



# WEEKLY EPIDEMIOLOGICAL BULLETIN

## WEEK 29– 2024

(15-21 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 29/2024

#### Event Based Surveillance (EBS) Highlights:

- **Alert from community:** twelve alerts: 10 Human Deaths, 2 Dog Bites
- **Alert from EIOS:** two alerts
  - Dengue Fever outbreak spreads to Central region with 36 cases recorded
  - DRC - Ituri: outbreak of skin disease? in the Tobola health area (Mambasa)

#### ● Indicator Based Surveillance (IBS) Highlights:

- 149 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 foodborne illness.
- 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 53 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.

#### ● Sentinel surveillance

- Update on trend of influenza in Rwanda.
- VHF surveillance update

#### ● Outbreaks and events updates in week 29

Foodborne illnesses outbreaks reported in Nyagatare and Huye districts

#### ● Completeness and timeliness

In Epi Week 29, the overall completeness and timeliness of surveillance data reporting in Rwanda was 99% and 97% respectively.

## WEEKLY UPDATES ON EVENT BASED SURVEILLANCE (EBS) EPIDEMIOLOGICAL WEEK 29

**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

- Alerts from community: 12
  - 10 Human Deaths
  - 2 Dog Bite
- Alerts from EIOS: 2

#### 1. Dengue Fever outbreak spreads to Central region with 36 cases recorded

Summary: The Dengue Fever outbreak in Ghana has spread to the Central region with the number of cases increasing to 36 in the last three days. Nine cases were first detected in communities in the Eastern region by health care workers using an appropriate Case Definition on July 14th. The Ghana Health Service (GHS) said only one of the infected persons was admitted and discharged

<https://gphin.canada.ca/cepr/showarticle.jsp?docId=1016844129>

#### 2. DRC - Ituri: outbreak of skin disease? in the Tobola health area (Mambasa)

Summary: A kind of plague epidemic is hitting several rural villages in the Tobola health area, in the Mambasa health zone, in Ituri province. Several dozen villagers have gaping wounds on their bodies, especially on the lower limbs. No medical source has yet commented on this illness, which is more akin to a "bubonic epidemic". The next few hours will be decisive.

<https://flutrackers.com/forum/forum/africa/emerging-diseases-other-health-threats-ah/993578-drc-ituri-outbreak-of-skin-disease-in-the-tobola-health-area-mambasa#post993578>

## 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 29

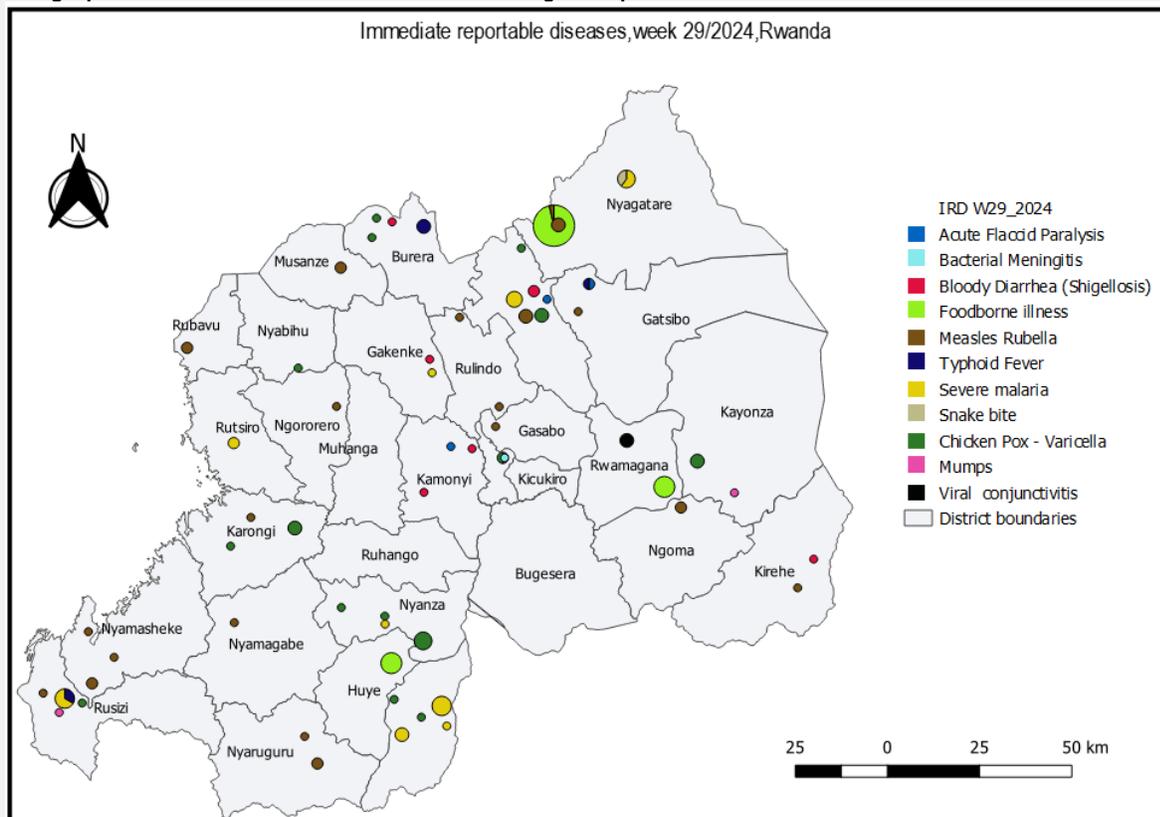
During this Epi week, 149 cases of immediate reportable diseases were notified:

- 28 cases of chicken pox were reported by 17 HFs. No HF crossed the threshold.
- 3 cases of mumps were reported by 3 HCs. No HF crossed the threshold.
- 3 cases of viral conjunctivitis were reported by 1 HC. No HF crossed the threshold.
- 8 suspected cases of bloody diarrhea (Shigellosis) were reported by 7 health facilities. The samples were taken and sent to NRL.
- 29 suspected cases of Measles/Rubella were reported by 20 HCs. Samples were taken and sent to NRL.
- 25 cases of severe malaria were reported by 9 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.
- 6 suspected cases of typhoid fever reported by 3 health facilities. The samples were taken and sent to NRL.
- 2 suspected case of bacterial meningitis were reported by 2 health facilities.
- 40 cases of foodborne illnesses were reported by 3 health facilities.
- 2 cases of snake bite were 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 29/2024**



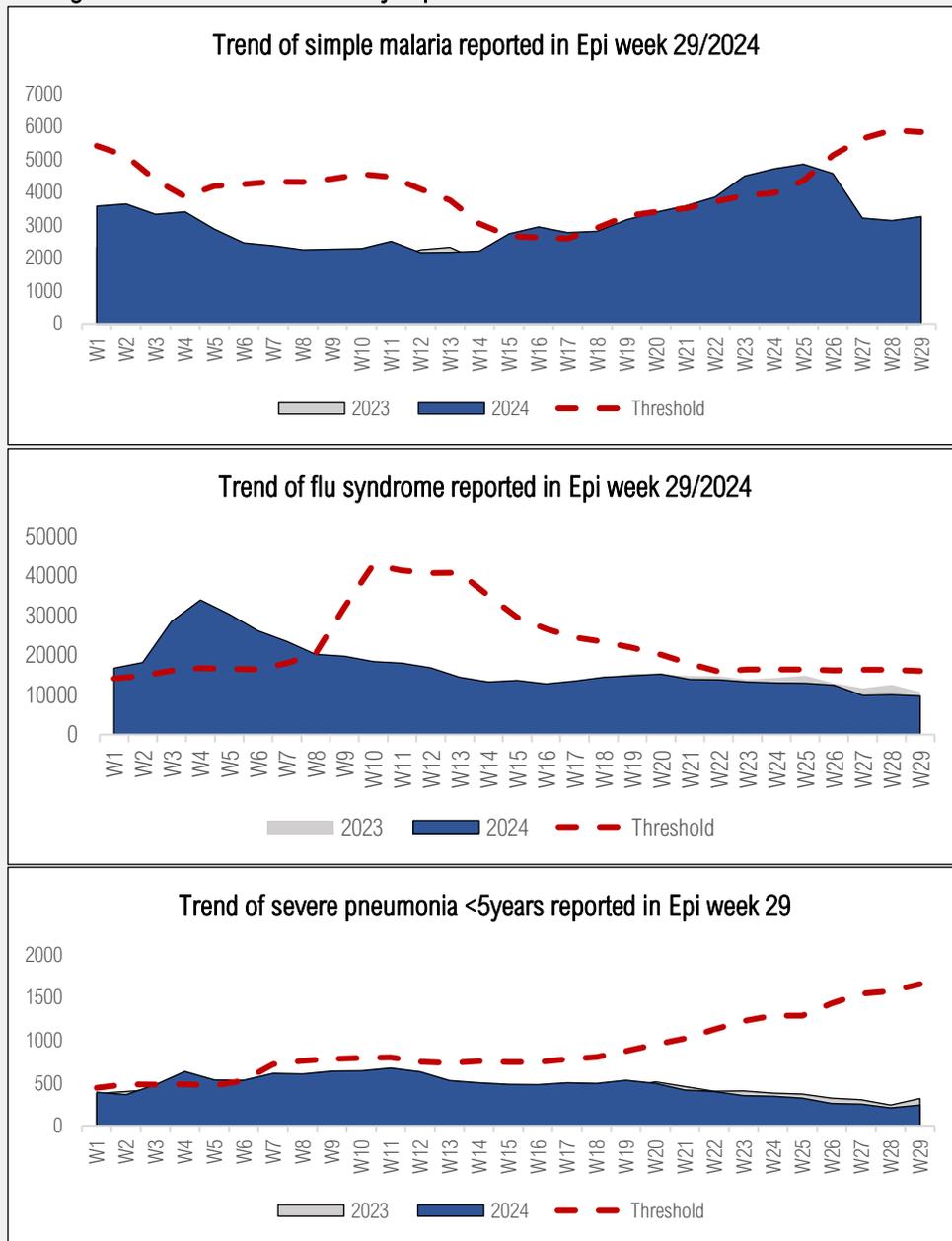
*Distribution of immediate reportable diseases in Epi week 29*

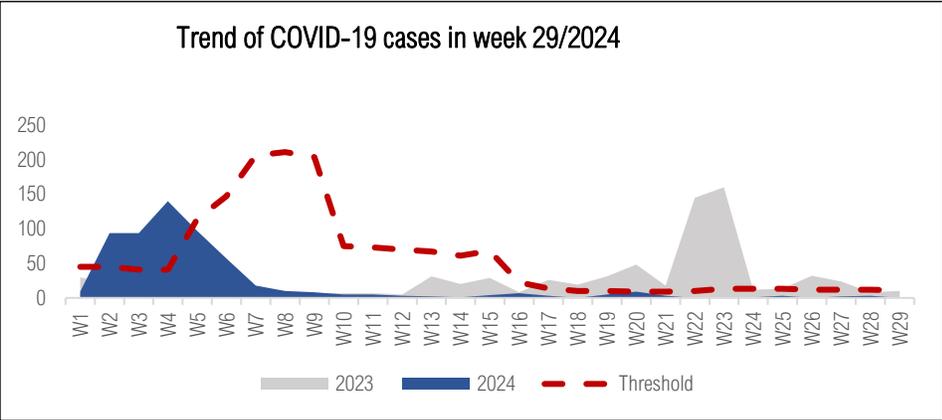
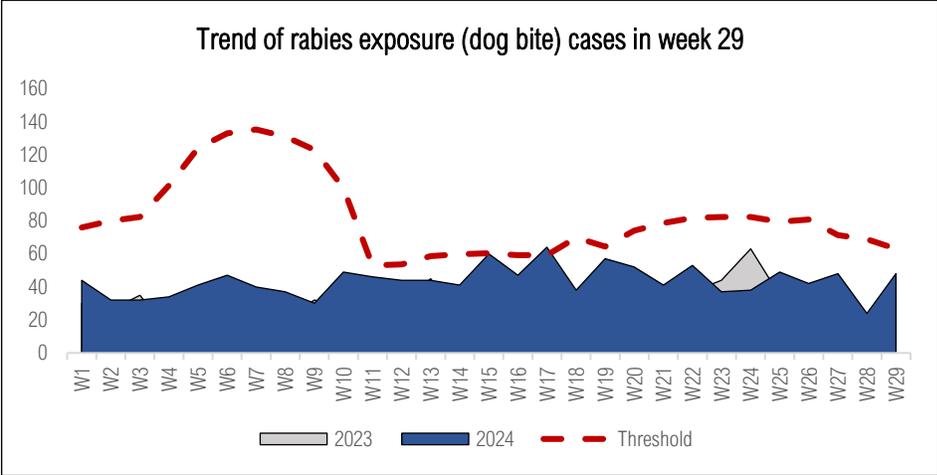
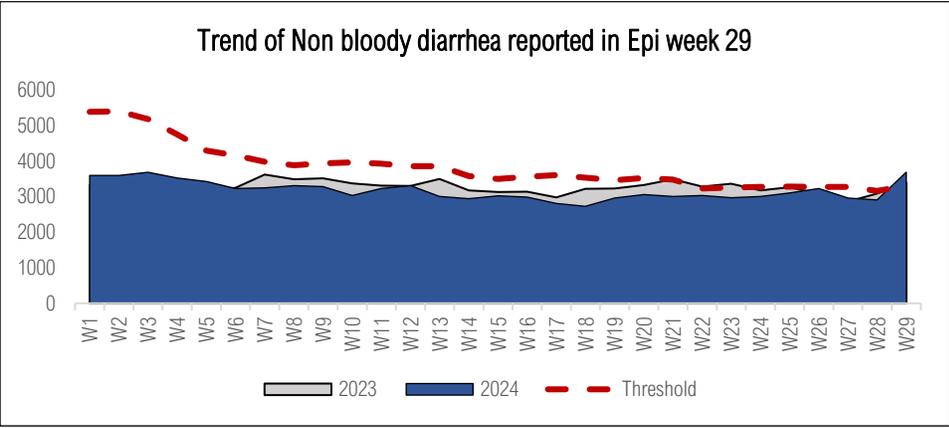
## B. WEEKLY REPORTABLE DISEASES – EPI WEEK 29

**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 29, 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:

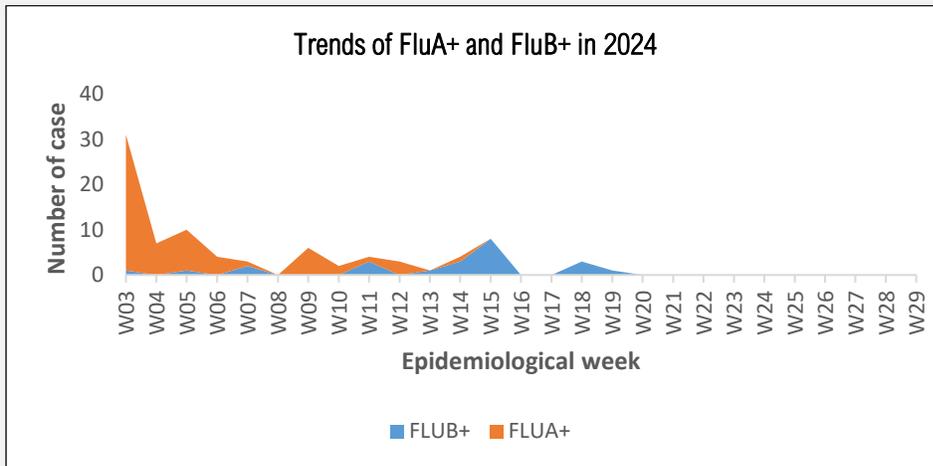




**SENTINEL SURVEILLANCE**

**1. Trend of influenza**

During the 28<sup>th</sup> and 29<sup>th</sup> Epidemiological weeks, **44** samples were collected from sentinel site sites. **(14)** from RUHENGELI RH, **(21)** from GIHUNDWE DH and **(9)** from KIBUNGO RH. Out of the **44** samples received and tested by the National Reference Laboratory (NRL), **all** tested negative for all influenza subtypes, **0** co-infection cases, and **0** positive cases for COVID-19.

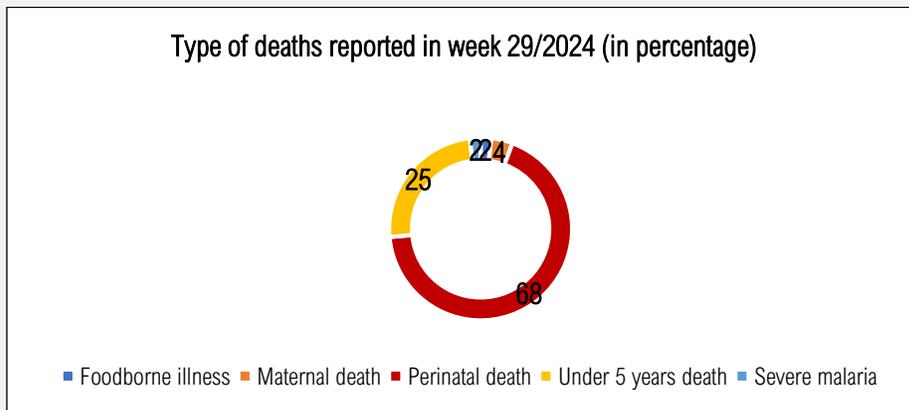


**2. VHF surveillance update**

A VHF active case search was conducted in VHF sentinel sites and RUHENGARI RH, KIBUYE RH, Kibungo RH, GIHUNDWE DH and CHUB tested a total of 130 samples and were negative on Ebola, Dengue and Rift Valley Fever.

**C. DISTRIBUTION OF REPORTED DEATHS IN eIDSR – EPIDEMIOLOGICAL WEEK 29**

As summarized in the Pie Chart below, a total number of 53 deaths were reported through the electronic Integrated Disease Surveillance and Response (eIDSR) system. Among these deaths, 36(68%) were perinatal deaths, 13 (25%) were the deaths of children under 5 years old (including 1 death due to severe pneumonia), 2 (4%) maternal death and 1 death (2%) due to suspected foodborne illness.



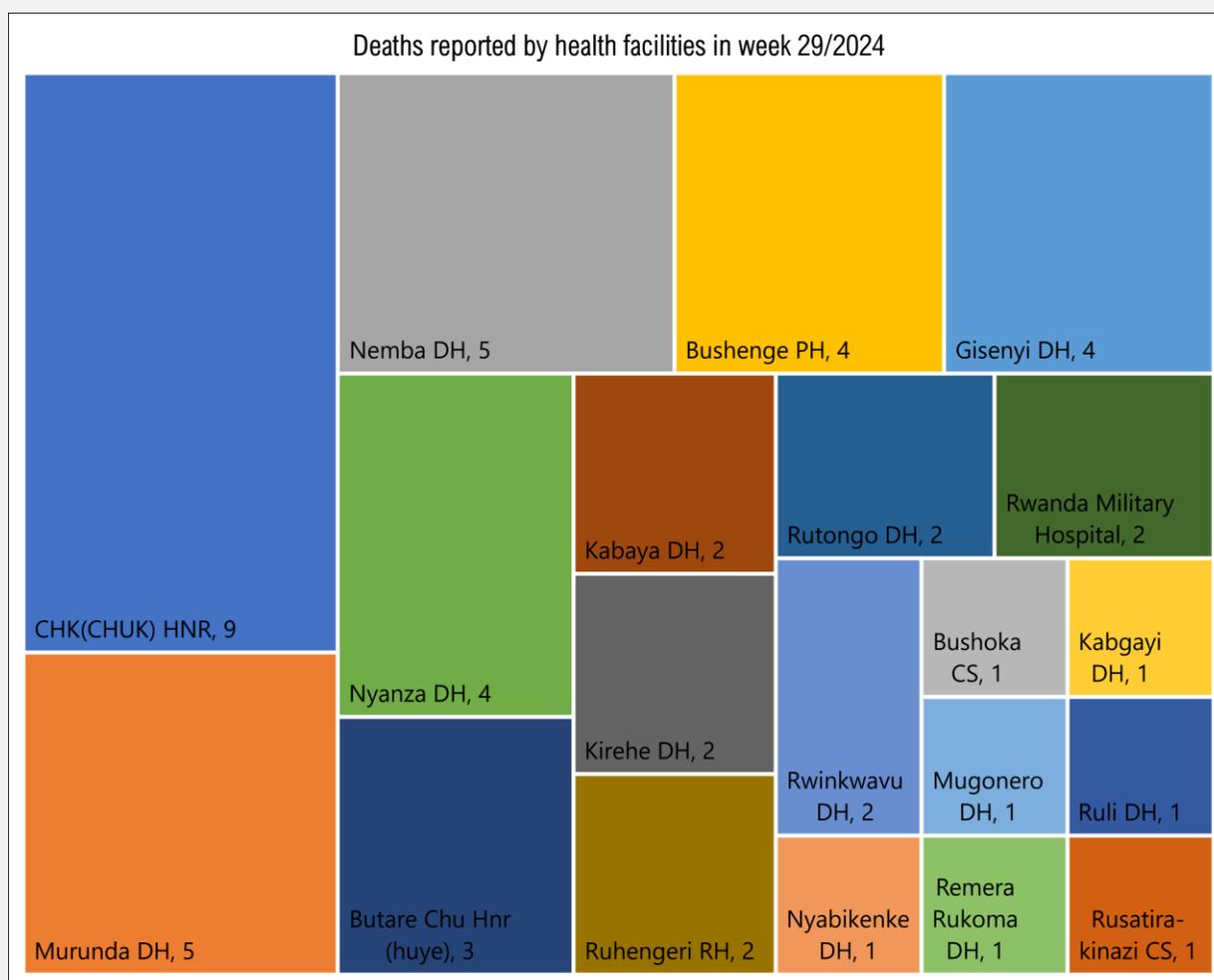
*Cause of deaths declared in epi week 29*

53 deaths were reported from various catchment areas as follow:

- 9 deaths were reported by CHUK (6 under 5 years deaths, 3 perinatal deaths)
- 5 deaths were reported respectively by Murunda DH (4 perinatal deaths and 1 death due to severe malaria) and Nemba DH (all were perinatal deaths)
- 4 deaths were reported respectively by Bushenge PH (all were perinatal deaths), Gisenyi DH (3 perinatal deaths and 1 under 5 years death) and Nyanza DH (2 perinatal deaths and 2 under 5 years deaths)
- 3 deaths were reported by CHUB (all were perinatal deaths)

- respectively by Nemba DH and Rwinkwavu DH (all were perinatal deaths); Kibilizi DH (1 perinatal death and 2 under 5 years deaths) and Rwanda Military Hospital (each one reported
- 2 deaths were reported respectively by Kabaya DH, Rutongo DH and Rwinkwavu DH (each one reported 2 perinatal deaths), Kirehe DH, Ruhengeri RH and Rwanda Military Hospital (each one reported 1 perinatal death and 1 under 5 years death)
- 1 death was reported respectively by Nyabikenke DH, Remera-Rukoma DH, Ruli DH (each one reported 1 perinatal death), Bushoka HC in Nemba DH (1 under 5 years death), Kabgayi DH and Mugonero DH (each one reported 1 maternal death), and Rusatira-Kinazi HC in Kabutare DH (1 death due to foodborne illness)

**Distribution of deaths by health facilities:**



*Distribution of deaths by health facilities in Epi week 29*

## OUTBREAK AND EVENT UPDATES IN EPIDEMIOLOGICAL WEEK 29

### Foodborne illnesses outbreaks reported separately in Nyagatare and Huye districts

#### 1. Foodborne illnesses outbreak reported in Nyagatare district

Confirmed cases	0	Date reported:	July 20, 2024	Risk assessment	Low
Suspected cases	20	Source:	eIDSR		
Death(s)	0	District/HFs:	Cyondo HC/ Nyagatare DH		
Total cases	20	Geoscope:	Low		

#### Description

On July 20, 2024, Cyondo HC received 20 patients complaining of abdominal pain, headache and diarrhea, they consumed sorghum brew(ubushera) in an event held at their neighbor's home on 19th July in Gishoro village, Gihengeri cell, Kiyombe sector. The attack rate was estimated at 20/60 (33.3%). All cases were stable and went under monitoring at Cyondo H and they were discharged. No death recorded.

#### Action Taken:

Case management with oral rehydration and Metronidazole.

#### 2. Foodborne illnesses outbreak reported in Huye district

Confirmed cases	0	Date reported:	July 13, 2024	Risk assessment	Low
Suspected cases	7	Source:	eIDSR		
Death(s)	0	District/HFs:	Kabutare DH		
Total cases	7	Geoscope:	Low		

#### Description

On July 13, 2024, individuals in Buhimba cell, Rusatira Sector, fell ill after consuming meat from a dead cow. Symptoms included abdominal pain, diarrhea, and vomiting. One person died, and another was hospitalized at Kabutare District Hospital. All cases were treated and were stable. The outbreak's recognition was delayed due to the community hiding the meat consumption

#### Action taken

- An investigation has been completed
- Residents were urged to report any similar cases.
- Efforts were being made to educate residents about the dangers of consuming contaminated meat.
- Further information will be shared as it becomes available

## eIDSR REPORTS COMPLETENESS & TIMELINESS EPIDEMIOLOGICAL WEEK 29

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 29, the overall completeness and timeliness of disease surveillance data reporting in Rwanda, was scored to 99% and 97%, respectively. With regards to the completeness of surveillance reports, all hospitals had the high score (>80%), that was to be appreciated. For the timeliness, almost all hospitals had a higher score, except Kacyiru police hospital that had a low score.

**Notes:** The health facility that did not have a high score for the 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	Completeness																														
	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	W29		
Nyagatare	100	100	100	100	100	100	100	100	100	100	93	100	86	100	93	100	100	100	100	100	93	100	93	100	93	100	100	100	93	100	
Galunda	100	100	100	100	100	100	100	100	100	100	89	100	67	100	100	100	100	89	100	100	100	100	89	100	100	100	100	100	100	100	
Ngarama	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	100	100	
Kiziguro	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	92	100	100	100	100	100	100	
Gahini	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	89	100	100	100	
Rwinkwavu	100	100	100	100	100	100	100	100	100	100	100	100	88	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	70	100	
Kibungo	100	100	100	100	100	100	100	100	100	100	94	100	94	100	100	100	100	100	100	100	94	100	100	100	100	100	94	100	100	100	
Kiréhe	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	95	100	100	100	
Rwamagana	94	94	100	100	94	94	100	100	100	100	89	100	94	100	100	100	100	100	100	100	100	100	94	100	100	100	100	100	100	100	
Nyamata	100	88	100	100	94	94	100	100	100	100	94	94	76	94	88	100	100	94	88	88	88	88	88	82	88	94	100	100	94	100	
Kinihira	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	89	100	100	100	89	100	100	100	89	100	
Rutongo	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	100	100	
Gatonde	100	100	100	100	100	100	100	100	100	100	100	100	71	100	100	100	100	100	100	100	100	86	100	100	100	100	100	100	100	100	
Bularo	100	100	100	100	100	100	100	100	100	100	100	100	85	100	100	100	100	100	100	100	95	100	100	100	95	100	100	100	85	100	
Ruli	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	100	100	
Nemba	100	100	100	100	100	100	100	100	100	100	100	100	90	100	100	100	100	90	100	100	100	100	100	100	100	100	100	100	100	100	
Ruhengeri	100	100	100	94	89	89	100	100	100	100	89	100	94	100	100	100	100	94	100	100	94	94	100	100	94	100	100	100	100	94	
Byumba	100	100	100	100	100	100	100	100	96	100	96	100	100	100	96	100	96	100	96	96	96	100	100	100	100	96	85	96	92		
CHUB	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	100	100	
Kabutare	100	100	100	100	95	100	89	100	95	100	95	100	89	100	100	100	100	100	100	100	100	100	100	100	95	100	100	100	95	100	
Kabgayi	100	100	100	100	100	100	100	100	100	100	100	100	85	100	100	100	100	100	100	100	100	100	92	100	100	100	100	100	92	100	
Kibizi	100	100	100	100	100	100	100	100	100	100	91	100	100	100	100	91	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Gakoma	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	100	100	
Gilwe	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	89	100	100	100	100	100	100	100	100	100	100	
Ruhango	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	88	100	100	
Remera																															
Rukoma	100	100	100	100	100	100	100	93	93	100	93	100	80	100	93	100	100	100	100	100	100	100	93	100	100	100	100	100	100	100	
Nyanza	100	95	95	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	95	100	100	89	100	100	100	100	100	100	100	100	
Kigeme	100	100	100	100	100	100	100	100	92	100	100	100	100	100	100	100	100	100	100	100	100	100	100	92	100	100	100	100	92	100	
Kaduha	100	100	100	100	100	100	100	100	100	100	80	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Munini	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	100	100	
Bushenge	100	100	100	100	88	100	100	88	100	100	88	100	100	88	100	100	100	100	100	100	100	100	100	100	100	88	100	100	100	100	
Kibogora	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	93	100	100	100	100	100	100	100	100	100	100	93	
Kibuye	100	100	100	100	100	100	100	100	100	100	92	100	100	100	100	100	100	100	100	100	100	100	92	100	100	100	100	100	100	100	
Kirinda	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	100	100	
Mugonero	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	100	100	
Shyira	88	100	100	100	88	100	100	100	100	100	94	88	100	100	100	100	100	94	100	100	100	94	94	100	100	100	100	100	100	100	
Muhororo	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	100	100	
Kabaya	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	100	100	100
Gihundwe	100	100	100	100	80	100	100	90	100	100	100	100	100	100	90	100	100	100	100	100	100	100	100	100	100	100	100	100	100	90	
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	100	100	
Gisenyi	100	100	100	100	100	88	100	100	100	100	94	100	100	94	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Murunda	95	100	100	100	100	95	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	95	100	100	95	100	100	100	100	100	
CHUK	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	100	100	
Nyarugenge	89	100	100	100	100	100	100	100	100	100	100	100	78	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Muhima	100	100	100	100	100	100	100	100	100	100	100	100	80	100	100	100	100	100	100	100	100	100	75	100	100	100	100	100	100	100	
RMH	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	100	100	100	100	100	100	100	100	0	100	100	100	100	0	100</	

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	W29	
Nyagatare	93	93	100	100	100	93	100	100	93	100	100	86	86	86	86	100	100	79	93	86	100	93	100	71	100	100	100	93	86	93
Gatunda	100	100	100	100	100	100	100	100	100	89	89	100	67	89	100	89	100	89	100	100	100	100	89	89	100	100	100	100	89	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	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	100	85	100	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	100	100
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	100	100
Kibungo	94	100	100	100	100	100	100	100	100	94	94	94	100	94	94	100	94	94	100	94	100	94	88	100	100	100	100	94	94	100
Kirehe	100	100	100	100	90	100	100	100	100	100	100	95	95	90	100	100	95	100	100	95	100	100	100	95	100	100	90	95	95	95
Rwamagana	83	100	100	94	89	83	94	100	100	94	89	100	83	83	83	100	100	100	83	83	94	100	94	89	94	94	89	61	100	100
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	94	100
Kinihira	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	100	100
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	100	100
Gatonde	100	100	100	100	100	100	86	100	100	100	100	100	71	100	100	100	100	100	100	100	100	100	86	86	86	86	100	100	75	100
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	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	100	100
Nemba	100	100	100	100	100	90	100	100	100	80	100	100	90	100	100	100	90	90	100	100	100	100	100	80	100	100	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	94	100
Byumba	100	100	100	100	100	100	100	100	96	100	96	100	100	100	96	96	100	96	100	96	100	92	100	100	100	100	100	95	96	88
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	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	95	95
Kabgayi	100	100	92	100	100	100	85	92	100	92	100	77	77	92	100	100	85	100	100	100	100	100	92	92	92	100	100	92	85	100
Kibilizi	100	91	100	100	91	100	100	100	100	100	91	91	100	100	100	91	100	100	91	82	100	91	100	100	100	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	100	100
Gitwe	100	100	89	100	78	78	100	100	78	100	100	100	89	89	100	100	100	89	100	100	67	100	100	100	89	100	100	100	89	100
Ruhango	100	88	100	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	100
Remera	100	100	100	93	93	93	100	93	100	100	93	100	73	100	93	100	100	100	93	100	100	80	87	100	100	100	100	100	93	100
Nyanza	95	95	100	100	89	95	95	95	95	89	100	100	100	100	89	100	100	89	100	89	100	95	95	89	79	95	95	100	100	100
Kigeme	100	100	100	100	100	100	100	100	92	100	100	100	92	100	100	100	100	100	100	92	92	100	100	85	100	100	100	92	100	100
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	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	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	100	88	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	100	86
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	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	100	100
Mugonero	100	100	100	100	86	100	100	100	86	100	100	100	100	100	100	100	100	100	100	86	100	100	100	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	100	100
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	100	100
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	100
Gihundwe	100	100	100	100	70	100	100	90	100	100	100	100	100	90	80	100	90	90	90	90	100	90	90	90	100	100	100	90	100	90
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	100	100
Gisenyi	94	100	100	94	100	88	100	100	100	100	94	100	100	100	88	100	100	94	100	94	100	100	88	94	100	100	88	94	88	100
Murunda	95	100	100	100	100	95	100	100	95	95	100	100	100	95	100	100	100	100	100	100	100	95	100	84	95	95	95	100	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	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	100	67	100
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	100	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	100	0	100	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	92	100	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	90	100
Kacyiru	100	0	100	0	0	0	0	100	0	100	100	0	100	0	100	0	100	0	0	100	100	100	0	0	0	0	0	0	0	0
KFH	0	100	100	100	0	0	0	100	0	0	100	100	0	0	100	0	100	0	0	100	100	100	0	0						