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

### Weekly Spotlight

#### Breast Cancer- Planning Comprehensive Breast Cancer Programs

Breast cancer care is most successful when prevention, early detection, diagnosis, treatment and palliation are integrated and synchronously developed. Early detection does not benefit a woman unless she has timely access to appropriate treatment. A patientcentered treatment plan cannot be generated without an accurate pathologic diagnosis, and a patient's preferences and barriers to treatment adherence are identified and addressed. Comprehensive breast cancer care requires an effective health system with trained community health personnel, nurses, psychologists, therapists and other professionals.

#### Prioritizing breast cancer programs in the health system

Health systems are faced with balancing four competing principles: scope of services, equity in access to services, quality of care and cost containment.

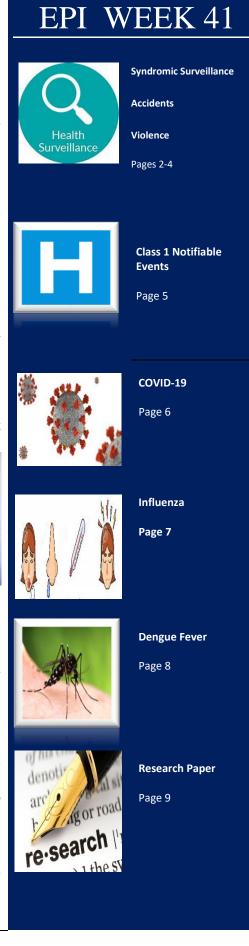
Using a scope of service approach requires health systems to assess and coordinate available public and private services. Equity in access to services requires health systems to ensure that women in rural settings and of lower socioeconomic status have access to breast services.



Quality of care requires routine evaluations for safety, effectiveness, patient-centeredness, timeliness, efficiency and equity. It also requires an ongoing evaluation of the burden of disease (e.g., increase incidence or change in late stage versus early stage presentation) and the potential for dramatic improvement in patient care such as the introduction of new targeted therapies or psychosocial services.

Each country, and each region within a country, will have a different set of health priorities. Breast cancer programs should be implemented based on available resources, and the projected benefit (e.g., reduction in late stage disease presentation, improved access to care), using a resource-stratified pathway that will allow programs to advance in a coordinated and stepwise fashion across the continuum of care. Process metrics should be built into all project plans to identify and measure program strengths and weakness. Framing programs using these four competing principles can help prioritize interventions.

www.paho.org > planning-comprehensive-breast-cancer-programs



#### October 27 , 2023 SENTINEL SYNDROMIC SURVEILLANCE

#### Sentinel Surveillance in Iamaica



Table showcasing the **Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four** Most Recent **Epidemiological Weeks -**38 to 41 of 2023

**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.

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
3	8	On Time	On Time	Late (W)	Late (T)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
3	9	On Time	On Time	Late (W)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
4	0	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
4	-1	On Time	On Time	On Time	On Time	On Time	Late (T)	On Time	On Time	On Time	Late (T)	On Time	On Time	On Time

Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica, Weekly Threshold vs Cases 2023

> 30 sites. Actively pursued

## **REPORTS FOR SYNDROMIC SURVEILLANCE**

#### **UNDIFFERENTIATED FEVER**

Temperature of >38°C /100.4<sup>o</sup>*F* (or recent history of fever) with or without an obvious diagnosis or focus of infection.

1400

1200

800

of visits 1000

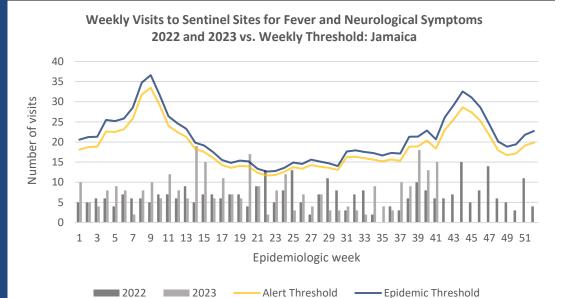
	Epidemiologic week	33 35 37 39 41 43 45 47 49 51 — Epidemic Threshold ≥5
NOTIFICATIONS- All clinical sites	INVESTIGATION REPORTS- Detailed Follow up for all Class One Events HOSPITAL ACTIVE SURVEILLANCE-	SENTINEL REPORT- 78 sites. Automatic reporting

2

#### October 27 , 2023

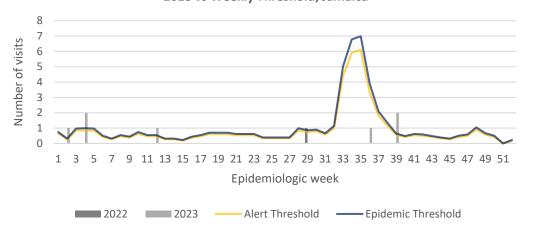
#### FEVER AND NEUROLOGICAL

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).



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Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2022 and 2023



#### 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.



3 NOTIFICATIONS-All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

8

7

6

5

4

3

2

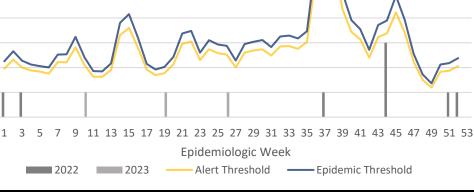
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Number of visits

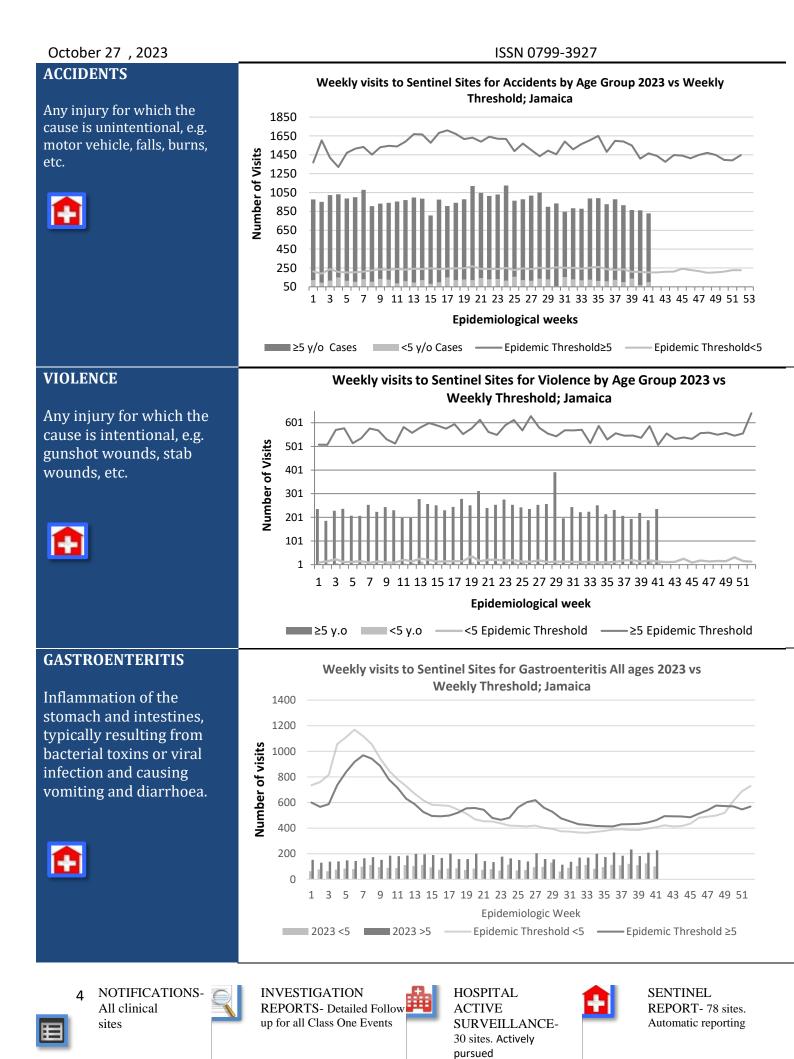


HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued









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### CLASS ONE NOTIFIABLE EVENTS

#### Comments

			. Confirm	ed $\text{YTD}^{\alpha}$	AFP Field Guides from	
	CLASS 1 EVENTS		CURRENT YEAR 2023	PREVIOUS YEAR 2022	WHO indicate that for an effective surveillance system, detection rates for	
	Accidental Po	bisoning	269 <sup>β</sup>	180 <sup>β</sup>	AFP should be 1/100,000	
Ę	Cholera		0	0	population under 15 years old (6 to 7) cases annually.	
₹NC	Dengue Hemorrhagic Fever <sup>7</sup>		See Dengue page below	See Dengue page below	old (6 to 7) cases annually.	
ATIO	COVID-19 (S	SARS-CoV-2)	3749	55097	Pertussis-like syndrome	
<b>ERN</b> .	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically	
L /INTERN INTEREST	Hepatitis B		49	26	confirmed classifications.	
NATIONAL /INTERNATIONAL INTEREST	Hepatitis C		24	2	<sup>γ</sup> Dengue Hemorrhagic	
ONA	HIV/AIDS		N/A	N/A	Fever data include Dengue	
ATI	Malaria (Imp	ported)	3	2	related deaths;	
Z	Meningitis		25	18	$\delta$ Figures include all deaths	
	Monkeypox		3	15	associated with pregnancy	
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.	
'Y' IY	Meningococcal Meningitis		0	0	<sup>ε</sup> CHIKV IgM positive	
H IGH RBIDIT RTALI	Neonatal Tetanus		0	0	$\theta$ 7:1. DCD $\theta$ 7:1.	
H IGH MORBIDITY, MORTALITY	Typhoid Fever		0	0	$^{\theta}$ Zika PCR positive cases	
MG	Meningitis H	/Flu	0	0	$^{\beta}$ Updates made to prior weeks.	
	AFP/Polio		0	0	$^{\alpha}$ Figures are cumulative	
	Congenital Rubella Syndrome		0	0	totals for all	
	Congenital Syphilis		0	0	epidemiological weeks year to date.	
MES	Fever and	Measles	0	0		
SPECIAL PROGRAM	Rash	Rubella	0	0	-	
SOG	Maternal Dea	ths <sup>δ</sup>	40	58		
L PR	Ophthalmia Neonatorum		106	125		
CIA	Pertussis-like syndrome		0	0	_	
SPE	Rheumatic Fever		0	0	_	
	Tetanus		0	2	-	
	Tuberculosis		34	33		
	Yellow Fever		0	0		
	Chikungunya	3	0	0		
	Zika Virus <sup>θ</sup>		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



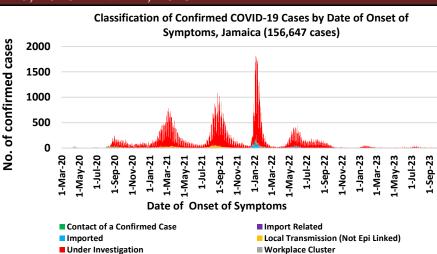


#### October 27 , 2023

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### **COVID-19 Surveillance Update** March 10, 2020 – EW 41, 2023

CASES	EW 41	Total			
Confirmed	19	156647			
Females	8	90283			
Males	11	66361			
Age Range	29 days old to 82 years	1 day to 108 years			
* 3 positive cases had no gender specification					

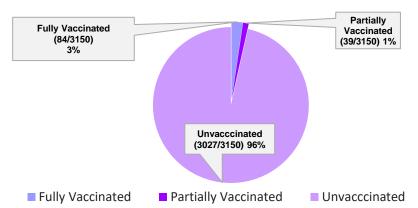


\* 9 PCR or Antigen tests are used to confirm cases

#### **COVID-19** Outcomes

Outcomes	EW 41	Total			
ACTIVE		55			
*2 weeks*		55			
DIED – COVID	0	3712			
Related	0	5/12			
Died - NON	0	345			
COVID	0				
Died - Under	0	263			
Investigation	0	205			
Recovered and	9	103215			
discharged	9	103215			
Repatriated	0	93			
Total		156647			
*Vaccination programme March 2021 – YTD					

3150 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths

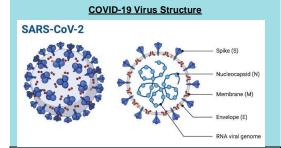


**COVID19** Cases by Parish

107

\* Total as at current Epi week

#### COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statisticts EW38-EW41						
Epi Week	Confirmed Cases	Deaths				
38	137,772	1,590				
39	139,444	1,011				
40	121,462	485				
41	103,556	1,653				
Total (4weeks)	502,234	4,739				

6 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

4647

8831

5223

8945

6621

11554

7875

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St. Arr

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



Total Cases

4028

5990

EW 41 Cases

SENTINEL REPORT- 78 sites. Automatic reporting

Leaend

Legend

October 8 - October 14, 2023 4 - 6

red: October 26, 2023

COVID19 Cases by Parish

Date

8946 - 17996

17997 - 28191

28192 - 41772

1-3

ed COVID19

4028 - 5990

5991 - 8945

Cases by Parish



#### October 27, 2023

## NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

## *EW41*

#### October 8 - October 14, 2023 Epidemiological Week 41

2000

2.5% 2.0% 1.5% 1.0% 0.5% 0.0%

> 1 3 5

SARI 2023

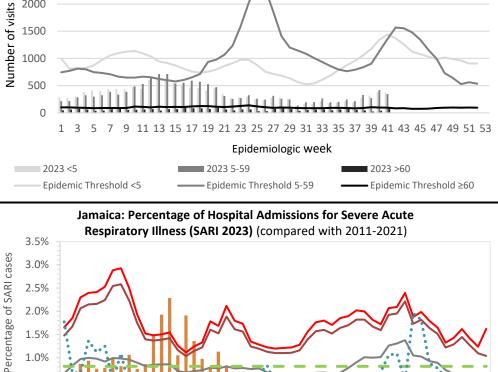
Epidemic Threshold

9

	EW 41	YTD				
SARI cases	6	459				
Total Influenza positive Samples	0	183				
Influenza A	0	19				
H3N2	0	1				
H1N1pdm09	0	17				
Not subtyped	0	1				
Influenza B	0	164				
B lineage not determined	0	2				
B Victoria	0	162				
Parainfluenza	0	1				
Adenovirus	0	2				
RSV	0	14				
Epi Week Summary						

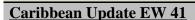
Weekly visits to Sentinel Sites for Influenza-like Illness (ILI) All ages 2023 vs Weekly Threshold; Jamaica 2500

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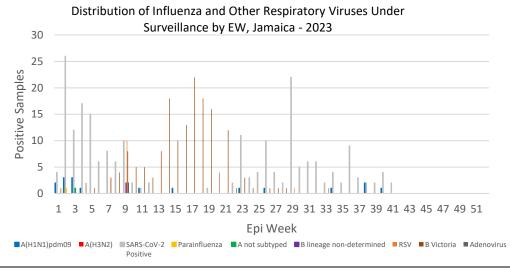


admissions were reported.

During EW 41, six (6) SARI



Caribbean: Influenza activity continues to show a decreasing trend in the last four EWs. During this period, the predominant viruses have been influenza B/Victoria, with lesser circulation of influenza A, mainly A(H1N1)pdm09. RSV activity has remained low. SARS-CoV-2 activity has been at intermediate levels of circulation. Cases of ILI and SARI have shown a decreasing trend in the last four EWs. Barbados, Guyana, Jamaica, and Saint Lucia have maintained elevated levels of SARSCoV-2 circulation.



Epidemiological Week

Seasonal Trend

Average epidemic curve (2011-2021)

NOTIFICATIONS-7 All clinical sites

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

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53

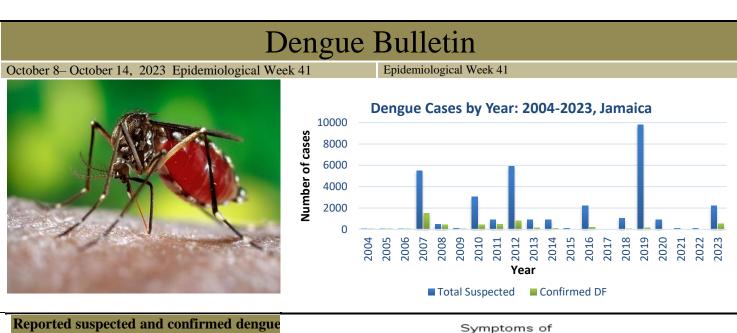
SENTINEL REPORT- 78 sites. Automatic reporting

Alert Threshold

•••• • • SARI 2022



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with symptom onset in week 41 of 2023						
	2023*					
	EW 41	YTD				
Total Suspected & Confirmed Dengue Cases	28	2200				
Lab Confirmed Dengue cases	0	507				
CONFIRMED Dengue Related Deaths	0	2				

\*Figure as at October 14, 2023

**Only PCR positive dengue cases** 

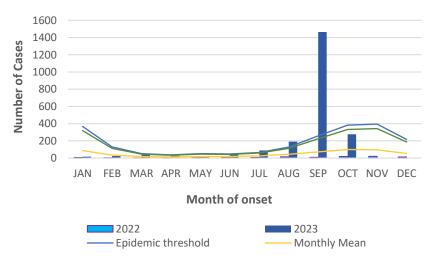
IgM positive cases are classified

are reported as confirmed.

as presumed dengue.

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

Suspected dengue cases for 2022 and 2023 versus monthly mean, alert, and epidemic thresholds (2007-2022)



8 NOTIFICATIONS-All clinical sites

Points to note:

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INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





## **RESEARCH PAPER**

#### Abstract

#### NHRC\_22\_06

# The Impact of Screen Time Activities on Physical Activity Levels in Jamaican Adolescents aged 13-17 Years Old.

Facey K<sup>1</sup>, Tulloch-Reid M.K<sup>1</sup>, Guthrie-Dixon N<sup>1</sup>, Wilson L<sup>1</sup>, Christie S<sup>1</sup>, Smith J.A<sup>1</sup>

<sup>1</sup> Caribbean Institute for Health Research, the University of the West Indies, Mona, Jamaica

**Objectives:** To examine the relationship of screen time (ST) with recreational and extra-curricular moderate-to-vigorous physical activity (MVPA) in a sample of 13-17-year-old Jamaican urban high school students.

**Methods:** A cross-sectional study of 216 students was conducted in 5 high schools in Kingston. After obtaining parental consent and student assent, a self-administered questionnaire was used to evaluate ST, recreational and, private extra-curricular MVPA. Daily hours of ST were determined and categorized as passive (TV watching), social (use of social media) and, interactive (video games). ST association with the primary outcome, daily minutes of MVPA was examined using multivariable logistic regression.

**Results:** The 216 adolescents (73% girls; mean age 14±0.8years) were recruited from co-educational (40%), all-boys (20%), and all-girls (40%) schools. Almost half (46%) reported participating in private extracurricular PA, (boys-median[IQR]=39[26-77]min/day; girls=42[17-85]min/day; P=0.61) while 60% reported recreational PA (boys-median[IQR]=38[17-64]min/day; girls=12.5[6-26]min/day; P <0.001). While there were no sex differences in average daily hours of passive ST (median[IRQ]=4.0[1.5-8.0]hrs/day) and social ST (median[IRQ]=8.0[5.0-10.0]hrs/day), boys reported more interactive ST (median[IRQ]=4.5[1.3-7.5]hrs/day) compared to girls (median[IRQ]=0.5[0-2]hrs/day; p<0.001). In logistic regression models interactive ST was associated with increased odds of meeting recreational (OR[95%CI]=1.13[1.01-1.26]) and private extracurricular (OR[95%CI]=1.13[1.00-1.28]) MVPA targets after adjusting for age, sex, BMI and SES. No significant associations were found between passive and social ST and MVPA targets.

**Conclusion:** Improved understanding of why interactive ST may increase the odds of meeting MVPA targets could guide physical activity interventions in adolescents.



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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

