WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Sodium Reduction



The burden of unhealthy diets constitutes a major public health and development challenge worldwide. Urgent action is required to modify the overproduction and over-consumption of foods and beverages that do not have a healthy nutritional profile, mainly industry manufactured food. Of greatest concern is

excess consumption of sodium, sugars and unhealthy fats, particularly trans-fatty acids (trans fats) and saturated fatty acids, and low consumption of whole grains, pulses, vegetables and fruits. In many high-income countries, and increasingly in low- and middle-income countries, a significant proportion of sodium in the diet comes from processed foods. An estimated 1.89 million deaths each year are associated with consuming too much sodium, a well-established cause of raised blood pressure and increased risk of cardiovascular disease.

Reducing sodium intake is one of the most cost-effective ways to improve health and reduce the burden of noncommunicable diseases, as it can avert a large number of cardiovascular events and deaths at very low total programme costs. WHO recommends a number of sodium-related best buy policies as practical actions that countries should undertake promptly to prevent cardiovascular disease and its associated costs. These include lowering of sodium content in foods; implementing front-of-pack labelling; mass media campaigns; and public food.

Recommendations for salt reduction

For adults, WHO recommends less than 2000 mg/day of sodium (equivalent to less than 5 g/day salt (just under a teaspoon). For children aged 2–15 years, WHO recommends adjusting the adult dose downward based on their energy requirements. This recommendation for children does not address the period of exclusive breastfeeding (0–6 months) or complementary feeding with continued breastfeeding (6–24 months).

All salt that is consumed should be iodized (fortified with iodine), which is essential for healthy brain development in the foetus and young child and optimizing people's mental function in general.

Retrieved from WHO on 13/Feb-/24

EPI WEEK 05



Syndromic Surveillance

Accidents

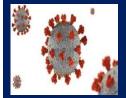
Violence

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Class 1 Notifiable Events

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COVID-19

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Influenza

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Dengue Fever

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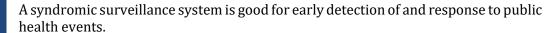


Research Paper

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SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica





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 – 2 to 5 of 2024

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

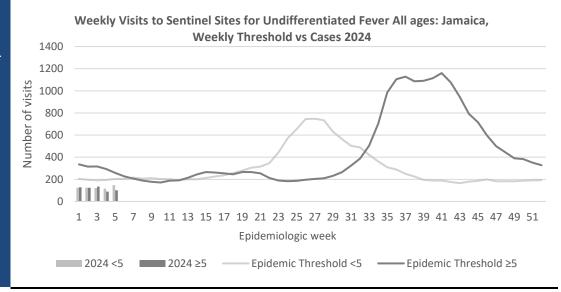
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
						20	024						
2	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
3	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
4	On	On	On	On	On	Late	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	(T)	Time	Time	Time	Time	Time	Time	Time
5	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

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.









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 $>38^{\circ}C$ /100.4°F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.

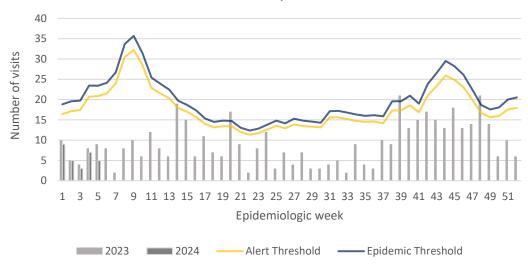


FEVER AND JAUNDICE

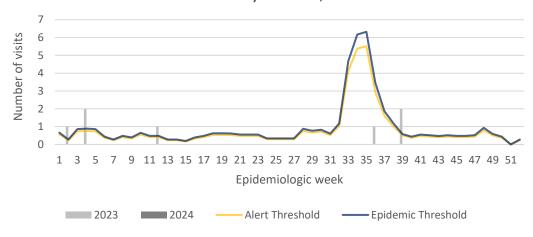
Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

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.

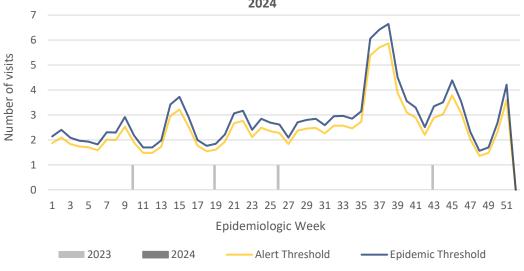
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2023 and 2024 vs. Weekly Threshold: Jamaica



Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2023 and 2024 vs Weekly Threshold; Jamaica













INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

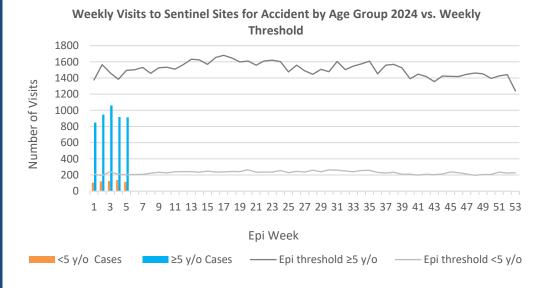




ACCIDENTS

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





VIOLENCE

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

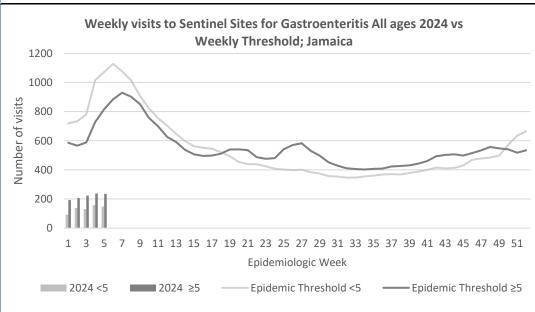


Weekly Visits to Sentinel Sites for Violence by Age Groups 2024 vs. Weekly **Threshold** 800 700 **Number of Visits** 600 500 400 300 200 100 0 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 Epi Week Epi Threshold <5 y/o <5 y.o ≥5 y.o - Epi Threshold ≥5y/o

GASTROENTERITIS

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









INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirm	ed YTD ^α	AFP Field Guides from WHO indicate that for an effective surveillance		
	CLASS 1 E	VENTS	CURRENT YEAR 2024	PREVIOUS YEAR 2023			
	Accidental P	oisoning	27 ^β	31 ^β	system, detection rates for AFP should be 1/100,000		
J	Cholera		0	0	population under 15 years old (6 to 7) cases annually.		
oN∕	Dengue Hem	orrhagic Fever ⁷	See Dengue page below	See Dengue page below	old (0 to 7) cases annually.		
ATI	COVID-19 (SARS-CoV-2)	88	1047	Pertussis-like syndrome		
NATIONAL /INTERNATIONAL INTEREST	Hansen's Dis	sease (Leprosy)	0	0	and Tetanus are clinically		
INT	Hepatitis B		0	7	confirmed classifications.		
AL /	Hepatitis C		0	3	—————————————————————————————————————		
NO	HIV/AIDS		NA	NA	Fever data include Dengue		
[ATI	Malaria (Imp	ported)	0	0	related deaths;		
Z	Meningitis		0	6	δ Figures include all deaths		
	Monkeypox		0	0	associated with pregnancy		
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.		
.Y.	Meningococo	cal Meningitis	0	0	^ε CHIKV IgM positive		
H IGH ORBIDIT ORTALI	Neonatal Tet	anus	0	0	cases θ Zika PCR positive cases		
H IGH MORBIDITY, MORTALITY	Typhoid Fev	er	0	0	Ť		
M M	Meningitis H	//Flu	0	0	^β Updates made to prior weeks.		
	AFP/Polio		0	0	^α Figures are cumulative		
	Congenital R	ubella Syndrome	0	0	totals for all		
70	Congenital S	yphilis	0	0	epidemiological weeks year to date.		
MES	Fever and	Measles	0	0	to dute.		
SPECIAL PROGRAMIV	Rash	Rubella	0	0			
(OG)	Maternal Dea	aths ^δ	4	5			
L PR	Ophthalmia l	Neonatorum	11	9			
CIA	Pertussis-like	esyndrome	0	0			
SPE	Rheumatic Fever		0	0			
	Tetanus		0	0			
	Tuberculosis		0	3			
	Yellow Feve		0	0			
Chikungunya ^e			0	0			
Zika Virus ^θ			0	0	NA- Not Available		





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

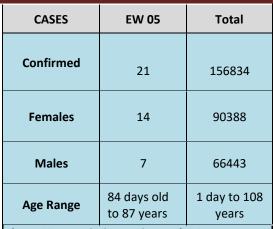


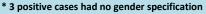
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



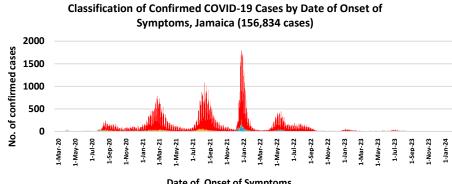
COVID-19 Surveillance Update

March 10, 2020 - EW 05, 2024





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



Date of Onset of Symptoms

- Contact of a Confirmed Case
- Imported
- Under Investigation

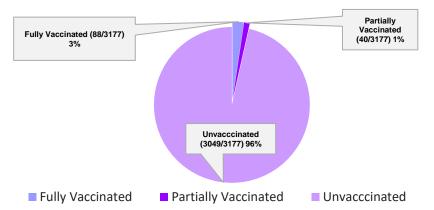
- Import Related Local Transmission (Not Epi Linked)
- **Workplace Cluster**

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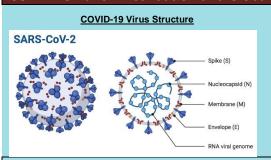
Outcomes	EW 05	Total
ACTIVE *2 weeks*		47
DIED – COVID Related	0	3739
Died - NON COVID	0	352
Died - Under Investigation	0	260
Recovered and discharged	0	103226
Repatriated	0	93
Total		156834

^{*}Vaccination programme March 2021 - YTD

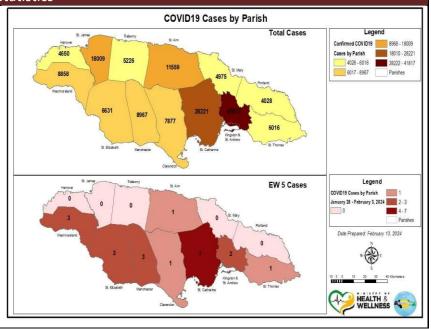
3177 COVID-19 Related Deaths since March 1, 2021 - YTD **Vaccination Status among COVID-19 Deaths**



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statisticts EW 2-5, 2024					
Epi Week	Confirmed Cases	Deaths			
2	182,300	3,400			
3	149,400	3,000			
4	100,700	1800			
5	77, 800	1, 400			
Total (4weeks)	510,200	9,600			



NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



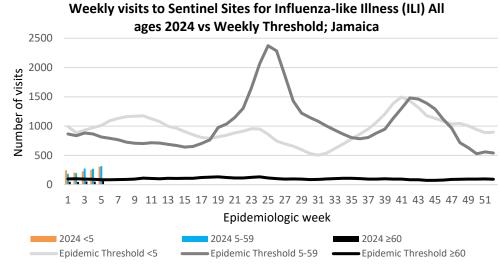
^{*} Total as at current Epi week

NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

EW 5

January 28, 2024 - February 3, 2024 Epidemiological Week 05

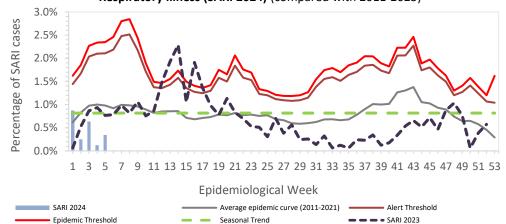
	EW 05	YTD
SARI cases	6	35
Total Influenza positive Samples	3	19
Influenza A	3	19
H3N2	0	7
H1N1pdm09	3	12
Not subtyped	0	0
Influenza B	0	0
B lineage not determined	0	0
B Victoria	0	0
Parainfluenza	0	0
Adenovirus	0	0
RSV	0	7



Epi Week Summary

During EW 05, six (6) SARI admissions were reported.

Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2024) (compared with 2011-2023)

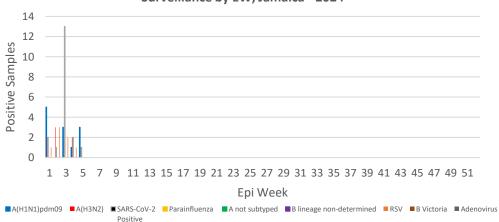


Caribbean Update EW 5

Caribbean: ILI cases have shown an increase in the last four weeks associated with an increase in positive influenza cases, while SARI cases have remained on the decline. Influenza activity has decrease in the last four EWs, reaching low circulation levels. During the last four EWs, the predominant viruses have been type A (H1N1) pdm09, followed by A(H3N2) and, to a lesser extent, B/Victoria. RSV activity has remained at low levels. SARS-CoV-2 activity has remained at high levels although showing a decrease in trend. By countries: Elevated influenza activity has been observed in Jamiaca. Elevated SARS- CoV-2 activity has been observed in Belize, the Dominican Republic, Dominica, Jamaica, Barbados, the Cayman Islands and Guyana.

(adopted fron PAHO Respiratory viruses weekly

Distribution of Influenza and Other Respiratory Viruses Under Surveillance by EW, Jamaica - 2024



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting

NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

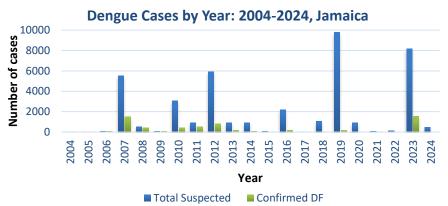




Dengue Bulletin

January 28, 2024 – February 03, 2024 Epidemiological Week 05 Epidemiological Week 05





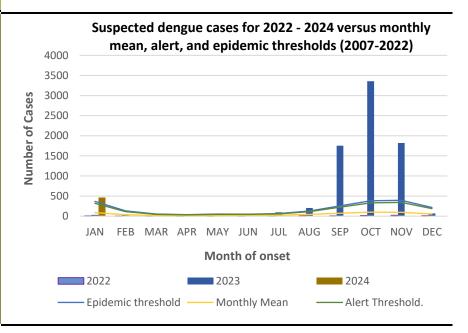
Reported suspected, probable confirmed dengue with symptom onset in week 05 of 2024

	2024*			
	EW 05	YTD		
Total Suspected, Probable & Confirmed Dengue Cases	7	457		
Lab Confirmed Dengue cases	0	0		
CONFIRMED Dengue Related Deaths	0	0		

Symptoms of Dengue fever Febrile phase sudden-onset feve Critical phase hypotension headache pleural effusion ascites mouth and nose bleeding gastrointestinal bleeding muscle and joint pains Recovery phase altered level of vomiting consciousness seizures rash itchina diarrhea slow heart rate

Points to note:

- Dengue deaths are reported based on date of death.
- *Figure as at February 10, 2024
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.



NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





RESEARCH PAPER

Abstract

THE EPIDEMIOLOGY OF OSTEOMYELITIS IN THE SICKLE CELL POPULATION OF JAMAICA

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Introduction: Knowing the most likely causative organism causing osteomyelitis in the sickle cell population is crucial in implementing empirical therapy; the most common causative organism varies globally.

Objectives: To determine the epidemiology of culture proven osteomyelitis in patients who attended the Sickle Cell Unit (SCU) from 2008-2018, in particular, to determine the most common organisms and whether there was an association of the causal organism with patient location or disease severity.

Methods: Ethical approval was obtained from The University of the West Indies Ethics Committee. The charts of all eligible patients were examined. The gender, age, address of individuals and the site of the osteomyelitis and causative organism were extracted. Polyostotic episodes and those which required greater than 42 days of antibiotics were deemed severe. Data were analyzed using SPSS; associations were assessed using the Pearson Chai- Squared Test.

Results: Forty three patients met the inclusion criteria; 26 males and 17 females with the mean age being 16.5 years (Range 1-60). St. Catherine was the most common parish. The most prevalent organisms included Salmonella (42%), Staphylococcus Aureus (26%) and Enterobacter (12%). Commonly affected sites included the Tibia (44%), Humerus (26%) and Femur (16%), 7% were severe. There was no association between the causal organism and patient location (p=0.196) or disease severity (p=0.367).

Conclusion: Salmonella was the most common organism causing osteomyelitis in persons attending the SCU. Specific education of patients in avoidance of exposure to this organism may be helpful.



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INVESTIGATION REPORTS- Detailed Follow up for all Class One Events





