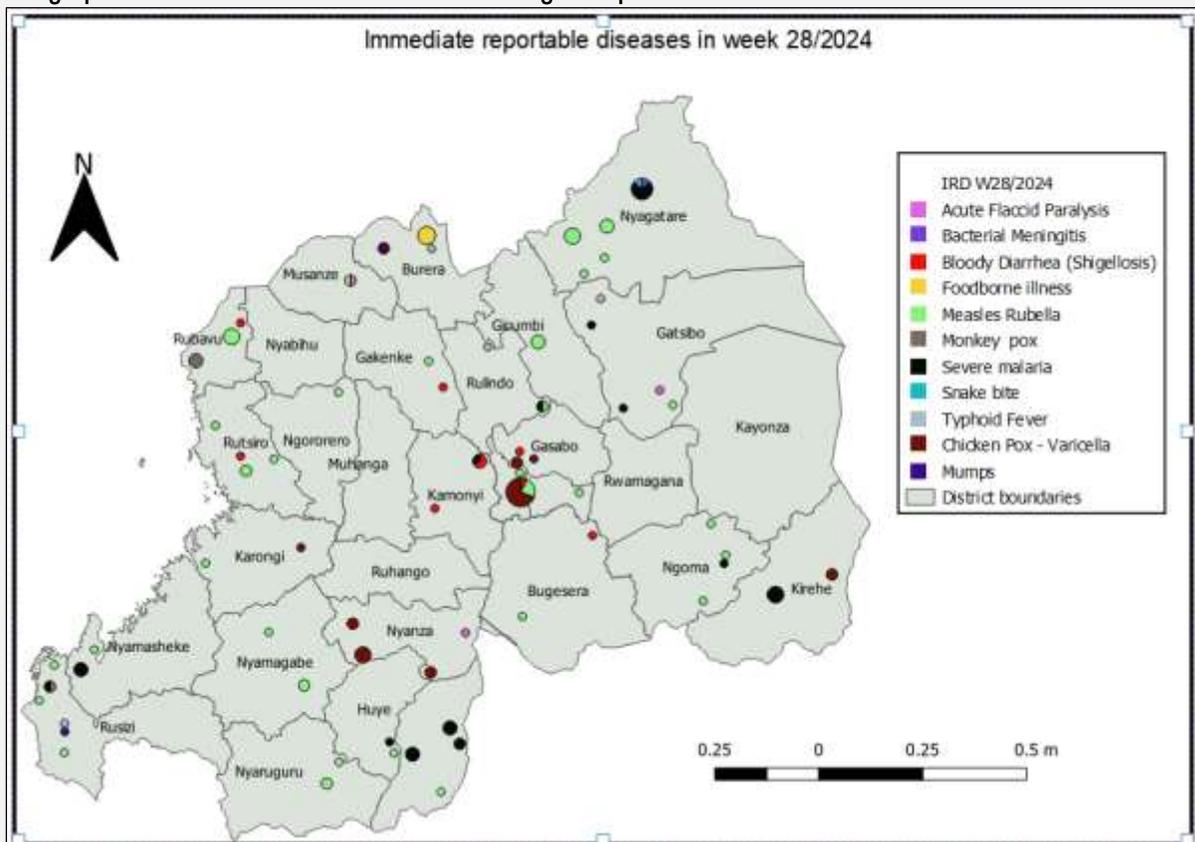
During this Epi week, 131 cases of immediate reportable diseases were notified:

- 24 cases of chicken pox were reported by 9 HFs. No HF crossed the threshold.
- 2 cases of mumps were reported by 2 HCs. No HF crossed the threshold.
- 9 suspected cases of bloody diarrhea (Shigellosis) were reported by 8 health facilities. The samples were taken and sent to NRL.
- 47 suspected cases of Measles/Rubella were reported by 32 HCs. Samples were taken and sent to NRL.
- 31 cases of severe malaria were reported by 14 health facilities.
- 3 suspected cases of acute flaccid paralysis were reported by 3 health facilities, the samples were taken and sent to NRL for transportation to UVRI laboratory.
- 4 suspected cases of typhoid fever reported by 4 health facilities. The samples were taken and sent to NRL.
- 8 suspected cases of Mpox were reported by 2 health facilities, the samples were sent to NRL.
- 1 suspected case of bacterial meningitis was reported by 1 health facility.
- 5 cases of foodborne illnesses were reported by 1 health facility
- 1 case of snake bite was reported by 1 health facility.

Notes:

- ✓ All confirmed and suspected cases had been managed at the health facility level.
- ✓ The hospitals with surpassed thresholds are recommended to conduct the investigations.

Geographical distribution of cases notified during the epi week 28/2024.



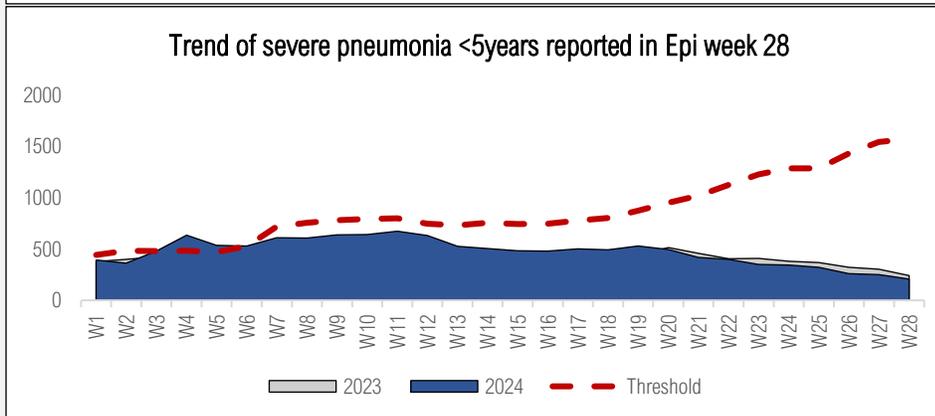
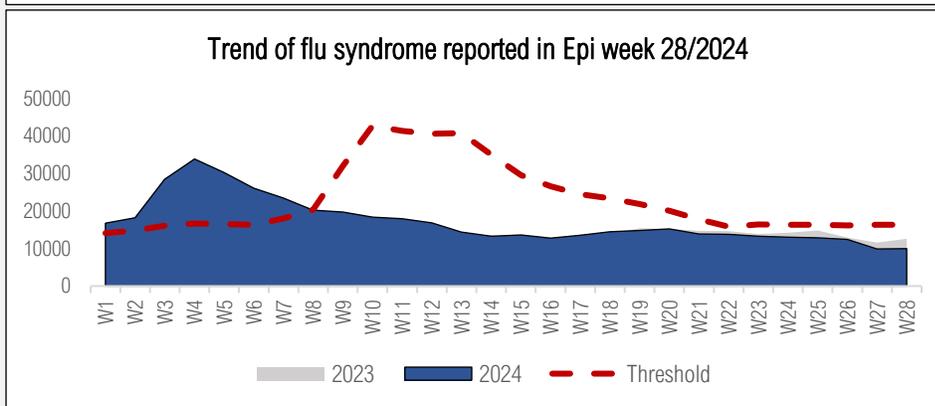
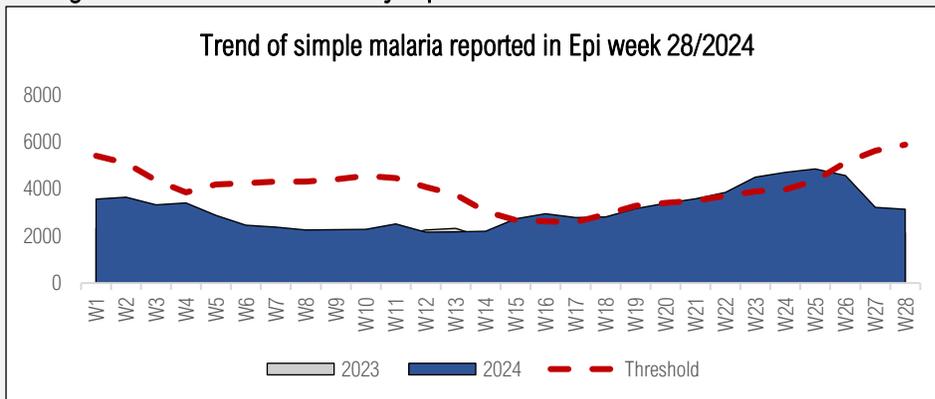
Distribution of immediate reportable diseases in Epi week 28

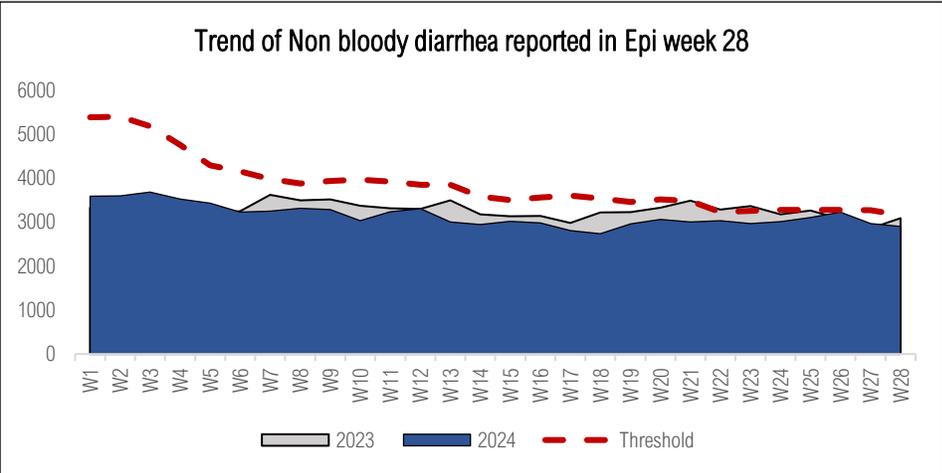
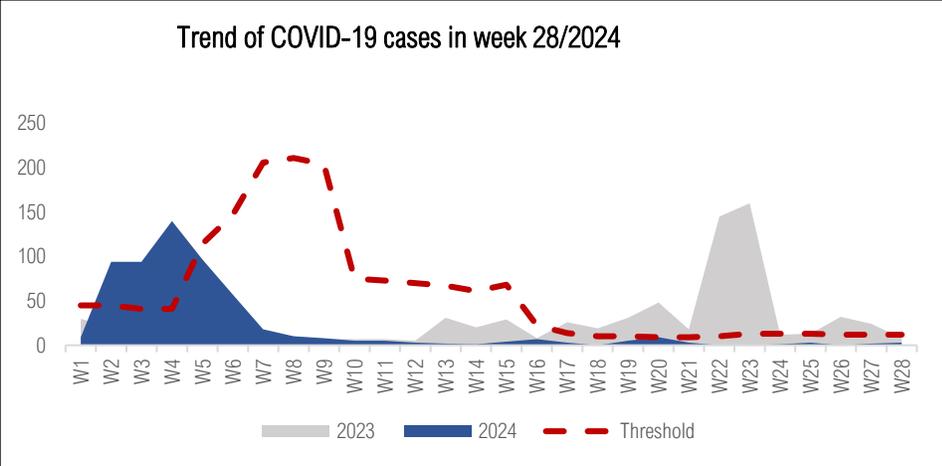
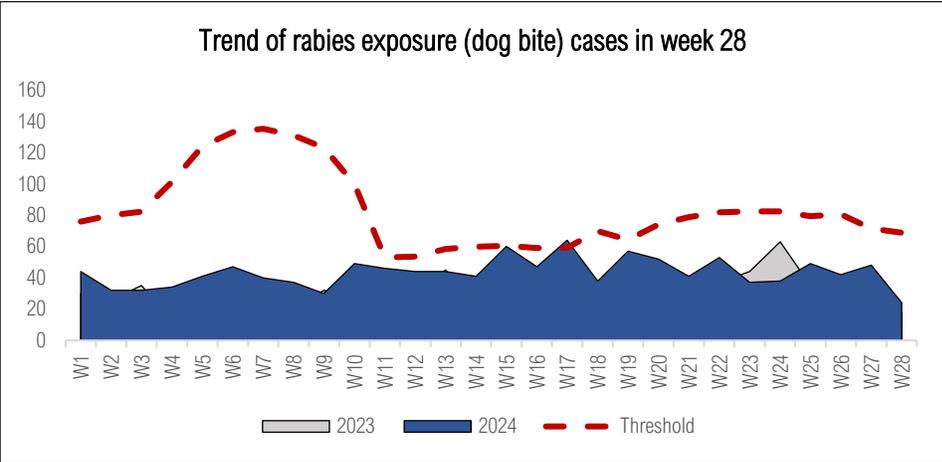
B. WEEKLY REPORTABLE DISEASES – EPI WEEK 28

Description: In Rwanda, after the adaptation of the IDSR guidelines 3rd edition, eight diseases events are being reported and analyzed on a weekly basis. These include flu syndrome, simple malaria, severe pneumonia for under 5 years, non-bloody diarrhea for under 5 years, COVID-19, dog bites, brucellosis, and trypanosomiasis. The monitoring trends of these weekly reportable diseases or health events helps to detect an unusual increase early.

In Epi Week 28, a thorough analysis was conducted, comparing the number of reported cases of the eight diseases monitored on a weekly basis to their respective epidemic thresholds. The results of the analysis revealed that no disease surpassed the threshold.

The figures below show the weekly reportable diseases trends:

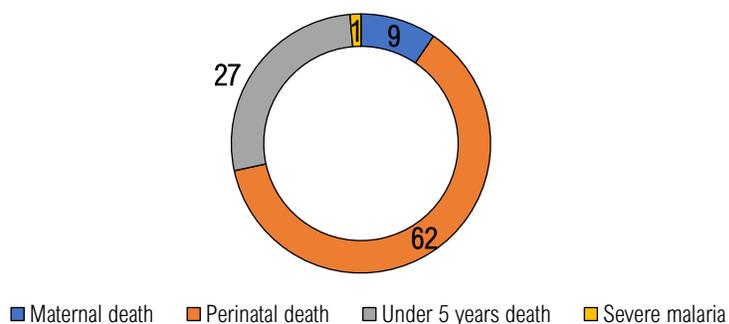




C. DISTRIBUTION OF REPORTED DEATHS IN eIDSR – EPIDEMIOLOGICAL WEEK 28

As summarized in the Pie Chart below, a total number of 74 deaths were reported through the electronic Integrated Disease Surveillance and Response (eIDSR) system. Among these deaths, 46(62%) were perinatal deaths, 20 (27%) were the deaths of children under 5 years old including 1 death due to severe pneumonia, 7 (9%) maternal death, 1 (1%) death due to severe malaria

Type of deaths reported in week 28/2024 (%)

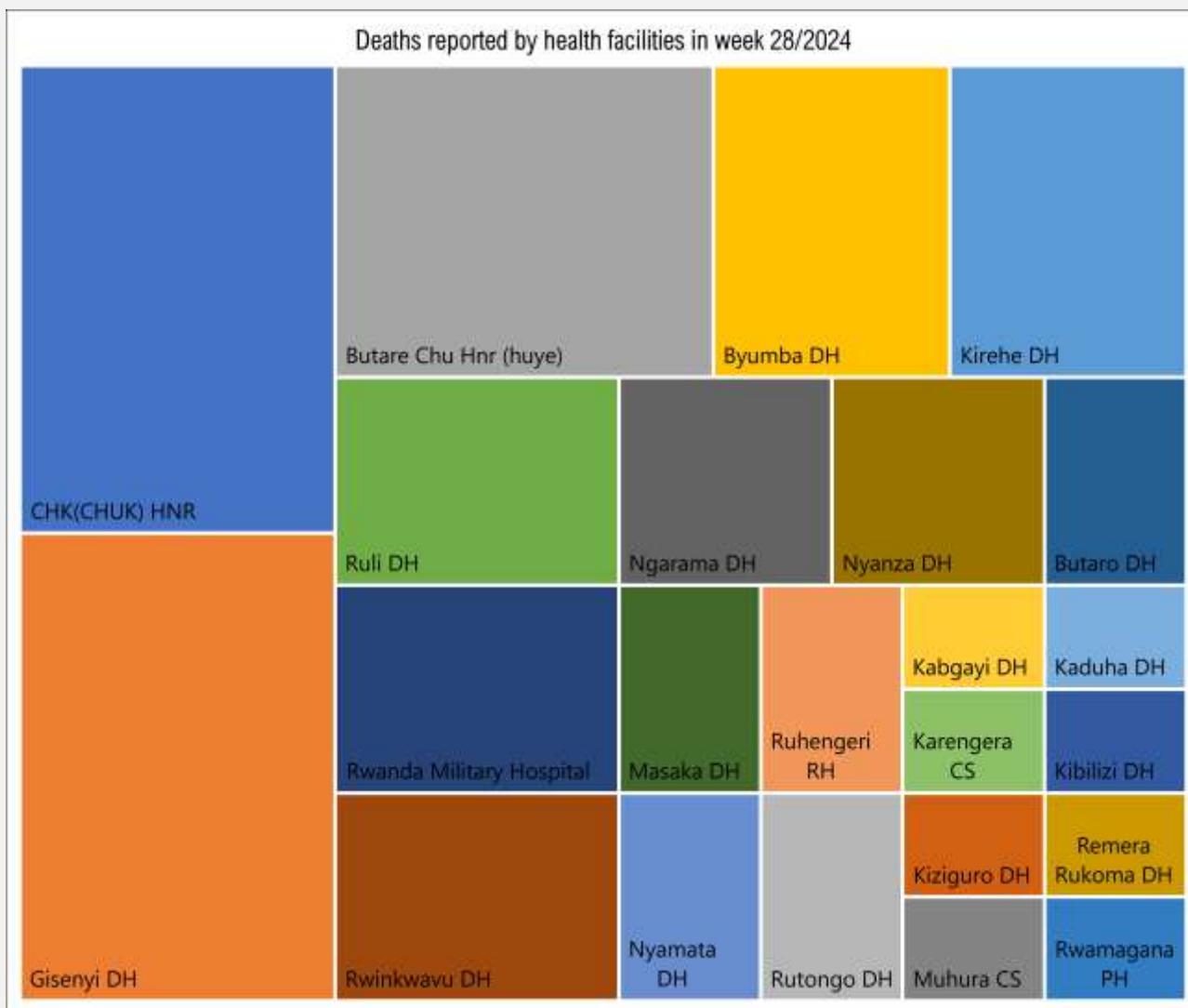


Cause of deaths declared in epi week 28

74 deaths were reported from various catchment areas as follow:

- 10 deaths were reported respectively by CHUK (4 were perinatal deaths and 6 under 5 years deaths) and Gisenyi DH (1 maternal death, 7 were perinatal deaths and 2 under 5 years deaths)
- 8 deaths were reported by CHUB (2 maternal deaths and 6 perinatal deaths)
- 5 deaths were reported respectively by Byumba DH (3 were perinatal deaths, 1 under 5 years death and 1 death due to severe malaria); Kirehe DH (5 perinatal deaths)
- 4 deaths were reported respectively by Rwinkwavu DH (all were perinatal deaths); Rwanda Military Hospital (1 maternal death, 2 perinatal deaths and 1 under 5 years death); Ruli DH (2 perinatal deaths and 2 under 5 years deaths)
- 3 deaths were reported respectively by Ngarama DH and Nyanza DH (each one reported 2 perinatal deaths and 1 under 5 years death)
- 2 deaths were reported respectively by Butaro DH and Rutongo DH (each one reported 1 perinatal death and 1 under 5 years death), Masaka DH (1 maternal death and 1 perinatal death); Nyamata DH (1 maternal and 1 under 5 years death), Ruhengeri RH (2 perinatal deaths)
- 1 death was reported respectively by Kabgayi DH (1 maternal death); Kibilizi DH, Kiziguro DH, Remera Rukoma DH, Muhura HC in Kiziguro DH (each one reported 1 perinatal death); Kaduha DH, Rwamagana PH, Karengera HC in Kibogora DH (each one reported 1 under 5 years death).

Distribution of deaths by health facilities:



Distribution of deaths by health facilities in Epi week 28

OUTBREAK AND EVENT UPDATES IN EPIDEMIOLOGICAL WEEK 28

Foodborne illnesses outbreak reported in Burera district, Kinyababa Sector

Confirmed cases		Date reported:	July 14, 2024	Risk assessment	Low
Suspected cases	4	Source:	eIDSR		
Death(s)	0	District/HFs:	Kinyababa HC/ Butaro DH		
Total cases	4	Geoscope:	Low		

Description

On July 14, 2024, Kinyababa HC received 4 patients (all men) complaining of abdominal pain, headache and back pain. They ate a cow on 08/07/2024 that was slaughtered after it had died of an illness it had for 3 days.

The post-mortem conducted by a veterinary found a plastic bag (ikideyi cy'umufuka) in the stomach and was presumed the cause of death. The attack rate was estimated at 4/70 (5.7%). All cases were managed and became stable, and no deaths recorded

Action Taken

- Case management with oral rehydration and paracetamol.
- Case search in the community

eIDSR REPORTS COMPLETENESS & TIMELINESS EPIDEMIOLOGICAL WEEK 28

In Rwanda, eIDSR reports completeness and timeliness are scored as follow:

- ✚ **Greater or equal to 80%: High,**
- ✚ **Between 60% and 79%: Moderate,**
- ✚ **Less than 60%: Low.**

In the Epi Week 28, the overall completeness and timeliness of disease surveillance data reporting in Rwanda, was scored to 97% and 91%, respectively. With regards to the completeness of surveillance reports, many hospitals had the high score (>80%), except two hospitals that had a moderate score (Rwinkwavu DH and Kibagabaga DH) and three hospitals that had a low score (CARAES Ndera, Kacyiru police hospital and King Faysal Hospital). For the timeliness, seven hospitals had a moderate score (Rwinkwavu DH, Rwamagana PH, Nyamata DH, Kibagabaga DH, Nyarugenge DH, Gahini DH and Butaro DH) and three hospitals had a low score (CARAES Ndera, Kacyiru police hospital and King Faysal Hospital)

Notes: The health facilities that did not have a high score for the completeness and timeliness had been recommended to improve the reporting by submitting weekly surveillance reports not later than Monday before 12:00. Details on completeness and timeliness for all health facilities are shown in the figures below.

Hospital catchment area	Timeliness																												
	W01	W02	W03	W04	W05	W06	W07	W08	W09	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26	W27	W28	
Nyagatare	93	93	100	100	100	93	100	93	100	100	93	86	86	86	86	100	100	79	93	86	100	93	100	71	100	100	93	86	
Gatunda	100	100	100	100	100	100	100	100	100	89	89	100	67	89	100	89	100	89	100	100	100	89	89	100	100	100	100	89	
Ngarama	100	100	100	100	100	100	100	100	100	100	100	88	100	100	100	88	100	100	100	100	100	100	100	100	100	100	100	100	
Kiziguro	100	100	100	100	92	100	100	100	100	100	100	100	100	100	100	100	100	92	100	100	100	100	85	100	100	100	100	100	
Gahini	100	100	100	100	100	100	100	89	100	100	100	89	100	100	100	89	89	100	100	100	100	100	100	78	100	100	100	71	
Rwinkwavu	100	88	100	100	88	100	100	100	100	100	100	100	50	88	88	63	100	100	100	63	100	100	100	75	88	88	100	60	
Kibungo	94	100	100	100	100	100	100	100	100	94	94	94	94	100	94	94	94	100	94	100	94	88	100	100	100	100	94	94	
Kirehe	100	100	100	100	90	100	100	100	100	100	100	100	95	95	90	100	100	95	100	100	95	100	100	95	100	100	90	95	
Rwamagana	83	100	100	94	89	83	94	100	100	94	89	100	83	83	83	100	100	100	83	94	100	94	89	94	94	89	61		
Nyamata	100	100	100	88	94	94	94	94	88	94	94	100	71	94	76	100	100	88	82	82	88	88	88	65	76	76	76	65	
Kinhihira	100	89	89	100	100	100	100	100	100	100	100	100	89	89	89	100	78	100	100	100	89	100	100	100	89	89	100	89	
Rutongo	100	100	87	100	100	100	100	100	100	100	100	100	100	100	100	100	100	93	100	93	100	100	100	100	100	100	100	100	
Gatonde	100	100	100	100	100	100	86	100	100	100	100	100	71	100	100	100	100	100	100	100	86	86	86	86	100	100	100	75	
Butaro	100	95	95	100	90	100	100	100	100	90	100	90	85	90	80	85	95	95	95	90	100	100	100	80	95	95	90	100	
Ruli	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	89	100	100	100	100	89	100	100	100	100	
Nemba	100	100	100	100	100	90	100	100	100	80	100	100	90	100	100	100	100	90	90	100	100	100	100	80	100	100	100	100	
Ruhengeri	94	94	100	94	89	89	100	100	100	100	89	100	94	100	100	94	100	94	100	94	94	100	83	83	100	100	100	94	
Byumba	100	100	100	100	100	100	100	100	96	100	96	100	100	100	96	96	96	100	100	96	100	92	100	100	100	100	95	96	
CHUB	100	100	100	100	100	100	100	100	100	100	100	100	0	100	100	100	0	100	100	100	100	100	100	100	100	100	100	100	
Kabutare	95	100	95	100	95	100	89	100	95	100	95	100	89	95	100	100	95	100	95	95	95	100	89	100	95	95	100	95	
Kabgayi	100	100	92	100	100	100	85	92	100	92	100	77	77	92	100	100	85	100	100	100	100	92	92	92	100	100	92	85	
Kibilizi	100	91	100	100	91	100	100	100	100	100	91	91	100	100	100	100	91	100	100	91	82	100	91	100	100	100	100	100	
Gakoma	83	100	100	100	83	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Gitwe	100	100	89	100	78	78	100	100	78	100	100	100	89	89	100	100	100	89	100	67	100	100	100	89	100	100	100	100	
Ruhango	100	88	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	88	100	100	100	88	100	100	100	88	
Remera																													
Rukoma	100	100	100	93	93	93	100	93	100	100	93	100	73	100	100	93	100	100	93	100	100	80	87	100	100	100	100	93	
Nyanza	95	95	100	100	89	95	95	95	95	89	100	100	100	100	89	100	100	89	100	100	95	95	89	79	95	95	100	100	
Kigeme	100	100	100	100	100	100	100	100	92	100	100	100	92	100	100	100	100	100	100	100	92	92	100	85	100	100	100	92	
Kaduha	100	90	100	100	100	100	100	90	90	100	80	91	100	100	100	90	100	100	100	100	90	90	100	100	90	90	100	100	
Munini	100	100	100	100	100	88	94	100	100	100	100	100	100	100	94	88	100	100	100	100	100	100	88	100	100	100	100	100	
Bushenge	100	100	88	100	88	100	88	88	100	100	88	100	100	75	100	100	100	88	100	75	100	100	100	100	100	100	100	88	
Kibogora	100	100	100	93	100	100	100	100	100	100	100	100	100	100	100	100	100	93	100	100	100	100	100	100	100	100	100	100	
Kibuye	100	100	100	100	100	92	92	100	100	100	92	100	100	85	100	92	100	100	100	100	100	100	85	100	100	100	100	100	
Kirinda	100	100	100	100	100	83	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Mugonero	100	100	100	100	86	100	100	100	86	100	100	100	100	100	100	100	100	100	100	100	86	100	100	100	100	100	100	100	
Shyira	88	100	100	100	88	100	100	100	100	100	100	94	88	94	100	88	94	94	94	100	100	88	94	94	100	100	100	88	
Muhororo	100	100	90	100	100	100	100	100	100	80	100	100	100	90	90	100	100	90	100	100	100	100	100	90	100	100	90	80	
Kabaya	100	100	86	100	100	86	100	86	100	100	100	71	100	100	86	100	100	100	100	100	100	100	100	100	100	100	100	71	100
Gihundwe	100	100	100	100	70	100	100	90	100	100	100	100	100	90	80	100	90	90	90	90	90	100	90	90	100	100	90	100	
Mibilizi	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Gisenyi	94	100	100	94	100	88	100	100	100	100	94	100	100	100	88	100	100	94	100	94	100	94	100	88	94	100	88	94	
Murunda	95	100	100	100	100	95	100	100	95	95	100	100	100	95	100	100	100	100	100	100	95	100	84	95	95	95	100	100	
CHUK	100	0	100	100	100	100	100	100	100	100	100	100	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Nyarugenge	89	89	89	100	100	100	100	100	100	100	100	89	67	100	100	100	100	100	100	100	89	100	100	100	100	100	100	67	
Muhima	100	100	100	100	100	100	100	100	75	100	100	100	50	100	100	75	100	100	100	100	100	75	75	100	100	100	75	100	
RMH	0	100	100	100	0	100	100	100	100	100	100	100	100	100	0	100	100	100	100	100	100	100	100	0	100	100	100	100	
Masaka	92	100	100	100	100	100	100	100	100	100	100	100	100	100	92	100	92	100	100	100	100	100	92	100	100	100	100	100	
Kigababaga	80	95	100	85	100	70	90	95	80	85	90	85	70	65	100	80	95	90	85	85	90	95	70	65	85	85	100	65	
Kacyiru	100	0	100	0	0	0	0	100	0	100	100	0	100	0	100	0	100	0	100	0	100	100	100	0	0	0	100	0	
KFH	0	100	100	100	0	0	0	100	0	0	100	100	0	100	100	100	100	100	100	0	100	100	0	0	100	100	100	0	
Caraes Ndera	0	100	100	0	0	0	0	0	0	0	0	100	0	0	100	100	100	100	100	100	0	100	100	100	100	100	100	0	
Nyabikenke	100	100	100	100	100	100	100	100	100	100	100	100	83	83	100	100	100	100	100	100	100	100	100	100	100	100	83	100	
Rwanda	97	98	98	98	95	95	98	98	97	97	97	97	91	90	95	96	97	96	97	96	97								