WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Year of Health and Care Workers 2021

Protect. Invest. Together.



PROTECT our health and care workers

Health and care workers have protected the world during COVID-19: We have a moral obligation to protect them. Health workers delivering new COVID-19 health care innovations and vaccines should have the requisite support and enabling work environment. Vaccinating health and care workers first is the right thing to do and the smart thing to do.

INVEST in the people who invest in us

The world is facing a global shortage of health workers. We must invest in education, jobs and decent work to protect the world from disease and achieve universal health coverage. Globally, 70% of the health and social workforce are women. Nurses and midwives represent a large portion of this. We need to invest in gender equity.



TOGETHER, we can make it happen

We all have a role to play to ensure that our health and care workforces are supported, protected, motivated and equipped to deliver safe health care at all times, not only during COVID-19.



EPI WEEK 30



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RESEARCH PAPER

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Source: https://www.who.int/campaigns/annual-theme/year-of-health-and-care-workers-2021

SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica



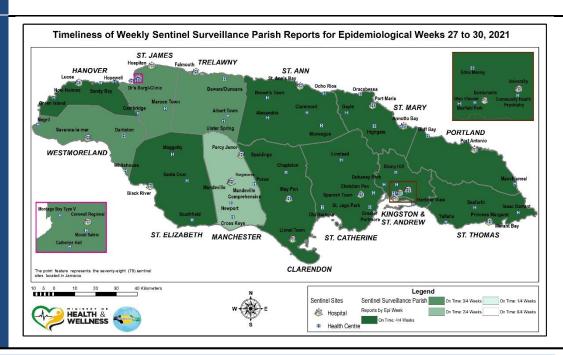
A syndromic surveillance system is good for early detection of and response to public health events.

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.

Map representing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 27 2021 to 30 of 2021

Parish health departments submit reports weekly by 3 p.m. on Tuesdays. Reports submitted after 3 p.m. are considered late.



REPORTS FOR SYNDROMIC SURVEILLANCE

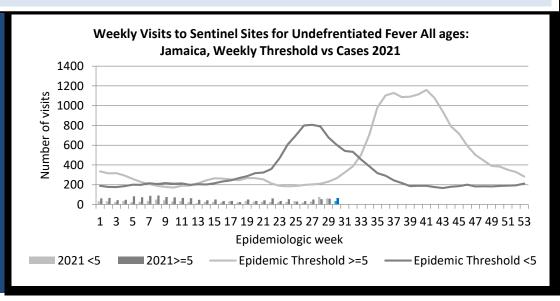
FEVER

Temperature of $>38^{\circ}C$ /100.4°F (or recent history of fever) with or without an obvious diagnosis or focus of infection.



ARIATIONS OF

VARIATIONS OF BLUE SHOW CURRENT WEEK





2 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

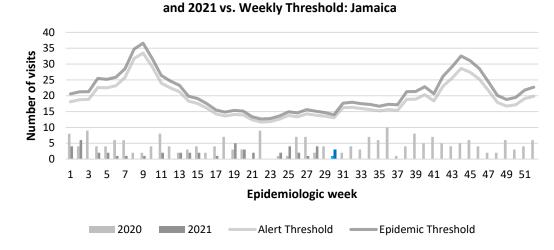


HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



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).



Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2020

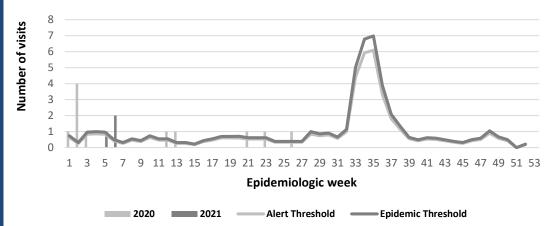


FEVER AND HAEMORRHAGIC

Temperature of $>38^{\circ}C$ $/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.



Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2020 and 2021 vs Weekly Threshold; Jamaica

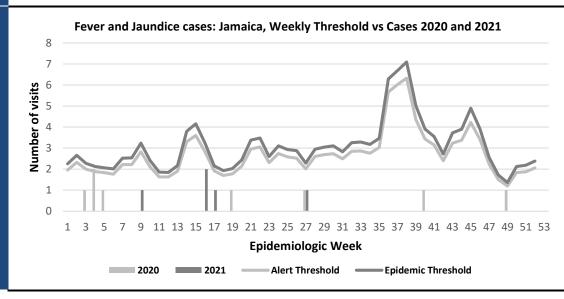


FEVER AND JAUNDICE

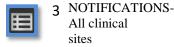
Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

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.











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



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



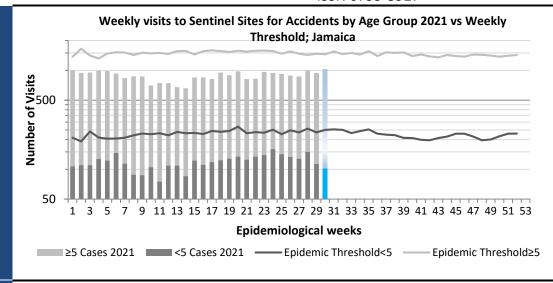
ACCIDENTS

Any injury for which the cause is unintentional, e.g. motor vehicle, falls, burns, etc.

KEY

VARIATIONS OF BLUE SHOW CURRENT WEEK



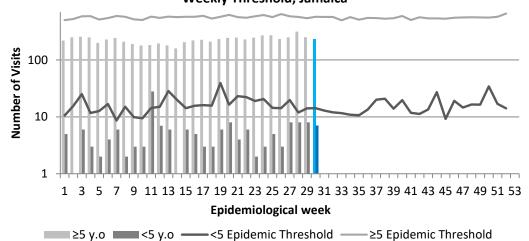


VIOLENCE

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 2021 vs Weekly Threshold; Jamaica

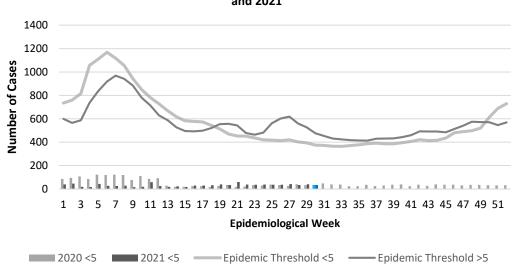


GASTROENTERITIS

Inflammation of the stomach and intestines, typically resulting from bacterial toxins or viral infection and causing vomiting and diarrhoea.



Gastroenteritis Under 5 years: Jamaica, Weekly Threshold vs Cases 2020 and 2021





4 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

			Confirmed YTD ^α		AFP Field Guides	
	CLASS 1 EV	/ENTS	CURRENT YEAR 2021	PREVIOUS YEAR 2020	from WHO indicate that for an effective surveillance system,	
	Accidental Poisoning		22^{β}	75	detection rates for	
NATIONAL /INTERNATIONAL INTEREST	Cholera		0	0	AFP should be 1/100,000 population	
	Dengue Hemorrhagic Fever ^γ		See Dengue page below	See Dengue page below	under 15 years old (6 to 7) cases annually.	
rer Rest	Hansen's Disease (Leprosy)		0	0		
AAL /INTERN INTEREST	Hepatitis B		2	3	Pertussis-like syndrome and Tetanus	
	Hepatitis C		0	0	are clinically confirmed classifications. 7 Dengue Hemorrhagic Fever	
TIOL	HIV/AIDS		NA	NA		
NAZ	Malaria (Imported)		0	0		
	Meningitis (Clinically confirmed)		4	1		
EXOTIC/ UNUSUAL	Plague		0	0	data include Dengue related deaths;	
ľY/ TY	Meningococo	cal Meningitis	0	0	8	
H IGH MORBIDITY, MORTALITY	Neonatal Tetanus		0	0	^δ Figures include all deaths associated with	
H ORE	Typhoid Fever		0	0	pregnancy reported	
ΣΣ	Meningitis H/Flu		0	0	for the period.	
	AFP/Polio		0	0	^ε CHIKV IgM	
	Congenital Rubella Syndrome		0	0	positive cases	
	Congenital Syphilis		0	0	^θ Zika PCR positive cases	
MES	Fever and	Measles	0	0	β Updates made to	
SPECIAL PROGRAMIN	Rash	Rubella	0	0	prior weeks in 2020.	
	Maternal Deaths ^δ		23	22	^α Figures are cumulative totals for	
	Ophthalmia Neonatorum		0	38	all epidemiological	
	Pertussis-like syndrome		0	0	weeks year to date.	
	Rheumatic Fever		0	0		
	Tetanus		0	0		
	Tuberculosis		19	29		
	Yellow Fever		0	0		
	Chikungunya ^ɛ		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

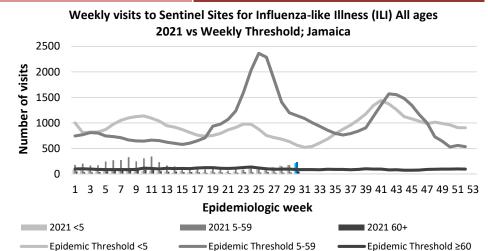


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

 $\overline{EW}30$

July 25 - 31, 2021 Epidemiological Week 30

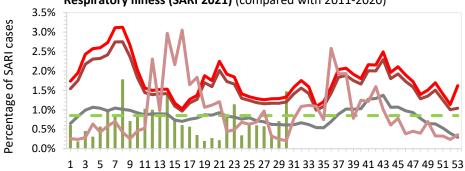
	EW 30	YTD
SARI cases	23	319
Total		
Influenza	0	0
positive	V	V
Samples		
Influenza A	0	0
H3N2	0	0
H1N1pdm09	0	0
Not subtyped	0	0
Influenza B	0	0
Parainfluenza	0	0



Epi Week Summary

During EW 30, 23 (twenty-three) SARI admissions were reported.

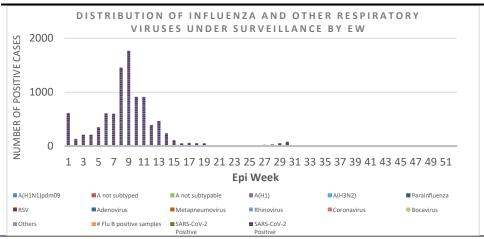
Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2021) (compared with 2011-2020)





Caribbean Update EW 30

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.





NOTIFICATIONS-All clinical sites



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



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

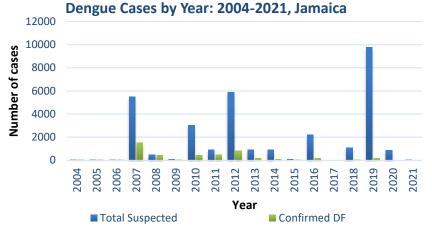


Dengue Bulletin

July 25 - 31, 2021 Epidemiological Week 30

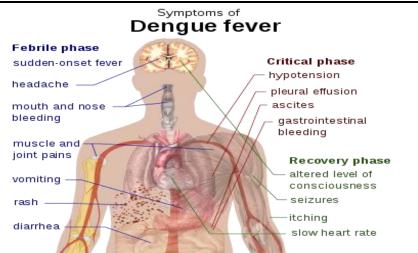
Epidemiological Week 30





Reported suspected and confirmed dengue with symptom onset in week 30 of 2021

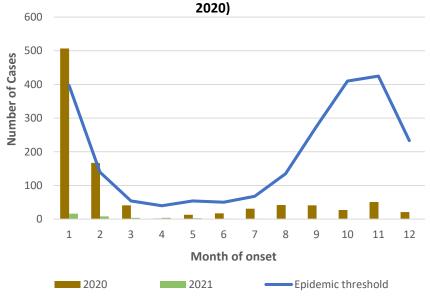
	2021*		
	EW 30	YTD	
Total Suspected Dengue Cases	0	37	
Lab Confirmed Dengue cases	0	5	
CONFIRMED Dengue Related Deaths	0	0	



Points to note:

- *Figure as at July 27, 2021
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

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





7 NOTIFICATIONS-All clinical sites



INVESTIGATION
REPORTS- Detailed Follow
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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



RESEARCH PAPER

ABSTRACT

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, \pm 1.67), knowledge of decontamination of equipment policy (\bar{x} 4.18, \pm 2.01), environment context and resources (\bar{x} 4.64 \pm 1.48) and action planning (\bar{x} 4.96 \pm 1.59). There were no statistical significant relationship between socio-demographic 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>0.05) and adherence. While participants who were 31 years and older were more knowledge of equipment decontamination policy (\bar{x} 5.71 \pm 2.01; p<0.05). PCAs had greater knowledge of the equipment decontamination policy (\bar{x} 5.41, \pm 1.75; p<0.05) when compared to Enrolled Assistant Nurses (\bar{x} 4.09 \pm 1.90) and Registered Nurses (\bar{x} 3.85 \pm 1.58).

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



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8 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued











