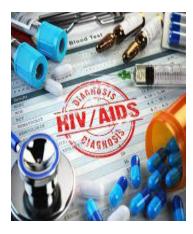
WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

HIV and AIDS



Human immunodeficiency virus (HIV) is an infection that attacks the body's immune system. Acquired immunodeficiency syndrome (AIDS) is the most advanced stage of the disease.HIV targets the body's white blood cells, weakening the immune system. This makes it easier to get sick with diseases like tuberculosis, infections and some cancers.

HIV can be diagnosed through rapid diagnostic tests that provide same-day results. This greatly facilitates early diagnosis and linkage with treatment and care. People can also use HIV self-tests to test themselves. However, no single test can provide a full HIV positive diagnosis; confirmatory testing is required, conducted by a qualified and trained health or community worker at a community centre or clinic. HIV infection can be detected with great accuracy using WHO prequalified tests within a nationally approved testing strategy and algorithm.

Most widely used HIV diagnostic tests detect antibodies produced by the person as part of their immune response to fight HIV. In most cases, people develop antibodies to HIV within 28 days of infection. During this time, people experience the so-called window period when they may have no signs of HIV infection but may transmit HIV to others. Following a positive diagnosis, people should be retested before they are enrolled in treatment and care to rule out any potential testing or reporting error. While testing for adolescents and adults has been made simple and efficient, this is not the case for babies born to HIV-positive mothers. For children less than 18 months of age, rapid antibody testing is not sufficient to identify HIV infection – virological testing must be provided as early as birth or at 6 weeks of age. New technologies are now available to perform this test at the point of care and enable same-day results, which will accelerate appropriate linkage with treatment and care.

https://www.who.int/news-room/fact-sheets/detail/hiv-aids

WEEK 18



- Syndromic Surveillance
- Accidents
- Violence

Pages 2-4



Class 1 Notifiable Events

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COVID-19

Page 6



Influenza

Page 7



Dengue Fever

Page 8



Research Paper

Page 9

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 –
15 to 18 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

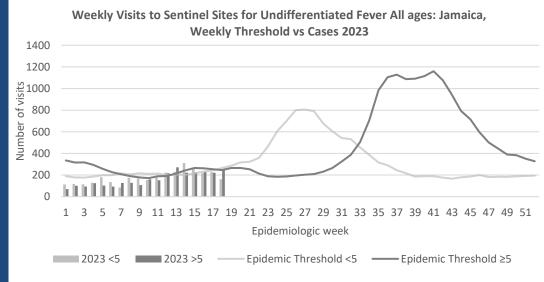
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
	2023												
15	On	On	late	On	On	On	On	On	On	On	On	On	On
	Time	Time	(t)	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
16	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
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

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.





2 NOTIFICATIONS-All clinical sites



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.



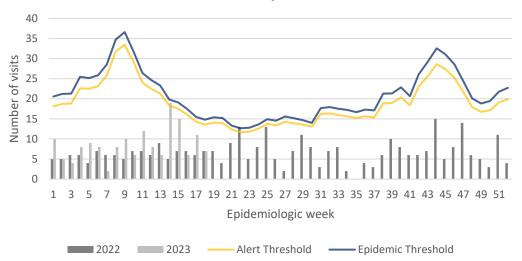
FEVER AND JAUNDICE

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

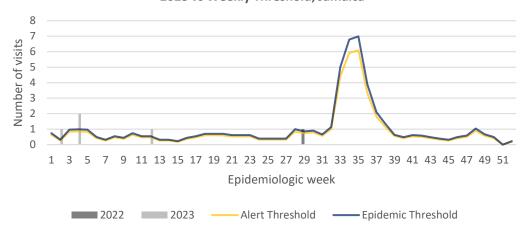
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



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



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

8
7
6
9
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
51
53
Epidemiologic Week

2022
2023
Alert Threshold
Epidemic Threshold





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



pursued

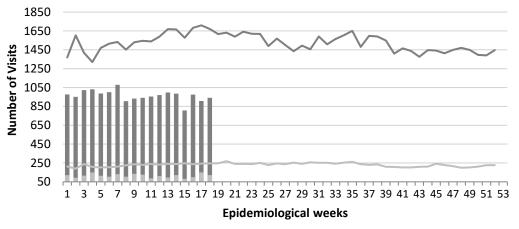


ACCIDENTS

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

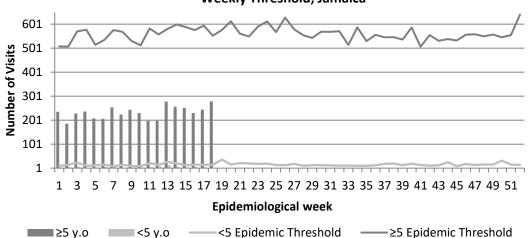
Epidemic Threshold<5

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

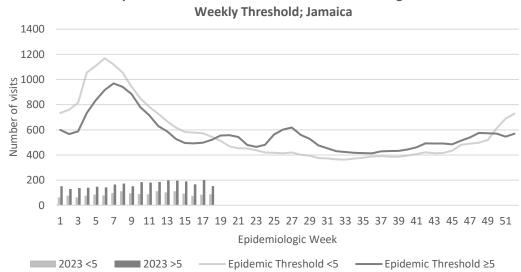


GASTROENTERITIS

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



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



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





May 19, 2023 ISSN 0799-3927

CLASS ONE NOTIFIABLE EVENTS

Comments

021100 01					0 0 1111111111		
			Confirm	ned 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	110^{β}	87β	AFP should be 1/100,000		
1	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)	1991	34391	Pertussis-like syndrome		
EST	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically		
L /INTERN INTEREST	Hepatitis B		16	4	confirmed classifications.		
NATIONAL /INTERNATIONAL INTEREST	Hepatitis C		4	2	—————————————————————————————————————		
ON∕	HIV/AIDS		N/A	N/A	Fever data include Dengue		
ATI	Malaria (Imp	oorted)	1	0	related deaths;		
Z	Meningitis (C	Clinically confirmed)	12	9	δ Figures include all deaths		
	Monkeypox		3	N/A	associated with pregnancy		
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.		
.Y.	Meningococc	al Meningitis	0	0	^ε CHIKV IgM positive		
H IGH RBIDIT	Neonatal Teta	anus	0	0	d Zilva DCD mositive access		
H IGH MORBIDITY/ MORTALITY	Typhoid Feve	er	0	0	^θ Zika PCR positive cases		
M M	Meningitis H	/Flu	0	0	β Updates made to prior weeks in 2020.		
	AFP/Polio		0	0	α Figures are cumulative		
	Congenital R	ubella Syndrome	0	0	totals for all		
7.0	Congenital Sy	yphilis	0	0	epidemiological weeks year to date.		
MES	Fever and	Measles	0	0	to dute.		
SPECIAL PROGRAMM	Rash	Rubella	0	0			
SOG	Maternal Dea	ths ^δ	17	25			
L P.	Ophthalmia N	Veonatorum	41	42			
CIA	Pertussis-like	syndrome	0	0			
SPE	Rheumatic Fe	ever	0	0			
	Tetanus		0	2			
	Tuberculosis		10	12			
	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



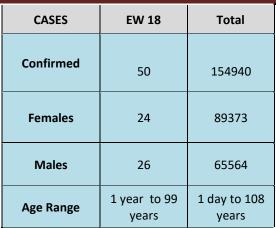
HOSPITAL ACTIVE SURVEILLANCE- $30\ sites.$ Actively pursued

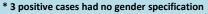


May 19, 2023 ISSN 0799-3927

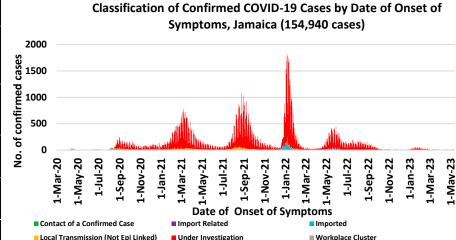
COVID-19 Surveillance Update

March 10, 2020 – EW 18, 2023





* PCR or Antigen tests are used to confirm cases

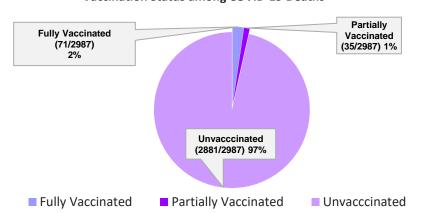


COVID-19 Outcomes

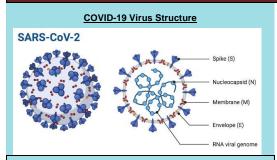
Outcomes	EW 18	Total	
ACTIVE *past 2 weeks*		97	
DIED – COVID Related	0	3545	
Died - NON COVID	0	300	
Died - Under Investigation	0	345	
Recovered and discharged	1	102923	
Repatriated	0	93	
Total		154940	

*Vaccination programme March 2021 – YTD

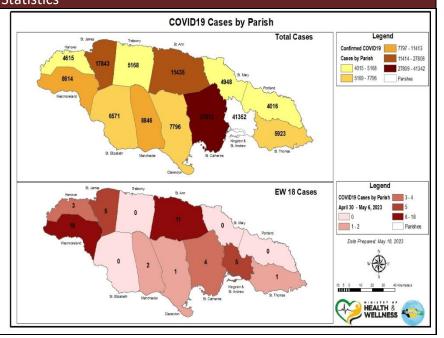
2987 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statisticts EW15-EW18					
Epi Week	Confirmed Cases	Deaths			
15	742,746	4720			
16	689,810	4215			
17	614,072	3905			
18	546,435	4266			
Total (4weeks)	2,593,063	17,106			



6 NOTIFICATIONS-All clinical sites



INVESTIGATION
REPORTS- Detailed Follow
up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

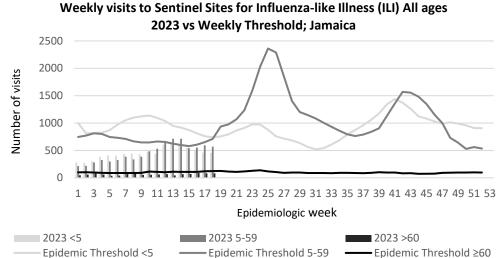


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 18

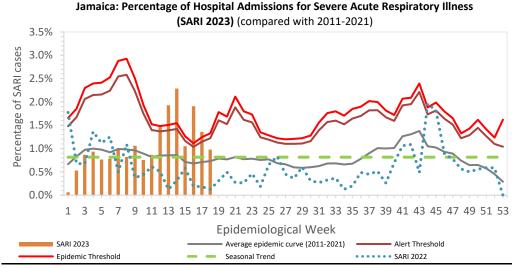
April 30 - May 6, 2023 Epidemiological Week 18

	EW 18	YTD
SARI cases	16	313
Total Influenza positive Samples	4	77
Influenza A	0	13
H3N2	0	1
H1N1pdm09	0	11
Not subtyped	0	1
Influenza B	4	64
B lineage not determined	0	2
B Victoria	4	62
Parainfluenza	0	1
Adenovirus	0	2
RSV	0	13



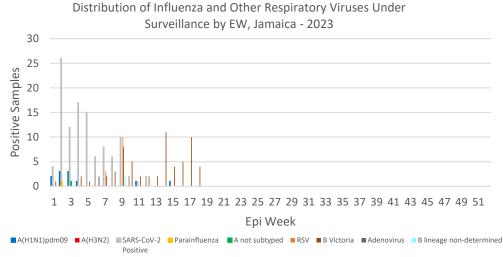
Epi Week Summary

During EW 18, sixteen (16) SARI admissions were reported.



Caribbean Update EW 18

Caribbean: An increase in influenza activity has been detected. Influenza B Victoria lineage has predominantly circulated. The countries where increases in activity have been detected are Belize and Jamaica. RSV and SARS-CoV-2 activity has remained low.







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

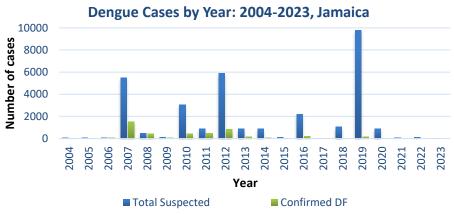


Dengue Bulletin

April 30 - May 6, 2023 Epidemiological Week 18

Epidemiological Week 18





Reported suspected and confirmed dengue with symptom onset in week 18 of 2023

	2023*				
	EW 18	YTD			
Total Suspected Dengue Cases	0	45			
Lab Confirmed Dengue cases	0	0			
CONFIRMED Dengue Related Deaths	0	0			

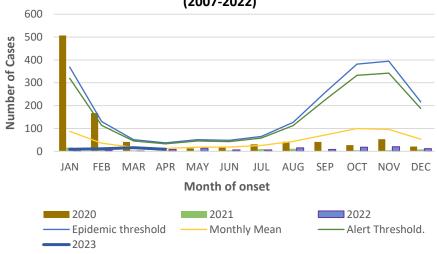
Dengue fever Febrile phase Critical phase sudden-onset fever hypotension headache pleural effusion mouth and nose ascites bleeding gastrointestinal bleeding muscle and joint pains Recovery phase altered level of vomiting consciousness rash itching diarrhea slow heart rate

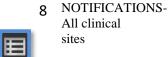
Symptoms of

Points to note:

- *Figure as at May 6, 2023
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

Suspected dengue cases for 2020, 2021, 2022 and 2023 versus monthly mean, alert, and epidemic thresholds (2007-2022)







INVESTIGATION
REPORTS- Detailed Follow
up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



May 19, 2023 ISSN 0799-3927

RESEARCH PAPER

Abstract

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

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²Department of Community Health and Psychiatry, The University of the West Indies, Mona, Kingston 7, Jamaica.

³Department of Ophthalmology, University Hospital of the West Indies, Mona, Kingston 7, Jamaica.

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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NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

