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

Weekly Spotlight

Mental Health



Mental health is a state of mental wellbeing that enables people to cope with the stresses of life, realize their abilities, learn well and work well, and contribute to their community. It is an integral component of health and wellbeing that underpins our individual and collective abilities to make decisions,

build relationships and shape the world we live in. Mental health is a basic human right. And it is crucial to personal, community and socio-economic development.

Concepts in mental health

Mental health is more than the absence of mental disorders. It exists on a complex continuum, which is experienced differently from one person to the next, with varying degrees of difficulty and distress and potentially very different social and clinical outcomes.Mental health conditions include mental disorders and psychosocial disabilities as well as other mental states associated with significant distress, impairment in functioning, or risk of self-harm. People with mental health conditions are more likely to experience lower levels of mental well-being, but this is not always or necessarily the case.

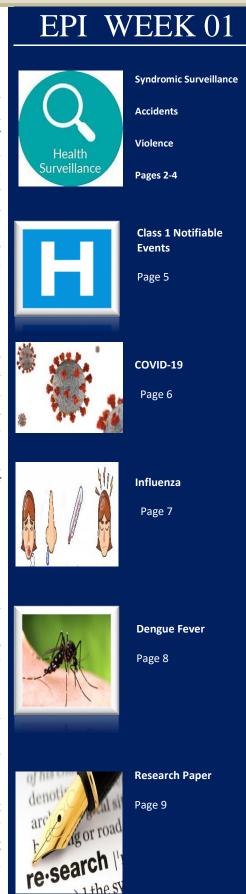
Determinants of mental health

Throughout our lives, multiple individual, social and structural determinants may combine to protect or undermine our mental health and shift our position on the mental health continuum.Individual psychological and biological factors such as emotional skills, substance use and genetics can make people more vulnerable to mental health problems.

Exposure to unfavourable social, economic, geopolitical and environmental circumstances – including poverty, violence, inequality and environmental deprivation – also increases people's risk of experiencing mental health conditions.

Risks can manifest themselves at all stages of life, but those that occur during developmentally sensitive periods, especially early childhood, are particularly detrimental. For example, harsh parenting and physical punishment is known to undermine child health and bullying is a leading risk factor for mental health conditions.

https://www.who.int/news-room/fact-sheets/detail/mental-health-strengthening-our-response



Sentinel Surveillance in Jamaica



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 50, 2023 to 1 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 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
						2023	- 2024						
50	On Time On	On Time On	On Time On	On Time Late	On Time On	Late (T) Late	On Time	On Time	On Time	On Time On	On Time	On Time	On Time
51	Time	Time	Time	(W)	Time	(W)	(W)	(W)	(W)	Time	(W)	(W)	(W)
52	On Time	On Time	On Time	Late (T)	On Time	On Time	On Time	On Time	On Time	Late (T)	On Time	On Time	On Time
1	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

REPORTS FOR SYNDROMIC SURVEILLANCE

Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica, Weekly Threshold vs Cases 2024

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.

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ry of		1200																	_	\sim							
is of	isits	1000																	$\left(\right)$			\rightarrow					
	Number of visits	800																-	1				/				
	mbei	600																+									
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			1	3	5	7	9	11	13 1	15	17					29 3 veek		33 3	35	37 3	89 41	43	3 4	5 47	7 49	51	
			202	4 <	5			202	24 ≥5		_	- Ep	iden	nic T	hre	esho	d <5	5	-		Epid	emi	c Tł	hrest	nold 2	≥5	

2 NOTIFICATIONS-All clinical sites

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INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

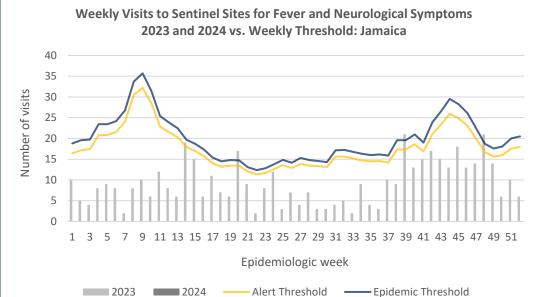




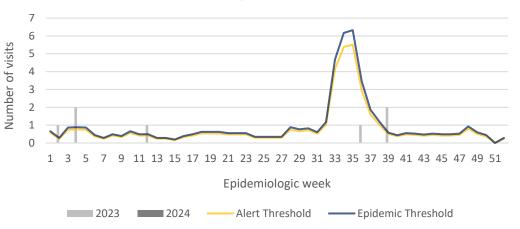
January 22, 2024

FEVER AND NEUROLOGICAL

Temperature of >38°C /100.4^oF (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 Jaundice cases: Jamaica, Weekly Threshold vs Cases 2023 and 2024

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.



NOTIFICATIONS-3 All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

2023

2024





9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51

Epidemiologic Week

- Alert Threshold

- Epidemic Threshold



FEVER AND

HAEMORRHAGIC

Temperature of >38°C

 $/100.4^{\circ}F$ (or recent history of

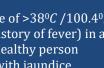
fever) in a previously healthy

(bleeding) manifestation with

person presenting with at

least one haemorrhagic





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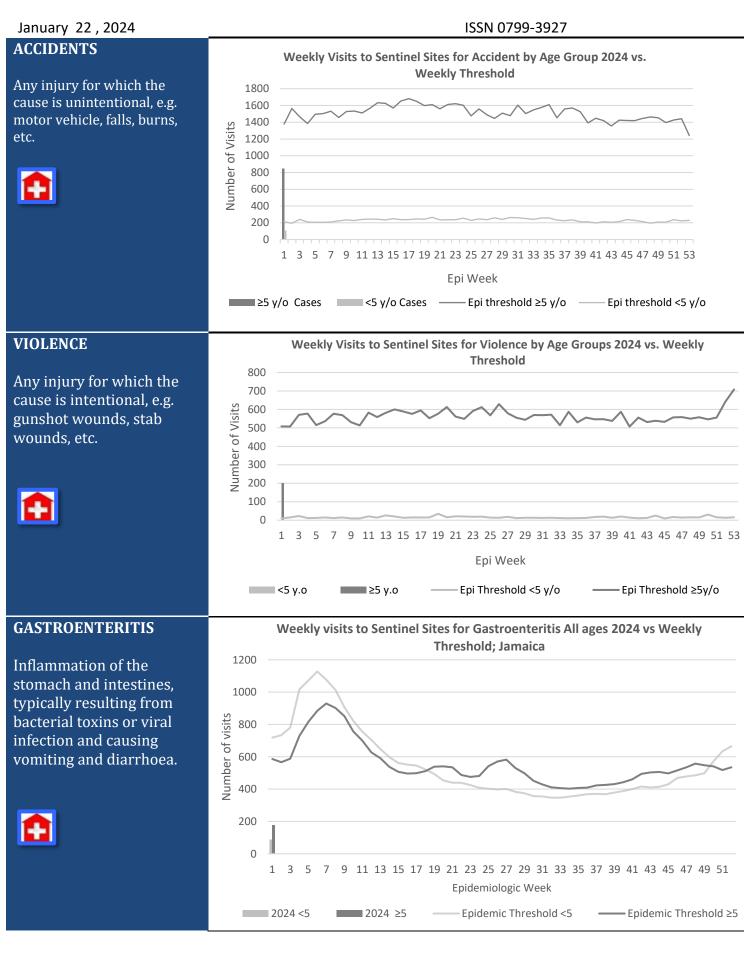
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1 3 5 7

Number of visits



4 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



ACTIVE SURVEILLANCE-30 sites. Actively pursued

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CLASS ONE NOTIFIABLE EVENTS

Comments

			. Confirm	ed YTD ^{α}	AFP Field Guides from				
	CLASS 1 E	VENTS	CURRENT YEAR 2024	PREVIOUS YEAR 2023	WHO indicate that for an effective surveillance system, detection rates for				
	Accidental Po	oisoning	3	8 ^β	AFP should be 1/100,000				
Ę	Cholera		0	0	population under 15 years old (6 to 7) cases annually.				
ANC	Dengue Hem	orrhagic Fever ⁷	See Dengue page below	See Dengue page below	old (6 to 7) cases annually.				
ATI	COVID-19 (S	SARS-CoV-2)	11	113	Pertussis-like syndrome				
ERN .	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically				
L /INTERN INTEREST	Hepatitis B		0	0	confirmed classifications.				
NATIONAL /INTERNATIONAL INTEREST	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		0	1	δ Figures include all deaths				
	Monkeypox		0	0	associated with pregnancy				
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.				
Y/ TY	Meningococc	al Meningitis	0	0	^ε CHIKV IgM positive				
H IGH)RBIDI)RTALI	Neonatal Teta	anus	0	0	cases ^θ Zika PCR positive cases				
H IGH Morbidity, Mortality	Typhoid Feve	er	0	0	_				
MC	Meningitis H	/Flu	0	0	^β Updates made to prior weeks.				
	AFP/Polio		0	0	$^{\alpha}$ Figures are cumulative				
	Congenital R	ubella Syndrome	0	0	totals for all				
	Congenital S	yphilis	0	0	epidemiological weeks year to date.				
MES	Fever and	Measles	0	0					
SPECIAL PROGRAMN	Rash	Rubella	0	0					
SOG	Maternal Dea	ιths ^δ	2	1	-				
L PF	Ophthalmia N	Neonatorum	1	0	-				
CIA	Pertussis-like	syndrome	0	0					
SPEG	Rheumatic Fe	ever	0	0					
	Tetanus		0	0	-				
	Tuberculosis		0	0					
	Yellow Fever		0	0					
	Chikungunya	3	0	0					
	Zika Virus ⁰		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





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COVID-19 Surveillance Update March 10, 2020 - EW 01, 2024

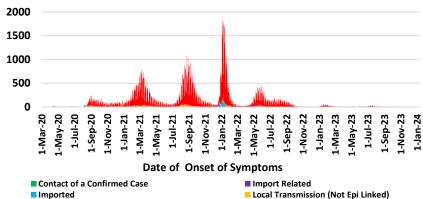
Under Investigation

No. of confirmed cases

CASES	EW 01	Total					
Confirmed	10	156739					
Females	8	90333					
Males	2	66403					
Age Range	6 months old to 86 years	1 day to 108 years					
* 3 positive cases had no gender specification * PCR or Antigen tests are used to confirm cases							

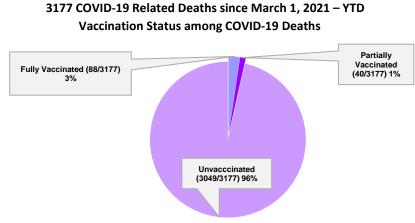
Classification of Confirmed COVID-19 Cases by Date of Onset of Symptoms, Jamaica (156,739 cases)

Workplace Cluster



COVID-19 Outcomes

Outcomes	EW 01	Total							
ACTIVE		10							
2 weeks		10							
DIED – COVID	0	3739							
Related	0	5739							
Died - NON	0	349							
COVID	0	545							
Died - Under	0	259							
Investigation	0	239							
Recovered and	0	103226							
discharged	0	105220							
Repatriated	0	93							
Total		156739							
*Vaccination programme March 2021 – YTD									



Partially Vaccinated

Total Cases

COVID19 Cases by Parish

St. An

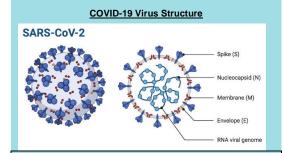
Fully Vaccinated

Unvacccinated

Legend

Confirmed COVID19 8955 - 18003

* Total as at current Epi week COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statisticts EW 50,2023-EW 1,2024								
Epi Week	Confirmed Cases	Deaths						
50	381,700	3200						
51	352,800	2700						
52	252,400	2000						
1	126,900	828						
Total (4weeks)	1,113,800	8,728						

4649 Cases by Parish 18004 - 28208 18003 5226 4028 - 6008 28209 - 41797 11558 6009 - 8954 8839 Parishes 4974 6623 8954 7875 008 Legend EW1 Cases S. Arr COVID19 Cases by Parish Dec. 31, 2023 - January 6, 2024 3-6 0 Date Prepared: January 18, 2024 * HEALTH & WELLNESS

NOTIFICATIONS-6 All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



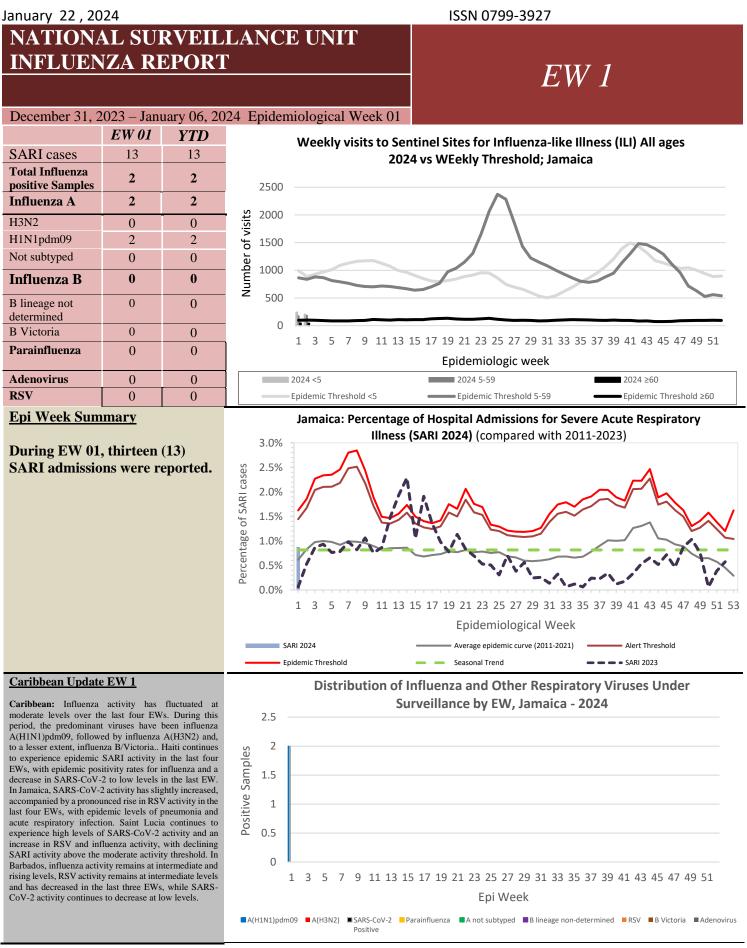
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting

1-2





7 NOTIFICATIONS-All clinical sites INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

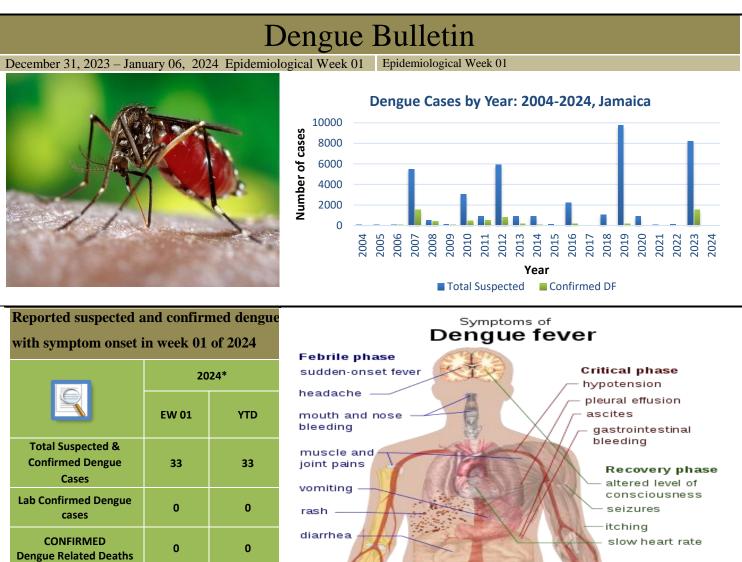


ACTIVE SURVEILLANCE-30 sites. Actively pursued

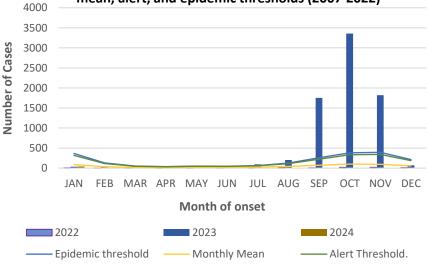
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Suspected dengue cases for 2022 - 2024 versus monthly mean, alert, and epidemic thresholds (2007-2022)



8 NOTIFICATIONS-All clinical sites

Points to note:



*Figure as at January 17, 2024

Only PCR positive dengue cases

IgM positive cases are classified

are reported as confirmed.

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.



The Ministry of Health and Wellness 24-26 Grenada Crescent Kingston 5, Jamaica Tele: (876) 633-7924 Email: surveillance@moh.gov.jm

 NOTIFICATIONS All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



