

WEEKLY EPIDEMIOLOGICAL BULLETIN

Week 03: 16th to 22nd Jan 2023

Released on: 26th January 2023

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
- ☞ Reported deaths
- ☞ Events reported in electronic community-based surveillance (e-CBS)
- ☞ Health facilities with no reports

TREND OF IDSR REPORTS COMPLETENESS

(Previous 10 weeks: Wk 46/2022 – Wk 03/2023)

OVERALL

RWANDA

Completeness – Wk 03/2023: 98%



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

Observation: During this week 03/2023, the overall IDSR reports completeness was 98%. No Hospital had a low rate completeness under 80%, that was to be appreciated and continue in the same way.

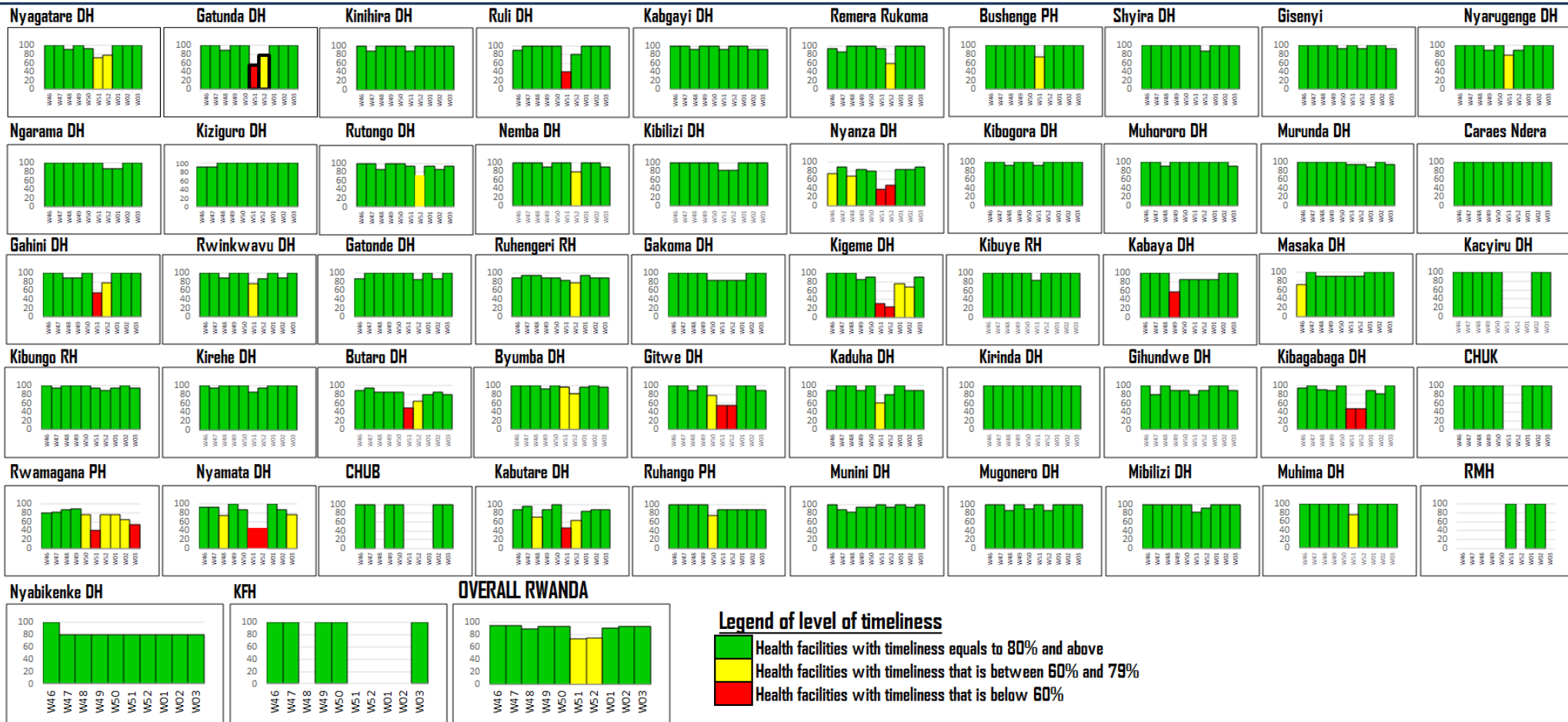
TREND OF IDSR REPORTS TIMELINESS

(Previous 10 weeks: Wk46/2022 – Wk03/2023)

OVERALL

RWANDA

Timeliness – Wk 03/2023: 93%



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

Observation: During this week 03/2023, the overall IDSR reports timeliness was 93%. However, some District Hospital had a low rate of timeliness (between 60% and 79%): Nyamata DH and below 60 %: Rwamagana PH and Rwanda Military Hospital. These hospitals have to report all required reports on time (on Monday before 12:00).

IDSR WEEKLY REPORTABLE DISEASES – week46/2022 to week 03/2023

Non-Bloody Diarrhea cases
Wk46/2022 – Wk03/2023:

31,723



Wk03: 3,515

Flu syndrome cases

Wk46/2022 –

Wk03/2023: 142,510



Wk03: 15,456

Malaria cases

Wk46/2022 –

Wk03/2023: 27,201

Wk03: 2,288

Severe Pneumonia cases

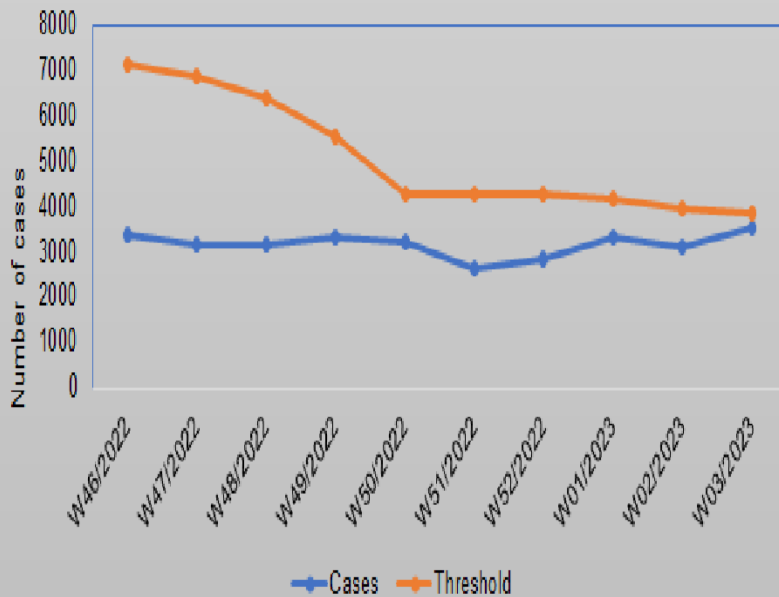
Wk46/2022 – Wk03/2023:

3,508

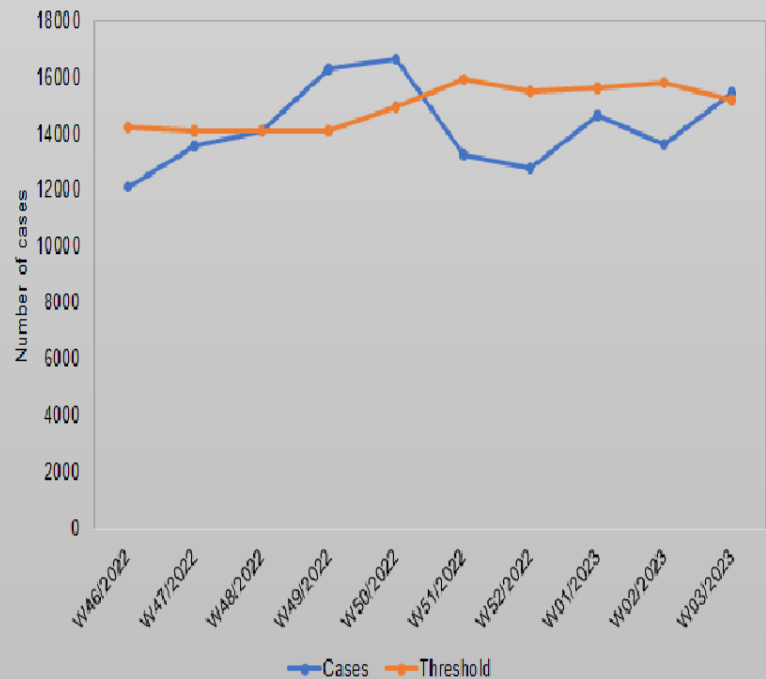


Wk03: 423

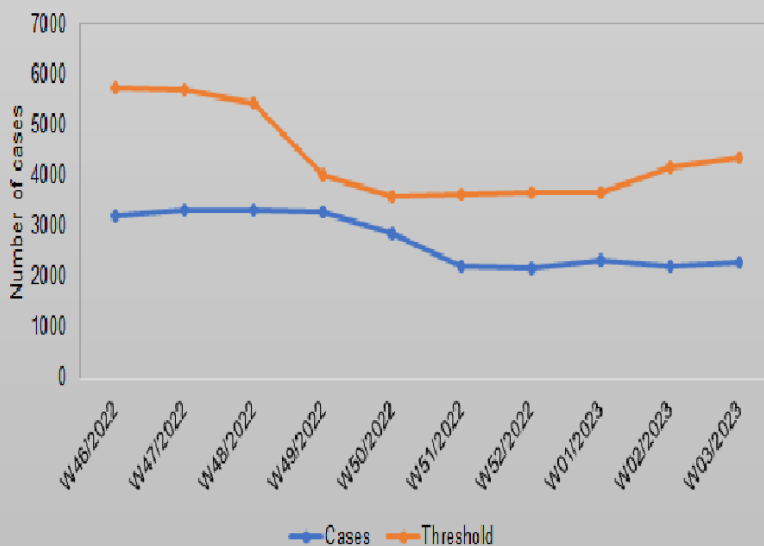
Trend of Non Bloody Diarrhea cases for under 5 years old in Rwanda
(Wk46/2022 - Wk03/2023)



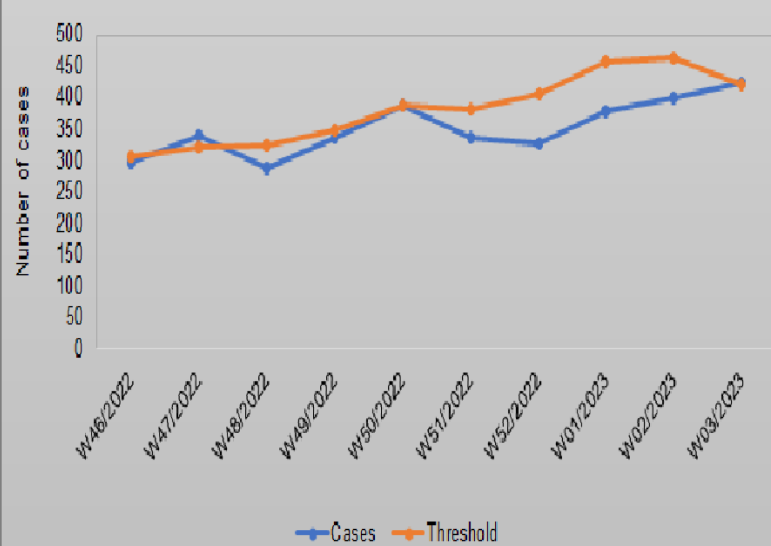
Trend of Flu syndrome cases in Rwanda (Wk46/2022 - Wk03/2023)



Trend of Malaria cases in Rwanda
(Wk46/2022 - Wk03/2023)



Trend of Severe Pneumonia cases in Rwanda
(Wk45/2022 - Wk02/2023)



IDSR WEEKLY REPORTABLE DISEASES -Week 46/2022 to Week 03/2023

Rabies exposure (Dog or other mammals bite) cases:

Wk46/2022 – Wk03/2023: 252



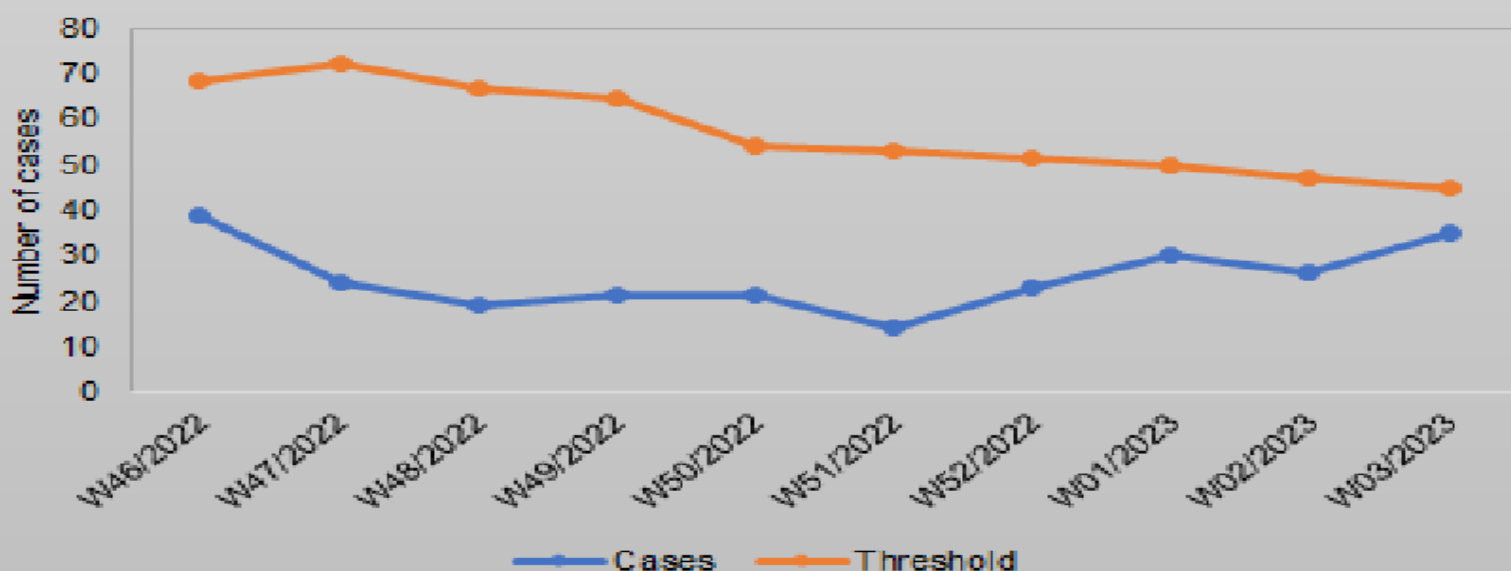
Wk03:35

Other weekly reportable diseases:

Trypanosomiasis and Brucellosis

no case

Rabies exposure cases in Rwanda 2022
(Wk 3: from wk 46/2022 to 03/2023)



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 03/2023, for 8 weekly reportable diseases, data analysis showed that Flu syndrome and severe pneumonia crossed the thresholds, the number of cases increased for non-bloody diarrhea and rabies exposure. Brucellosis and Trypanosomiasis had not any case to report.

Further investigation should be conducted for the cases that increased.

IDSR IMMEDIATE REPORTABLE DISEASES

Week 03/2023

Health Facilities	Diarrhea (Shigellosis)	Measles	Neonatal tetanus	Typhoid Fever	Severe malaria
Birambo CS	1	0	0	0	0
Biryogo CS	1	0	0	0	0
Gakoma CS	1	0	0	0	0
Gisenyi DH	0	0	1	0	0
Gishubi CS	1	0	0	0	0
Kamabuye CS	0	1	0	0	0
Kayumbu CS	3	0	0	0	0
Kizibere CS	0	1	0	0	0
Masaka CS	0	1	0	0	0
Mbuga CS	2	0	0	0	0
Muhororo CS	0	1	0	0	0
Mukono CS	1	0	0	0	0
Ruhuha CS	0	2	0	0	0
Rwanda Military Hospital	0	0	0	4	2
Total	10	6	1	4	2

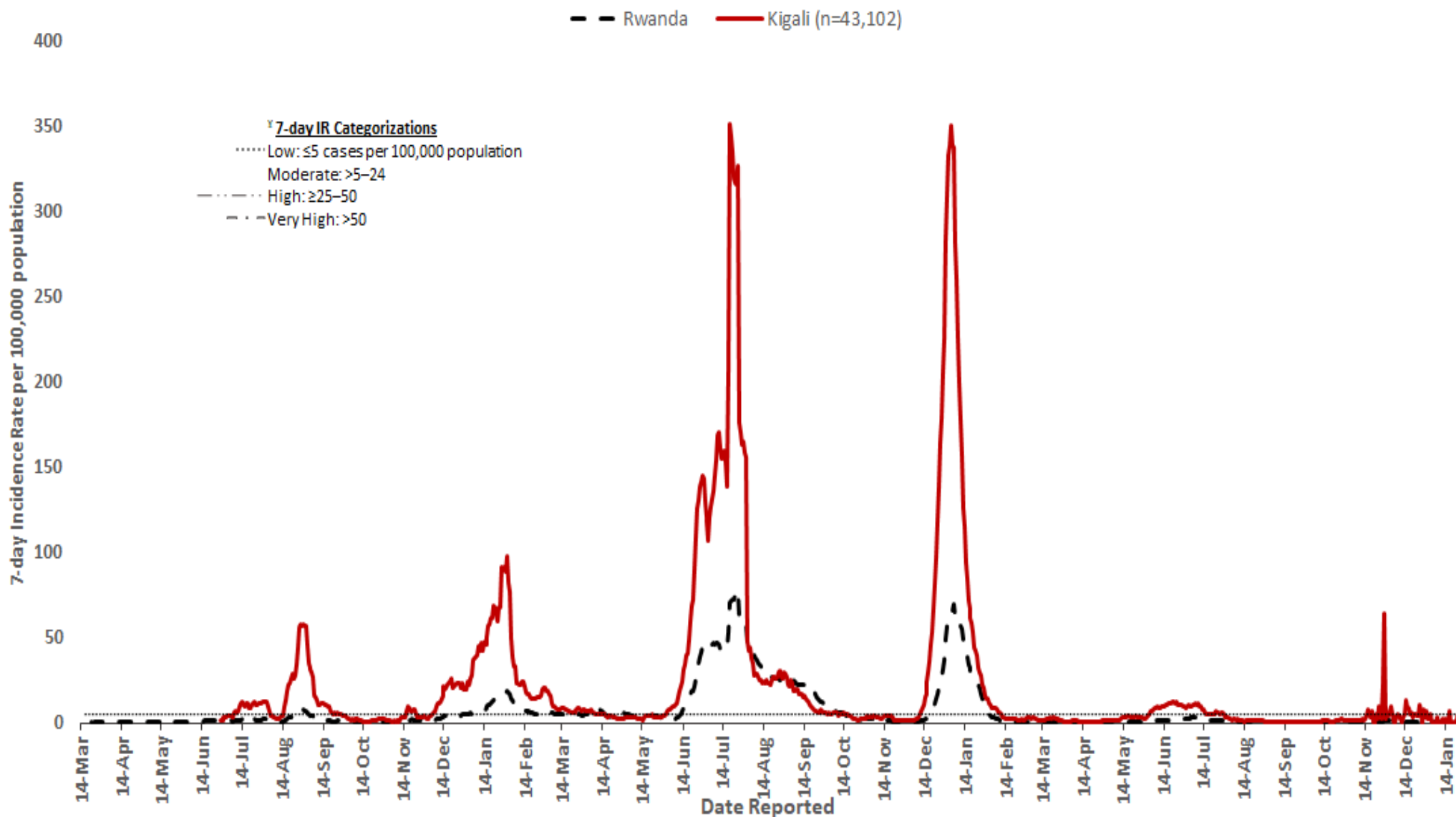
Alerts

Disease	Case	Alert threshold	Recommendations
Severe malaria	2	1 case	Verify, investigate and reports as soon as possible
Neonatal tetanus	1	1 suspected case	Verify, investigate and reports as soon as possible

Observation: During week 03/2023, the reported IDSR immediate reportable diseases were Bloody diarrhea, Measles, Neonatal tetanus, Typhoid fever and Severe Malaria.

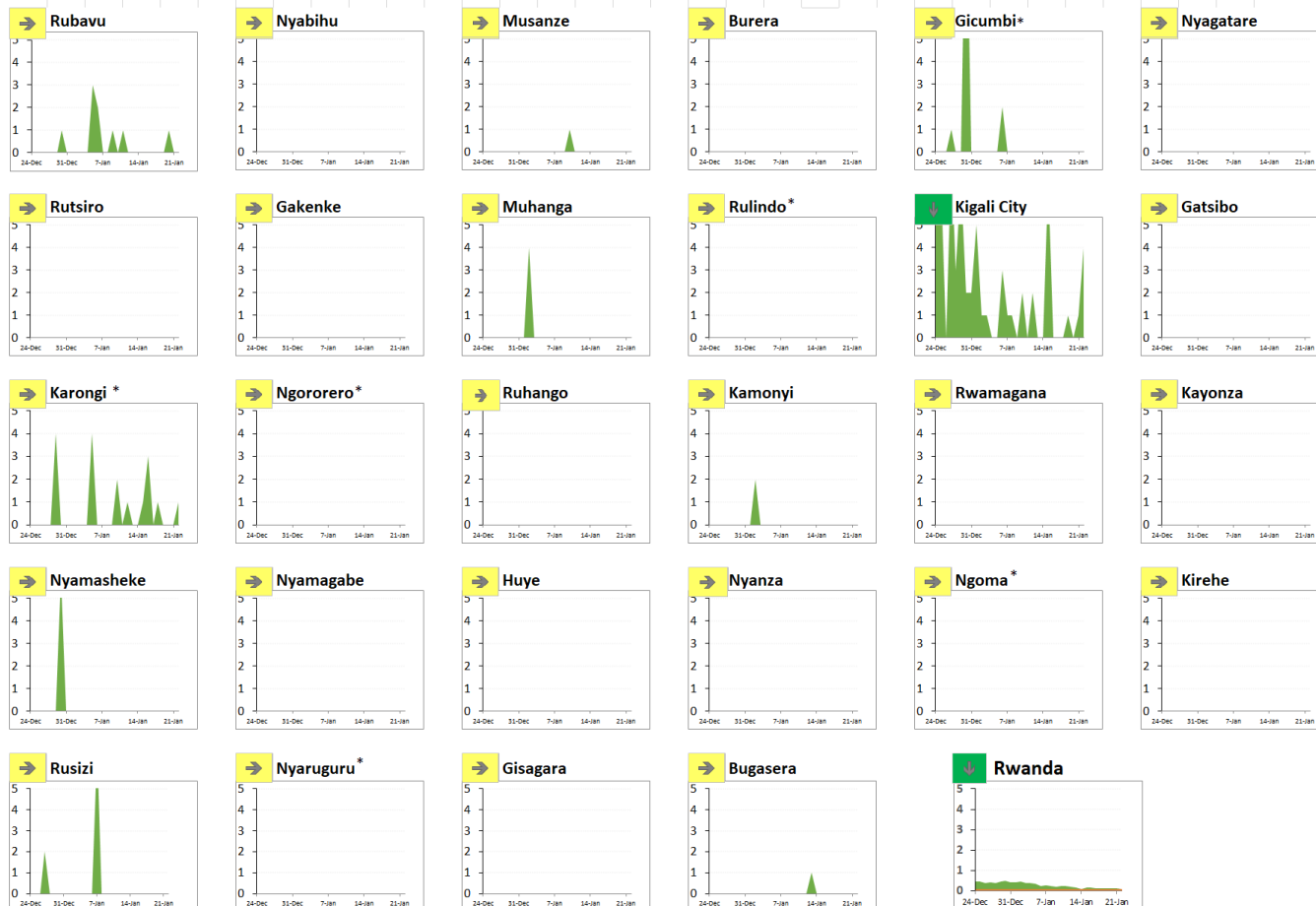
TREND OF 7-DAY INCIDENCE RATE OF COVID-19

COVID-19 Incidence Rate (IR) in Kigali City and Rwanda, March 14, 2020–January 22, 2023



TREND OF INCIDENCE RATE OF COVID-19 BY DISTRICTS

COVID-19 Cumulative 7-day (January 16–January 22) Incidence Rate (IR) and Trend (week-to-week % change) in Rwanda, December 24–January 22 (30 days), 2023

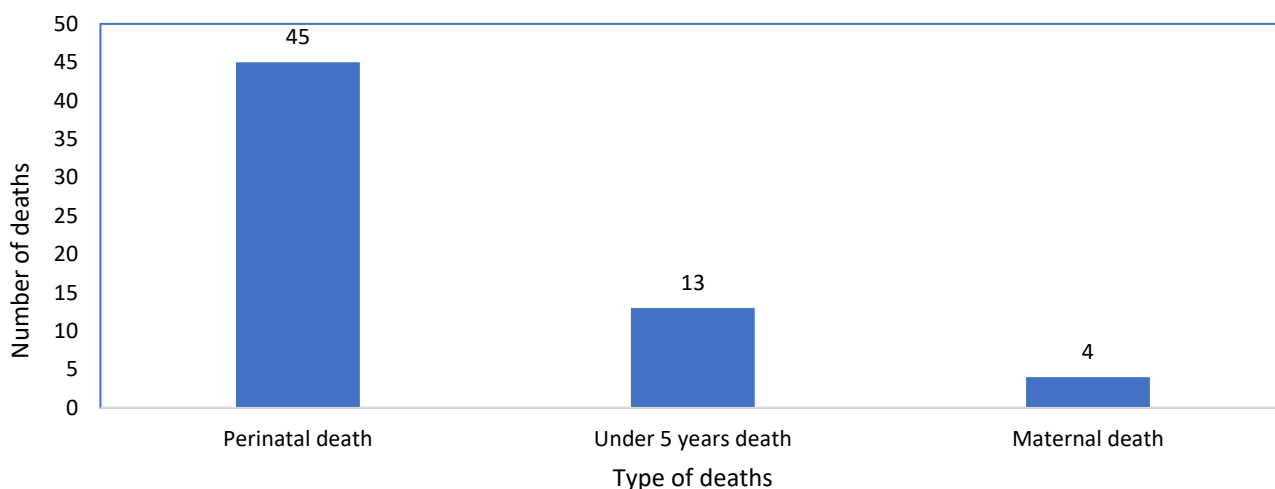


	Distribution of Districts	
Incidence rate in the last 7 days per 100,000	No.	%
Low: ≤5 cases	30	100%
Moderate: 5–24 cases	0	0%
High: ≥25–50 cases	0	0%
Very High: >50 cases	0	0%
Percentage change in cases in last 7 days vs previous 7 days		
Decrease: ≤ -10% change	↓	5 17%
Stable: > -10% change and <10%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

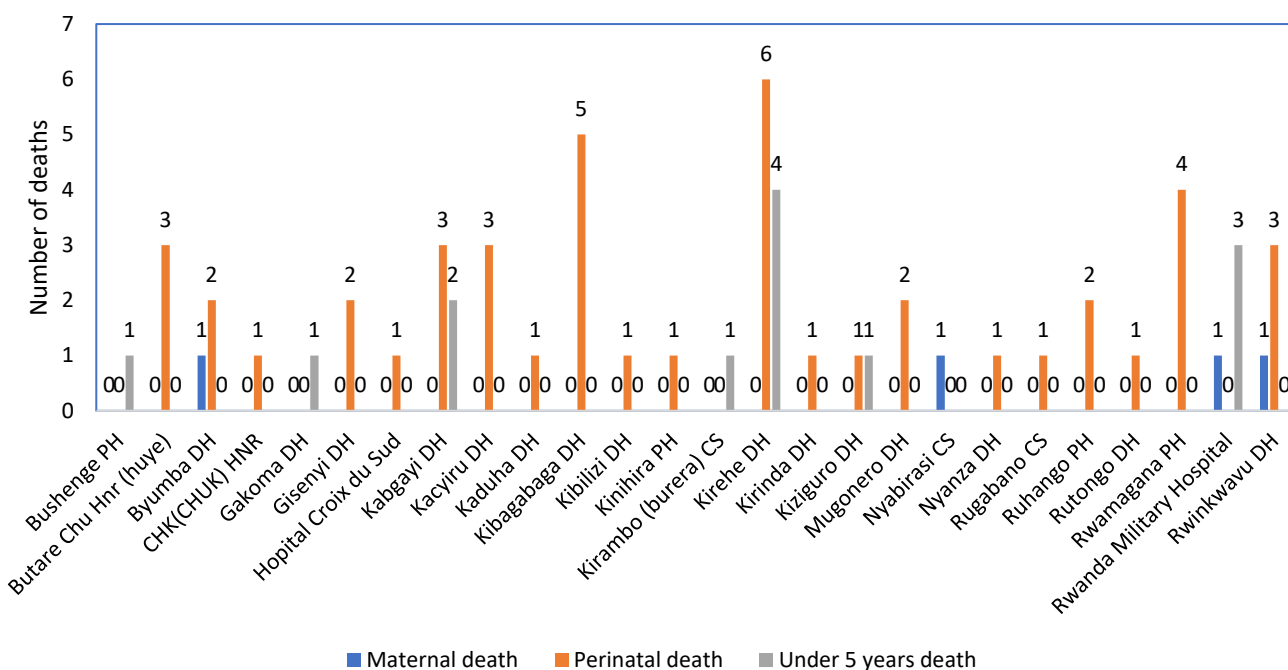
Observation: During the week 03/2023, The overall incidence rate of Rwanda was 0.1 case per 100,000 population (it was the same with previous week: 0.1 cases per 100,000 population in week 02). Kigali City, Rubavu and Karongi districts presented low incidence rate, while other districts did not have cases in week 03.

SUMMARY OF REPORTED DEATHS THROUGH e-IDSr (Wk 03/2023)

Number of deaths reported in Rwanda, week 3-2023



Number of deaths reported by health facility in Rwanda, week 3-2023



In week 03/2023, perinatal deaths had a highest number (45), especially in Kirehe and Kibagabaga hospitals (respectively 6 and 5 perinatal deaths), 13 deaths of under 5 years, 4 maternal deaths including 3 occurred in hospitals and 1 in health center. 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 WEEK 03/2023

Hospital	Health Facility names
Nyanza	Busoro CS
	Nyanza Prison
Rutongo	Cyinzuzi CS
Kibagabaga	Kabuye CS
Kabgayi	Mata CS
Rwamagana	Munyaga CS
	Rwamagana CS
Ruhengeri	Musanze Prison
Gitwe	Mwendo (Gitwe) CS
Nyabikenke	Nyabinoni CS
Nyarugenge	Nyarugenge Prison
Kibungo	Rubona (ngoma) CS
Butaro	Rusasa CS

TRUE EVENTS REPORTED IN COMMUNITY BASED SURVEILLANCE(e-CBS) IN e-IDSR FOR WEEK 03/2023

Event date	Village	CEB Event trigger	Sex	Age in years
01/18/2023	Rugarama III	Human death	Male	34
01/20/2023	Nyagacyamo	Human death	Male	62
01/20/2023	Remera	Dog bite	-	83

The events reported and verified were 2 human deaths, respectively with 34 and 62 years old and one case of dog bite who had referred at health facility and received antirabic vaccine. The verbal autopsy for the deaths should be conducted.