WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Menopause



Menopause is one point in a continuum of life stages for women and marks the end of their reproductive years. After menopause, a woman cannot become pregnant, except in rare cases when specialized fertility treatments are used. Menopause is caused by the loss of ovarian follicular function and a decline in circulating blood oestrogen levels.

Changes associated with menopause

The hormonal changes associated with menopause can affect physical, emotional, mental, and social well-being. The symptoms experienced during and following the menopausal transition vary substantially from person to person. Some have few if any symptoms. For others, symptoms can be severe and affect daily activities and quality of life. Some can experience symptoms for several years.

Symptoms associated with menopause include: hot flushes and night sweats. Hot flushes refer to a sudden feeling of heat in the face, neck and chest, often accompanied by flushing of the skin, perspiration (sweating), palpitations, and acute feelings of physical discomfort which can last several minutes; changes in the regularity and flow of the menstrual cycle, culminating in cessation of menstruation; vaginal dryness, pain during sexual intercourse and incontinence; difficulty sleeping/insomnia; and changes in mood, depression, and/or anxiety.

Body composition and cardiovascular risk can also be affected. Women's advantage over men in terms of cardiovascular disease gradually disappears with the significant decline in oestrogen levels after menopause. Menopause can also result in the weakening of the pelvic support structures, increasing the risk of pelvic organ prolapse. Loss of bone density at menopause is a significant contributor to higher rates of osteoporosis and fractures.

EPI WEEK 11



Syndromic Surveillance

Accidents

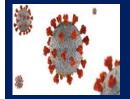
Violence

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Class 1 Notifiable Events

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COVID-19

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Influenza

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Dengue Fever

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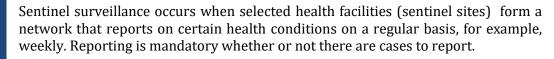


Research Paper

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SENTINEL SYNDROMIC SURVEILLANCE

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



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.



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 8 to 11 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

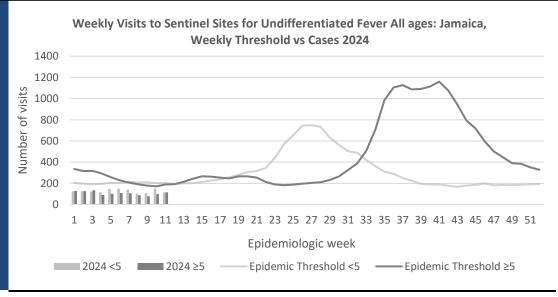
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
						20)24						
8	On	On	On	Late	On	Late	On	On	On	On	On	On	On
	Time	Time	Time	(T)	Time	(T)	Time	Time	Time	Time	Time	Time	Time
9	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
10	On	On	On	On	On	Late	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	(W)	Time	Time	Time	Time	Time	Time	Time
11	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	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.









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).



FEVER AND HAEMORRHAGIC

Temperature of $>38^{\circ}C$ /100.40F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.



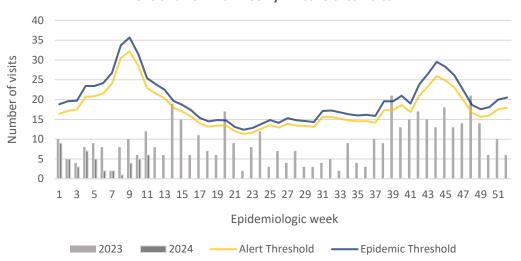
FEVER AND JAUNDICE

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

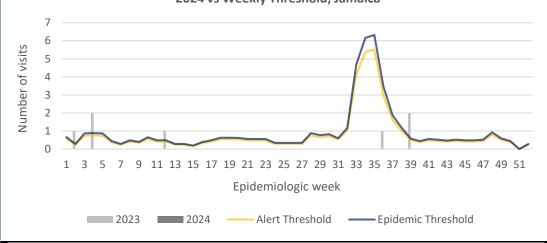
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



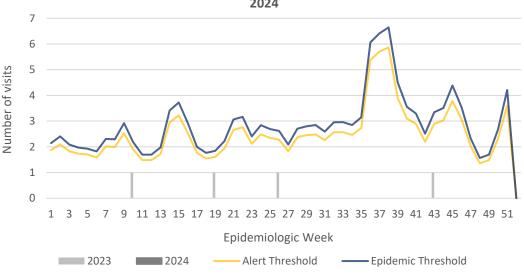
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2023 and 2024 vs. Weekly Threshold: Jamaica



Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2023 and 2024 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2023 and









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



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

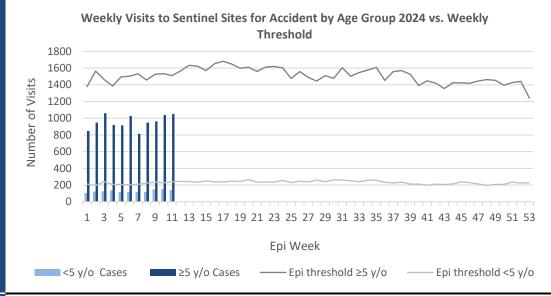




ACCIDENTS

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





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 Groups 2024 vs. Weekly **Threshold** 800 700 600 Number of Visits 500 400 300 200 100 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 Epi Week Epi Threshold <5 y/o <5 y.o ■ ≥5 y.o - Epi Threshold ≥5y/o

Weekly visits to Sentinel Sites for Gastroenteritis All ages 2024 vs

GASTROENTERITIS

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



Weekly Threshold; Jamaica 1200 1000 400 200 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 Epidemiologic Week





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

2024 < 5



2024 ≥5

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

Epidemic Threshold <5



SENTINEL REPORT- 78 sites. Automatic reporting

Epidemic Threshold ≥5

CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirmed YTD ^α		AFP Field Guides from	
	CLASS 1 E	VENTS	CURRENT YEAR 2024	PREVIOUS YEAR 2023	WHO indicate that for an effective surveillance	
	Accidental Po	oisoning	63 ^β	68^{β}	system, detection rates for AFP should be 1/100,000 population under 15 years old (6 to 7) cases annually. Pertussis-like syndrome and Tetanus are clinically confirmed classifications. Y Dengue Hemorrhagic	
J	Cholera		0	0		
ONA	Dengue Hem	orrhagic Fever ^y	See Dengue page below	See Dengue page below		
NATIONAL /INTERNATIONAL INTEREST	COVID-19 (S	SARS-CoV-2)	153	1669		
ERN	Hansen's Dis	ease (Leprosy)	0	0		
L /INTERN INTEREST	Hepatitis B		0	19		
AL /	Hepatitis C		0	6		
ON,	HIV/AIDS		NA	NA	Fever data include Dengue	
IATI	Malaria (Imp	orted)	0	0	related deaths;	
Z	Meningitis		5	11	^δ Figures include all deaths	
	Monkeypox		0	3	associated with pregnancy reported for the period.	
EXOTIC/ UNUSUAL	Plague		0	0	ε CHIKV IgM positive cases	
ľY/	Meningococc	al Meningitis	0	0		
H IGH ORBIDI ORTALI	Neonatal Teta	anus	0	0	^θ Zika PCR positive cases	
H IGH MORBIDITY/ MORTALITY	Typhoid Feve	er	0	0	β Updates made to prior	
M M	Meningitis H	/Flu	0	0	weeks. ^α Figures are cumulative totals for all	
	AFP/Polio		0	0		
	Congenital R	ubella Syndrome	0	0		
7 0	Congenital Syphilis		0	0	epidemiological weeks ye to date.	
MES	Fever and Rash	Measles	0	0		
SPECIAL PROGRAMM		Rubella	0	0		
50g	Maternal Deaths ^δ		9	8		
L PF	Ophthalmia N	Veonatorum	21	33		
CIA	Pertussis-like	syndrome	0	0		
SPE	Rheumatic Fe	ever	0	0		
	Tetanus		0	0		
	Tuberculosis		1	19		
	Yellow Fever		0	0		
Chikungunya ^ε		0	0			
	Zika Virus ^θ		0	0	NA- Not Available	







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

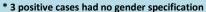


HOSPITAL pursued

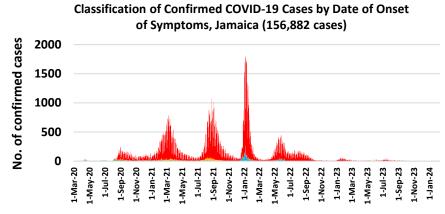


COVID-19 Surveillance Update

		COVID
CASES	EW 11	Total
Confirmed	3	156882
Females	2	90411
Males	1	66468
Age Range	34 years to 69 years	1 day to 108 years



- * PCR or Antigen tests are used to confirm cases
- * Total represents all cases confirmed from 10 Mar 2020 to the current Epi-Week.



Date of Onset of Symptoms

- Contact of a Confirmed Case
- Local Transmission (Not Epi Linked)
- **■** Import Related **■** Under Investigation
- Workplace Cluster

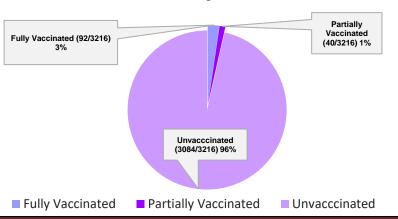
COVID-19 Outcomes

Outcomes	EW 11	Total
ACTIVE *2 weeks*		9
DIED – COVID Related	0	3775
Died - NON COVID	0	366
Died - Under Investigation	0	222
Recovered and discharged	0	103226
Repatriated	0	93
Total		156882

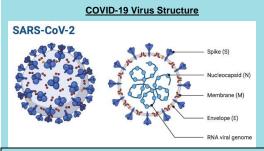
*Vaccination programme March 2021 – YTD

* Total as at current Epi week

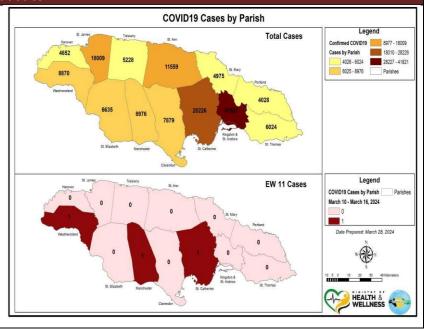
3216 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statistics EW 8-11, 2024					
Epi Week	Confirmed Cases	Deaths			
8	86, 400	1,800			
9	72,300	1,500			
10	67,500	1,300			
11	48,000	948			
Total (4weeks)	274, 200	5, 548			



NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



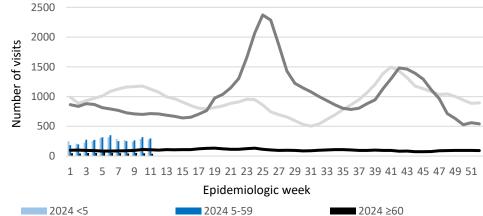
NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

EW 11

March 10, 2024 - March 16, 2024 Epidemiological Week 11

	EW 11	YTD
SARI cases	10	84
Total Influenza positive Samples	0	35
Influenza A	0	35
H3N2	0	10
H1N1pdm09	0	25
Not subtyped	0	0
Influenza B	0	0
B lineage not determined	0	0
B Victoria	0	0
Parainfluenza	0	0
Adenovirus	0	0
RSV	0	15

Weekly visits to Sentinel Sites for Influenza-like Illness (ILI) All ages 2024 vs Weekly Threshold; Jamaica

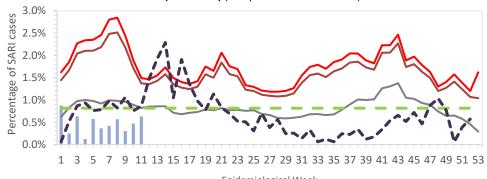


2024 5-59 2024 < 5 Epidemic Threshold 5-59 Epidemic Threshold <5

Epi Week Summary

During EW 11, ten (10) SARI admissions were reported.

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



Epidemiological Week

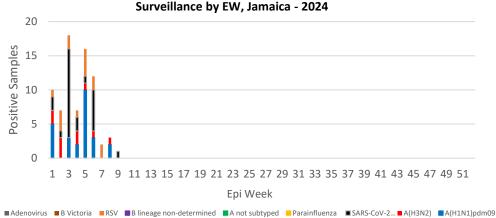
SARI 2024 Average epidemic curve (2011-2021) Alert Threshold **Epidemic Threshold** Seasonal Trend

Caribbean Update EW 11

Caribbean: Following a previous increase, ILI cases have markedly decreased over the past four weeks, primarily attributed to influenza.SARI cases have continued to decline, with most positive cases associated with influenza.Influenza activity hs decreased over the past four EWs, reaching low circulation levels.Predominant viruses during this period have been influenza A(H1N1) pdm09, with concurrent circulation of A(H3N2) and B/Victoria to a lesser extent. RSV activity has remained low, and SARS-CoV activity has also declined to low levels. By countries: Increased influenza activity has been observed in Suriname and the Cayman Islands. Elevated SARS- CoV-2 activity has been observed in Dominica , Saint Lucia, Guyana , and Saint Vincent and the Grenadines

(taken from PAHO Respiratory viruses weekly report)

Distribution of Influenza and Other Respiratory Viruses Under



https://www.paho.org/en/influenza-situation-report





HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting

—Epidemic Threshold ≥60



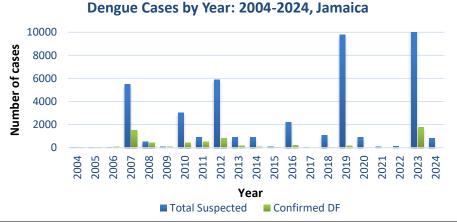


Dengue Bulletin

March 10, 2024 - March 16, 2024 Epidemiological Week 11

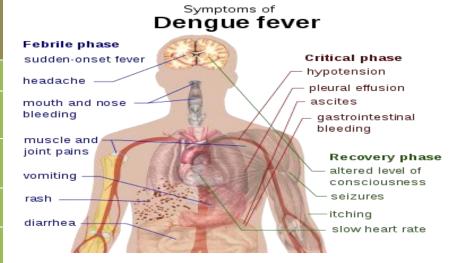
Epidemiological Week 11





Reported suspected, probable and confirmed dengue with symptom onset in week 11 of 2024

	2024*		
	EW 11	YTD	
Total Suspected , Probable & Confirmed Dengue Cases	1	832	
Lab Confirmed Dengue cases	0	0	
CONFIRMED Dengue Related Deaths	0	0	



Points to note:

- Dengue deaths are reported based on date of death.
- *Figure as at March 27, 2024
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

Suspected dengue cases for 2022 - 2024 versus monthly mean, alert, and epidemic thresholds (2007-2022) 4000 3500 3000 Number of Cases 2500 2000 1500 1000 500 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC Month of onset 2022 2023 2024 Epidemic threshold — Monthly Mean - Alert Threshold.

NOTIFICATIONS-All clinical sites



INVESTIGATION
REPORTS- Detailed Follow
up for all Class One Events



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, ± 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 socio-demographic characteristics: age (γ^2 4.684; p>.05; job title (γ^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±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 ($\bar{x}4.09\pm1.90$) and Registered Nurses ($\bar{x}3.85\pm1.58$).

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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INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

