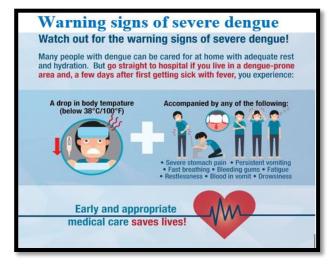
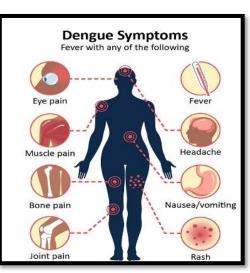
WEEKLY EPIDEMIOLOGY BULLETIN NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Key facts

Dengue and Severe Dengue

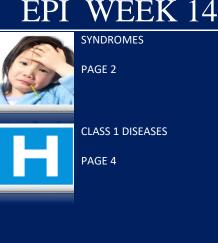


- Dengue is a viral infection transmitted to humans through the bite of infected mosquitoes. The primary vectors that transmit the disease are Aedes aegypti mosquitoes and, to a lesser extent, Ae. albopictus.
- The virus responsible for causing dengue, is called dengue virus (DENV). There are four DENV serotypes and it is possible to be infected four times.
- Severe dengue is a leading cause of serious illness and death in some Asian and Latin American countries. It requires management by medical professionals.
- There is no specific treatment for dengue/severe dengue. Early detection • of disease progression associated with severe dengue, and access to proper medical care lowers fatality rates of severe dengue to below 1%.
- Dengue is found in tropical and sub-tropical climates worldwide, mostly . in urban and semi-urban areas.
- The global incidence . of dengue has grown dramatically with about half of the world's population now at risk. Although an estimated 100-400 million infections occur each year, over 80% are generally mild and asymptomatic.
- Dengue prevention and control depends on effective vector control measures. Sustained



community involvement can improve vector control efforts substantially.

While many DENV infections produce only mild illness, DENV can • cause an acute flu-like illness. Occasionally this develops into a potentially lethal complication, called severe dengue.











DENGUE FEVER

PAGE 6



GASTROENTERITIS

PAGE 7



Released April 1, 2022

SENTINEL SYNDROMIC SURVEILLANCE Sentinel Surveillance in



Table showcasing the **Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four** Most Recent Epidemiological Weeks -11 to 14 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 502	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
11													
	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
12	On	On	On	On	On	On	On	On	On	On	On	On	Late
13	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	(W)
15	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
14													
	On Time	On Time	On Time	On Time	On Time	On Time	Late (W)	On Time	On Time	On Time	On Time	On Time	On Time

Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica,

Weekly Threshold vs Cases 2022

REPORTS FOR SYNDROMIC SURVEILLANCE

UUNDIFFERENTIATED FEVER

Temperature of >38°C /100.4°F (or recent history of fever) with or without an obvious diagnosis or focus of infection.



KEY VARIATIONS OF **BLUE** SHOW CURRENT WEEK

sites

- - 2 NOTIFICATIONS-All clinical



2022 <5 y/o 2022≥5 y/o —

1400

1200

1000

800

1

Number of visits

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



— Epidemic Threshold <5 y/o — Epidemic Threshold ≥5 y/o</p>

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

SENTINEL REPORT- 78 sites. Automatic reporting

Released April 1, 2022

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.





3

NOTIFICATIONS-All clinical sites

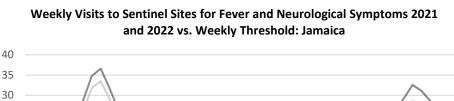


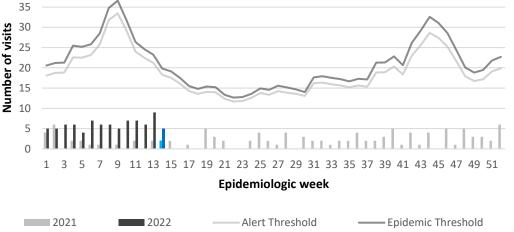


ACTIVE SURVEILLANCE-30 sites. Actively pursued

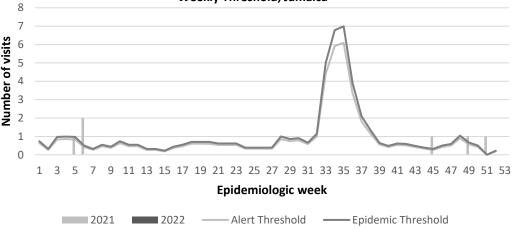


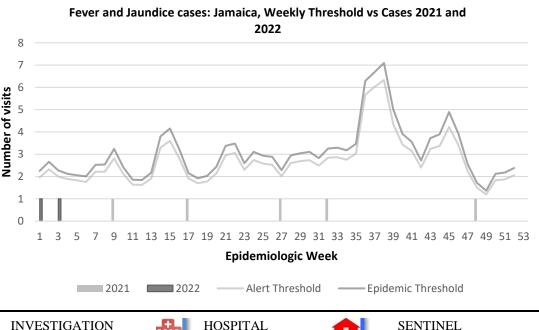
SENTINEL REPORT- 78 sites. Automatic reporting



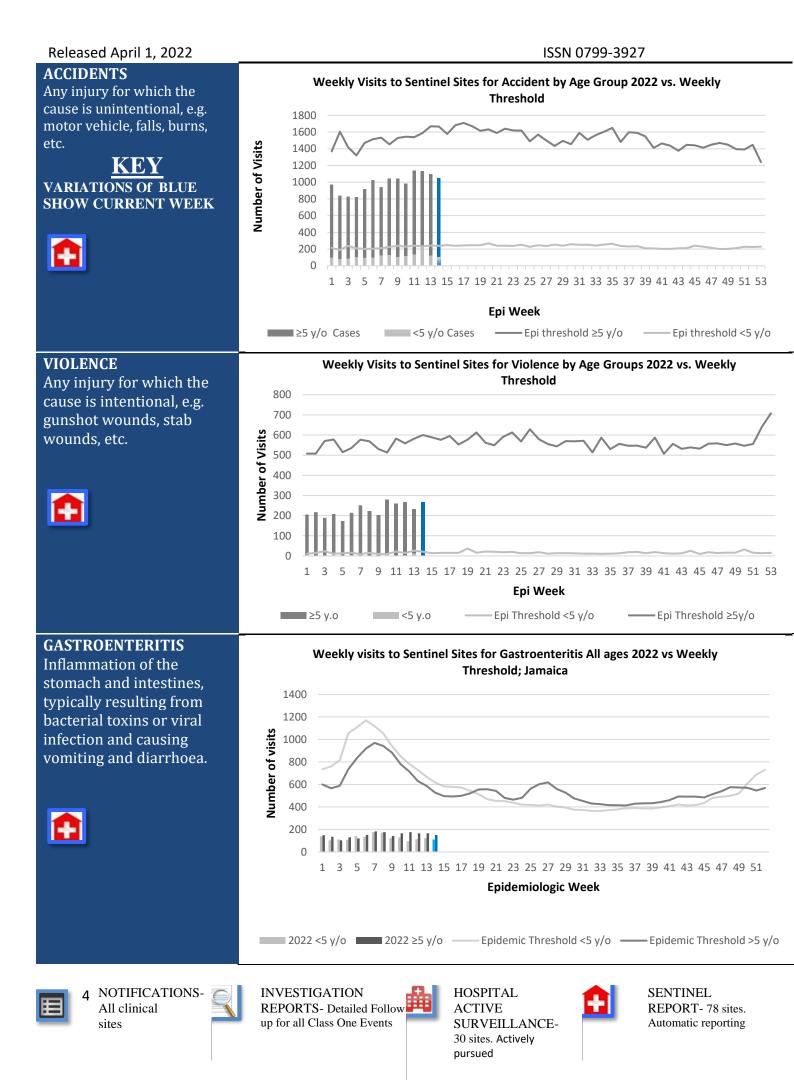


Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2021 and 2022 vs Weekly Threshold; Jamaica





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CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirm	ned YTD^{α}	AFP Field Guides from		
	CLASS 1 EVENTS			PREVIOUS YEAR 2021	WHO indicate that for an effective surveillance system,		
	Accidental Po	isoning	34 ^β	32 ^β	detection rates for AFP		
IAL	Cholera		0	0	should be 1/100,000 population under 15		
NATIONAL /INTERNATIONAL INTEREST	Dengue Hemo	orrhagic Fever ^γ	See Dengue page below	See Dengue page below	years old (6 to 7) cases		
8NA ST	COVID-19 (S	ARS-CoV-2)	31920	29844	annually.		
L /INTERN INTEREST	Hansen's Dise	ease (Leprosy)	0	0	Pertussis-like		
	Hepatitis B		3	4	syndrome and Tetanus		
I I	Hepatitis C		0	1	are clinically confirmed		
OIL	HIV/AIDS		NA	NA	classifications.		
NA	Malaria (Imp	orted)	0	0			
	Meningitis (C	linically confirmed)	2	3	$^{\gamma}$ Dengue Hemorrhagic Fever data include		
EXOTIC/ UNUSUAL	Plague		0	0	Dengue related deaths;		
۲Y ۲	Meningococo	cal Meningitis	0	0	$^{\delta}$ Figures include all		
H IGH Morbidity/ Mortality	Neonatal Tet	anus	0	0	deaths associated with		
H I ORB ORT	Typhoid Fev	er	0	0	pregnancy reported for the period.		
M	Meningitis H	l/Flu	0	0	-		
	AFP/Polio		0	0	^ε CHIKV IgM positive cases		
	Congenital Ru	ıbella Syndrome	0	0	^θ Zika PCR positive		
	Congenital Sy	philis	0	0	cases		
MMES	Fever and Rash	Measles	0	0	$^{\beta}$ Updates made to		
RAM		Rubella	0	0	prior weeks in 2020.		
r0G	Maternal Dear	ths ^δ	11	13	$^{\alpha}$ Figures are cumulative totals for		
L PR	Ophthalmia N	eonatorum	29	23	all epidemiological		
SPECIAL PROGRA	Pertussis-like	syndrome	0	0	weeks year to date.		
SPE	Rheumatic Fe	ver	0	0			
	Tetanus		0	0			
	Tuberculosis		5	11			
	Yellow Fever		0	0			
	Chikungunya ^ɛ		0	0			
	Zika Virus ^θ		0	0	NA- Not Available		



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

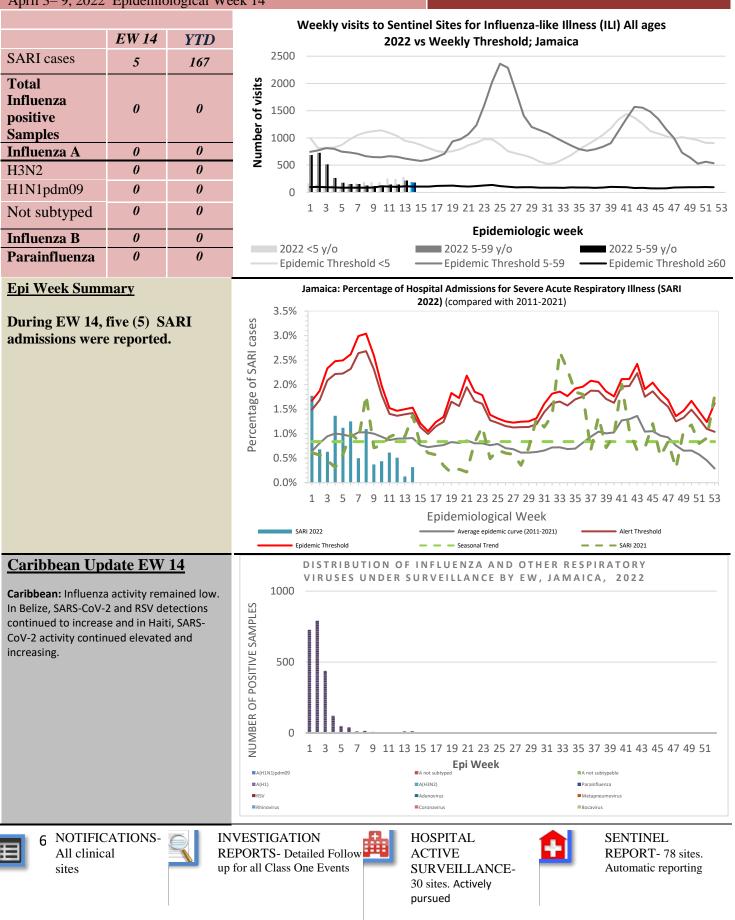
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NATIONAL SURVEILLANCE UNIT INFLUENZA <u>REPORT</u>

ISSN 0799-3927

EW 14

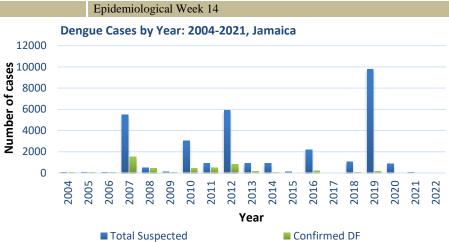
April 3-9, 2022 Epidemiological Week 14

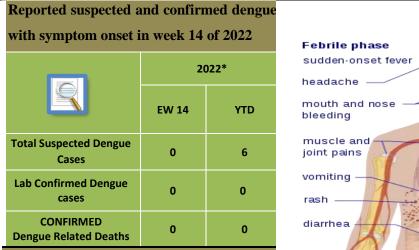


Dengue Bulletin

April 3 – 9, 2022 Epidemiological Week 14

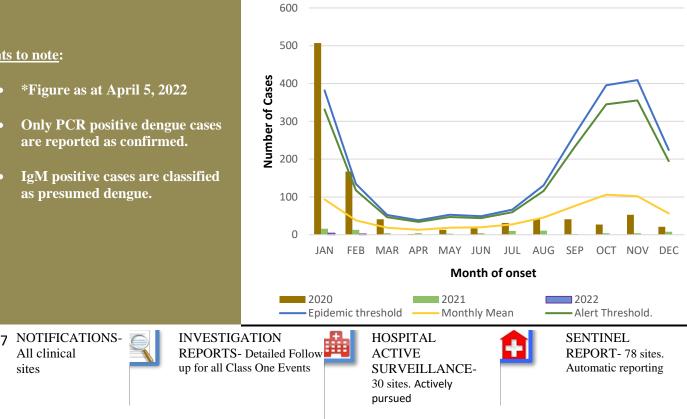








Suspected dengue cases for 2020, 2021 and 2022 versus monthly mean, alert, and epidemic thresholds (2007-2021)



Points to note:

- *Figure as at April 5, 2022
- **Only PCR positive dengue cases** • are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

RESEARCH PAPER

Abstract

Knowledge and Practice Related to Lifestyle Among Adults with Diabetes and **Hypertension**

Colleen Campbell¹, Delani Campbell¹, Khadijah Estick¹, Mario McCallum¹, Martin McIntosh¹, Jourdain Masters¹, Alliyah Mentor¹, Yakeev Morris¹, Ta'Mal Phillip¹, Gabriella Ranjit¹, Orlando Smith¹, Gayan White,¹ Norman Waldron²

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Aim: To determine the level of knowledge and assess the lifestyle practices of adult patients with Diabetes and/or Hypertension attending the primary health care clinics in Jamaica.

Background: Diabetes and Hypertension are among the leading causes of preventable morbidity and related disability worldwide. The shift in disease burden from infectious diseases to non-communicable diseases has been attributed to dietary and physical activity changes.

Method: In this cross-sectional study using 150 randomly selected adults from primary health care centres in seven parishes of Jamaica. A 69-item interviewer-administered questionnaire was used. The questions measured knowledge and lifestyle practices related to diet, smoking, exercise and alcohol consumption.

Results: The majority (%) of the sample was female (76%) and most persons were within the age group of 56 years or over (68.6%). The mean knowledge score of exercise was 4.7 (SD 1.2) with a score range of 1 to 6. No statistical differences presented in mean knowledge of exercise by socioeconomic and demographic characteristics. Nine of the ten questions assessing knowledge of diet were answered correctly by the majority (50.7% - 93.3%).

The mean knowledge score for alcohol consumption and smoking was 5.5 (SD 0.9) and 2.9 (SD 0.3), respectively. Just over a half (52.3%) of the sample reported exercising (52.3%) and consuming sugarsweetened beverages (53%). Very little reported drinking alcohol in the last three months (10.7%) and a minority (4.7%) of the sample reported that they are currently smoking.

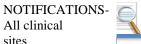
Conclusion: Mean knowledge scores for exercise, alcohol consumption and smoking were relatively high, while lifestyle practices among participants was relatively low. We recommend further research to assess the facilitators and barriers to adopting lifestyle changes among Jamaican adults. Keywords: Knowledge, Lifestyle, Practice, Diabetes, Hypertension



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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