WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Diabetes (Part 3)



Impaired glucose tolerance and impaired fasting glycaemia

Impaired glucose tolerance (IGT) and impaired fasting glycaemia (IFG) are intermediate conditions in the transition between normality and diabetes. People with IGT or IFG are at high risk of progressing to type 2 diabetes, although this is not inevitable.

Prevention

Lifestyle changes are the best way to prevent or delay the onset of type 2 diabetes. To help prevent type 2 diabetes and its complications, people should:

- reach and keep a health body weight
- stay physically active with at least 150 minutes of moderate exercise each week
- eat a healthy diet and avoid sugar and saturated fat
- not smoke tobacco.

Diagnosis and treatment

Early diagnosis can be accomplished through relatively inexpensive testing of blood glucose. People with type 1 diabetes need insulin injections for survival. One of the most important ways to treat diabetes is to keep a healthy lifestyle.

Some people with type 2 diabetes will need to take medicines to help manage their blood sugar levels. These can include insulin injections or other medicines. Some examples include:

- metformin
- sulfonylureas
- sodium-glucose co-transporters type 2 (SGLT-2) inhibitors.

Along with medicines to lower blood sugar, people with diabetes often need medications to lower their blood pressure and statins to reduce the risk of complications. Additional medical care may be needed to treat the effects of diabetes:

- foot care to treat ulcers
- screening and treatment for kidney disease
- eye exams to screen for retinopathy (which causes blindness).

Taken from WHO website on 05/December/2024 https://www.who.int/news-room/fact-sheets/detail/diabetes

EPI WEEK 47



Syndromic Surveillance

Accidents

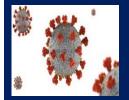
Violence

Pages 2-4



Class 1 Notifiable Events

Page 5



COVID-19

Page 6



Influenza

Page 7



Dengue Fever

Page 8

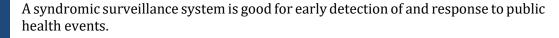


Research Paper

Page 9

SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica





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.

Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 44 to 47 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

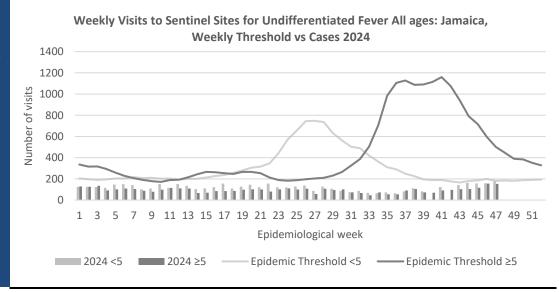
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
2024													
44	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
45	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
46	On	On	On	On	On	On	On	On	On	Late	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	(T)	Time	Time	Time
47	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

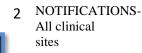
REPORTS FOR SYNDROMIC SURVEILLANCE

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.



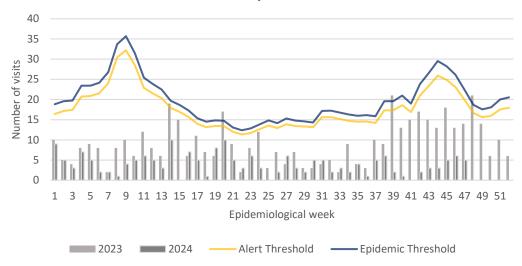
FEVER AND JAUNDICE

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

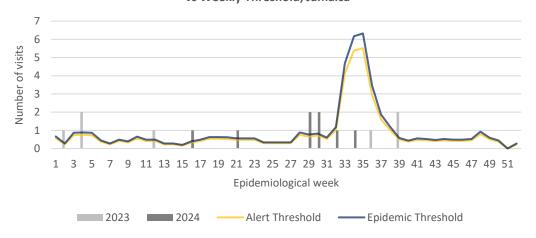
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



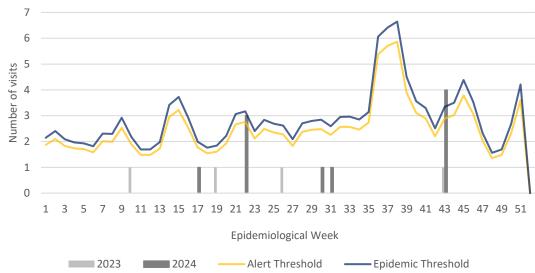
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2023 and 2024 vs. Weekly Threshold: Jamaica



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 2024









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



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

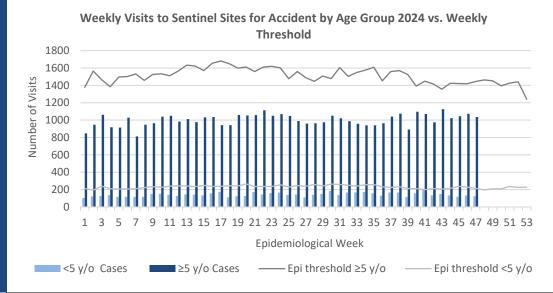




ACCIDENTS

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



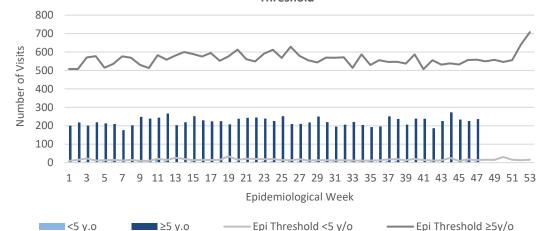


VIOLENCE

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**

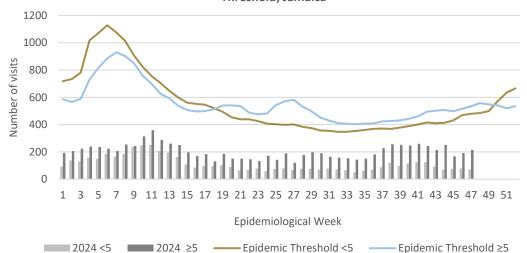


GASTROENTERITIS

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



Weekly visits to Sentinel Sites for Gastroenteritis All ages 2024 vs Weekly Threshold; Jamaica









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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



December 6, 2024 ISSN 0799-3927

CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirm	ed YTD $^{\alpha}$	AFP Field Guides from		
	CLASS 1 EVENTS		CURRENT YEAR 2024	PREVIOUS YEAR 2023	WHO indicate that for an effective surveillance		
	Accidental Po	oisoning	228^{β}	366 ^β	system, detection rates for AFP should be 1/100,000		
Ę	Cholera		0	0	population under 15 years old (6 to 7) cases annually.		
oNA	Severe Dengu	ıe ^y	See Dengue page below	See Dengue page below	Pertussis-like syndrome and Tetanus are clinically confirmed classifications. ———————————————————————————————————		
ATI	COVID-19 (S	SARS-CoV-2)	691	3807			
NATIONAL /INTERNATIONAL INTEREST	Hansen's Dis	ease (Leprosy)	0	0			
L /INTERN INTEREST	Hepatitis B		27	58			
NL /	Hepatitis C		3	29			
NO/N	HIV/AIDS		NA	NA	Fever data include Dengue		
ATI	Malaria (Imp	oorted)	2	3	related deaths;		
Z	Meningitis		14	25	δ Figures include all deaths		
	Monkeypox		0	3	associated with pregnancy		
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.		
[Y]	Meningococc	al Meningitis	0	0	^ε CHIKV IgM positive case		
H IGH RBIDIT	Neonatal Teta	anus	0	0	^θ Zika PCR positive cases		
H IGH MORBIDITY, MORTALITY	Typhoid Feve	er	0	0	^β Updates made to prior weeks.		
W W	Meningitis H	/Flu	1	2	 α Figures are cumulative totals for all epidemiologica weeks year to date. 		
	AFP/Polio		0	0			
	Congenital R	ubella Syndrome	0	0			
70	Congenital Syphilis		0	0			
MES	Fever and	Measles	0	0			
SPECIAL PROGRAMM	Rash	Rubella	0	0			
908	Maternal Deaths $^{\delta}$		62	54			
L PR	Ophthalmia N	Veonatorum	175	158			
CIA	Pertussis-like	syndrome	0	0			
SPE	Rheumatic Fe	ever	0	0			
	Tetanus		0	0			
	Tuberculosis		31	63			
	Yellow Fever		0	0			
Chikungunya ^e		0	0				
	Zika Virus ^θ		0	0	NA- Not Available		







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



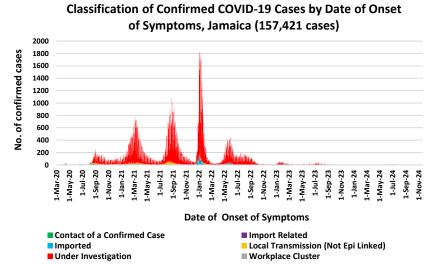
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



COVID-19 Surveillance Update

	COVID
EW 47	Total
2	157421
1	90701
1	66717
12 to 65 years old	1 day to 108 years
	2 1 1 12 to 65 years

- * 3 positive cases had no gender specification
- * PCR or Antigen tests are used to confirm cases
- * Total represents all cases confirmed from 10 Mar 2020 to the current Epi-Week.

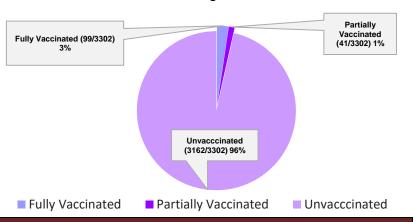


COVID-19 Outcomes

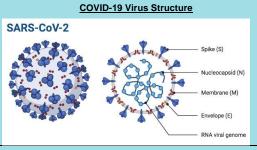
Outcomes	EW 47	Total	
ACTIVE *2 weeks*		5	
DIED – COVID Related	0	3866	
Died - NON COVID	0	388	
Died - Under Investigation	0	154	
Recovered and discharged	0	103226	
Repatriated	0	93	
Total		157421	

- *Vaccination programme March 2021 YTD
- * Total as at current Epi week

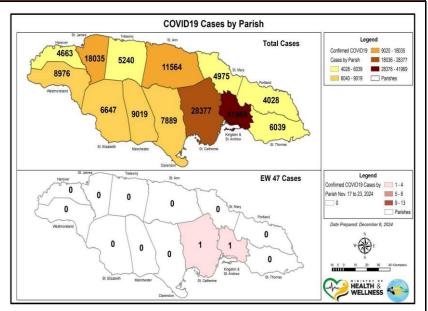
3302 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statistics EW 44-47, 2024					
Epi Week	Confirmed Cases	Deaths			
44	55000	860			
45	46300	822			
46	41800	673			
47	41700	558			
Total (4weeks)	184800	2913			



6 NOTIFICATIONS-All clinical sites



INVESTIGATION
REPORTS- Detailed Follow
up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

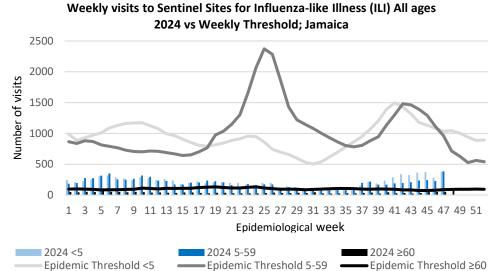


NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

EW 47

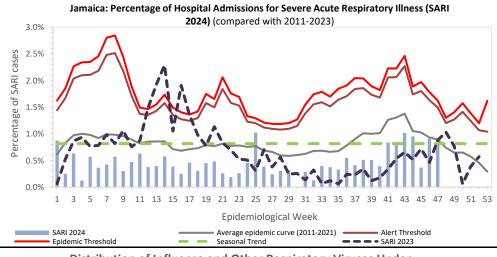
November 17, 2024 - November 23, 2024 Epidemiological Week 47

	EW 47	YTD
SARI cases	15	349
Total Influenza positive Samples	2	180
Influenza A	2	162
H3N2	0	42
H1N1pdm09	2	133
Not subtyped	0	0
Influenza B	0	5
B lineage not determined	0	0
B Victoria	0	5
Parainfluenza	0	0
Adenovirus	0	0
RSV	7	83



Epi Week Summary

During EW 47, fifteen (15) SARI admissions were reported.

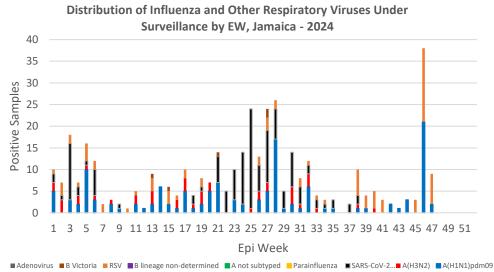


Caribbean Update EW 47

Caribbean: ILI cases have remained low during the last four EWs although the proportion of RSV-positive cases has increased. SARI cases also remain low, but there has been a rise in the proportion of SARI-CoV-2-positive cases in previous weeks. Influenza activity remains low, with A(H1N1)pdm09 as the predominant subtype. RSV activity has increased significantly in several countries over the past four EWs. In contrast SARS-CoV-2 activity, after rising in earlier weeks, has returned to low levels.

By country: In the past four EWs, influenza activity has been reported in Belize, Barbados and Jamaica. SARS-CoV-2 activity has been noted in Hati and Suriname. RSV activity has been detected in Belize, the Dominican Rupublic, Jamaica, Barbados, the Cayman Islands, Guyana, and Saint Vincent and the Grenadines

(taken from PAHO Respiratory viruses weekly report) https://www.paho.org/en/influenza-situation-report



NOTIFICATIONS-All clinical



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



pursued



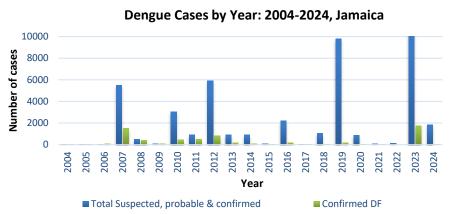


Dengue Bulletin

November 17, 2024 - November 23, 2024 Epidemiological Week 47

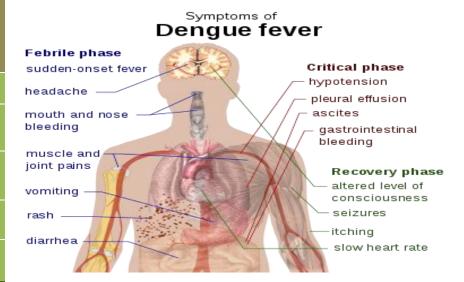
Epidemiological Week 47





Reported suspected, probable and confirmed dengue with symptom onset in week 47 of 2024

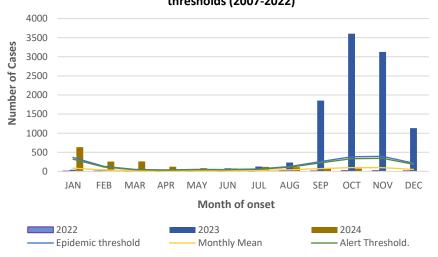
	2024*			
	EW 47	YTD		
Total Suspected, Probable & Confirmed Dengue Cases	0	1859		
Lab Confirmed Dengue cases	0	43		
CONFIRMED Dengue Related Deaths	0	2		



Points to note:

- Dengue deaths are reported based on date of death.
- *Figure as at December 4, 2024
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

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



NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



December 6, 2024 ISSN 0799-3927

RESEARCH PAPER

Abstract

NHRC 23-P06

Factors influencing removal of sub-dermal contraceptive implants among Jamaican women

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Introduction: Subdermal contraceptive implants (SDCI) represent less than 1% of the contraceptive method mix in Jamaica, however, the method is increasing in popularity. SBCIs involve delivery of a steroid progestin from polymer capsules or rods placed under the skin. The hormone diffuses out slowly, providing contraceptive effectiveness for 1–5 years. International literature indicates that experience of adverse side effects contributes to early SDCI removal. Are the factors associated with implant removal among Jamaican women similar or different to those observed in other settings?

Objectives: This retrospective study aimed to answer two questions: what factors influence Jamaican women's decision to use SDCIs and what contributes to the decision to remove the method before effectiveness ends?

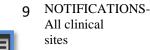
Methods: Sixty-two women who attended a Jamaica Family Planning Association (JFPA) clinic between January 2016 and December 2022 to request removal of their SDCI were interviewed by telephone in 2022-23 using a questionnaire designed and tested for the study. All the women contacted gave verbal consent to be interviewed. SPSS Version 20 was used to generate the necessary descriptive and inferential statistics.

Results: The long-term protection offered is the reason most women chose the SDCI. Excessive bleeding is the reason the majority of women prematurely removed the method. Women who received only one preimplantation counselling session were more likely to prematurely remove the method.

Conclusion: Increasing the pre-insertion counselling of women who choose to use the SDCI is likely to reduce premature removal of the method and contribute to their improved sexual and reproductive health.



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INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

