WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Obesity and overweight



Overweight and obesity are defined as abnormal or excessive fat accumulation that may impair health.

Body mass index (BMI) is a simple index of weight-for-height that is commonly used to classify overweight and obesity in adults. It is defined as a

person's weight in kilograms divided by the square of his height in meters (kg/m^2) .

Adults

For adults, WHO defines overweight and obesity as follows:

- overweight is a BMI greater than or equal to 25; and
- obesity is a BMI greater than or equal to 30.

BMI provides the most useful population-level measure of overweight and obesity as it is the same for both sexes and for all ages of adults. However, it should be considered a rough guide because it may not correspond to the same degree of fatness in different individuals.

For children, age needs to be considered when defining overweight and obesity.

Children under 5 years of age

For children under 5 years of age:

- overweight is weight-for-height greater than 2 standard deviations above WHO Child Growth Standards median; and
- obesity is weight-for-height greater than 3 standard deviations above the WHO Child Growth Standards median.

EPI WEEK 20



- Syndromic Surveillance
- Accidents
- Violence

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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 –
17 to 20 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

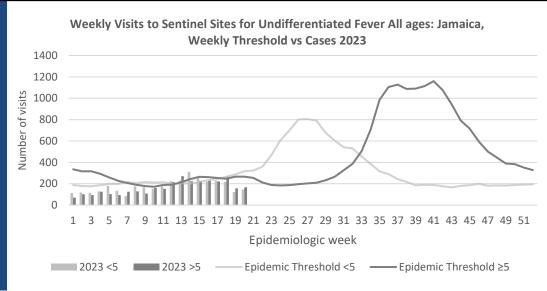
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
2023													
17	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
18	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
19	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
20	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

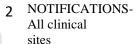
REPORTS FOR SYNDROMIC SURVEILLANCE

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.









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 $>38^{\circ}C$ /100.40F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.



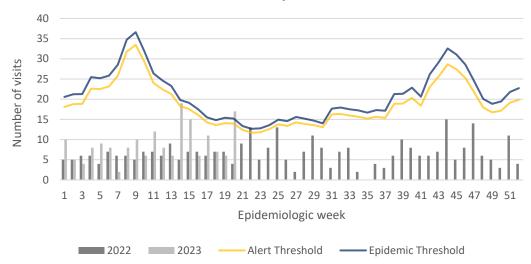
FEVER AND JAUNDICE

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

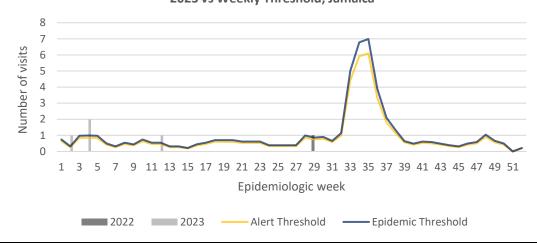
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.

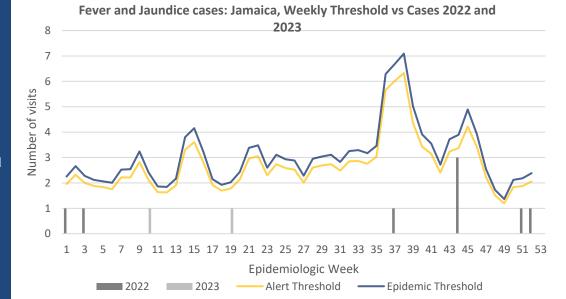


Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2022 and 2023 vs. Weekly Threshold: Jamaica



Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2022 and 2023 vs Weekly Threshold; Jamaica







sites

All clinical



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



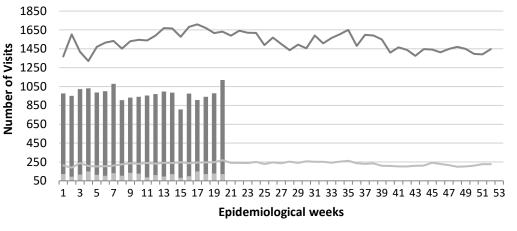


ACCIDENTS

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 2023 vs Weekly Threshold; Jamaica



≥5 y/o Cases

<5 y/o Cases —

— Epidemic Threshold≥5

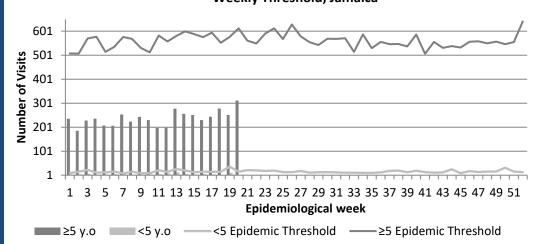
Epidemic Threshold<5

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 2023 vs Weekly Threshold; Jamaica

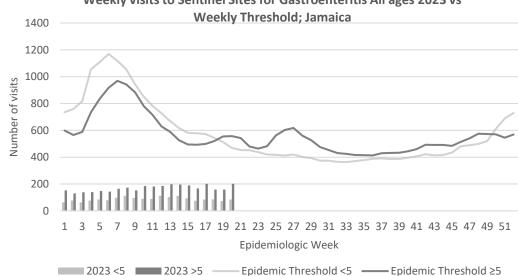


GASTROENTERITIS

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 2023 vs





NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





June 07, 2023 ISSN 0799-3927

CLASS ONE NOTIFIABLE EVENTS

Comments

CL/100 O	TETTOTH I	ADLE EVENTS			Comments	
			Confirm	ed YTD^{α}	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	oisoning	128^{β}	100^{β}	AFP should be 1/100,000	
ij	Cholera		0	0	population under 15 years old (6 to 7) cases annually.	
oN∕	Dengue Hem	orrhagic Fever ^γ	See Dengue page below	See Dengue page below	old (0 to 7) cases annually.	
ATI	COVID-19 (S	SARS-CoV-2)	2114	38363	Pertussis-like syndrome	
NATIONAL /INTERNATIONAL INTEREST	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically	
L /INTERN INTEREST	Hepatitis B		22	8	confirmed classifications.	
AL /	Hepatitis C		8	2	——————— γ Dengue Hemorrhagic	
NO/NO	HIV/AIDS		N/A	N/A	Fever data include Dengue	
ATI	Malaria (Imp	oorted)	1	0	related deaths;	
Z	Meningitis (C	Clinically confirmed)	12	11	δ Figures include all deaths	
	Monkeypox		3	N/A	associated with pregnancy	
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.	
TY TY	Meningococc	al Meningitis	0	0	^ε CHIKV IgM positive	
H IGH MORBIDITY/ MORTALITY	Neonatal Teta	anus	0	0	cases θ Zika PCR positive cases	
H I ORB	Typhoid Feve	er	0	0	β Updates made to prior	
M M	Meningitis H	/Flu	0	0	weeks in 2020.	
	AFP/Polio		0	0	^α Figures are cumulative	
	Congenital R	ubella Syndrome	0	0	totals for all	
70	Congenital Sy	yphilis	0	0	epidemiological weeks year to date.	
MES	Fever and	Measles	0	0	to date.	
SPECIAL PROGRAMMI	Rash	Rubella	0	0		
SOG	Maternal Dea	ıths ^δ	20	25		
L P	Ophthalmia N	Veonatorum	46	48		
CIA	Pertussis-like	syndrome	0	0		
SPE	Rheumatic Fe	ever	0	0		
	Tetanus		0	2		
	Tuberculosis		10	13		
	Yellow Fever		0	0		
	Chikungunya	E	0	0		
	Zika Virus ^θ		0	0	NA- Not Available	





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



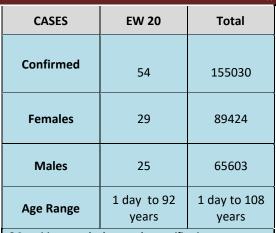
HOSPITAL ACTIVE SURVEILLANCE- $30\ sites.$ Actively pursued



June 07, 2023 ISSN 0799-3927

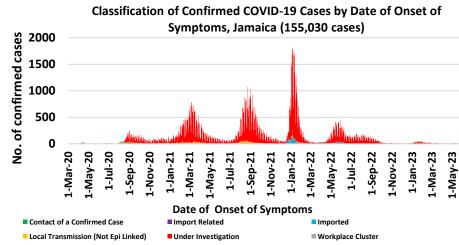
COVID-19 Surveillance Update

March 10, 2020 – EW 20, 2023





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

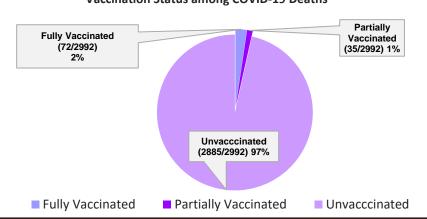


COVID-19 Outcomes

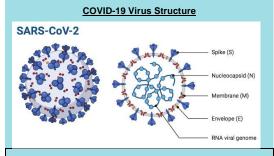
Outcomes	EW 20	Total	
ACTIVE *past 2 weeks*		114	
DIED – COVID Related	1	3550	
Died - NON COVID	0	301	
Died - Under Investigation	0	345	
Recovered and discharged	7	102982	
Repatriated	0	93	
Total		155030	

^{*}Vaccination programme March 2021 – YTD

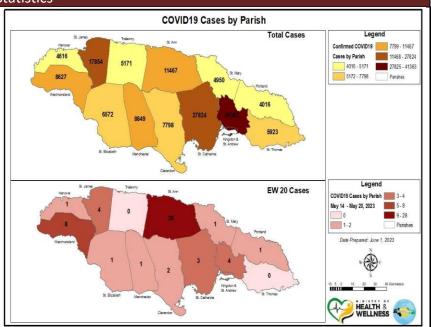
2992 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statisticts EW17-EW20					
Epi Week	Confirmed Cases	Deaths			
17	619,374	4247			
18	565,881	4548			
19	442,609	2192			
20	361,683	1579			
Total (4weeks)	1,989,547	12,566			



6 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

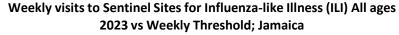


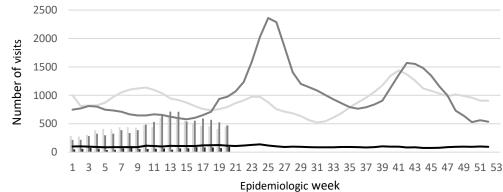
NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 20

May 14 - May 20, 2023 Epidemiological Week 20

	EW 20	YTD
SARI cases	9	335
Total Influenza positive Samples	0	82
Influenza A	0	13
H3N2	0	1
H1N1pdm09	0	11
Not subtyped	0	1
Influenza B	0	69
B lineage not determined	0	2
B Victoria	0	67
Parainfluenza	0	1
Adenovirus	0	2
RSV	0	13





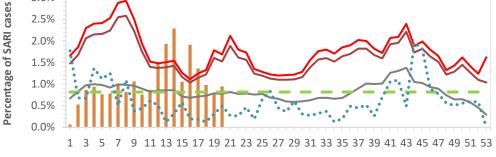
2023 5-59 2023 >60

2023 < 5 - Epidemic Threshold ≥60 Epidemic Threshold <5 Epidemic Threshold 5-59

Epi Week Summary

During EW 20, nine (9) SARI admissions were reported.

Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2023) (compared with 2011-2021) 3.5% 3.0%



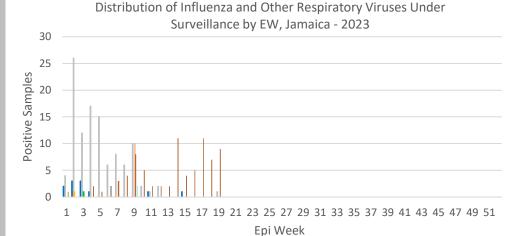
Epidemiological Week

SARI 2023 Average epidemic curve (2011-2021) Epidemic Threshold Seasonal Trend

 Alert Threshold • • • • • • SARI 2022

Caribbean Update EW 20

Caribbean: Influenza activity has shown a rise in recent weeks with medium levels of activity; however a decreasing trend has been observed in the past 2 EWs. During the last 4 EW, the predominant influenza viruses have been B/Victoria, with less circulation of influenza A (mostly A(H1N1)pdm09). RSV activity has remained low. SARS-CoV-2 activity has shown an increase in the past 3 EWs circulating at moderate levels. SARI activity has shown a decreasing trend, with most cases related to influenza and ILI activity has remained at low levels.



■A(H1N1)pdm09 ■A(H3N2) ■SARS-CoV-2 ■Parainfluenza ■A not subtyped ■RSV ■B Victoria ■Adenovirus ■B lineage non-determined

NOTIFICATIONS-All clinical sites



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2.5%



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



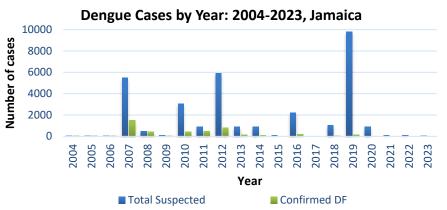


Dengue Bulletin

May 14 – May 20, 2023 Epidemiological Week 20

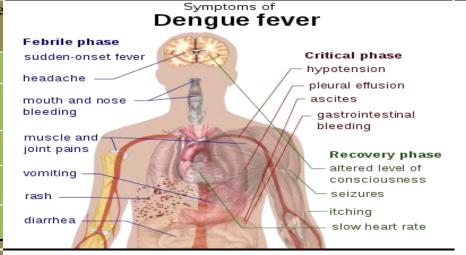
Epidemiological Week 20





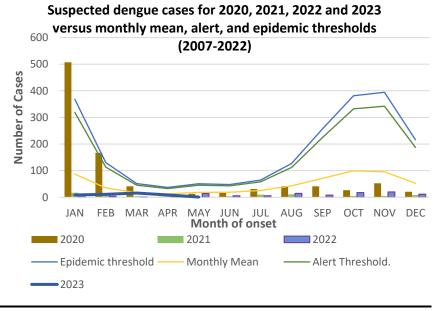
Reported suspected and confirmed dengue with symptom onset in week 20 of 2023

	2023*				
	EW 20	YTD			
Total Suspected Dengue Cases	4	51			
Lab Confirmed Dengue cases	0	0			
CONFIRMED Dengue Related Deaths	0	0			



Points to note:

- *Figure as at May 20, 2023
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.









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REPORTS- Detailed Follow
up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



June 07, 2023 ISSN 0799-3927

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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NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

