Weekly Epidemiological Bulletin

Epidemiologic Week 1_39, 10/10/2024

1. Monkey Pox Outbreak in Africa

Global Epidemiological Update of Mpox as of 9th October 2024

Since the first cases of human mpox detected on 12 Jan, 2024, A total of 7,344 confirmed cases and 979 deaths have been reported from 16 AUM and **5** confirmed cases reported from **Asia** (Pakistan 2, Thailand 1 & Philippines 1) and **Europe** (Sweden 1) mpox cases reported from out of Africa member state.

No.	Region/Continent	Affected Countries	Suspected Cases	Confirmed Cases	Deaths	CFR
1	Africa	16	34,297	6,806	866	3%
2	Asia	3	0	4	0	0%
3	Europe	1	0	1	0	0%
4	America	0	0	0	0	0%
5	Middle East	0	0	0	0	0%
6	Oceania and Antarctica	0	0	0	0	0%

Table 1: Global distribution of Mpox as of 9th Oct, 2024

Distribution of Mpox at different level

Epidemiological Situation of Mpox by Africa Union Region Since 12th Jan, 2024 to 9th October 2024

- Total Tested: 38,300
- Confirmed Cases: 7,344
- Total Deaths: 979 (3%)
- Affected Countries: 16 Africa Union Member State
- Over 97% of all confirmed cases and 99.6% of all deaths reported from Central Africa accounted
- Over 201% increase as compared with the same year 2023

Region (Africa)	Cases	Confired Cases	Deaths
Central	33,735	7,109	975
Eastern	2,544	38	0
Southern	25	26	3
Western	1,993	166	1
Northern	3	1	0
Total	38,300	7,339	979

Table 2: Regional distribution of Mpox cases and deaths, as of 9th October 2024

Continental distribution of Mpox Cases and Deaths as of Oct 9th 2024

- 80% of all cases and 99% of deaths reported from Democratic Republic of Congo (DRC), Burundi and Nigeria ranked 2nd _ 3rd reporting high number of cases following DRC.
- In Epi week 39: about 3,186 new cases notified, 489 new confirmed cases and 53 deaths reported
- Congo reported a new confirmed case in Brazavil after 6 Epidemiological weeks of no case ever.

Geographical spread of Mpox case as of 9th Oct, 2024

- ☞ The most affected country continues to be the Democratic Republic of the Congo, 100% of the provinces reported mpox confirmed cases, followed by Burundi and Nigeria.
- ☞ Within a continent, **South Kivu** from DRC, **Bujumbura North** from Burundi and **Bayelsa** from Nigeria are the most affected province, reporting the highest number of suspected and confirmed mpox.

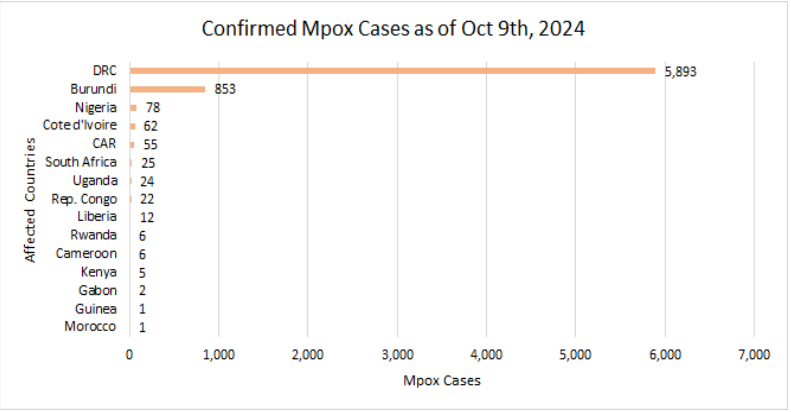


Fig. 1: Continental distribution of Mpox cases and deaths, as of 9th Oct 2024.

Confirmed cases reported over the last four weeks Week 36_39, 2024

- The continent has reported 1,663 confirmed cases from 16 Africa Union Member State.
- The top 5 countries reporting the highest number (98.7%) confirmed cases during this period are: **DRC, Burundi, Nigeria, Cote d'Ivoire** and **Uganda.**

Gender Vs. Age Category

- The burden of Mpox cases and deaths among < 15 children in **DRC** (60%), **Cote d'Ivoire** (60%), **Burundi** (52%), CAR (48%), and Nigeria (38%), while, over all proportion of < 15 children affected by Mpox remained 46%.
- According to the data of Africa CDC epidemic intelligence report, male tend to be more affected, however, varied from country to country.
- The Proportion of Male group affected by current outbreak accounted to 63%.

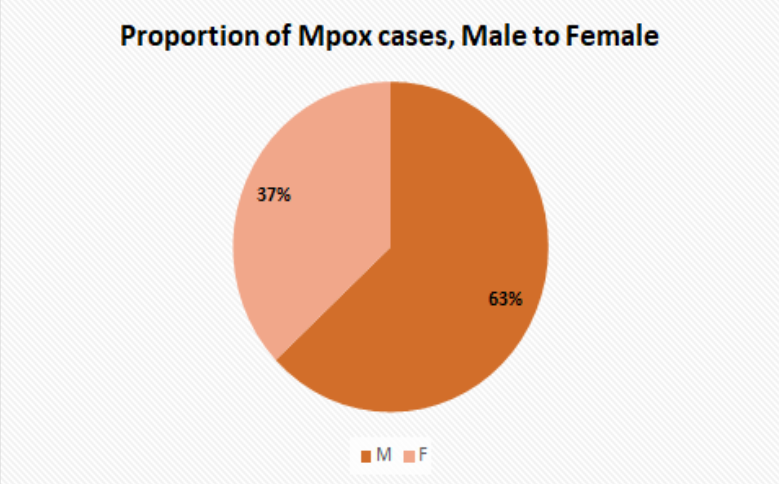


Fig. 2: Distribution of Mpox cases by Sex, as of Oct 9th ,2024

Mpox Situation in Burundi, Epi week 39, 2024

- New cases in last Epi_week 39
- New confirmed cases: 157
- Among total confirmed cases
- Male: 53.9%
- Children < 15 years old: 52;9%
- Test positivity rate: 40.7%
- Hospitalized rate: 100%

Mpox cases and Deaths at 'LEARN' Project Countries

- A total cases: 28,748 (of those, 5,896 confirmed)
- Total deaths reported: 861 CFR: 3%)
- DRC Reported: 96% of all cases & 99.7% of all deaths
- Mali, Somalia & South Sudan reported no cases/deaths

Mpox cases and Deaths at 'LEARN' Project Countries			
List of Countries	Suspected Cases	Confirmed Cases	Death
DRC	27,487	5,812	859
Nigeria	1,180	78	0
Cameroon	81	6	2
Mali	0	0	0
Somalia	0	0	0
South Sudan	0	0	0

Table 3: Mpox cases and Deaths at 'LEARN' Project Countries, as of 9th October, 2024

2. Marburg virus in Rwanda, Oct 9th 2024

Epidemiological Situation of Marburg virus

(As of 8 October 2024)

- Marburg Virus Disease (MVD) is a rare, severe, highly infectious and often fatal disease caused by the Marburg virus.
- Rwanda reports first-ever Marburg virus disease outbreak
- Historically, it's the first-time report MVD in a country (Republic of Rwanda).
- Date of declaration of confirmed outbreak: 27_ Sept 2024

(As of 9 October 2024)

- Cumulative Test: 2,655
- Confirmed Cases: 58
- Deaths: 13 (CFR: 22%)
- Isolation & RxC: 33
- Contact Traced: 400
- Affected Districts: 7
- Recovered: 12

✓ Since the announcement of the outbreak, all new confirmed cases have been with in the hospital cluster in Kigali & their contacts, and all are under isolation and treatment.

✓ So far there is no evidences of community transmission. (https://rbc.gov.rw/marburg/)

✓ **Surface Stability:** Marburg virus can survive on surfaces for 4 to 5days.

✓ **Current Status of treatment:** No specific treatment available; there's only an emergency vaccine for frontline workers.

✓ **Patient Care:** Involves symptom management and specialized medical care in designated areas.

✓ **Contact Monitoring:** Individuals in contact with infected persons are observed and tested.

Trends of Marburg Cases and Lab test Performances

History of index case yet under investigation, there for no data was found back to October 27, 2024.

October 2 and 7 are the date's high peak cases reported

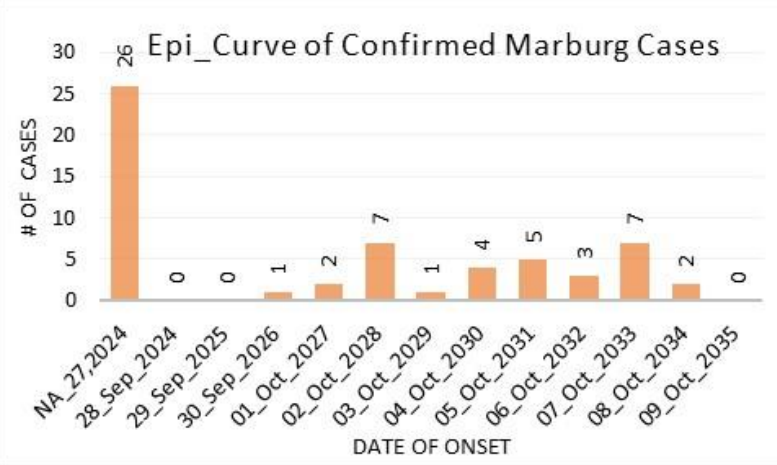


Fig. 3: Epi_ Curve of Confirmed Marburg Cases in Rwanda, as of October 9th, 2024

However, initial testing capacity is good, still it is very low since 06 Oct, 2024.

Average daily testing capacity remained on 294 tests.

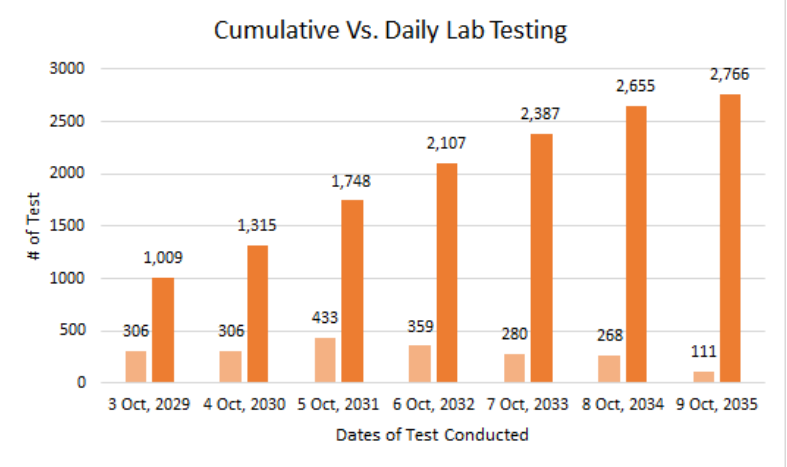


Fig. 4: Confirmed Vs. Daily testing capacity, as of Oct 9th, 2024

WHO Risk Assessment Level

WHO Conducted risk assessment on outbreak of Marburg in Rwanda. Based on the result of risk assessment, the outbreak in Rwanda remained Very high risk at the national level, high risk at the regional level, and Low risk at Global Level

Risk Assessment Level
Very High Risk at the national level,
High Risk at the regional level, and
Low risk at the global levels

WHO assesses the Marburg in Rwanda for Travelers

WHO has classified this outbreak as a Grade 3 event, underscoring its complexity and the need for a coordinated, large-scale response? (https://www.who.int/emergencies/grading)

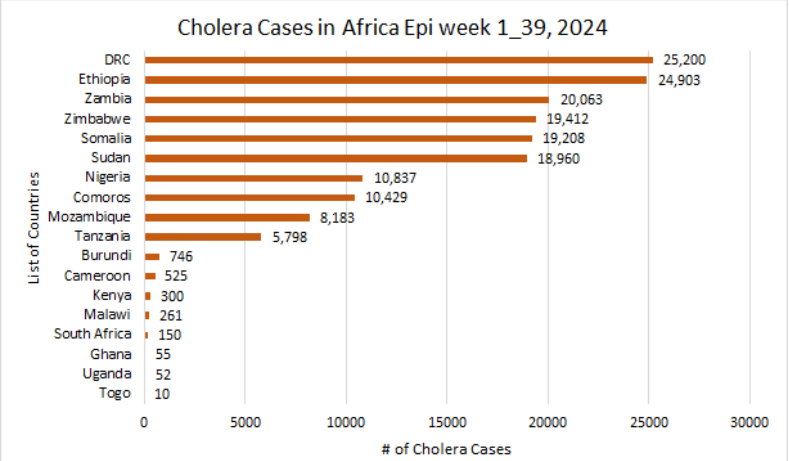
Marburg in Rwanda
Level 4 - Avoid All Travel
Level 3 - Reconsider Nonessential Travel
Level 2 - Practice Enhanced Precautions
Level 1 - Practice Usual Precautions

Ongoing Response

- Rwanda Kicks Off Vaccination Campaign as Death Toll Increases to 13
- Rwanda has secured 700 dose of Marburg Vaccine from Sabin Vaccine institute (SVI)
- Targeted vaccination for frontline responders Commenced on October 07, 2024, ensuring their readiness and safety.
- Rwanda is stepping up its prevention efforts, focusing on increased contact tracing, screening and testing.
- With support from Africa CDC and other partners, the Rwandan government is implementing rigorous testing, contact tracing and quarantine measures to contain the outbreak.
- Local health authorities in Rwanda are working to identify illnesses and conduct investigations, strengthen surveillance, identify sources of transmission, and educate communities and the public about the risks and dangers of Marburg.
- WHO and Africa CDC recommend focusing on stronger surveillance, early detection, case management, targeted vaccination, and community engagement as the most effective strategies to manage outbreaks.

3. Vibro_Cholera outbreak

- Since 31 Dec,2023 countries in the Africa being encountered with protracted cholera outbreak.
- From Epi weeks 1_39, 2024, a total of 165,365 cases and 2,872 deaths with CFR of 1.74% reported from 19 AU MS
- DRC (15%), Ethiopia (15%), Zambia (12%), Zimbabwe (12%) and Somalia (12%), ranked 1-5, reporting high number of cases and deaths respectively.
- Cholera cases reported with in a continent in the current year is lower than that of reported 241,317 cases and 3,827 cholera associated deaths during 2023.



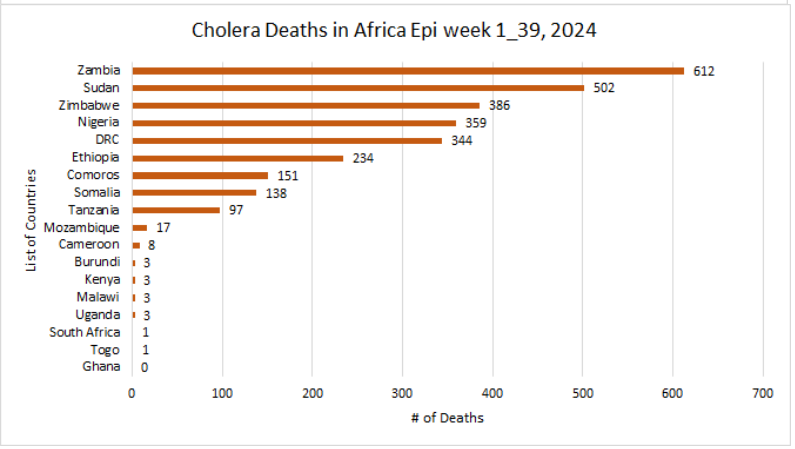
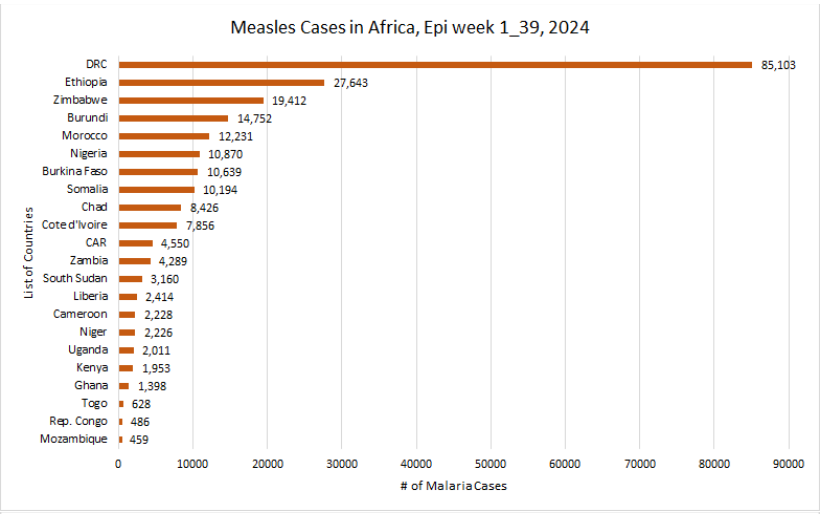


Fig. 5&6: Cholera cases Vs. Deaths in Africa as of 9th Oct, 2024

4. Measles Outbreak

- Measles outbreak is still common public health problems in many developing countries particularly in Africa.
- From ep weeks 1_39, 2024, a total of 218,258 cases and 2,968 deaths (CFR :1.34%) reported from 19 AU MS
- Countries reported over 10, 000 measles cases are: DRC, Ethiopia, Zimbabwe, Burundi, Morocco, Nigeria, Burkina Faso and Somalia.
- Dozen deaths (69%) reported from DRC, while, Zimbabwe, Ethiopia, Côte d'Ivoire and Burundi they each reported over 13%, 7%, 6% and 5% of the reported deaths respectively.



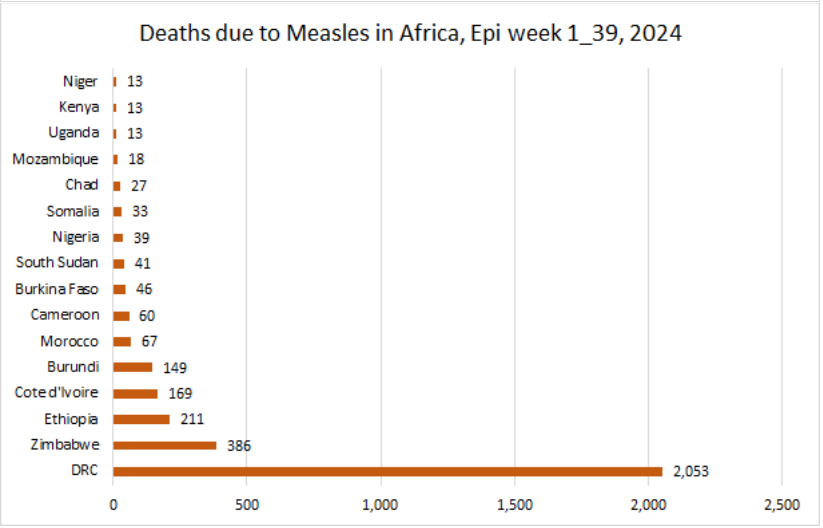
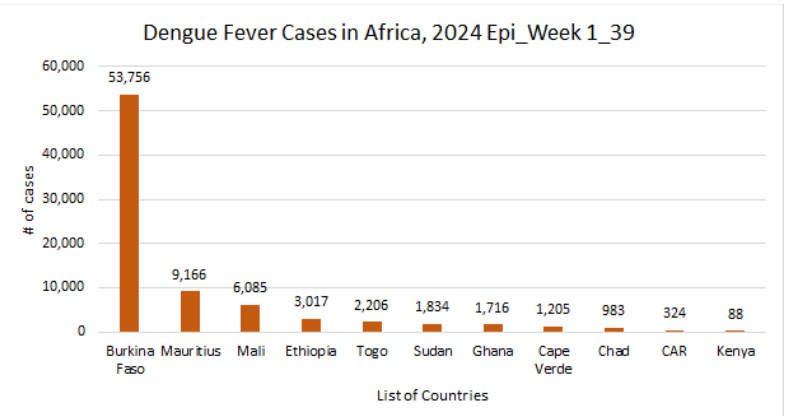


Fig. 7&8: Measles cases Vs. Deaths in Africa as of 9th Oct 2024

5. Dengue Fever

- Dengue fever (break-bone fever) is a viral infection that spreads from mosquitoes to people.
- Between epidemiological weeks 1_39, 2024,
  - Total Cases: 80,447 and 91 deaths (CFR: 0.11%) reported from 15 Africa union member state.
  - Over 67% of cases reported from Burkina Faso, while, Mauritius, Mali, Ethiopia and Togo followed reporting 11%, 8%, 4% and 3% respectively.



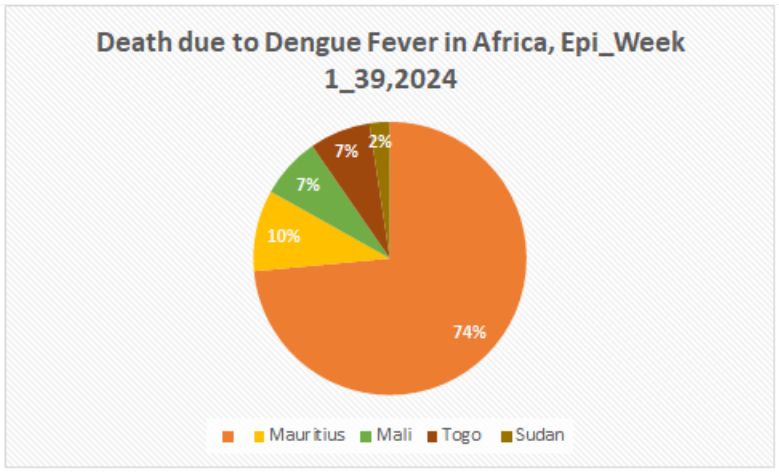


Fig. 9&10: Distribution of Dengue cases Vs. Deaths as of Oct 9th, 2024

6. Bacterial Meningitis

- Africa has the most significant prevalence of bacterial meningitis illness, and the outbreaks typically vary with the season and the geographic location, with a high incidence in the meningitis belt of the sub-Saharan area from Senegal to Ethiopia.
- Between epidemiological weeks 1_39, 2024,
- Total cases: 6,923 and 492 deaths (CFR: 7.11%) reported from four (4) Africa union member state.
- Nigeria and Niger accounted over 88% of total reported cases and 95% of total deaths.

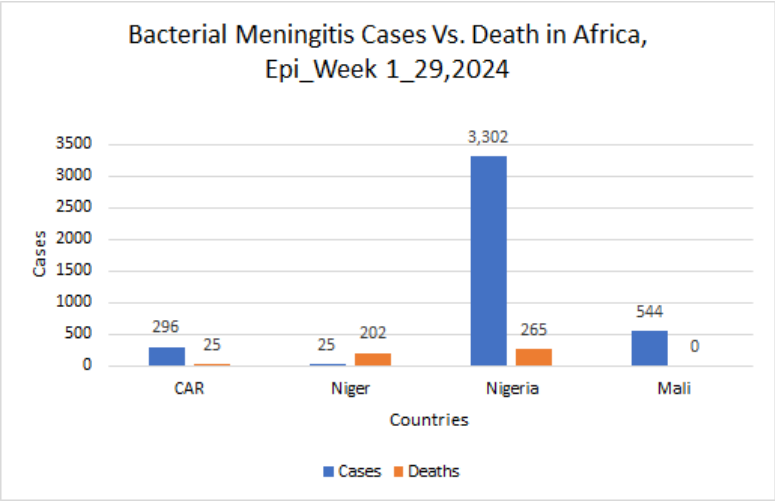


Figure: 10 Bacterial Meningitis cases Vs. Deaths in Africa as of 9th Oct 2024

7. Bacterial Anthrax

A total of 202 Bacterial Anthrax cases and 6 deaths (20%) reported from three Africa union member state.
Over 185 (92%) of case & 4 (67%) of deaths reported from Uganda

Others Hazards

Polio Virus (Vaccine -Derived):

126 confirmed cases and no death of circulating vaccine derived polio virus type 2 reported from 13 Africa Union member state, while, 6 confirmed cases and no death of circulating vaccine derived polio virus type 1 reported from DRC (5) & Mozambique (1)

CRIMEAN CONGO HEMORRHAGIC FEVER (CCHF)

Six confirmed cases and no death of **CCHF** reported from Congo.

3. Flooding

- Over 2,857, 317 people became internally displaced population (IDP) due to flashed flood, and 1,308 deaths reported from 20 Africa Union member states

For additional inquiry, please contact:

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Your comments will help improve our bulletin!

1. Marburg in Rwanda - Level 3, Turned from WHO (https://www.who.int/emergencies/grading)

2. Statement against Travel Restrictions in Response to Mpox and Marburg Virus Outbreaks (https://africacdc.org/news-item/statement-against-travel-restrictions-inresponse-to-mpox-and-marburg-virus-outbreaks/)

3. MARBURG Virus Information (https://rbc.gov.rw/marburg/)