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

Weekly Spotlight

Hypertension



Hypertension (high blood pressure) is when the pressure in your blood vessels is too high (140/90 mmHg or higher). It is common but can be serious if not treated. People with high blood pressure may not feel symptoms. The only way to know is to

get your blood pressure checked. Things that increase the risk of having high blood pressure include:

- older age
- genetics
- being overweight or obese
- not being physically active
- high-salt diet
- drinking too much alcohol

Lifestyle changes like eating a healthier diet, quitting tobacco and being more active can help lower blood pressure. Some people may still need to take medicines.

Blood pressure is written as two numbers. The first (systolic) number represents the pressure in blood vessels when the heart contracts or beats. The second (diastolic) number represents the pressure in the vessels when the heart rests between beats. Hypertension is diagnosed if, when it is measured on two different days, the systolic blood pressure readings on both days is \geq 140 mmHg and/or the diastolic blood pressure readings on both days is \geq 90 mmHg.

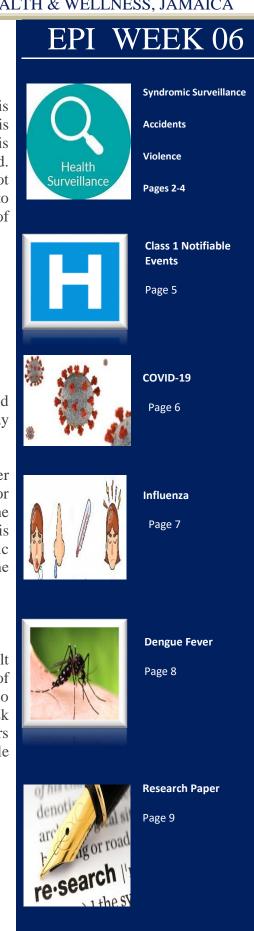
Risk Factors

Modifiable risk factors include unhealthy diets (excessive salt consumption, a diet high in saturated fat and trans fats, low intake of fruits and vegetables), physical inactivity, consumption of tobacco and alcohol, and being overweight or obese. Non-modifiable risk factors include a family history of hypertension, age over 65 years and co-existing diseases such as diabetes or kidney disease.Lifestyle changes can help lower high blood pressure. These include:

- eating a healthy, low-salt diet
- losing weight
- being physically active
- quitting tobacco.

Retrieved from WHO on 23/ Feb/2024

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



Sentinel Surveillance in Jamaica



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 3 to 6 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.

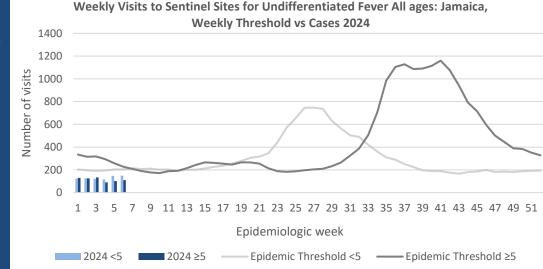
Fni modb	Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
2024														
3		On Time	On Time	Late (T)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
4		On Time	On Time	On Time	On Time	On Time	Late (T)	On Time	On Time	On Time	On Time	On Time	On Time	On Time
5		On Time	On Time	Late (T)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
6		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

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

NS-

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

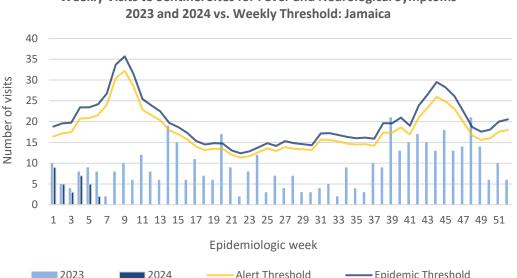




February 23, 2024

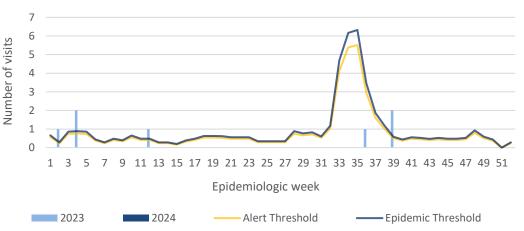
FEVER AND NEUROLOGICAL

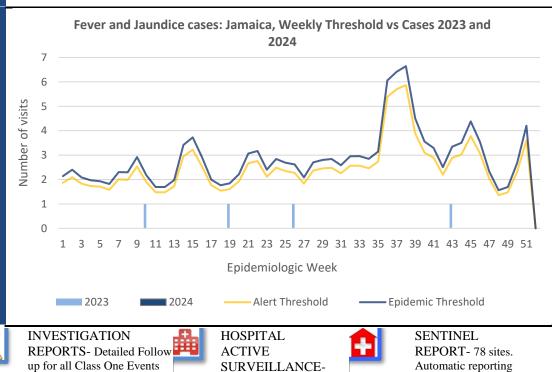
Temperature of >38°C /100.4^oF (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal irritation, convulsions, altered consciousness, altered sensory manifestations or paralysis (except AFP).





- Epidemic Threshold





30 sites. Actively pursued

FEVER AND HAEMORRHAGIC

Temperature of >38°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.



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.

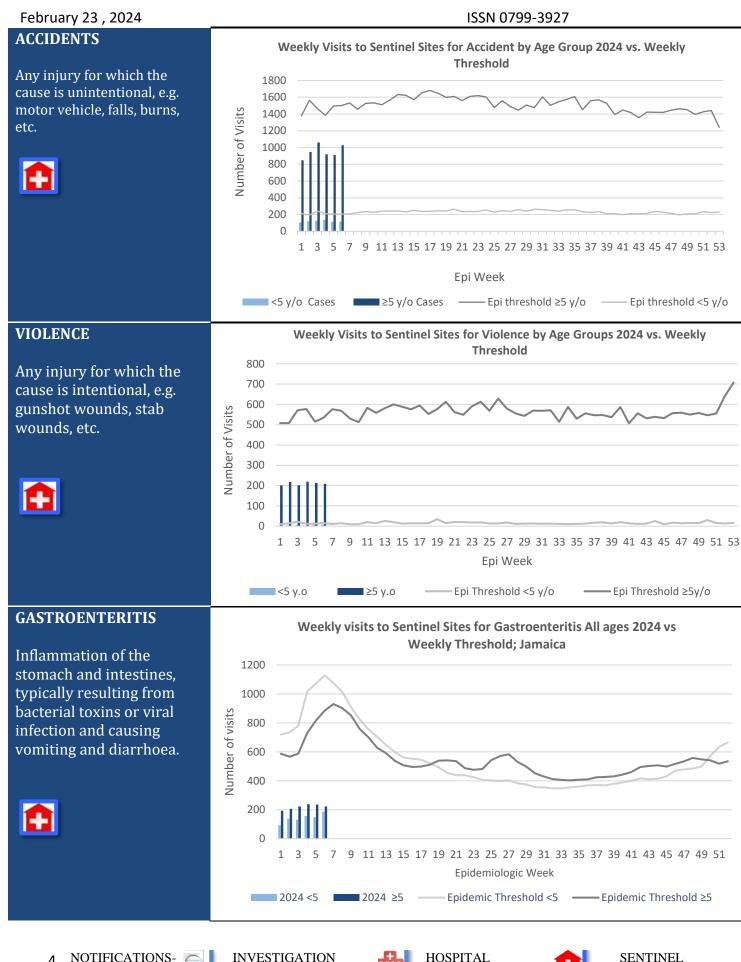
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



NOTIFICATIONS-3 All clinical sites

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Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms



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 AFP should be 1/100,000		
	Accidental Po	bisoning	39 ^β	38 ^β			
Ц	Cholera		0	0	population under 15 years		
NATIONAL /INTERNATIONAL INTEREST	Dengue Hem	orrhagic Fever ^{\vee}	See Dengue page below	See Dengue page below	old (6 to 7) cases annually.		
ATI	COVID-19 (S	SARS-CoV-2)	110	1205	Pertussis-like syndrome		
EST	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically		
L /INTERN	Hepatitis B		0	7	confirmed classifications.		
AL //	Hepatitis C		0	4	✓ Dengue Hemorrhagic		
NON/	HIV/AIDS		NA	NA	Fever data include Dengue		
ATI	Malaria (Imp	ported)	0	0	related deaths;		
Z	Meningitis		0	6	$^{\delta}$ Figures include all deaths		
	Monkeypox		0	0	associated with pregnancy		
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.		
TY/	Meningococc	al Meningitis	0	0	^ε CHIKV IgM positive cases		
H IGH RBIDI RRALI	Neonatal Teta	anus	0	0	$^{\theta}$ Zika PCR positive cases		
H IGH MORBIDITY, MORTALITY	Typhoid Feve	er	0	0	β Updates made to prior		
MQ	Meningitis H	/Flu	0	0	weeks.		
	AFP/Polio		0	0	$^{\alpha}$ Figures are cumulative		
	Congenital R	ubella Syndrome	0	0	totals for all		
70	Congenital Sy	yphilis	0	0	epidemiological weeks year to date.		
MES	Fever and Rash	Measles	0	0			
SPECIAL PROGRAM		Rubella	0	0			
SOG	Maternal Dea	ιths ^δ	4	5			
L PH	Ophthalmia N	Veonatorum	14	13			
CIA	Pertussis-like	syndrome	0	0			
SPE	Rheumatic Fe	ever	0	0			
	Tetanus		0	0			
	Tuberculosis		1	9			
	Yellow Fever		0	0			
	Chikungunya	ε	0	0			
Zika Virus ^θ			0	0	NA- Not Available		

NOTIFICATIONS-5 All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



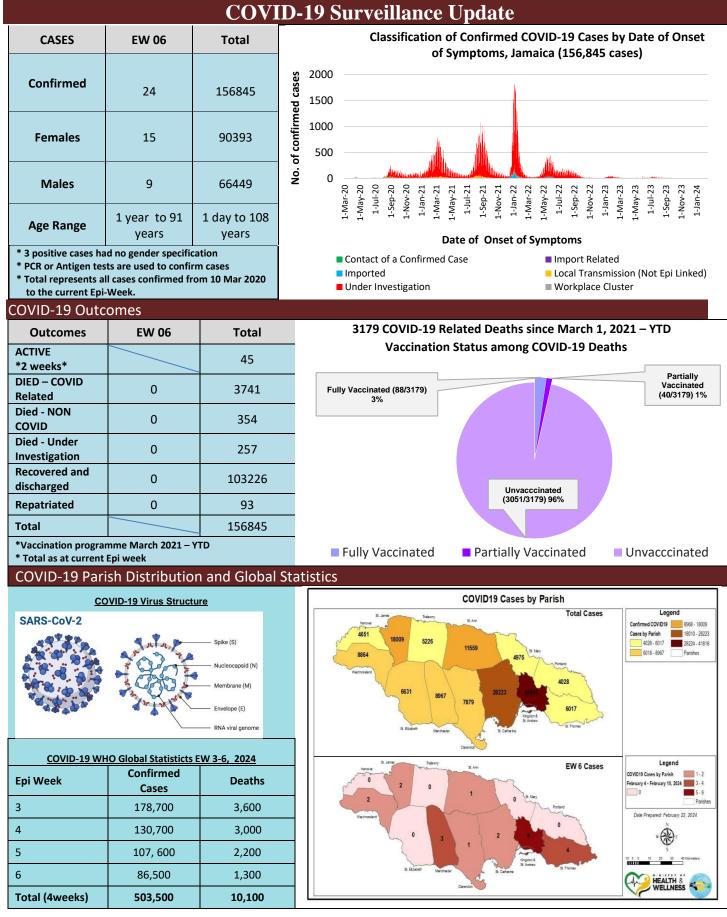
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





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NOTIFICATIONS-6 All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



ACTIVE SURVEILLANCE-30 sites. Actively pursued

February 23, 2024 ISSN 0799-3927 NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT** EW6February 4, 2024 – February 10, 2024 Epidemiological Week 06 EW 06 **YTD** Weekly visits to Sentinel Sites for Influenza-like Illness (ILI) All SARI cases 45 6 ages 2024 vs Weekly Threshold; Jamaica **Total Influenza** 0 25 2500 positive Samples

2000

1500

1000

500

n

1

2024 <5

SARI 2024

5

Epidemic Threshold <5

Number of visits



Influenza A

H1N1pdm09

Not subtyped

Influenza B

B lineage not

Parainfluenza

Adenovirus

RSV

determined

B Victoria

H3N2

During EW 06, six (6) SARI admissions were reported.

0

0

0

0

0

0

0

0

0

25

8

17

0

0

0

0

0

0

11

Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2024) (compared with 2011-2023)

Epidemic Threshold 5-59

2024 5-59

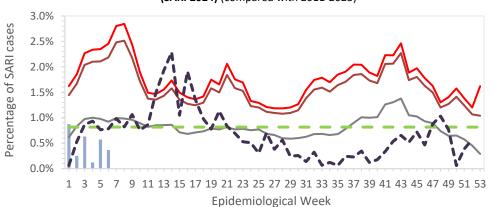
7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51

2024 ≥60

Epidemic Threshold ≥60

Alert Threshold

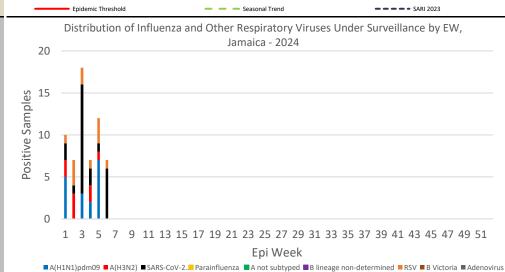
Epidemiologic week



Average epidemic curve (2011-2021)

Caribbean Update EW 6

Caribbean ILI cases have shown an increase in the last four weeks associated with an increase in positive cases of influenza, while SARI cases have remained in decline, with the majority associated with SARS-CoV-2 followed by influenza. Influenza activity has decreased in the last four EWs, reaching low circulation levels.During the last four EWs, the predominant viruses have been A(H1N1)pdm09 with concurrent circulation to a lesser extent of influenza A(H3N2) and B/ Victoria. RSV activity has remained low.SARS-CoV-2 activity has remained at high levels, although showing a decreasing trend. By countries : Increased influenza activity has been observed in Jamaica and Suriname. Elevated SARS-CoV-2 activity has been observed in Belize Dominica, Haiti, Jamaica , the Cayman Islands , and Guyana



(adopted fron PAHO Respiratory viruses weekly report)

7 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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Reported suspected, probable and confirmed dengue with symptom onset in week 06 of 2024

	2024*			
	EW 06	YTD		
Total Suspected , Probable & Confirmed Dengue Cases	18	553		
Lab Confirmed Dengue cases	0	0		
CONFIRMED Dengue Related Deaths	0	0		

Dengue deaths are reported

*Figure as at February 22, 2024

Only PCR positive dengue cases

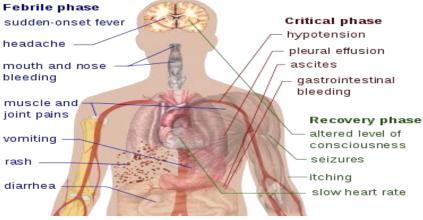
IgM positive cases are classified

are reported as confirmed.

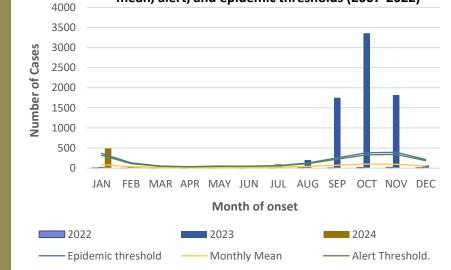
as presumed dengue.

based on date of death.

Symptoms of Dengue fever



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



8 NOTIFICATIONS-All clinical sites

Points to note:



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





RESEARCH PAPER

Abstract

NHRC_22_P12

Effects of Shift Work on Registered Nurses in a Specialist Hospital in Jamaica

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Objectives:

- 1. To determine the physical and psychosocial effects on the shiftwork experiences of Registered Nurses
- 2. To identify the shift with the greatest physical and psychosocial effects on Registered Nurses
- 3. To determine the categories of Registered Nurses most affected by shiftwork.

Methods: A quantitative descriptive correlational study was conducted among 191 nurses who worked at the Bustamante Hospital for Children. A modified version of the Standard Shiftwork Index questionnaire was used for data collection. Statistical analysis of the data was done using the Statistical Package for Social Sciences (SPSS) software version 23.

Results: Though the nurses all experience physical and psychosocial effect, there was no major significant differences in, type of shift worked or between the category of Registered Nurses. However minimal significant was revealed among the age groups where 47.1% in the 51-60 age group experience low effects as opposed to 47.4% in the 31-40 group that had high effects.

Conclusion: The result of this research indicated that shiftwork affects the nurses, however minimal to no significant differences were seen. This could be due to the fact that the participants have a two weekly rotation schedule which has no prejudice to age or category of staff. Also, all nurses participate in overtime with over 70% of the participants working 50-60 hours per week. Further research is needed to ascertain the severity of the effects of shiftwork and the appropriate measures that can be employed to avert or reduce the effects of shiftwork.



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9 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



