



## WEEKLY EPIDEMIOLOGICAL BULLETIN

WEEK 09 - 2024

(26 February-03 March 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.

Authors: Public Health Surveillance & Emergency Preparedness and Response Division



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

No alert from community was reported in week 9

#### Alerts identified through the Epidemic Intelligence from Open Source (EIOS): five alerts:

- o An unknown disease kills dozens of children in Rubenga, Idjwi, DRC
- o DRC: with more than 150 deaths, the case fatality rate due to Mpox has almost doubled in 2024.
- Conjunctivitis Epidemic in ANGOLA, (LUANDA)
- More than 2,300 cases of measles recorded in 2 months: Congo central
- Dengue in Yemen

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

- 137 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 and viral conjunctivitis
- For 8 weekly reportable diseases and health events, a thorough analysis conducted for Epi Week 09 revealed that no disease surpassed the epidemic threshold
- A total of 75 deaths were reported through the electronic Integrated Disease Surveillance and Response (eIDSR) system. The majority of deaths were perinatal deaths and deaths of children under 5 years.

#### Outbreaks and events updates in week 09

Two outbreaks were reported:

- 1. Viral conjunctivitis in Kayonza district, Kayonza Vocational Training School
- 2. Ongoing outbreak of conjunctivitis at GS Rwankuba, a boarding school in Gakenke district.

#### Completeness and timeliness

In Epi Week 09, the overall completeness and timeliness of surveillance data reporting in Rwanda was 99% and 97% respectively.



**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

No alert from community reported in week 9

#### **MEDIA SCAN**

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Alert from EIOS: five alerts were detected:

An unknown disease kills dozens of children in Rubenga, Idjwi, DRC

https://flutrackers.com/forum/forum/africa/emerging-diseases-other-health-threats-ah/986418-drc-idjwi-an-unknown-disease-similar-to-malaria-kills-dozens-of-children-in-rubenga-media-report-february-28-2024#post986418

- o DRC: with more than 150 deaths, the case fatality rate due to Mpox has almost doubled in 2024. https://flutrackers.com/forum/africa-ac/monkeypox/984668-drc-mpox-monkeypox-outbreak-2024#post986478
  - Conjunctivitis Epidemic in ANGOLA, (LUANDA)

https://promedmail.org/promed-post/?place=8715154,12461#promedmailmap

More than 2,300 cases of measles recorded in 2 months: Congo central

https://flutrackers.com/forum/forum/emerging-diseases-other-health-threats-alphabetical-a-thru-h/childhood-diseases/measles/984667-drc-measles-outbreak-2024#post986388

Dengue in Yemen

https://fundacionio.com/dengue-en-yemen-2/

## 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 09

During this Epi week, 137 cases of immediate reportable diseases were notified:

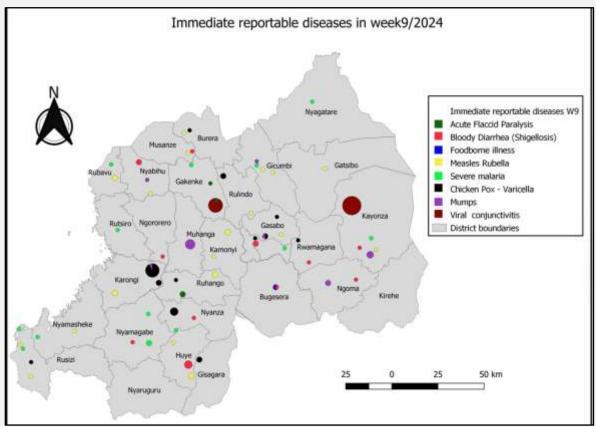
- 28 cases of chicken pox were reported by 12 HFs. Birambo HC (in Kirinda DH) crossed the threshold.
- 15 cases of mumps were reported by 7 HCs. No HF crossed the threshold
- 16 suspected cases of bloody diarrhea (Shigellosis) were reported by 11 health facilities. The samples were taken and sent NRL. For the results of the samples of the previous week, all samples were tested negative for shigellosis and no other pathogens isolated
  - 25 suspected cases of Measles/Rubella were reported by 20 HCs. The samples were taken and sent to NRL.
  - 14 cases of severe malaria were reported by 13 health facilities
  - 4 cases of acute flaccid paralysis were reported by 3 health facility, the samples were taken and sent to NRL for transportation to UVRI laboratory.
  - 34 cases of viral conjunctivitis were unusually reported by 2 health facilities, the cases are described below in the section of outbreak and events update.

#### Notes:

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- All confirmed and suspected cases had been managed at the health facility level.
- The hospitals that had the cases which crossed the thresholds are recommended to conduct the investigation.

#### Geographical distribution of cases:



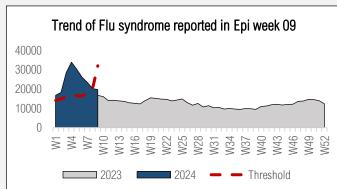
Distribution of immediate reportable diseases in Epi week 09

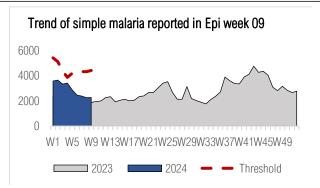


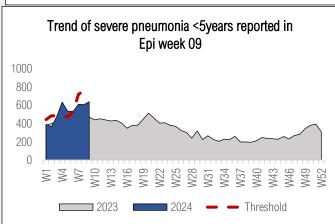
**Description:** In Rwanda, after the adaptation of the IDSR guidelines 3rd edition, eight diseases events are being reported and analyzed on a weekly basis. These include flu syndrome, simple malaria, severe pneumonia for under 5 years, non-bloody diarrhea for under 5 years, COVID-19, dog bites, brucellosis,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

In Epi Week 9, 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 crossed the epidemic thresholds.

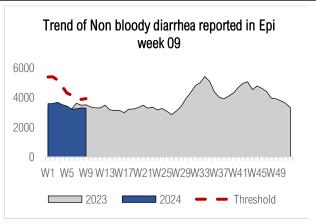
#### The figures below show the weekly reportable diseases trends:

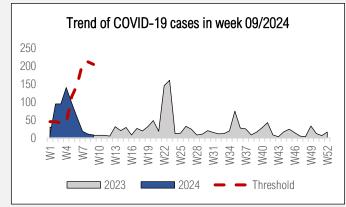


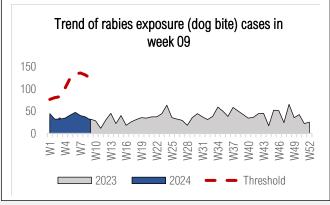




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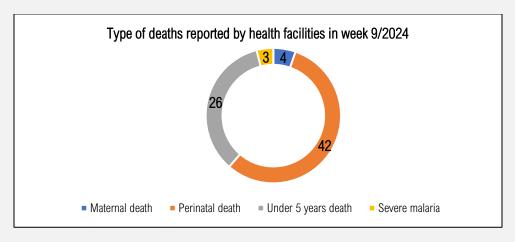






#### DISTRIBUTION OF REPORTED DEATHS IN eIDSR - EPIDEMIOLOGICAL WEEK 09

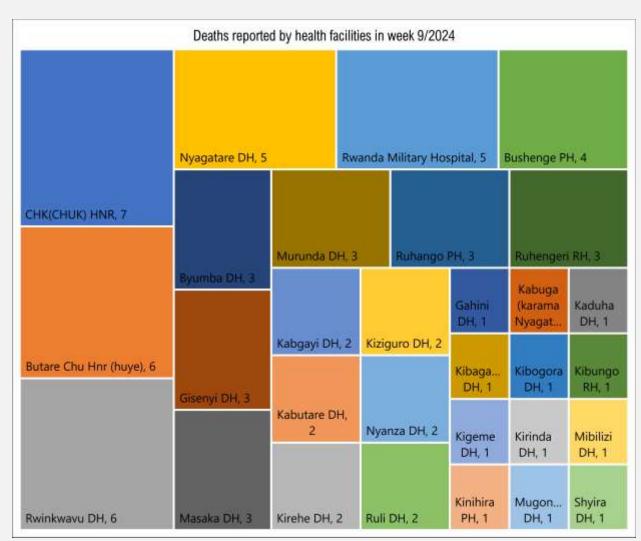
As summarized in the Pie Chart below, a total number of 75 deaths were reported through the electronic Integrated Disease Surveillance and Response (eIDSR) system. Among these deaths, 42 (56%) were perinatal, 26 (35%) were the deaths of children under 5 years old,3 (4%) deaths due to severe malaria, and 4(5%) maternal deaths.



Cause of deaths declared in epi week 09

75 deaths were reported from various catchment areas as follow:

- 7 deaths were reported by CHUK (2 perinatal deaths, 4 under 5 years deaths and 1 maternal death)
- 6 deaths were reported respectively by CHUB (5 perinatal deaths and 1 maternal death) and Rwinkwavu DH (5 perinatal deaths, 1 under 5 years death)
- 5 deaths were reported respectively by Nyagatare DH (5 perinatal deaths) and Rwanda Military Hospital (3 perinatal deaths and 2 under 5 years deaths)
- 4 deaths were reported by Bushenge PH (2 perinatal deaths and 2 under 5 years deaths)
- 3 deaths were reported respectively by Byumba DH (1 perinatal death, 2 under 5 years deaths); Gisenyi DH (2 were perinatal deaths and 1 under 5 years death); Masaka DH (2 perinatal death and 1 death due to severe malaria); Murunda DH (1 perinatal deaths, 1 under 5 years death, and 1 death due to severe malaria); Ruhango PH (1 perinatal death and 2 under 5 years deaths); Ruhangeri RH (2 perinatal deaths and 1 under 5 years death)
- 2 deaths were reported respectively by Kabgayi DH (1 maternal death); Kabutare DH (all were under 5 years deaths); Kirehe DH (1 perinatal deaths); Kiziguro DH, Nyanza DH and Ruli DH (each of them had 1 perinatal death and 1 under 5 years death);
- 1 death was reported respectively by Gahini DH, Kaduha DH, Kibagabaga DH, Kinihira DH, Kirinda DH and Mugonero DH (every health facility reported 1 perinatal death); the following health facilities reported 1 under 5 years death: Kibungo RH, Mibilizi DH, Kibogora DH, Shyira DH and Kabuga HC (in Karama-Nyagatare DH) and 1 death due to severe malaria was reported by Kigeme DH.



Distribution of deaths by health facilities in Epi week 09

### OUTBREAK AND EVENT UPDATES IN EPIDEMIOLOGICAL WEEK 09

#### 1. VIRAL CONJUNCTIVITIS SITUATION IN KAYONZA DISTRICT

C	Confirmed cases	0	Date reported:	February 18, 2024	Risk assessment	Low
S	Suspected cases	191	Source:	elDSR		
С	Death(s)	0	District/HFs:	Rukumberu HC/Kibungo RH		
T	otal cases	191	Geoscope:	Low		

#### Outbreak description:

Since February 18, 2024, students from Kayonza Vocational Training School have been exhibiting symptoms consistent with adenovirus conjunctivitis. On Monday, February 19, 2024, a team of two Ophthalmic Clinical Officers (OCOs) was dispatched from Gahini Hospital to screen students for adenovirus conjunctivitis at Kayonza Vocational School to detect the new eye disease affecting students. They found 114 students. Two days later (on

February 21), an additional 77 students were identified, bringing the total to 191 affected students. Affected students were isolated within the school premises, and the outbreak was successfully contained.

As of Monday 4 March 2024, no new cases have been reported. All cases were reported later in the eIDSR (week 9).

#### Actions Taken:

- -The cases where managed at health center
- -Recommendation to the HC for reporting timely the case detected

# 2. ONGOING OUTBREAK OF CONJUNCTIVITIS AT GAKENKE DISTRICT, RUSHASHI SECTOR, GS RWANKUBA

Confirmed cases	0	Date reported:	February 14, 2024	Risk assessment	Low
Suspected cases	149	Source:	elDSR		
Death(s)	0	District/HFs:	Rwankuba HC/Ruli DH		
Total cases	149	Geoscope:	Low		

#### Outbreak description:

Since, February 14th, 2024, Rwankuba Health Center has received students from GS Rwankuba, a boarding school in Rushashi Sector, Gakenke District. All cases complained of acute red and itchy eyes, and discharge. Potential Index Case: A 17-year-old male, who returned from home (Kigali) on 11/02/2024 with eye complaints. His two sisters had similar symptoms for two days. They study at Kigali Parents' School and reside in Kicukiro, Nyarugunga, Kanombe, Gihanga. The class of the index case (S3B) is the most affected, with 6 out of 17 cases. Differential Diagnosis: Viral conjunctivitis, with bacterial superinfection.

As of Monday 04/03/2024, Rwankuba HC reported 149 cases.

#### **Actions Taken:**

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- Isolation and case management by Ruli District Hospital ophthalmology team, with ocular chloramphenicol and tetracycline
- Education about hand hygiene and avoiding handshaking
- Ruli District Hospital Rapid Response Team (RRT) conducted community education and set up isolation rooms at GS Rwankuba, managed by Rwankuba Health Center nursing staff.

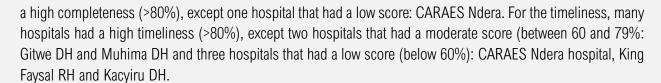
# eIDSR REPORTS COMPLETENESS & TIMELINESS EPIDEMIOLOGICAL WEEK 09

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 09, the overall completeness and timeliness of disease surveillance data reporting in Rwanda was 99% and 97%, respectively. With regards to completeness of surveillance reports, almost all hospitals had







**Notes:** The health facility 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 showed in the figures below.

