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

Why mental health is a priority for action on climate change

Climate action must <mark>include</mark> mental health



To protect people's physical and mental health from climate threats

The mental health impacts of climate change are unequally distributed with certain groups disproportionately affected depending on factors such as socioeconomic status, gender and age. However, it is clear that climate change affects many of the social determinants that are already leading to massive mental health burdens globally. A 2021 <u>WHO survey</u> of 95 countries found that only 9 have thus far included mental health and psychosocial support in their national health and climate change plans.

"The impact of climate change is compounding the already extremely challenging situation for mental health and mental health services globally. There are nearly 1 billion people living with mental health conditions, yet in low- and middleincome countries, 3 out of 4 do not have access to needed services," said Dévora Kestel, Director of the Department of Mental Health and Substance Abuse at WHO. "By ramping up mental health and psychosocial support within disaster risk reduction and climate action, countries can do more to help protect those most at risk."

The new WHO policy brief recommends 5 important approaches for governments to address the mental health impacts of climate change:

- integrate climate considerations with mental health programmes;
- integrate mental health support with climate action;
- build upon global commitments;
- develop community-based approaches to reduce vulnerabilities; and
- close the large funding gap that exists for mental health and psychosocial support.



Source: https://www.who.int/news/item/03-06-2022-why-mental-health-is-a-priority-for-action-onclimate-change



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SENTINEL SYNDROMIC SURVEILLANCE Sentinel Surveillance in



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 17 to 20 of 2022

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.

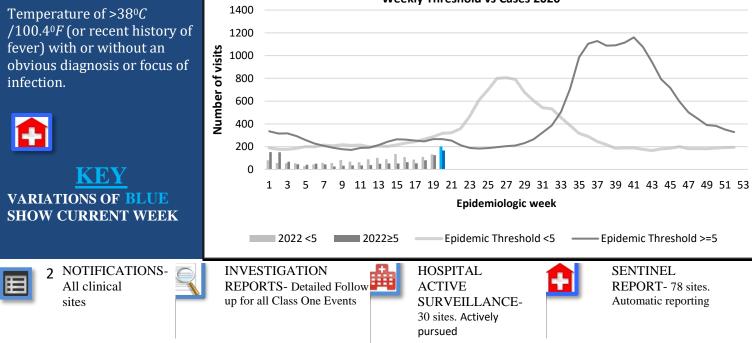
Jamaica's sentinel surveillance system concentrates on visits to sentinel sites for health events and syndromes of national importance which are reported weekly (see pages 2 -4). There are seventy-eight (78) reporting sentinel sites (hospitals and health centres) across Jamaica.

	Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
							0							
	17													
		On Time	On Time	On Time	On Time	Late (W)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	Late (T)
F	18	Time	Time	Time	Time	()	Time	Time	Time	Time	Time	Time	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	On Time
	19													
		On Time	Late (T)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	Late (T)	On Time	Late (T)	Late (W)
	20													
		On Time	On Time	On Time	Late (T)	On Time	On Time	Late (T)	On Time	On Time	On Time	On Time	On Time	On Time

REPORTS FOR SYNDROMIC SURVEILLANCE

UNDIFFERENTIATED FEVER

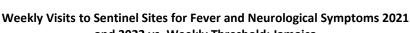
Weekly Visits to Sentinel Sites for Undefrentiated Fever All ages: Jamaica, Weekly Threshold vs Cases 2020



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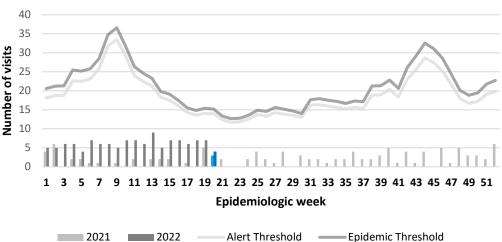
FEVER AND NEUROLOGICAL

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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and 2022 vs. Weekly Threshold: Jamaica





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.





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

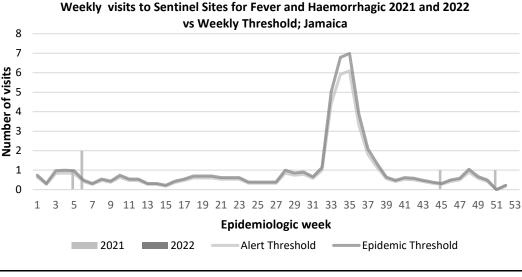
8



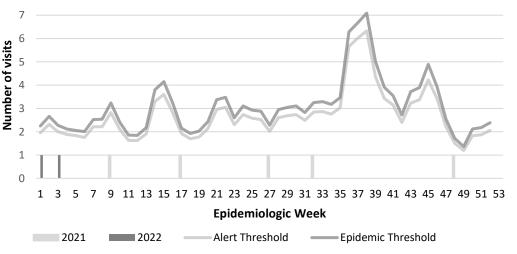
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

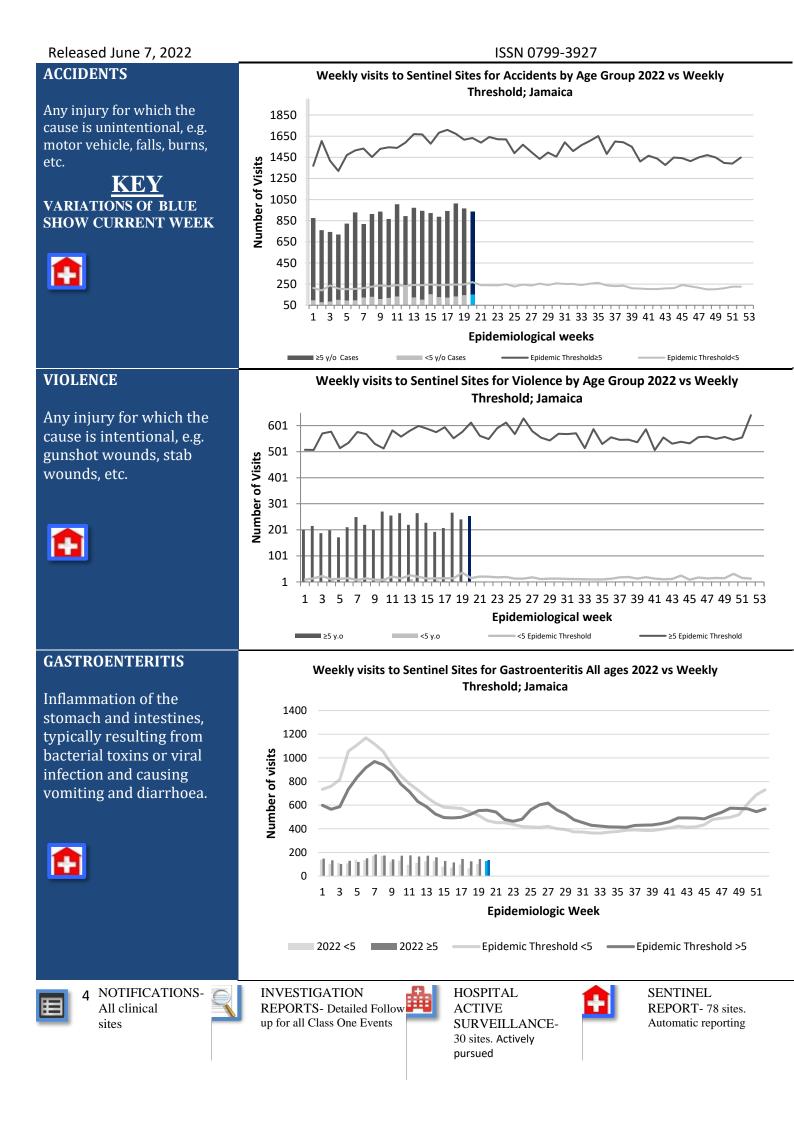


SENTINEL REPORT- 78 sites. Automatic reporting



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2021 and 2022





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Comments

CLASS ONE NOTIFIABLE EVENTS

					e onimentes		
			. Confirm	ned YTD ^a	AFP Field Guides from		
	CLASS 1 EV	/ENTS	CURRENT YEAR 2022	PREVIOUS YEAR 2021	WHO indicate that for an effective		
					surveillance system,		
Ц	Accidental Po	usoning	78 ^β	56 ^β	detection rates for AFP should be 1/100,000		
NA	Cholera		0	0	population under 15		
OIL	Dengue Hemo	orrhagic Fever ^γ	See Dengue page below	See Dengue page below	years old (6 to 7) cases		
RNA ST	COVID-19 (S	ARS-CoV-2)	40187	35303	annually.		
NATIONAL /INTERNATIONAL INTEREST	Hansen's Dise	ease (Leprosy)	0	0	Pertussis-like		
	Hepatitis B		8	6	syndrome and Tetanus		
	Hepatitis C		2	4	are clinically confirmed		
OIL	HIV/AIDS		NA	NA	classifications.		
NA	Malaria (Imp	orted)	0	0			
	Meningitis (C	linically confirmed)	8	8	^γ Dengue Hemorrhagic Fever data include		
EXOTIC/ UNUSUAL	Plague		0	0	Dengue related deaths;		
TY/	Meningococc	al Meningitis	0	0	δ Figures include all		
H IGH RBIDI RTALI	Neonatal Teta	nus	0	0	deaths associated with		
H IGH MORBIDITY, MORTALITY	Typhoid Feve	r	0	0	pregnancy reported for the period.		
ΣΣ	Meningitis H/	Flu	0	0	<u> </u>		
	AFP/Polio		0	0	^ε CHIKV IgM positive cases		
	Congenital Ru	ıbella Syndrome	0	0	$^{\theta}$ Zika PCR positive		
\sim	Congenital Sy	philis	0	0	cases		
IMES	Fever and	Measles	0	0	$^{\beta}$ Updates made to		
SPECIAL PROGRAM	Rash	Rubella	0	0	prior weeks in 2020.		
SOG	Maternal Dea	ths ^δ	18	17	$^{\alpha}$ Figures are cumulative totals for		
L PF	Ophthalmia N	leonatorum	48	40	all epidemiological		
CIA	Pertussis-like	syndrome	0	0	weeks year to date.		
SPE	Rheumatic Fe	ver	0	0			
	Tetanus		0	0			
	Tuberculosis		13	19			
	Yellow Fever		0	0			
	Chikungunya ^e			0			
	Zika Virus ^θ		0	0	NA- Not Available		



5 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



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NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

500

0

1 3 5

2022 <5

7

Epidemic Threshold <5

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EW 20

May 15 - 21, 2022 Epidemiological Week 20

	EW 20	YTD
SARI cases	8	196
Total Influenza positive Samples	0	0
Influenza A	0	0
H3N2	0	0
H1N1pdm09	0	0
Not subtyped	0	0
Influenza B	0	0
Parainfluenza	0	0

2500 Weekly visits to Sentinel Sites for Influenza-like Illness (ILI) All ages 2022 vs Weekly Threshold; Jamaica

<u>Epi Week Summary</u>

During EW 20, eight (8) SARI admissions were reported.

Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory

Epidemic Threshold 5-59

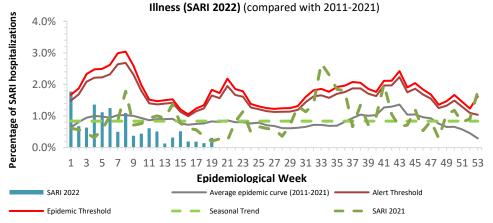
Epidemiologic week

2022 5-59

9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53

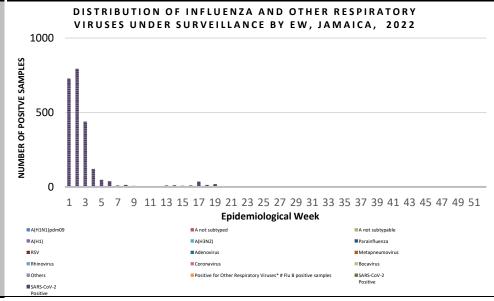
2022 ≥60

Epidemic Threshold ≥60



Caribbean Update EW 20

Caribbean: Influenza activity remained low. In Belize, SARS-CoV-2 and RSV detections continued to increase and in Haiti, SARS-CoV-2 activity continued elevated and increasing.





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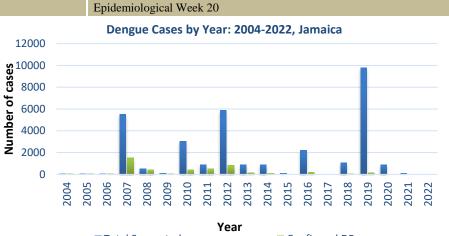
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Dengue Bulletin

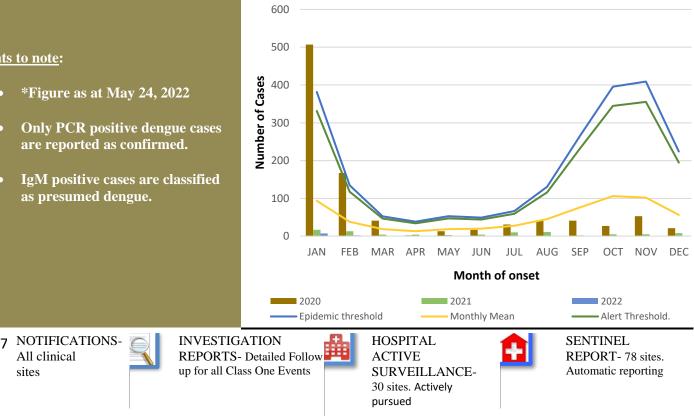
May 15 - 21, 2022 Epidemiological Week 20





Total Suspected Confirmed DF **Reported suspected and confirmed dengue** Symptoms of Dengue fever with symptom onset in week 20 of 2022 Febrile phase sudden-onset fever Critical phase 2022* hypotension headache pleural effusion ascites mouth and nose EW 20 YTD bleeding gastrointestinal bleeding muscle and 0 9 joint pains Recovery phase altered level of vomiting consciousness 0 0 seizures rash itching diarrhea 0 0 slow heart rate

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



Points to note:

Total Suspected Dengue

Cases

Lab Confirmed Dengue

cases

CONFIRMED

Dengue Related Deaths

- *Figure as at May 24, 2022
- **Only PCR positive dengue cases** • are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

sites

RESEARCH PAPER

Barriers to Adherence of Nurses and Patient Care Assistants to Hand Hygiene Practices and Equipment Decontamination Policy at an Urban Hospital in Jamaica Feron Brown Hamilton¹, Antoinette Barton-Gooden²

Aim: To determine the barriers to adherence of Nurses and Patient Care Assistants to hand hygiene practices and Equipment Decontamination Policy.

Methods: Cross-sectional study design was utilized among 109 Registered Nurses and 26 Patient Care Assistants (PCAs) who were conveniently sampled from the Medical and Surgical Departments. A 54 item self- administered Behaviours and Levers to hand hygiene instrument and the Infection Control Policy Audit Tool. Data was analyzed using Statistical Package for the Social Sciences (SPSS) version 20. Descriptive statistics included ANOVA and chi-squared test.

Results: Response rate was 68% with nurses (109/135) and PCAs (26/37). Most of the respondents were female (97%), age range 20-30 years (54.4%) and had 0-4 years' experience (63%). Self-reported adherence to appropriate hand hygiene practices were high: 84% reported 81-100% adherence. Barriers identified were: Social influences (\bar{x} 3.24, ±1.67), knowledge of decontamination of equipment policy (\bar{x} 4.18, ±2.01), environment context and resources (\bar{x} 4.64 ±1.48) and action planning (\bar{x} 4.96 ±1.59). There were no statistical significant relationship between sociodemographic characteristics: age (χ^2 4.684; p>.05; job title (χ^2 1.709; p > .05); years of service (χ^2 1.237, p > .05); unit assigned (χ^2 4.684; p>.005) and adherence. While participants who were 31 years and older were more knowledge of equipment decontamination policy (\bar{x} 5.71±2.01; p<0.05). PCAs had greater knowledge of the equipment decontamination policy (\bar{x} 5.41, ±1.75; p<0.05) when compared to Enrolled Assistant Nurses (\bar{x} 4.09±1.90) and Registered Nurses (\bar{x} 3.85±1.58).

Conclusion: Nurse and PCAs reported high hand hygiene adherence. Barriers were knowledge of the equipment decontamination policy, environment context and resources.

Key words: Nurses, Patient Care Assistants, Hand Hygiene and Decontamination Policy



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