WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Foodborne Diseases



Over 200 diseases are caused by eating food contaminated with bacteria, viruses, parasites or chemical substances such as heavy metals. This growing public health problem causes considerable socioeconomic impact though strains on health-care systems lost productivity, and harming tourism

and trade. These diseases contribute significantly to the global burden of disease and mortality.

Foodborne diseases are caused by contamination of food and occur at any stage of the food production, delivery and consumption chain. They can result from several forms of environmental contamination including pollution in water, soil or air, as well as unsafe food storage and processing.

Foodborne diseases encompass a wide range of illnesses from diarrhoea to cancers. Most present as gastrointestinal issues, though they can also produce neurological, gynaecological and immunological symptoms. Diseases causing diarrhoea are a major problem in all countries of the world, though the burden is carried disproportionately by low- and middle-income countries and by children under 5 years of age

Every year, nearly one in 10 people around the world fall ill after eating contaminated food, leading to over 420 000 deaths. Children are disproportionately affected, with 125 000 deaths every year in people under 5 years of age. The majority of these cases are caused by diarrhoeal diseases. Other serious consequences of foodborne diseases include kidney and liver failure, brain and neural disorders, reactive arthritis, cancer, and death.

Foodborne diseases are closely linked to poverty in low- and middle-income countries but are a growing public health issue around the world. Increasing international trade and longer, more complex food chains increase the risk of food contamination and the transport of infected food products across national borders. Growing cities, climate change, migration and growing international travel compound these issues and expose people to new hazards.

Taken from WHO website on 09/ July /2024 https://www.who.int/health-topics/foodborne-diseases#tab=tab_1 https://www.who.int/health-topics/foodborne-diseases#tab=tab_2

EPI WEEK 26



Syndromic Surveillance

Accidents

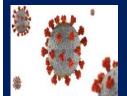
Violence

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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.



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 – 23 to 26 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

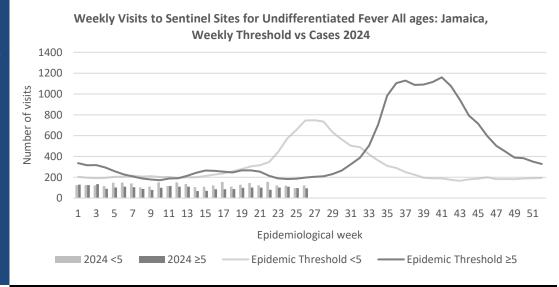
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
2024													
23	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
24	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
25	On	On	On	On	On	On	On	On	On	On	On	On	On
25	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
	On	On	On	On	On	On	On	On	On	On	On	On	On
26	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 $>38^{\circ}C$ /100.4°F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.

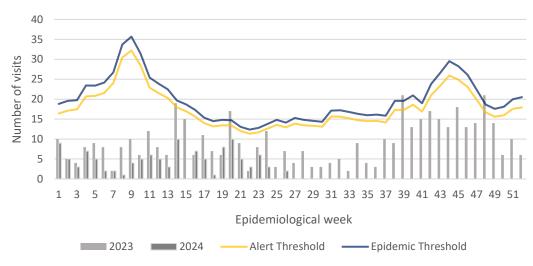


FEVER AND JAUNDICE

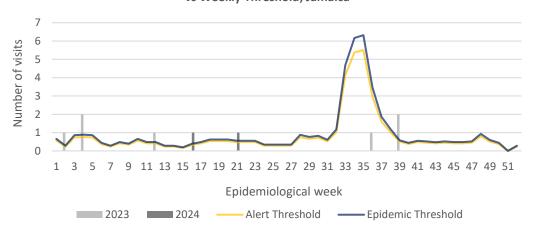
Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

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.

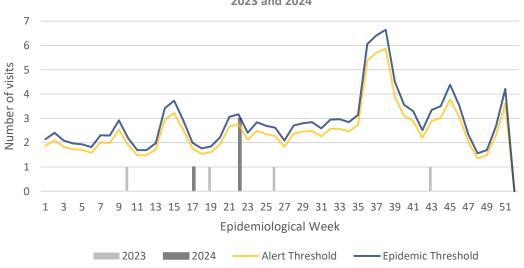
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2023 and 2024 vs. Weekly Threshold: Jamaica



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





NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

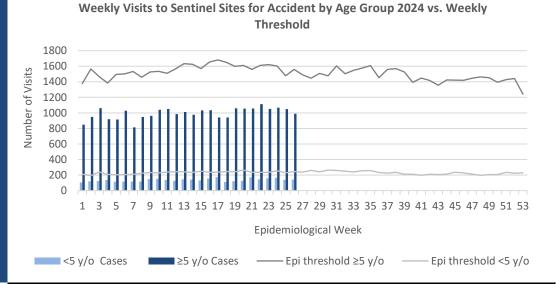




ACCIDENTS

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



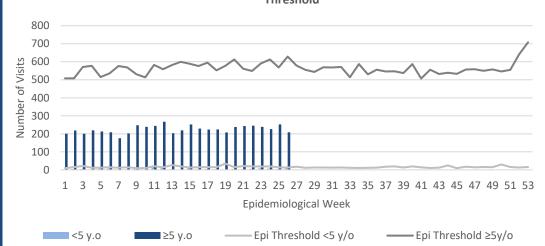


VIOLENCE

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

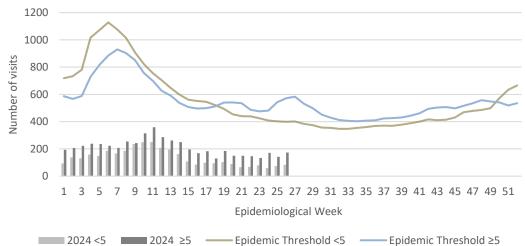


GASTROENTERITIS

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



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CLASS ONE NOTIFIABLE EVENTS Comments Confirmed YTD^{α} AFP Field Guides from WHO indicate that for an **CURRENT PREVIOUS CLASS 1 EVENTS** effective surveillance YEAR 2024 **YEAR 2023** system, detection rates for 188^{β} 198^{β} **Accidental Poisoning** AFP should be 1/100,000 population under 15 years Cholera 0 0 NATIONAL /INTERNATIONAL old (6 to 7) cases annually. Severe Dengue^Y See Dengue page below See Dengue page below COVID-19 (SARS-CoV-2) 372 2540 Pertussis-like syndrome and INTEREST Tetanus are clinically Hansen's Disease (Leprosy) 0 0 confirmed classifications. Hepatitis B 9 41 Hepatitis C 1 20 Y Dengue Hemorrhagic Fever data include Dengue HIV/AIDS NA NA related deaths: 0 0 Malaria (Imported) 9 17 Meningitis δ Figures include all deaths associated with pregnancy Monkeypox 0 3 reported for the period. EXOTIC/ 0 0 Plague UNUSUAL ^ε CHIKV IgM positive Meningococcal Meningitis 0 0 MORBIDITY cases 0 0 **Neonatal Tetanus** ^θ Zika PCR positive cases Typhoid Fever 0 0 ^β Updates made to prior Meningitis H/Flu 2 1 AFP/Polio ^α Figures are cumulative totals for all epidemiological Congenital Rubella Syndrome weeks year to date. Congenital Syphilis SPECIAL PROGRAMMES Fever and Measles Rash Rubella Maternal Deaths^δ 71 Ophthalmia Neonatorum Pertussis-like syndrome Rheumatic Fever Tetanus 34 **Tuberculosis** Yellow Fever Chikungunya^e 0 Zika Virus^θ NA- Not Available







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



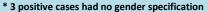
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



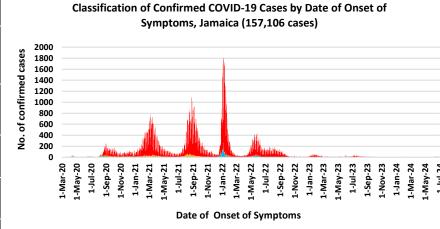
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COVID-19 Surveillance Update

		COVID	
CASES	EW 26	Total	
Confirmed	53	157106	
Females	32	90530	
Males	21	66573	
Age Range	22 days to 93 years old	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.



■ Contact of a Confirmed Case

Local Transmission (Not Epi Linked)

■ Import Related ■ Under Investigation ■ Imported ■ Workplace Cluster

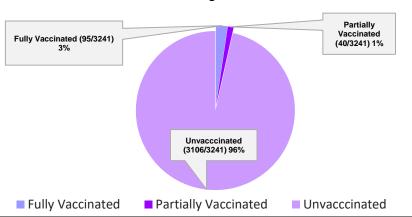
COVID-19 Outcomes

Outcomes	EW 26	Total		
ACTIVE *2 weeks*		94		
DIED – COVID Related	0	3803		
Died - NON COVID	0	370		
Died - Under Investigation	0	196		
Recovered and discharged	0	103226		
Repatriated	0	93		
Total		157106		

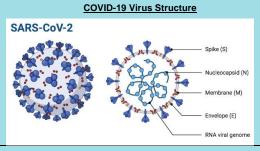
*Vaccination programme March 2021 - YTD

* Total as at current Epi week

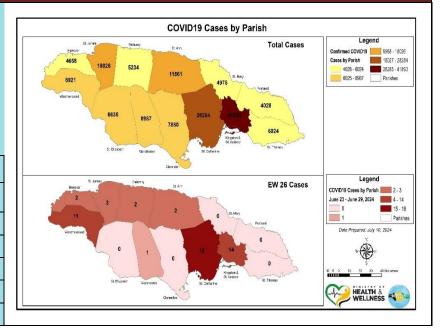
3241 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statistics EW 23-26, 2024					
Epi Week	Confirmed Cases	Deaths			
23	33200	445			
24	34400	459			
25	32500	451			
26	27900	494			
Total (4weeks)	128000	1849			



6 NOTIFICATIONS-All clinical sites



INVESTIGATION
REPORTS- Detailed Follow
up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

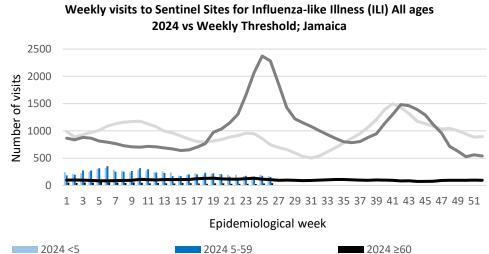


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 26

June 23, 2024 – June 29, 2024 Epidemiological Week 26

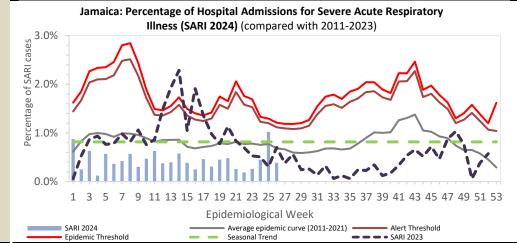
	EW 26	YTD
SARI cases	6	181
Total Influenza positive Samples	3	96
Influenza A	3	93
H3N2	1	27
H1N1pdm09	2	66
Not subtyped	0	0
Influenza B	0	3
B lineage not determined	0	0
B Victoria	0	3
Parainfluenza	0	0
Adenovirus	0	0
RSV	0	28



■Epidemic Threshold 5-59

Epi Week Summary

During EW 26, six (6) SARI admissions were reported.

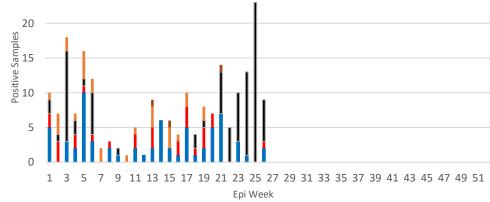


Caribbean Update EW 26

Caribbean: In the last four EWs, ILI cases have increased, associated with a higher proportion of positive cases of SARS-CoV-2 and influenza. On the other hand, although SARI cases have remained at low level, an increase in the count and proportion of positive cases of SARS-CoV-2 and Influenza has been observed. Influenza activity has remained at intermediate levels during the last four EWs. During this period, the predominant viruses have been type A(H3N2), with concurrent circulation of influenza A(H1N1)pdm09. RSV activity has remained at low levels. SARS-CoV-2 activity has shown a marked increase in the last four EWs, reaching high levels compared to previous waves.

By country: Influenza activity has been observed in the last four EWs in the Dominican Republic, Guyana, and the Cayman Islands. SARS -CoV-2 activity was been noted in Belize, the Dominacan Republic, Jamaica, Suriname, Barbados, Guyana, and the Cayman Islands





■ Adenovirus ■ B Victoria ■ RSV ■ B lineage non-determined ■ A not subtyped ■ Parainfluenza ■ SARS-CoV-2...■ A(H1N1)pdm09

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





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



Epidemic Threshold <5

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting

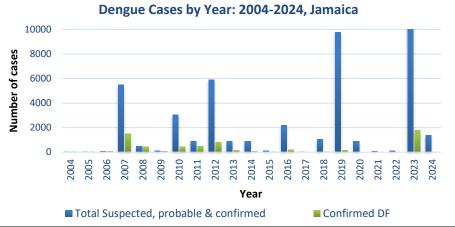
- Epidemic Threshold ≥60

Dengue Bulletin

June 23, 2024 – June 29, 2024 Epidemiological Week 26

Epidemiological Week 26





Reported suspected, probable and confirmed dengue with symptom onset in week 26 of 2024

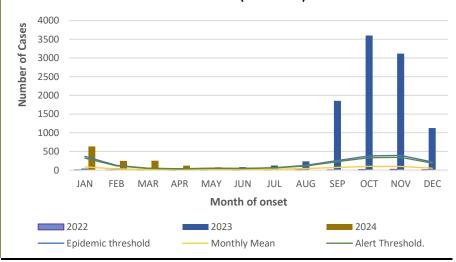
	2024*			
	EW 26	YTD		
Total Suspected, Probable & Confirmed Dengue Cases	0	1399		
Lab Confirmed Dengue cases	0	5		
CONFIRMED Dengue Related Deaths	0	0		

Symptoms of Dengue fever Febrile phase Critical phase sudden-onset fever hypotension headache pleural effusion mouth and nose bleeding gastrointestinal bleeding muscle and joint pains Recovery phase altered level of vomiting consciousness seizures rash itching diarrhea slow heart rate

Points to note:

- Dengue deaths are reported based on date of death.
- *Figure as at July 9, 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



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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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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

