WEEKLY EPIDEMIOLOGY BULLETIN NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Measles (Part 2)



Complications can include: blindness, encephalitis (an infection causing brain swelling and potentially brain damage), severe diarrhoea and related dehydration, ear infections,

severe breathing problems including pneumonia.

If a woman catches measles during pregnancy, this can be dangerous for the mother and can result in her baby being born prematurely with a low birth weight. Complications are most common in children under 5 years and adults over age 30. They are more likely in children who are malnourished, especially those without enough vitamin A or with a weak immune system from HIV or other diseases. Measles itself also weakens the immune system and can make the body "forget" how to protect itself against infections, leaving children extremely vulnerable.

Who is at risk?

Any non-immune person (not vaccinated or vaccinated but did not develop immunity) can become infected. Unvaccinated young children and pregnant persons are at highest risk of severe measles complications.

Measles is still common, particularly in parts of Africa, the Middle East and Asia. The overwhelming majority of measles deaths occur in countries with low per capita incomes or weak health infrastructures that struggle to reach all children with immunization.

Damaged health infrastructure and health services in countries experiencing or recovering from a natural disaster or conflict interrupt routine immunization and overcrowding in residential camps increases the risk of infection. Children with malnutrition or other causes of a weak immune system are at highest risk of death from measles.

Transmission

Measles is one of the world's most contagious diseases, spread by contact with infected nasal or throat secretions (coughing or sneezing) or breathing the air that was breathed by someone with measles. The virus remains active and contagious in the air or on infected surfaces for up to two hours. For this reason, it is very infectious, and one person infected by measles can infect nine out of 10 of their unvaccinated close contacts. It can be transmitted by an infected person from four days prior to the onset of the rash to four days after the rash erupts.

Measles outbreaks can result in severe complications and deaths, especially among young, malnourished children. In countries close to measles elimination, cases imported from other countries remain an important source of infection.

Taken from WHO website on 25/February/2025 https://www.who.int/news-room/fact-sheets/detail/measles Picture taken from https://www.nhs.uk/conditions/measles/

EPI WEEK 8Syndromic SurveillanceAccidentsViolencePages 2-4Image 1Image 2Image 2Image 3Image 3Image 3Image 4Image 4Image 5Image 5Image 6

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Dengue Fe

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Research Paper

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March 7, 2025

SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 5 to 8 of 2025

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

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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.

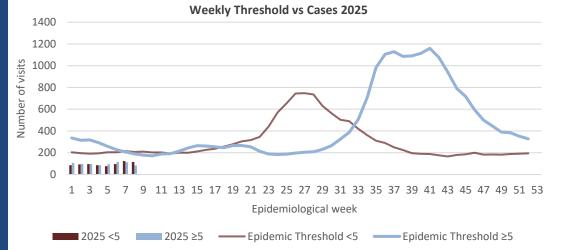
Jamaica's sentinel surveillance system concentrates on visits to sentinel sites for health events and syndromes of national importance which are reported weekly (see pages 2 -4). There are seventy-eight (78) reporting sentinel sites (hospitals and health centres) across Jamaica.

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)25						
5	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
6	On	On	On	On	On	Late	On	On	On	On	On	On	Late
	Time	Time	Time	Time	Time	(T)	Time	Time	Time	Time	Time	Time	(T)
7	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
8	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.



Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica,

2 NOTIFICATIONS-All clinical sites

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INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

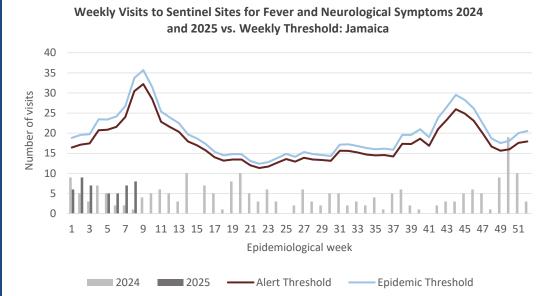




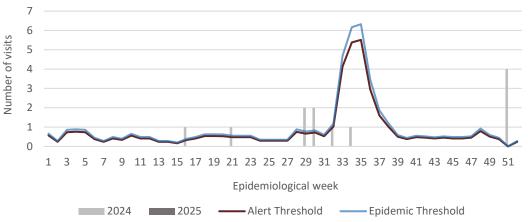
March 7, 2025

FEVER AND NEUROLOGICAL

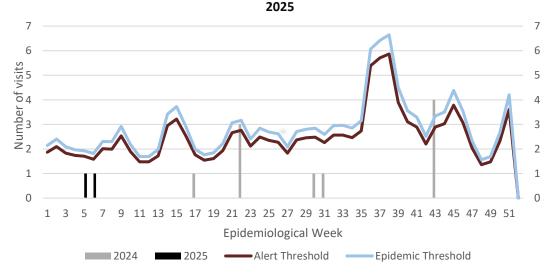
Temperature of >38°C /100.4°F (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal irritation, convulsions, altered consciousness, altered sensory manifestations or paralysis (except AFP).



Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2024 and 2025 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2024 and





NOTIFICATIONS-3 All clinical

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



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HOSPITAL
ACTIVE
SURVEILLANCE-
30 sites. Actively
pursued
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SENTINEL REPORT- 78 sites. Automatic reporting



FEVER AND

HAEMORRHAGIC

Temperature of >38°C

least one haemorrhagic

or without jaundice.

/100.4^o*F* (or recent history of

fever) in a previously healthy person presenting with at

(bleeding) manifestation with

FEVER AND JAUNDICE

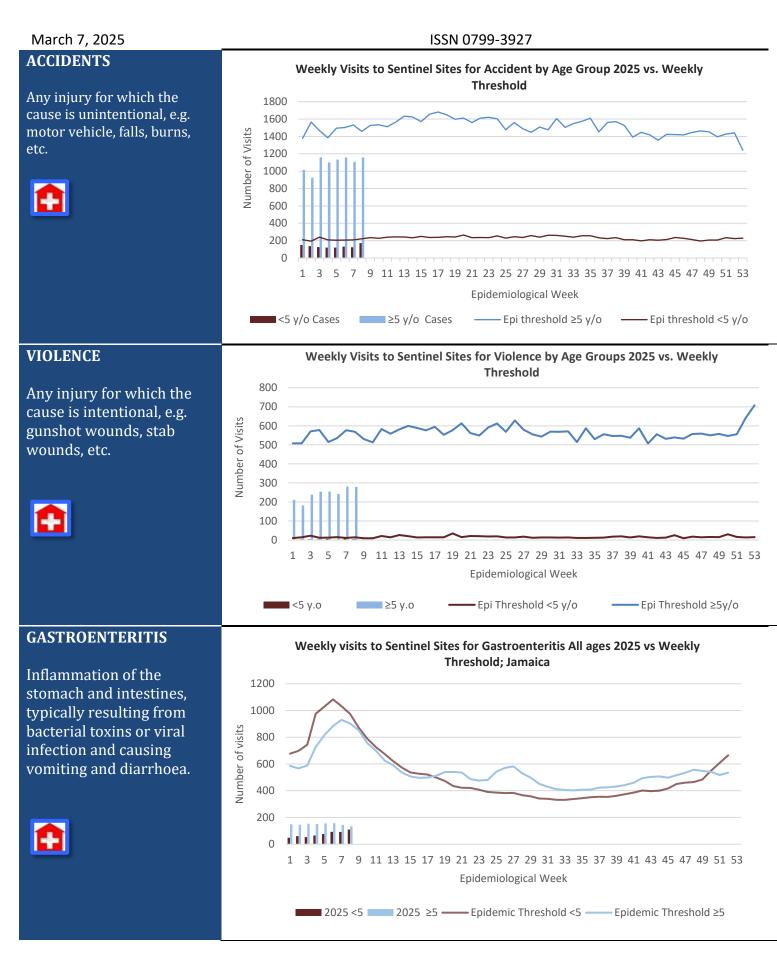
Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

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.



sites





4 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





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CLASS ONE NOTIFIABLE EVENTS

Comments

		Confirm	ed YTD ^{α}	AFP Field Guides from	
	CLASS 1 EVENTS		CURRENT YEAR 2025	PREVIOUS YEAR 2024	WHO indicate that for an effective surveillance system, detection rates for
	Accidental Po	bisoning	4 ^β	66 ^β	AFP should be 1/100,000
Ţ	Cholera		0	0	population under 15 years old (6 to 7) cases annually.
/NO	Severe Dengu	ıeγ	See Dengue page below	See Dengue page below	
ATI	COVID-19 (S	SARS-CoV-2)	21	131	Pertussis-like syndrome and
ERN	Hansen's Dis	ease (Leprosy)	0	0	Tetanus are clinically
L /INTERN	Hepatitis B		0	8	confirmed classifications.
NATIONAL /INTERNATIONAL INTEREST	Hepatitis C		0	1	YDengue Hemorrhagic
NO	HIV/AIDS		NA	NA	Fever data include Dengue
ATI	Malaria (Imp	ported)	0	0	related deaths;
Ż	Meningitis		2	1	$^{\delta}$ Figures include all deaths
	Monkeypox		0	0	associated with pregnancy
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.
YI IY	Meningococc	al Meningitis	0	0	^ε CHIKV IgM positive cases
H IGH RBIDIT RTALI	Neonatal Teta	anus	0	0	$^{\theta}$ Zika PCR positive cases
H IGH Morbidity, Mortality	Typhoid Feve	er	0	0	^{β} Updates made to prior weeks.
MG	Meningitis H	/Flu	0	0	
	AFP/Polio		0	0	$^{\alpha}$ Figures are cumulative totals for all epidemiological
	Congenital R	ubella Syndrome	0	0	weeks year to date.
	Congenital Sy	yphilis	0	0	
MES	Fever and Rash	Measles	0	0	
RAMI		Rubella	0	0	
SPECIAL PROGRAM	Maternal Deaths ^{δ}		11	8	
	Ophthalmia N	Veonatorum	1	23	
	Pertussis-like	syndrome	0	0	
	Rheumatic Fe	ever	0	0	
	Tetanus		0	0	
	Tuberculosis		0	11	
	Yellow Fever		0	0	
Chikungun		ε	0	0	
	Zika Virus ^θ		0	0	NA- Not Available

NOTIFICATIONS-5 All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





March 7, 2025

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CASES	EW 8	Total			
Confirmed	2	157457			
Females	1	90721			
Males	1	66733			
Age Range	unknown to 69 years	1 day to 108 years			
* 3 positive cases had no gender specification					

sitive cases had no gender specification

* PCR or Antigen tests are used to confirm cases

* Total represents all cases confirmed from 10 Mar 2020 to the current Epi-Week.

COVID-19 Outcomes

Outcomes	EW 8	Total			
ACTIVE *2 weeks*		4			
DIED – COVID Related	0	3875			
Died - NON COVID	0	396			
Died - Under Investigation	0	142			
Recovered and discharged	0	103226			
Repatriated	0	93			
Total		157457			
*Vaccination programme March 2021 - VTD					

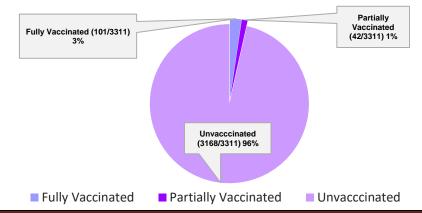
COVID-19 Surveillance Update

Classification of Confirmed COVID-19 Cases by Date of Onset of Symptoms, Jamaica (157,457 cases) 2000 No. of confirmed cases 1800 1600 1400 1200 1000 800 600 400 200 0 1-Jan-22 1-Mar-22 1-Jul-20 1-Sep-20 1-Nov-20 1-May-21 1-Sep-21 1-Nov-21 1-May-22 1-Jul-22 1-Sep-22 1-Nov-22 1-Jan-23 1-Mar-23 1-May-23 1-Jul-23 1-Sep-23 1-Mar-24 l-May-24 1-Sep-24 1-Nov-24 1-Jan-25 1-Mar-21 1-Nov-23 1-Jan-24 1-Mar-20 -May-20 1-Jan-21 1-Jul-21 1-Jul-24 Date of Onset of Symptoms Contact of a Confirmed Case Import Related

Imported	
Under Investigation	

Local Transmission (Not Epi Linked) Workplace Cluster

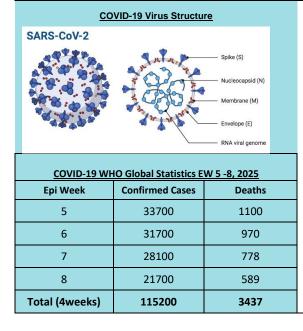
3311 COVID-19 Related Deaths since March 1, 2021 - YTD **Vaccination Status among COVID-19 Deaths**

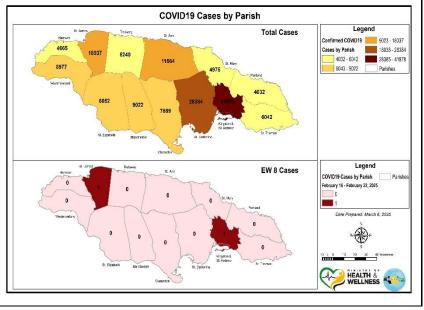


Vaccination programme March 2021 – YTD

* Total as at current Epi week

COVID-19 Parish Distribution and Global Statistics





NOTIFICATIONS-6 All clinical sites



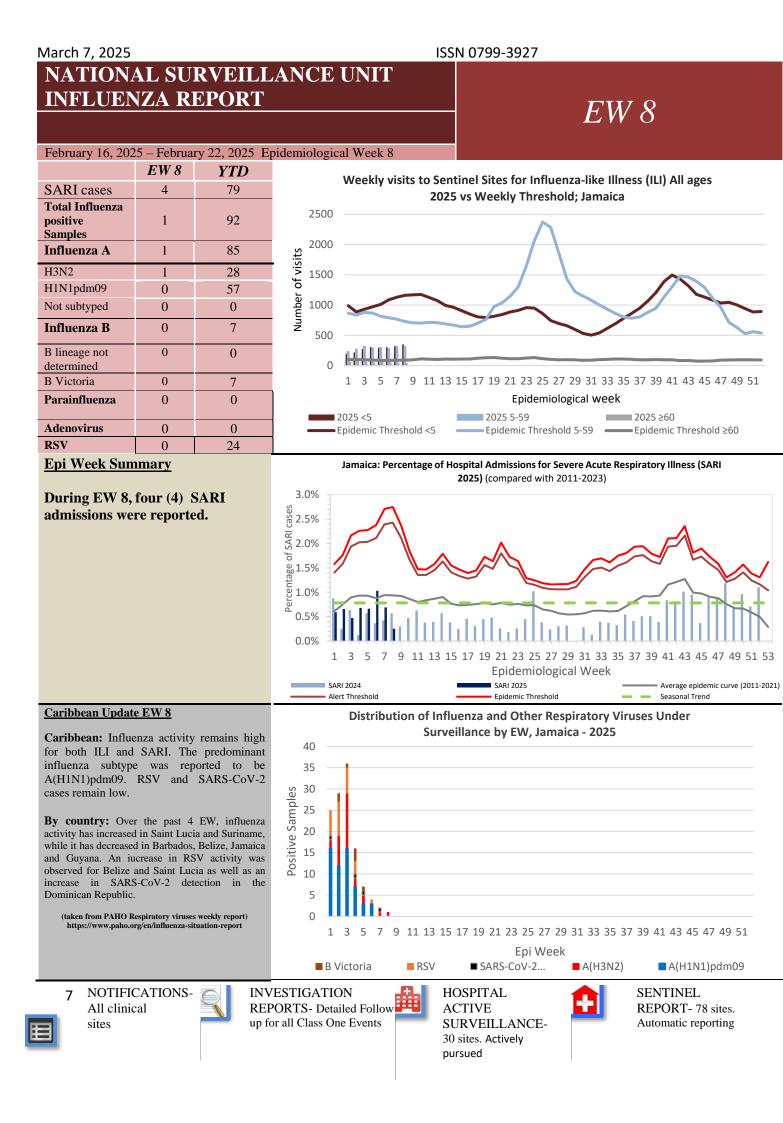
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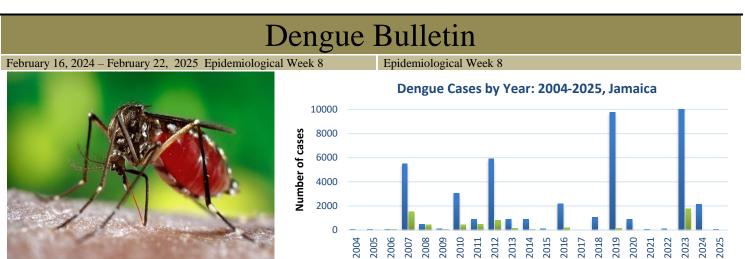
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued







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Reported suspected, probable and confirmed dengue with symptom onset in week 8 of 2025

	2025*			
	EW 8	YTD		
Total Suspected, Probable & Confirmed Dengue Cases	6	78		
Lab Confirmed Dengue cases	0	0		
CONFIRMED Dengue Related Deaths	0	0		

Points to note:

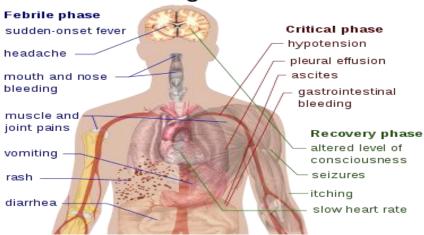
- Dengue deaths are reported based on date of death.
- *Figure as at, March 7, 2025
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

Symptoms of Dengue fever

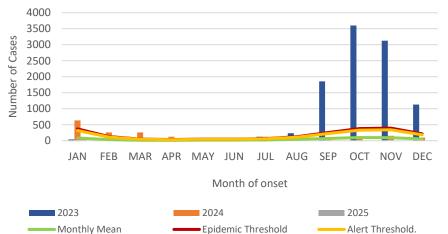
Total Suspected, probable & confirmed

Year

Confirmed DF



Suspected, probable and confirmed dengue cases for 2023-2025 versus monthly mean, alert and epidemic threshold (2007-2022)



8 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





RESEARCH PAPER

Abstract

NHRC-23-005

The relationship between social determinants (socioeconomic status, and access to food), and medication adherence and lifestyle practices among persons with hypertension in Colombia and Jamaica

¹Bennett N, ²Duncan J, ²Bailey A, ³Hahne M, ³Mills K, ³Whelton P, ⁴Anderson A, ⁵Natacha Lanza Mora P, ⁵Otero J, ⁵Castaneda Hernandez A, ⁵Lopez Jaramillo J, ⁴Lopez-Lopez J, ⁶Williams M, ⁶Tutse-Tonwe V, ¹Ferguson T, ¹Tulloch-Reid M.

¹Caribbean Institute for Health Research, The University of the West Indies, Mona, Jamaica; ²Department of Community Health and Psychiatry, The University of the West indies, Mona, Jamaica; ³Department of Epidemiology, Tulane University School of Public Health and Tropical Medicine, New Orleans, USA; ⁴University of Alabama at Birmingham, Birmingham, AL USA ⁵ Masira Research Institute, Universidad de Santander, Colombia; ⁶ Center for Translation Research and Implementation Science, National Heart, Lung and Blood Institute (NHLBI), NIH, Bethesda, Maryland, USA;

Objectives: To examine associations between food insecurity and medication adherence and healthy lifestyle practices among hypertensive patients in Colombia and Jamaica

Methods: A Cross-sectional survey of hypertensive patients in primary care clinics using interviewer-administeredquestionnaires was conducted. Medication adherence was measured using the IMPACT-MAS questionnaire and patients classified as having high or low/medium adherence. Unfavourable (≤ 2 points) or favourable (≥ 3 points) lifestyle was on a 5-point scale–1 point for eating less salt, exercising regularly, none or were reducing alcohol consumption, adequate fruits (≥ 2 servings) and vegetables (≥ 3 servings) daily. Patients were food insecure based on a modified USDA food security instrument if there was uncertainty about money for food or their ability to obtain healthy foods. Logistic regression was used to assess the relationship between food insecurity and low/medium medication adherence & unfavourable lifestyle practices.

Results: Of the 576 participants (50% Colombian, 31% male), Columbian patients were older (64.6 vs 62.5 years), had higher educational attainment and longer duration of hypertension. They also reported lower levels of food-insecurity (63.8% vs 70.1% p=<0.0001), better medication adherence (88% vs. 50.7% p=<0.0001) and more favorable lifestyle adherence scores (86.2% vs 47.2% p<0.0001). When adjusting for age, sex, country, employment, and hypertension duration those who were food-insecure had increased odds of unfavourable lifestyle adherence OR 2.0[95%CI(1.2 3.5)] but there was no association with medication adherence.

Conclusion: Food-insecure participants had increased odds of unfavourable lifestyle adherence but not medication adherence. Understanding the role of food-insecurity in hypertensive patients is critical to improving their health outcomes.



The Ministry of Health and Wellness 15 Knutsford Boulevard, Kingston 5, Jamaica Tele: (876) 633-7924 Email: surveillance@moh.gov.jm

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



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