

WEEKLY EPIDEMIOLOGICAL BULLETIN

Week 51: 19 -25 Dec 2022

Released on: 29th December 2022



PUBLIC HEALTH SURVEILLANCE & EMERGENCY PREPAREDNESS AND RESPONSE DIVISION

Editorial message

Effective and efficient Integrated Disease Surveillance and Response (IDSR) systems contribute to the reduction of morbidity, disability and mortality from disease outbreaks and health emergencies.

This weekly bulletin presents the epidemiological status of the diseases 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.

Editorial board

Surveillance Unit, Outbreak Preparedness and Response Unit, Food and Waterborne Diseases Unit, Avian Influenza and Highly Pathogenic Diseases Unit, One health Unit

Overview

This Weekly Bulletin focuses on diseases under surveillance in Rwanda. This week's articles cover:

- ☞ Reports completeness
- ☞ Reports timeliness
- ☞ Trend of weekly reportable diseases
- ☞ Distribution of Immediate reportable diseases
- ☞ COVID-19 situation
- ☞ Ebola situation
- ☞ Reported deaths
- ☞ Health facilities with no reports

TREND OF IDSR REPORTS COMPLETENESS

(Previous 10 weeks: Wk42 – Wk51)

OVERALL

RWANDA

Completeness – Wk 51: 77%



Completeness is calculated as the proportion of received reports over expected reports by week in a catchment area

Observation: During this week 51, the overall IDSR reports completeness was 77%, it decreased comparatively with last week 50: 97%. Many DH had a low rate of completeness (between 60 and 79%): Nyagatare, Bushenge, Nyarugenge, Rwinkwavu, Kaduha, and Muhima, others had below 60%: Gatunda, Ruli, Nyanza, Gahini, Kigeme, Butaro, Byumba, Gitwe, Kibagabaga, Rwamagana, Nyamata, Kabutare DHs. while some hospitals did not yet report on Wednesday: CARAES Ndera, CHUB, CHUK, Rwanda military hospital. These hospitals have to report all required reports even during the holidays.

TREND OF IDSR REPORTS TIMELINESS

(Previous 10 weeks: Wk42 – Wk51)

OVERALL

RWANDA

Timeliness – Wk 51: 77%



Observation: During this week 51, the overall IDSR reports timeliness was 77%, it decreased comparatively with last week 50: 94%. Many DH had a low rate of timeliness (between 60 and 79%) : Nyagatare, Bushenge, Nyarugenge, Rwinkwavu, Kaduha, and Muhima, others had below 60%: Gatunda, Ruli, Nyanza, Gahini, Kigeme, Butaro, Byumba, Gitwe, Kibagabaga, Rwamagana, Nyamata, Kabutare DHs, while some hospitals did not yet report on Wednesday: CARAES Ndera, CHUB, CHUK, Rwanda military hospital. These hospitals have to report all required reports on time (on Monday before 12:00) even during the holidays.

Timeliness is calculated as the proportion of received reports on time over the expected reports by week in a catchment area

IDSR WEEKLY REPORTABLE DISEASES - 2022

Non-Bloody Diarrhea cases

Wk01 – Wk51: 239,667

↓ Wk51: 2651

Flu syndrome cases

Wk01 – Wk51: 798,069

↓ Wk51: 13266

Malaria cases

Wk01 – Wk51: 201,917

↓ Wk51: 2196

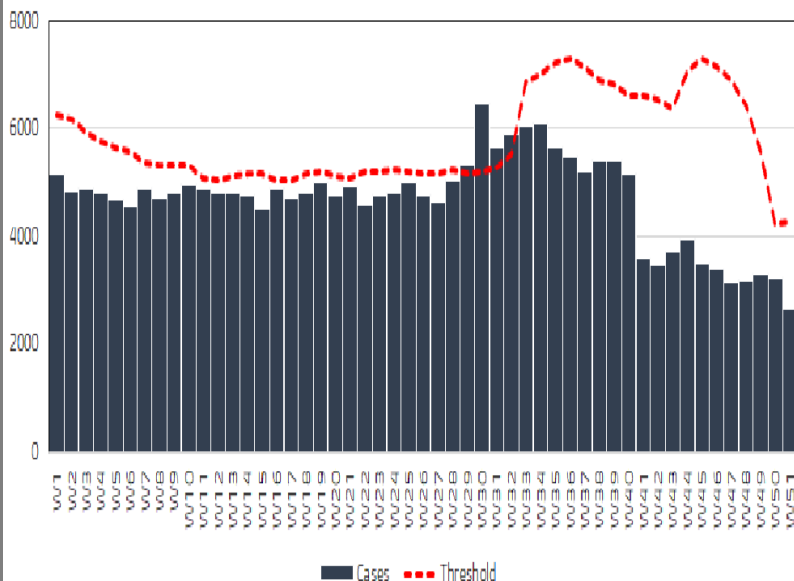
Severe Pneumonia cases

Wk01 – Wk51: 15,582

↓ Wk51: 335

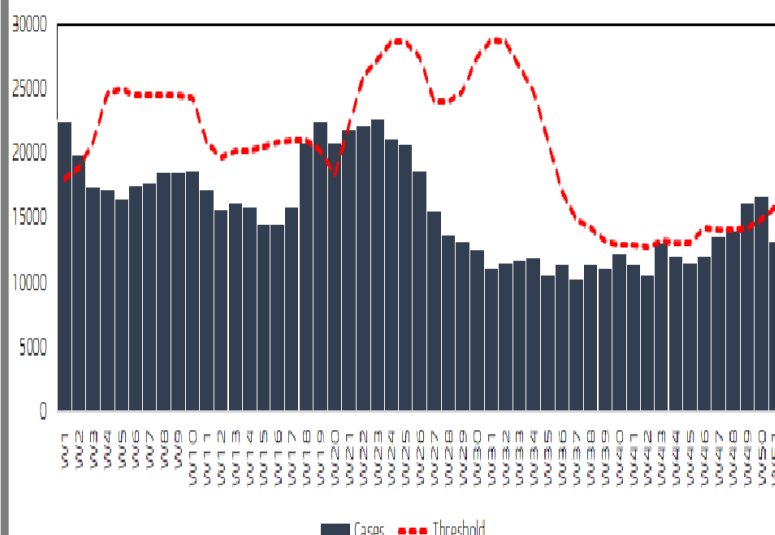
Trend of Non Bloody Diarrhea cases in Rwanda 2022

(Wk1 - Wk51)



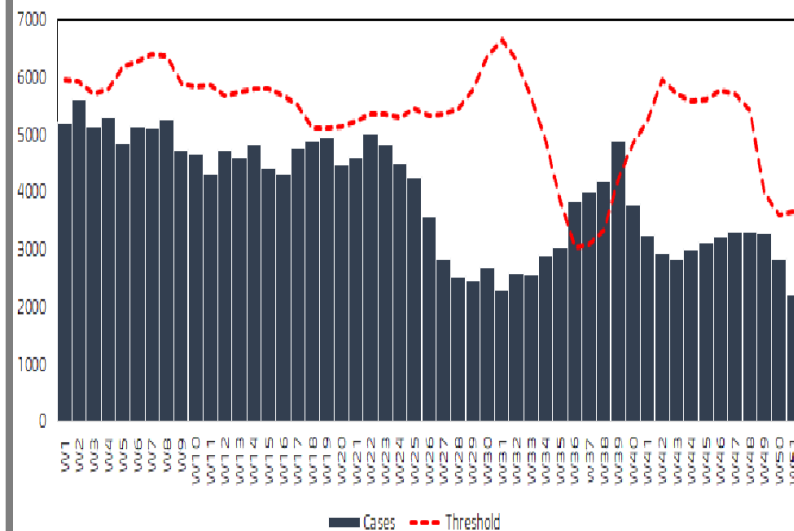
Trend of Flu syndrome cases in Rwanda 2022

(Wk1 - Wk51)



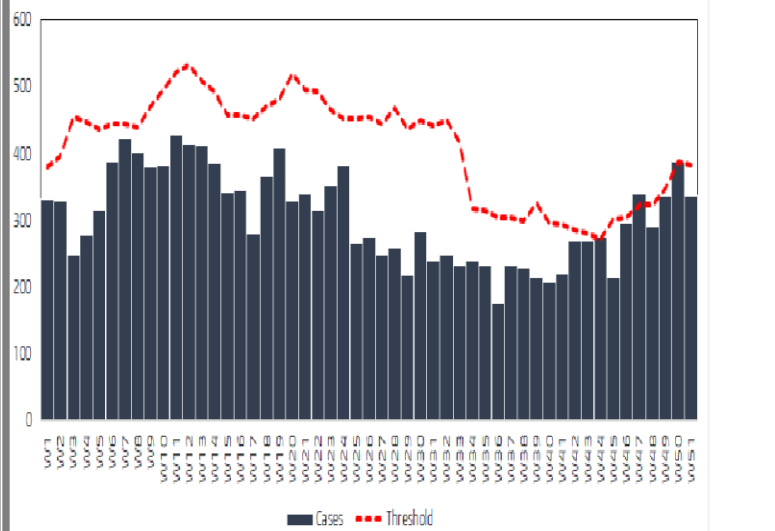
Trend of Malaria cases in Rwanda 2022

(Wk1 - Wk51)



Trend of Severe pneumonia cases in Rwanda 2022

(Wk1 - Wk51)



IDSR WEEKLY REPORTABLE DISEASES -Week 51 2022

Covid19 confirmed cases:

Wk 42-51:504

Wk 51: 55 cases

Rabies exposure (Dog or other mammals bite) cases:

Wk 42-51: 277

Wk 51: 14 cases

Brucellosis cases

Wk 42-51:1 case



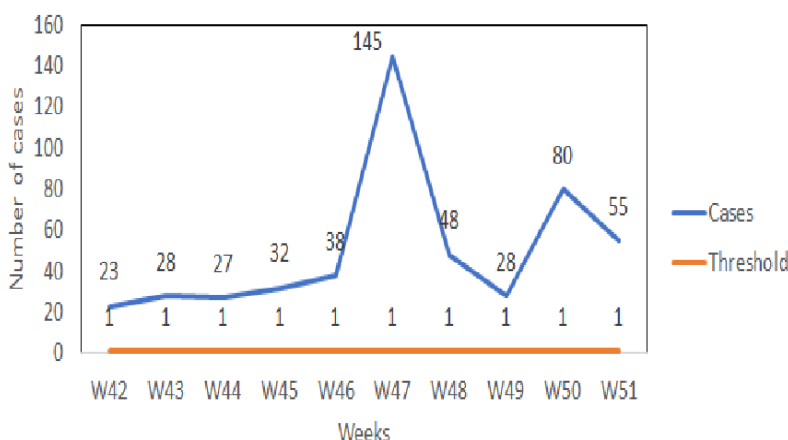
Wk 51:0 case

Other weekly reportable diseases:

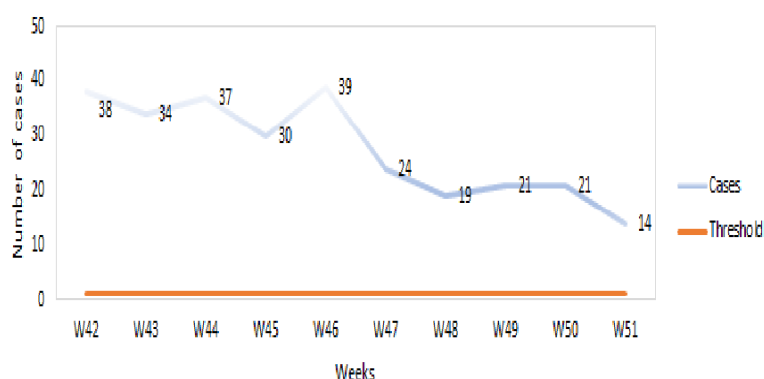
Trypanosomiasis

no case

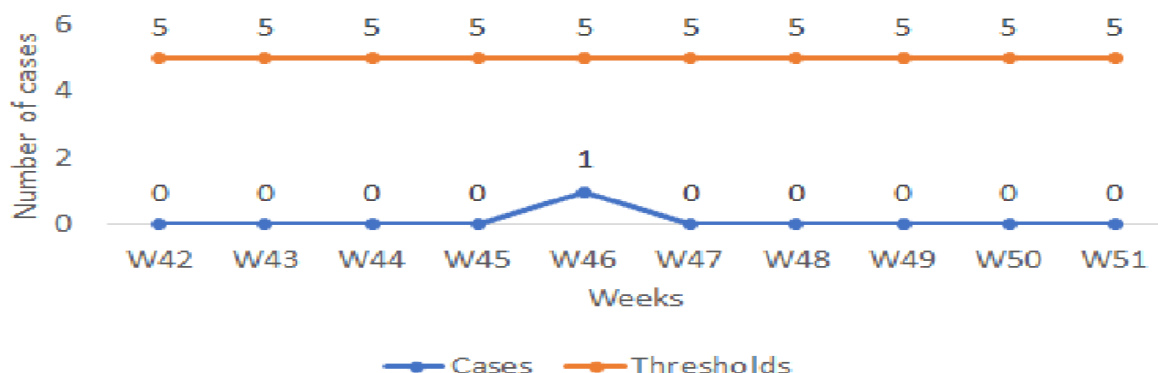
Covid19 confirmed cases in Rwanda 2022
(Wk 42-51)



Rabies exposure cases in Rwanda 2022
(Wk 42-51)



Trend of Brucellosis cases in Rwanda 2022
(Wk42 - Wk51)



From week 42, IDSR weekly report form revised and adapted on technical guideline 3rd edition was adapted also in DHIS-2, therefore many changes occurred.

In week 51, for 8 weekly reportable diseases, data analysis showed that Covid19cases and Rabies exposure crossed the thresholds, even if the number of cases decreased, while other diseases did not cross the thresholds. Further investigations are needed.

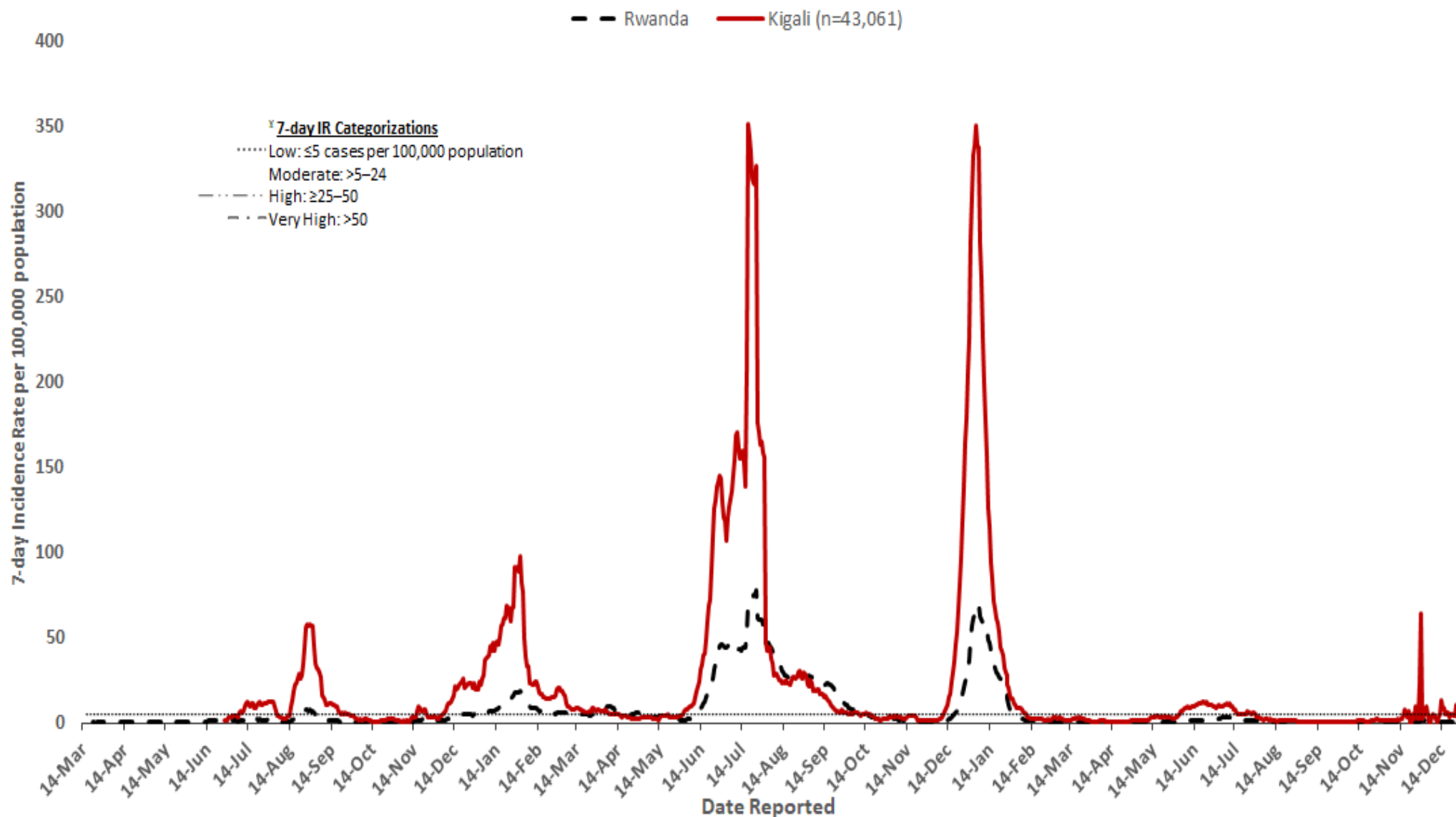
IDSR IMMEDIATE REPORTABLE DISEASES – Wk51

Health facility	Bloody Diarrhea (Shigellosis)	Measles	Typhoid Fever	Severe malaria
Biryogo CS	2	0	0	0
Crete Congo Nil CS	0	1	0	0
Gakoma CS	1	0	0	0
Gitwe CS	2	0	0	0
Kamubuga CS	0	1	0	0
Kinini CS	0	1	0	0
Masaka CS	0	1	0	0
Murunda DH	0	0	0	3
Mushubati CS	0	0	0	1
Nyanza Prison	1	0	0	0
Ruhuha CS	0	2	0	0
Rwanda Military Hospital	0	3	1	1
Shyogwe CS	2	0	0	0
Simbi CS	0	1	0	0
Total	8	10	1	5

Observation: During week 51, the reported IDSR immediate reportable diseases were Bloody diarrhea, Measles, Typhoid fever and Severe Malaria

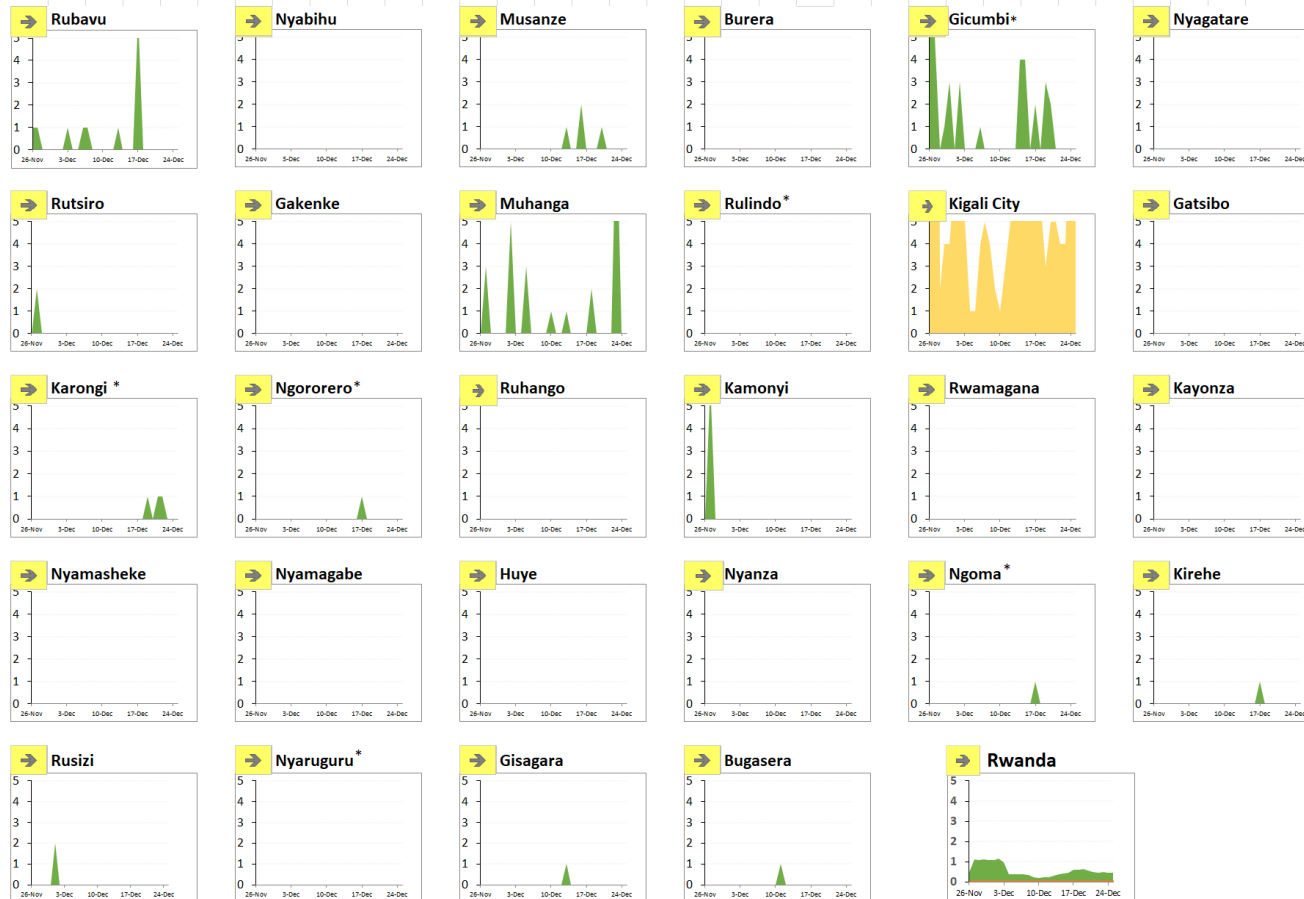
TREND OF 7-DAY INCIDENCE RATE OF COVID-19

COVID-19 Incidence Rate (IR) in Kigali City and Rwanda, March 14, 2020–December 25, 2022



TREND OF INCIDENCE RATE OF COVID-19 BY DISTRICTS

COVID-19 Cumulative 7-day (December 19–December 25) Incidence Rate (IR) and Trend (week-to-week % change) in Rwanda, November 26–December 25 (30 days), 2022

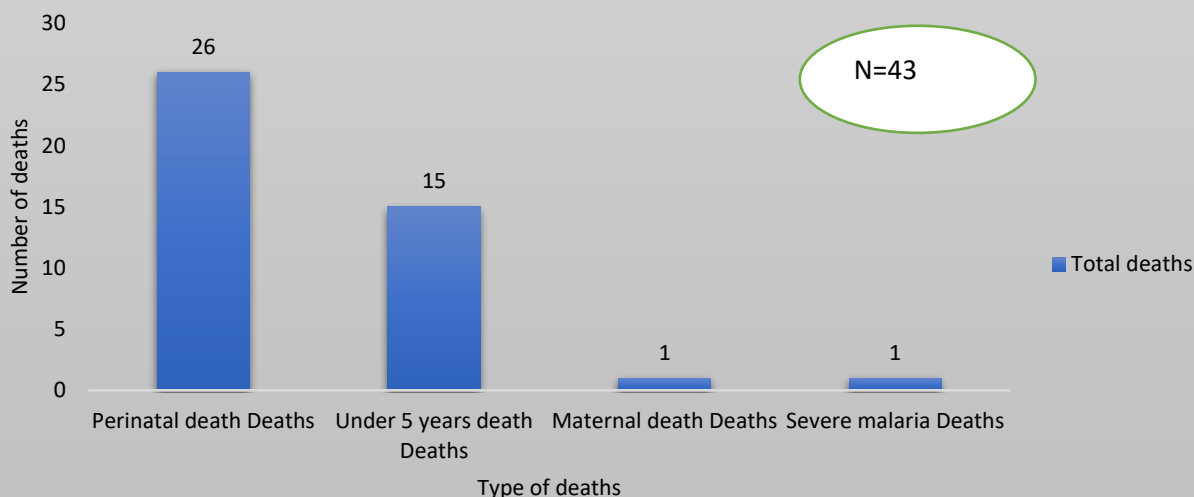


		Distribution of Districts	
Incidence rate in the last 7 days per 100,000		No.	%
Low:			
≤5 cases		30	100%
Moderate:			
5–24 cases		0	0%
High:			
≥25–50 cases		0	0%
Very High:			
>50 cases		0	0%
Percentage change in cases in last 7 days vs previous 7 days			
Decrease:			
≤ -10% change	↓	5	17%
Stable:			
> -10% change and <10% change	→	25	83%
Increase:			
≥10% change	↑	0	0%

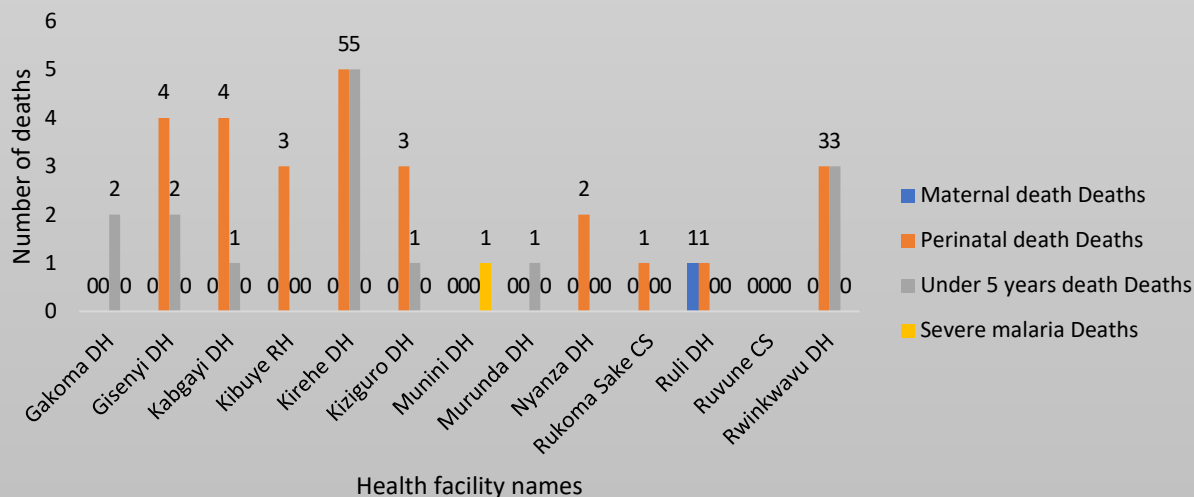
Observation: During the week 51, The overall incidence rate of Rwanda was 0.4 case per 100,000 population (it decreased compared with previous week: 0.5 cases per 100,000 population in week 50). Kigali City and Muhanga district presented a very highest incidence rate, Karongi, Gicumbi and Musanze districts presented also the cases, while other districts did not have cases for that week.

SUMMARY OF REPORTED DEATHS THROUGH e-IDSr (Wk 51)

Deaths occurred in week 51/2022 in Rwanda



Deaths occurred in week 51/2022 by health facility



In week 51, perinatal deaths had a highest number (26), especially in Kirehe DH (5 perinatal deaths), 15 deaths of under 5 years, 1 maternal death and 1 death due to severe malaria. The death audit should be conducted in health facilities for determining the cause of those deaths and elaborate recommendations for reducing those which should be preventable.

HEALTH FACILITIES WITH NO REPORTS RECEIVED IN e-IDSR FOR Wk 51

Province	District	DHs	HFs
Kigali City	Gasabo	Kibagabaga	Avega Kigali CS
Kigali City	Gasabo	Kibagabaga	Bumbogo (ex-Gikomero I) CS
Kigali City	Gasabo	Kibagabaga	Caraes Ndera Hnr
Kigali City	Gasabo	Kibagabaga	Remera CS (Gasabo) CS
Kigali City	Gasabo	Kibagabaga	Kabuye CS
Kigali City	Gasabo	Kibagabaga	Kacyiru CS
Kigali City	Gasabo	Kibagabaga	Kacyiru DH
Kigali City	Gasabo	Kibagabaga	Kibagabaga DH
Kigali City	Gasabo	Kibagabaga	King Faisal Hospital HNR
Kigali City	Gasabo	Kibagabaga	Kinyinya CS
Kigali City	Gasabo	Kibagabaga	Nyacyonga CS
Kigali City	Nyarugenge	Nyarugenge	CHK(CHUK) HNR
Kigali City	Nyarugenge	Nyarugenge	Nyarugenge Prison
Kigali City	Nyarugenge	Muhima	Muhima DH
Kigali City	Kicukiro	Masaka	Rwanda Military Hospital
East	Nyagatare	Nyagatare	Bugaragara CS
East	Bugesera	Nyamata	Bugesera Prison
East	Kayanza	Rwinkwavu	Cyarubare CS
East	Kayanza	Gahini	Gahini DH
East	Bugesera	Nyamata	Gashora CS
East	Bugesera	Nyamata	Gihinga CS
East	Rwamagana	Rwamagana	Gishari(Police) CS
East	Kayanza	Rwinkwavu	Kabarondo (kayanza) CS
East	Nyagatare	Gatunda	Kabuga (karama Nyagatare) CS
East	Rwamagana	Rwamagana	Karenge CS
East	Nyagatare	Gatunda	Katabagemu CS
East	Bugesera	Nyamata	Maraba CS
East	Nyagatare	Gatunda	Mayange (bugesera) CS
East	Kayanza	Gahini	Mimuri CS
East	Rwamagana	Rwamagana	Mukarange CS
East	Rwamagana	Rwamagana	Munyiginya CS
East	Bugesera	Nyamata	Musha (rwamagana) CS
East	Bugesera	Nyamata	Namaka CS
East	Kirehe	Nyamata	Ntaraka CS
East	Nyagatare	Kirehe	Ntaruka (nasho Kirehe) CS
East	Rwamagana	Nyagatare	Ntoma CS
East	Nyagatare	Rwamagana	Nyagasambu CS
East	Kayanza	Nyagatare	Nyagatare CS
East	Bugesera	Gahini	Nyakabungo CS
East	Kirehe	Nyamata	Nyamata DH
East	Bugesera	Kirehe	Nyarubuye (kirehe) CS
East	Nyagatare	Nyamata	Nyarugenge CS
East	Rwamagana	Gatunda	Nyarurema CS
East	Rwamagana	Rwamagana	Nzige CS
East	Rwamagana	Rwamagana	Rubona (rwamagana) CS
East	Rwamagana	Rwamagana	Ruhunda CS
East	Ngoma	Kibungo	Rukoma Sake CS
East	Kirehe	Gahini	Rusumo CS
East	Rwamagana	Rwamagana	Rutare (kayanza) CS
East	Rwamagana	Rwamagana	Rwamagana PH
East	Nyagatare	Nyagatare	Rwamagana Prison
North	Musanze	Ruhengeri	Rwempasha CS
North	Burera	Butaro	Bisate CS
North	Burera	Butaro	Bungwe (burera) CS
North	Gicumbi	Byumba	Butaro DH
North	Gakenke	Ruli	Byumba DH
North	Burera	Butaro	Coko (ruli) CS
North	Burera	Butaro	Gatebe CS
North	Musanze	Ruhengeri	Gitare CS
North	Burera	Butaro	Kimonyi CS
North	Burera	Butaro	Kinoni CS
North	Rulindo	Butaro	Kinyababa CS
North	Gakenke	Rutongo	Kiyanza CS
North	Gakenke	Ruli	Minazi CS
North	Musanze	Ruhengeri	Muhondo (gakenke) CS
North	Burera	Butaro	Nyakinama CS
North	Gakenke	Ruli	Ruhunde CS
North	Gakenke	Ruli	Ruli DH
North	Burera	Butaro	Rusasa CS
North	Gakenke	Ruli	Rushashi CS
North	Burera	Butaro	Rwerere CS
North	Rulindo	Kinshira	Tare CS
South	Nyanza	Nyanza	Busoro CS
South	Huye	Kabutare	Butare Chu Hnr (huye)
South	Ruhango	Gitwe	Byimana CS
South	Huye	Kabutare	CIUSP Butare CS
South	Muhanga	Kabagayi	Gikomero (Kabagayi) CS
South	Ruhango	Gitwe	Gitwe DH
South	Nyanza	Nyanza	Hanika I (NYANZA) CS
South	Huye	Kabutare	Huye Police CS
South	Nyamagabe	Kabutare	Huye Prison
South	Gisagara	Kaduha	Kaduha CS
South	Gisagara	Kibilizi	Kansi CS
South	Nyamagabe	Kibilizi	Kibilizi DH
South	Nyamagabe	Kigeme	Kibirizi (Nyamagabe) CS
South	Nyamagabe	Kaduha	Kibumbwe CS
South	Nyamagabe	Kigeme	Kigeme CS
South	Nyamagabe	Kigeme	Kigeme DH
South	Nyamagabe	Kigeme	Kigeme Refugee Camp HC
South	Kamonyi	Remera Rukoma	Kigese CS
South	Ruhango	Ruhango	Kigoma CS
South	Nyanza	Nyanza	Kirambi CS
South	Nyamagabe	Kigeme	Kitabi CS
South	Nyanza	Nyanza	Mucubira CS
South	Ruhango	Gitwe	Munanira CS
South	Nyamagabe	Kaduha	Mushubi CS
South	Nyanza	Nyanza	Mututu CS
South	Ruhango	Gitwe	Mwendo (Gitwe) CS
South	Nyamagabe	Kigeme	Ngara CS
South	Nyanza	Nyanza	Niyazo CS
South	Muhanga	Nyabikenke	Nyabinoni CS
South	Nyanza	Nyanza	Nyabinyenga CS
South	Nyamagabe	Kigeme	Nyamagabe CS
South	Nyamagabe	Kigeme	Nyamagabe Prison
South	Nyanza	Nyanza	Nyamiyaga (Nyanza) CS
South	Nyanza	Nyanza	Nyamure CS
South	Nyanza	Nyanza	Nyanza Prison
South	Nyamagabe	Nyanza	Nyarusange (nyanza) CS
South	Huye	Kabutare	Nyarwungo CS
South	Huye	Kabutare	Rubona (huye) CS
South	Nyanza	Nyanza	Ruhashya CS
South	Huye	Kabutare	Rusatira-kinazi CS
South	Nyanza	Nyanza	Ruyenzi CS
South	Huye	Kabutare	Rwaniro CS
South	Gisagara	Gakoma	Save CS
South	Huye	Kabutare	Simbi CS
South	Nyamagabe	Kabutare	Sovu (Huye) CS
West	Nyamagabe	Kigeme	Uwinkingi CS
West	Nyamagabe	Bushenge	Bushenge PH
West	Rutsiro	Murunda	Cyimbili CS
West	Nyamagabe	Bushenge	Kamonyi (ruharambuga) CS
West	Karongi	Kibuye	Karongi (gisanzu) Police CS
West	Nyamagabe	Kibuye	Mahembe CS
West	Rusizi	Mibilizi	Mashesha CS
West	Rusizi	Gihundwe	Mont Cyangugu CS
West	Rusizi	Gihundwe	Nkombo CS
West	Rusizi	Mibilizi	Nyabitimbo CS
West	Ngororero	Kabaya	Kabaya (ngororero) CS
West	Karongi	Kibuye	Rubengera CS

TRUE EVENTS REPORTED IN COMMUNITY BASED SURVEILLANCE(e-CBS) IN e-IDSR FOR Wk 51

Event date	Village	CEB Event trigger	Sex	Age in years
12/21/2022	Nyagisa	Human death	Female	52
12/24/2022	Nyamuraza	Human death	Male	3

The events reported and verified were 2 human deaths, respectively with 52 and 3 years old, the verbal autopsy for the deaths will be conducted.