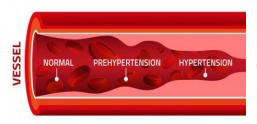
WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Hypertension



Blood pressure is the force exerted by circulating blood against the walls of the body's arteries, the major blood vessels

in the body. Hypertension is when blood pressure is too high.Blood pressure is written as two numbers. The first (systolic) number represents the pressure in blood vessels when the heart contracts or beats. The second (diastolic) number represents the pressure in the vessels when the heart rests between beats. Hypertension is called a "silent killer".

Most people with hypertension are unaware of the problem because it may have no warning signs or symptoms. For this reason, it is essential that blood pressure is measured regularly. Hypertension is diagnosed if, when it is measured on two different days, the systolic blood pressure readings on both days is ≥140 mmHg and/or the diastolic blood pressure readings on both days is ≥ 90 mmHg.

What are the risk factors for hypertension?



Modifiable risk factors include unhealthy diets (excessive salt consumption, a diet high in saturated fat and trans fats, low intake of fruits and vegetables), physical inactivity, consumption of tobacco and alcohol, and being overweight or obese. Non-modifiable risk factors include a family history of hypertension, age over 65 years and co-existing diseases such as diabetes or kidney disease.

https://www.who.int/news-room/fact-sheets/detail/hypertension

WEEK 51



- Syndromic Surveillance
- Accidents
- Violence

Pages 2-4



Class 1 Notifiable Events

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COVID-19

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Influenza

Page 7



Dengue Fever

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Research Paper

Page 9

SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica



A syndromic surveillance system is good for early detection of and response to public health events.

Sentinel surveillance occurs when selected health facilities (sentinel sites) form a network that reports on certain health conditions on a regular basis, for example, weekly. Reporting is mandatory whether or not there are cases to report.

Jamaica's sentinel surveillance system concentrates on visits to sentinel sites for health events and syndromes of national importance which are reported weekly (see pages 2 -4). There are seventy-eight (78) reporting sentinel sites (hospitals and health centres) across Jamaica.

Table showcasing the
Timeliness of Weekly
Sentinel Surveillance
Parish Reports for the Four
Most Recent
Epidemiological Weeks –
48 to 51 of 2022

Parish health departments submit reports weekly by 3 p.m. on Tuesdays. Reports submitted after 3 p.m. are considered late.

KEY:

Yellow- late submission on Tuesday

Red – late submission after Tuesday

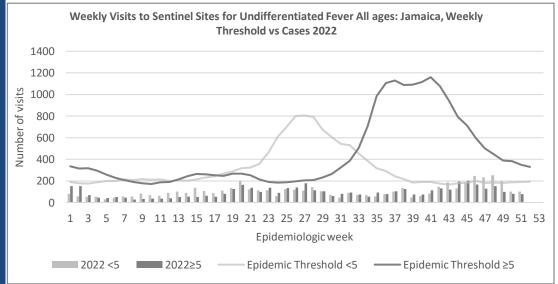
| Epi week | Kingston and Saint Andrew | Saint Thomas | Saint Catherine | Portland | Saint Mary | Saint Ann | Trelawny | Saint James | Hanover | Westmoreland | Saint Elizabeth | Manchester | Clarendon |
|----------|------------------------------|--------------|-----------------|----------|------------|-----------|----------|-------------|---------|--------------|-----------------|------------|-----------|
| | | | | | | 20 | 022 | | | | | | |
| | | | | | | | | | | | | | |
| 48 | On | On | On | On | On | On | On | On | On | On | On | On | On |
| | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time |
| 49 | On | On | Late | On | On | On | On | On | On | On | On | On | On |
| | Time | Time | (T) | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time |
| 50 | On | On | Late | On | On | On | On | On | On | On | On | On | On |
| | Time | Time | (T) | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time |
| 51 | On | On | On | On | On | On | On | On | On | On | On | On | On |
| | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time | Time |

REPORTS FOR SYNDROMIC SURVEILLANCE

UNDIFFERENTIATED FEVER

Temperature of $>38^{\circ}C$ /100.4°F (or recent history of fever) with or without an obvious diagnosis or focus of infection.







2 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



FEVER AND NEUROLOGICAL

Temperature of >38°C /100.4°F (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal irritation, convulsions, altered consciousness, altered sensory manifestations or paralysis (except AFP).



FEVER AND HAEMORRHAGIC

Temperature of >38°C /100.40F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.



FEVER AND JAUNDICE

Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



NOTIFICATIONS-All clinical sites

INVESTIGATION **REPORTS-** Detailed Follow up for all Class One Events

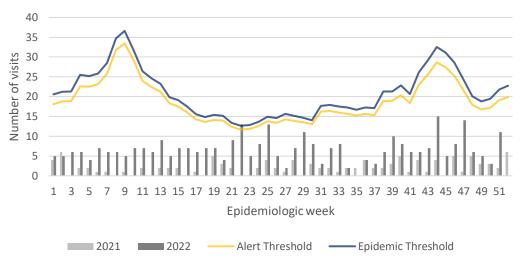


HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

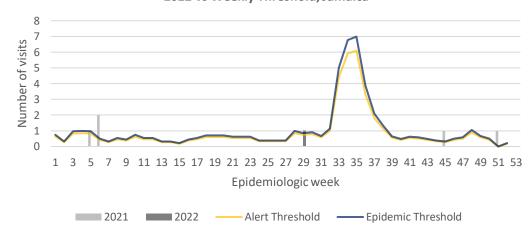


SENTINEL REPORT- 78 sites. Automatic reporting

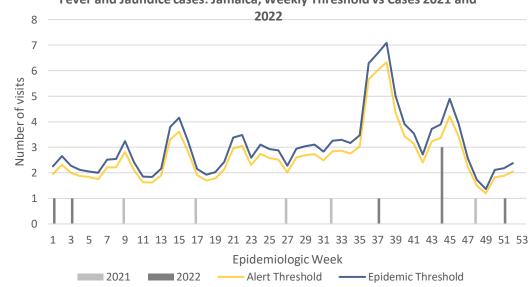
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2021 and 2022 vs. Weekly Threshold: Jamaica



Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2021 and 2022 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2021 and



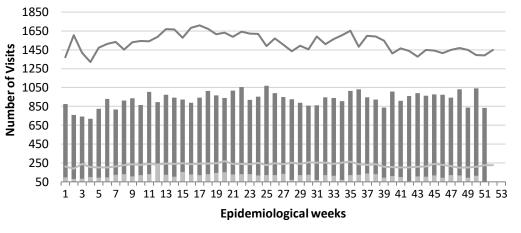
January 6, 2023 ISSN 0799-3927

ACCIDENTS

Any injury for which the cause is unintentional, e.g. motor vehicle, falls, burns, etc.



Weekly visits to Sentinel Sites for Accidents by Age Group 2022 vs Weekly Threshold: Jamaica



≥5 y/o Cases

<5 y/o Cases -

— Epidemic Threshold≥5 -

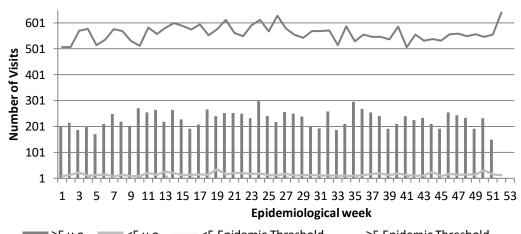
Epidemic Threshold<5

VIOLENCE

Any injury for which the cause is intentional, e.g. gunshot wounds, stab wounds, etc.



Weekly visits to Sentinel Sites for Violence by Age Group 2022 vs Weekly Threshold; Jamaica



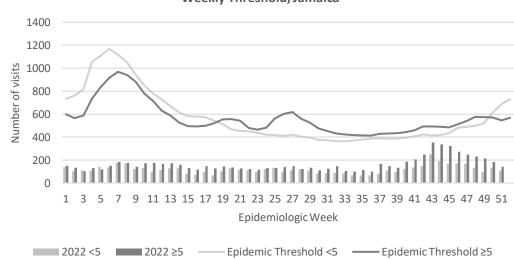
-<5 Epidemic Threshold —</p> —≥5 Epidemic Threshold ≥5 y.o <5 y.o

GASTROENTERITIS

Inflammation of the stomach and intestines, typically resulting from bacterial toxins or viral infection and causing vomiting and diarrhoea.



Weekly visits to Sentinel Sites for Gastroenteritis All ages 2022 vs Weekly Threshold; Jamaica





NOTIFICATIONS-All clinical sites



INVESTIGATION **REPORTS-** Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

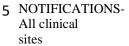


January 6, 2023 ISSN 0799-3927

CLASS ONE NOTIFIABLE EVENTS

Comments

| | | | | | 0 0 111111 0 1145 |
|-------------------------------------|--------------------------|-----------------------------|--------------------------|-----------------------|----------------------------------------------------------------------------------------|
| | CLASS 1 EVENTS | | Confirm | ned YTD^{α} | AFP Field Guides from |
| | | | CURRENT YEAR 2022 | PREVIOUS YEAR 2021 | WHO indicate that for an effective surveillance system, detection rates for |
| | Accidental Po | oisoning | 196β | 176β | AFP should be 1/100,000 |
| J | Cholera | | 0 | 0 | population under 15 years old (6 to 7) cases annually. |
| NATIONAL /INTERNATIONAL INTEREST | Dengue Hem | orrhagic Fever ^γ | See Dengue page below | See Dengue page below | old (0 to 7) cases aimually. |
| IATI | COVID-19 (S | SARS-CoV-2) | 55651 | 79905 | Pertussis-like syndrome and |
| L /INTERN INTEREST | Hansen's Dis | ease (Leprosy) | 0 | 0 | Tetanus are clinically confirmed classifications. |
| INT | Hepatitis B | | 8 | 6 | |
| Ā. IS | Hepatitis C | | 2 | 4 | γ Dengue Hemorrhagic Fever |
| JON | HIV/AIDS | | NA | NA | data include Dengue related deaths; |
| NAT | Malaria (Imp | ported) | 0 | 0 | • |
| , , | Meningitis (C | Clinically confirmed) | 19 | 39 | δ Figures include all deaths associated with pregnancy |
| | Monkeypox | | 18 | NA | reported for the period. |
| EXOTIC/ UNUSUAL | Plague | | 0 | 0 | ε CHIKV IgM positive cases |
| ľY/ TY | Meningococc | cal Meningitis | 0 | 0 | ^θ Zika PCR positive cases |
| H IGH RBIDI RTALI | Neonatal Teta | anus | 0 | 0 | β Updates made to prior |
| H IGH MORBIDITY, MORTALITY | Typhoid Feve | er | 0 | 0 | weeks in 2020. |
| ΣΣ | Meningitis H | /Flu | 0 | 0 | ^α Figures are cumulative totals for all epidemiological weeks year to date. |
| | AFP/Polio | | 0 | 0 | |
| | Congenital R | ubella Syndrome | 0 | 0 | |
| \sim | Congenital Syphilis | | 0 | 0 | |
| IME | Fever and Rash | Measles | 0 | 0 | |
| SPECIAL PROGRAMMES | | Rubella | 0 | 0 | |
| SOG. | Maternal Dea | ıths ^δ | 59 | 82 | |
| L PR | Ophthalmia N | Neonatorum | 48 | 40 | |
| CIA | Pertussis-like | syndrome | 0 | 0 | |
| SPE | Rheumatic Fe | ever | 0 | 0 | |
| | Tetanus | | 2 | 0 | |
| | Tuberculosis | | 46 | 38 | |
| | Yellow Fever | | 0 | 0 | |
| | Chikungunya ⁶ | | 0 | 0 | |
| | Zika Virus ^θ | | 0 | 0 | NA- Not Available |
| | | 1.0 | - | | |





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



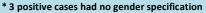
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



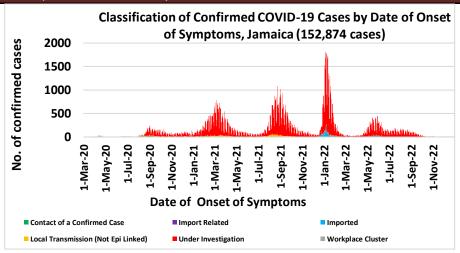
COVID-19 Surveillance Update

March 10, 2020 - EW 51, 2022

| EW 51 | Total | | | |
|-----------------------------|--------------------------------|--|--|--|
| 48 | 152874 | | | |
| 32 | 88198 | | | |
| 16 | 64673 | | | |
| 7 months old to 92 years | 1 day to 108 years | | | |
| | 48 32 16 7 months old | | | |



^{*} PCR or Antigen tests are used to confirm cases

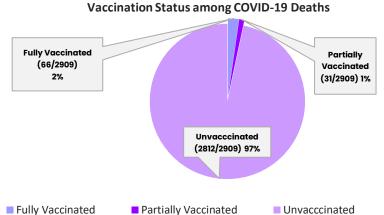


COVID-19 Outcomes

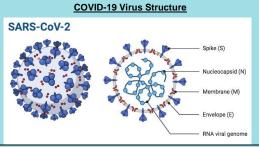
| COVID 19 Outcomes | | | | | |
|-------------------|-------|--------|--|--|--|
| Outcomes | EW 51 | Total | | | |
| ACTIVE | | 97 | | | |
| *past 2 weeks* | | 97 | | | |
| DIED – COVID | 1 | 3465 | | | |
| Related | 1 | 3403 | | | |
| Died - NON | 0 | 296 | | | |
| COVID | U | 290 | | | |
| Died - Under | 0 | 353 | | | |
| Investigation | U | 333 | | | |
| Recovered and | 7 | 102069 | | | |
| discharged | / | 102009 | | | |
| Repatriated | 0 | 93 | | | |
| Total | | 152874 | | | |

*Vaccination programme March 2021 - YTD

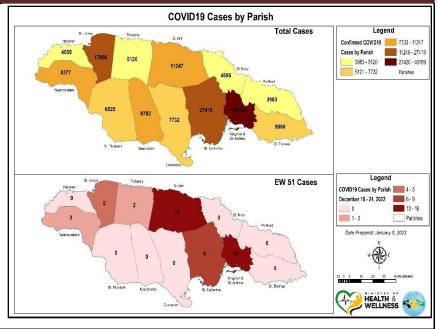
2909 COVID-19 Related Deaths since March 1, 2021 - YTD



COVID-19 Parish Distribution and Global Statistics



| COVID-19 WHO Global Statisticts EW48-EW51 | | | | | |
|-------------------------------------------|-----------------|--------|--|--|--|
| Epi Week | Confirmed Cases | Deaths | | | |
| 48 | 3,455,814 | 10,077 | | | |
| 49 | 3,853,338 | 10,891 | | | |
| 50 | 2,518,720 | 7918 | | | |
| 51 | 2, 240797 | 8576 | | | |
| Total (4weeks) | 12, 068,669 | 37,462 | | | |





NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

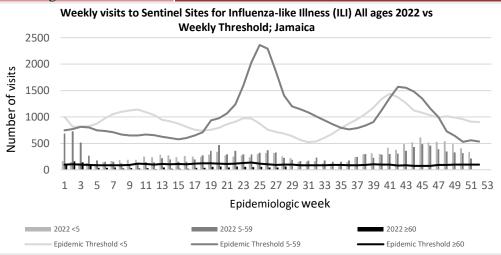


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 51

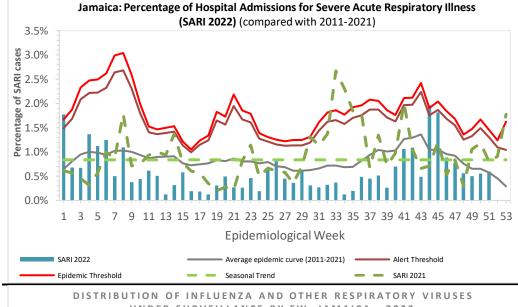
December 18- December 24, 2022 Epidemiological Week 51

| | EW 51 | YTD |
|---------------|-------|-----|
| SARI cases | 9 | 508 |
| Total | | |
| Influenza | 2 | 67 |
| positive | _ | 0, |
| Samples | | |
| Influenza A | 0 | 67 |
| H3N2 | 1 | 56 |
| H1N1pdm09 | 1 | 11 |
| Not subtyped | 0 | 0 |
| Influenza B | 0 | 0 |
| Parainfluenza | 0 | 1 |



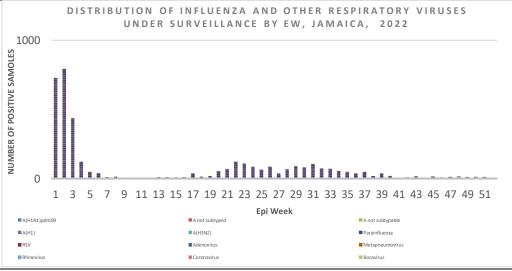
Epi Week Summary

During EW 51 nine (9) SARI admissions were reported.



Caribbean Update EW 51

Caribbean: Influenza activity was moderate across the subregion with A(H3N2) virus predominance and A(H1N1)pdm09 cocirculation. SARS-CoV-2 activity remained low overall. Haiti and Puerto Rico have shown increased influenza activity, at low-intensity levels. Jamaica reported increased activity levels.





7 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



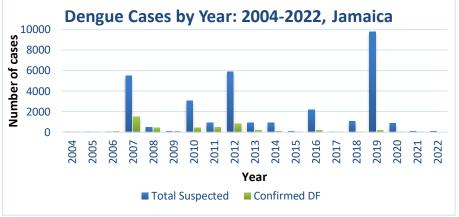
January 6, 2023 ISSN 0799-3927

Dengue Bulletin

December 18- December 24, 2022 Epidemiological Week 51

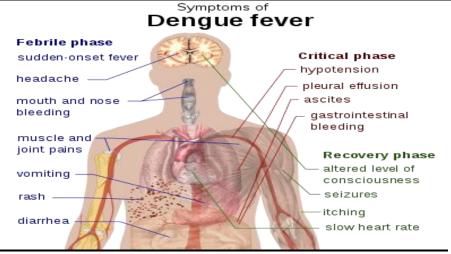
Epidemiological Week 51





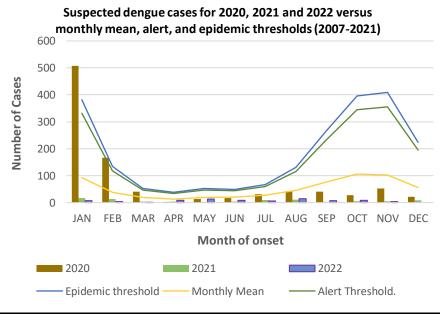
Reported suspected and confirmed dengue with symptom onset in week 51 of 2022

| | 2022* | | | |
|---------------------------------|-------|-----|--|--|
| | EW 51 | YTD | | |
| Total Suspected Dengue Cases | 0 | 100 | | |
| Lab Confirmed Dengue cases | 0 | 0 | | |
| CONFIRMED Dengue Related Deaths | 0 | 0 | | |



Points to note:

- *Figure as at Dec 24, 2022
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.





8 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



January 6, 2023 ISSN 0799-3927

RESEARCH PAPER

Abstract

Title: Healthy Lifestyle Choices Driven by Taxation

Authors: Fabian B. Lewis, PhD; Georgia Mullings and Sabrina Gordon (Ministry of Finance

and Public Service)

Abstract

Consumption of sweetened drinks has risen globally and has proven to be one of the main contributors to

obesity and non-communicable diseases. Despite this growing public health concern, there is no excise tax

on sweetened drinks in Jamaica as part of an effective health policy strategy to reduce consumption and the

resulting ailments associated with it. Furthermore, to our knowledge, no detailed research identifying how

taxes on sweetened drinks could be implemented in Jamaica's current tax system exists. Hence, this paper

fills a major gap by presenting possible recommendations for a sweetened drinks tax. Various tax options

include a tiered Specific SCT regime and a single Specific SCT rate regime. However, we recommended

that the Jamaican Government implement a tiered-rate system using a specific tax (in the form of a SCT)

on non-alcoholic beverages. Sweetened drinks with up to 5 grams of sugar per 100ml (12g per 237ml) will

attract a tax rate of \$0.01 while those greater will attract a rate of \$0.02 per ml. This regime would arguably

be ideal for Jamaica as it would allow for products with greater sugar content to be taxed at a higher rate

thus encouraging consumers to shift to healthier substitutes.

Keywords: sweetened drinks, non-communicable diseases, tiered rate structure, non-alcoholic

beverages, excise tax

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9 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

