WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Adolescent Mental Health



Adolescence is a unique and formative time. Physical, emotional and social changes, including exposure to poverty, abuse, or violence, can make adolescents vulnerable to mental health problems. Protecting adolescents from adversity, promoting socioemotional learning and psychological well-being, and ensuring access to mental health care are critical for their health and well-being

during adolescence and adulthood. Adolescents with mental health conditions are particularly vulnerable to social exclusion, discrimination, stigma (affecting readiness to seek help), educational difficulties, risk-taking behaviours, physical ill-health and human rights violations.

Mental health determinants

Adolescence is a crucial period for developing social and emotional habits important for mental well-being. These include adopting healthy sleep patterns; exercising regularly; developing coping, problem-solving, and interpersonal skills; and learning to manage emotions. Protective and supportive environments in the family, at school and in the wider community are important.

Multiple factors affect mental health. The more risk factors adolescents are exposed to, the greater the potential impact on their mental health. Factors that can contribute to stress during adolescence include exposure to adversity, pressure to conform with peers and exploration of identity. Media influence and gender norms can exacerbate the disparity between an adolescent's lived reality and their perceptions or aspirations for the future. Other important determinants include the quality of their home life and relationships with peers. Violence (especially sexual violence and bullying), harsh parenting and severe and socioeconomic problems are recognized risks to mental health.

Some adolescents are at greater risk of mental health conditions due to their living conditions, stigma, discrimination or exclusion, or lack of access to quality support and services. These include adolescents living in humanitarian and fragile settings; adolescents with chronic illness, autism spectrum disorder, an intellectual disability or other neurological condition; pregnant adolescents, adolescent parents, or those in early or forced marriages; orphans; and adolescents from minority ethnic or sexual backgrounds or other discriminated groups.

https://www.who.int/news-room/fact-sheets/detail/adolescent-mental-health

EPI WEEK 4



- Syndromic Surveillance
- Accidents
- Violence

Pages 2-4



Class 1 Notifiable Events

Page 5



COVID-19

Page 6



Influenza

Page 7



Dengue Fever

Page 8



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 -**1 to 4 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**

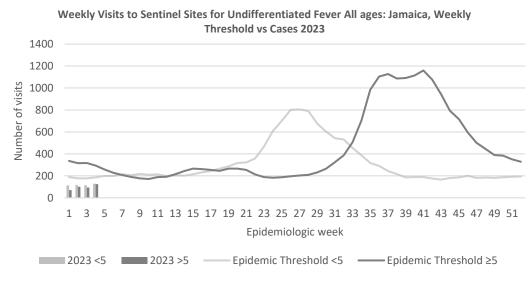
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
2023													
1	On	On	Late	On	On	On	On	On	On	On	On	On	On
	Time	Time	(T)	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
2	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
3	On	Late	On	On	On	On	On	On	On	On	On	On	On
	Time	(T)	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
4	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 $>38^{\circ}C$ $/100.4^{\circ}F$ (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.



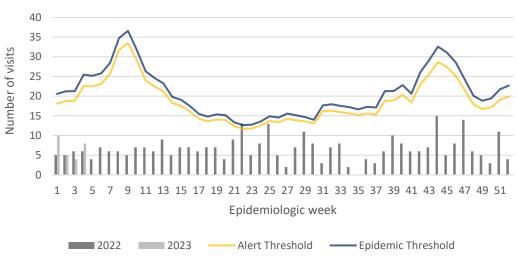
FEVER AND JAUNDICE

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

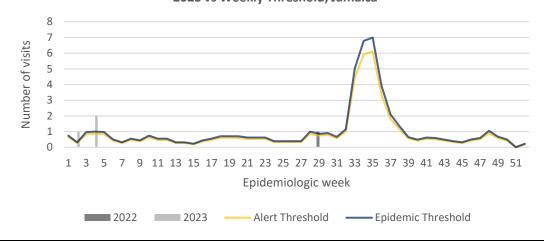
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.

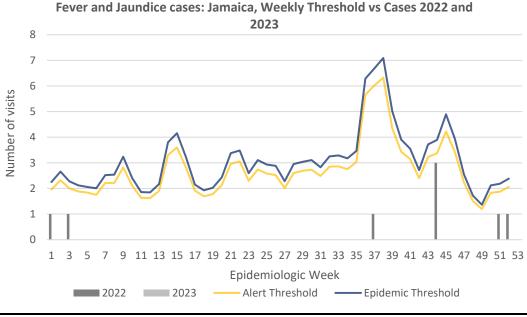


Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2022 and 2023 vs. Weekly Threshold: Jamaica



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









INVESTIGATION
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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

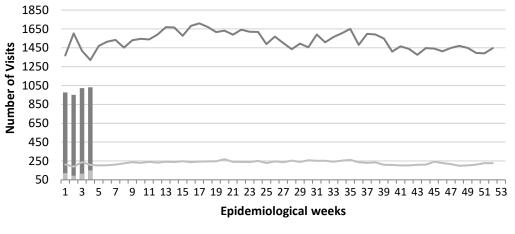


ACCIDENTS

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 —</pre>

— Epidemic Threshold≥5

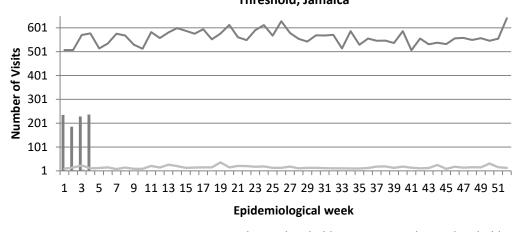
Epidemic Threshold<5

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



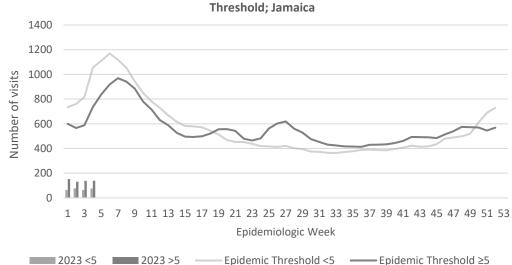
-<5 Epidemic Threshold ——≥5 Epidemic Threshold ≥5 y.o <5 y.o

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 2023 vs Weekly





NOTIFICATIONS-All clinical sites



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		
	CLASS 1 EVENTS		CURRENT PREVIOUS YEAR 2023 YEAR 2022		WHO indicate that for an effective surveillance		
	Accidental Po	oisoning	19 ^β	22^{β}	system, detection rates for AFP should be 1/100,000		
님	Cholera		0	0	population under 15 years		
NATIONAL /INTERNATIONAL INTEREST	Dengue Hem	orrhagic Fever ^γ	See Dengue page below	See Dengue page below	old (6 to 7) cases annually.		
ATI	COVID-19 (S	SARS-CoV-2)	759	27841	Pertussis-like syndrome		
EST	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically		
L /INTERN INTEREST	Hepatitis B		0	0	confirmed classifications.		
IL/I	Hepatitis C		0	0	——————— ^γ Dengue Hemorrhagic		
/NO	HIV/AIDS		NA	NA	Fever data include Dengue		
ATI	Malaria (Imp	ported)	0	0	related deaths;		
Z	Meningitis (C	Clinically confirmed)	2	0	δ Figures include all deaths		
	Monkeypox		0	N/A	associated with pregnancy		
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.		
TY TY	Meningococc	eal Meningitis	0	0	^ε CHIKV IgM positive		
H IGH RBIDIT	Neonatal Teta	anus	0	0	cases θ Zika PCR positive cases		
H IGH MORBIDITY/ MORTALITY	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 S	yphilis	0	0	epidemiological weeks year to date.		
MES	Fever and	Measles	0	0			
SPECIAL PROGRAMM	Rash	Rubella	0	0			
\$00	Maternal Dea	ıths ^δ	0	6			
L P	Ophthalmia N	Veonatorum	9	8			
CIA	Pertussis-like	syndrome	0	0			
SPE	Rheumatic Fe	ever	0	0			
	Tetanus		0	0			
	Tuberculosis		0	2			
	Yellow Fever		0	0			
	Chikungunya		0	0			
	Zika Virus ^θ			0	NA- Not Available		





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

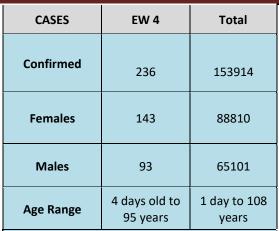


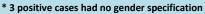
HOSPITAL pursued



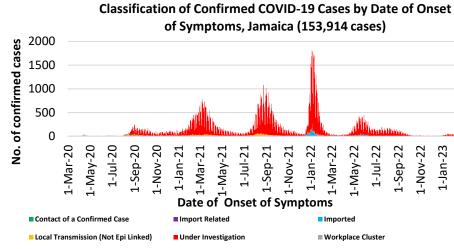
COVID-19 Surveillance Update

March 10, 2020 - EW 4, 2023





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

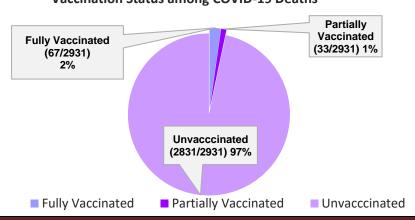


COVID-19 Outcomes

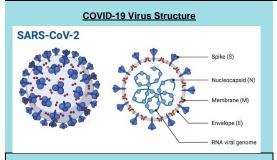
Outcomes	EW 4	Total	
ACTIVE *past 2 weeks*		490	
DIED – COVID	2	2400	
Related	2	3490	
Died - NON COVID	0	299	
Died - Under Investigation	0	347	
Recovered and discharged	76	102342	
Repatriated	0	93	
Total		153914	

^{*}Vaccination programme March 2021 - YTD

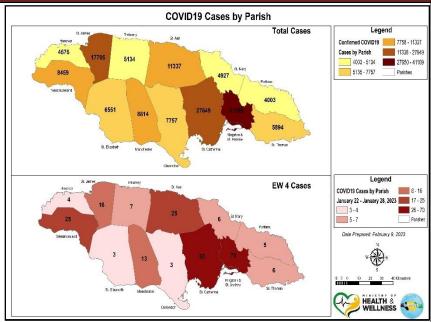
2931 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statisticts EW1-EW4					
Epi Week	Confirmed Cases	Deaths			
1	2,640,014	12,537			
2	1,899,573	12,937			
3	1,538,715	13,444			
4	462,462	2,118			
Total (4weeks)	6,540,764	41,036			



6 NOTIFICATIONS-All clinical sites



INVESTIGATION
REPORTS- Detailed Follow
up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

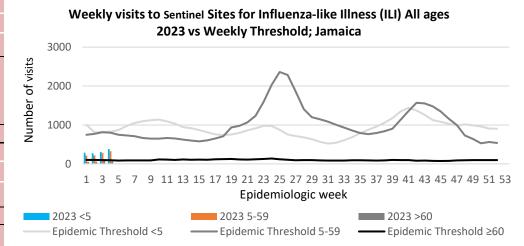


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW4

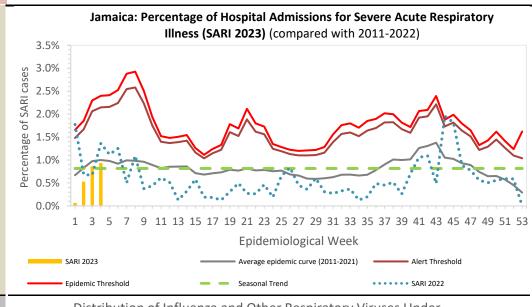
January 22- January 28, 2023 Epidemiological Week 4

	EW4	YTD
SARI cases	16	40
Total Influenza positive Samples	1	7
Influenza A	0	7
H3N2	0	1
H1N1pdm09	1	6
Not subtyped	0	0
Influenza B	0	0
Parainfluenza	0	1



Epi Week Summary

During EW4 sixteen(16) SARI admissions were reported.



Caribbean Update EW 4

Caribbean: Influenza activity increased in the subregion with A(H1N1)pdm09 predominance and B/Victoria cocirculation. In addition, influenza activity was elevated in Belize, French Guiana, and Haiti. The SARS-CoV-2 activity was moderate and increasing, while RSV activity was at baseline levels.

Distribution of Influenza and Other Respiratory Viruses Under Surveillance by EW, Jamaica 2023 30 25 Positive Samples 20 15 10 5 0 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 Epi Week A(H1N1)pdm09 A(H3N2) SARS-CoV-2 Parainfluenza ■ A not subtyped Positive

7 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

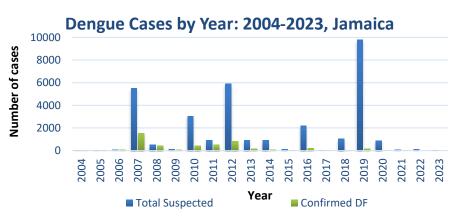


Dengue Bulletin

January 22- January 28, 2023 Epidemiological Week 4

Epidemiological Week 4





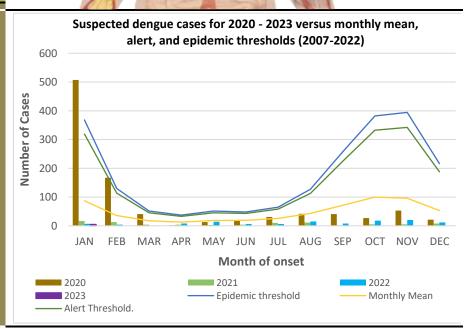
Reported suspected and confirmed dengue with symptom onset in week 4 of 2023

	2023*				
	EW 4	YTD			
Total Suspected Dengue Cases	2	5			
Lab Confirmed Dengue cases	0	0			
CONFIRMED Dengue Related Deaths	0	0			

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

Points to note:

- *Figure as at Jan 28, 2023
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



RESEARCH PAPER

Abstract

Risk Factors Associated with Glaucoma and Cataract among Patients Attending an Eye Clinic in Jamaica

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Objectives:

To determine association between demographic, medical and social variables and glaucoma and cataract in a Jamaican patient population.

Methods:

A descriptive cross-sectional study was done at the University Hospital of the West Indies Eye Clinic, where data was extracted from 370 randomly selected files of patients who attended the clinic between January and March 2017. Data extracted included demographic data and patient medical history. Ethical approval was obtained from the UHWI/UWI/FMS Ethics Committee. Statistical analyses were performed using SPSS Statistics software. To determine association between variables, Chi-squared tests and Spearman's correlation analyses were done, p<0.05 indicating statistical significance.

Results:

Glaucoma (45.4%) and cataract (33.8%) were the most frequently reported chronic ocular diseases, and the cases increased with age (p<0.001). More females than males presented with glaucoma and cataract. Statistically significant associations were found between glaucoma and a patient history of cataract or pterygium (p<0.007); while cataract was significantly associated with a patient history of physical trauma or retinopathy (p<0.047). In relation to coexisting non-ocular conditions, cataract was significantly associated with hypertension, diabetes mellitus and hypercholesterolemia (p<0.001); while glaucoma was associated with hypertension (p<0.001). Family histories of hypertension, sickle cell disease, glaucoma or blindness were significantly associated with the presence of glaucoma (p<0.05), but not with cataract (p>0.1). Glaucoma and cataract were not significantly associated with alcohol drinking or smoking.

Conclusion: A significant association was found between presence of glaucoma and presence of cataract. Hypertension was significantly associated with glaucoma and cataract; higher frequencies being associated with glaucoma and cataract.



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