WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Rubella



Rubella is a highly contagious disease caused by a virus. It spreads easily when an infected person coughs or sneezes. Most children and adults who get rubella have a mild fever and rash. When a woman is infected with the rubella virus early in pregnancy, she has a 90% chance of passing the virus on to her fetus. Rubella in pregnancy, especially during the first trimester, can result in miscarriage, fetal death,

stillbirth, or infants with congenital malformations, known as congenital rubella syndrome (CRS).

Symptoms

In children, the disease is usually mild, with symptoms including a rash, low fever (<39°C), nausea and mild conjunctivitis. The rash, which occurs in 50–80% of cases, lasts 1–3 days and usually starts on the face and neck before progressing down the body. Swollen lymph glands behind the ears and in the neck are the most characteristic clinical feature. Infected adults, more commonly women, may develop arthritis and painful joints that usually last from 3–10 days. Once a person is infected, the virus spreads throughout the body in about 5–7 days. Symptoms usually appear 2 to 3 weeks after exposure. The most infectious period is usually 1–5 days after the appearance of the rash.

When a woman is infected with the rubella virus early in pregnancy, she has a 90% chance of passing the virus on to her fetus. This can cause the death of the fetus, or it may cause CRS. Infants with CRS may excrete the virus for a year or more.

Congenital rubella syndrome

Children with CRS can suffer hearing impairments, eye and heart defects and other lifelong disabilities, including autism, diabetes mellitus and thyroid dysfunction – many of which require costly therapy, surgeries and other expensive care.

The highest risk of CRS is in countries where women of childbearing age do not have immunity to the disease (either through vaccination or from having had rubella). Before the introduction of the vaccine, up to 4 babies in every 1000 live births were born with CRS.

Vaccination

The rubella vaccine is a live attenuated strain, and a single dose gives more than 95% long-lasting immunity, which is similar to that induced by natural infection. Rubella vaccines are available either in monovalent formulation (a vaccine directed at only one pathogen) or more commonly in combinations with other vaccines such as with vaccines against measles (MR), measles and mumps (MMR), or measles, mumps and varicella (MMRV).

Adverse reactions following vaccination are generally mild. They may include pain and redness at the injection site, low-grade fever, rash and muscle aches. Mass immunization campaigns in the Region of the Americas involving more than 250 million adolescents and adults did not identify any serious adverse reactions associated with the vaccine.

Taken from WHO website on 18/February/2025

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

EPI WEEK 6



Syndromic Surveillance

Accidents

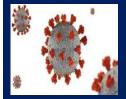
Violence

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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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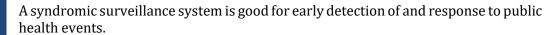


Research Paper

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SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica





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 – 3 to 6 of 2025

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

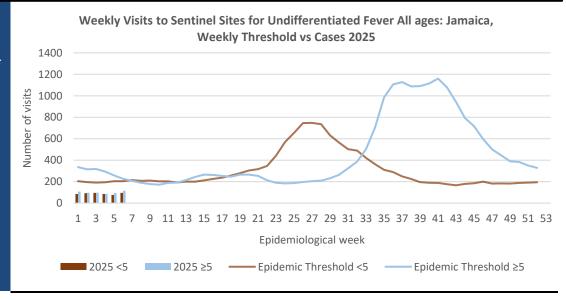
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
						20)25						
3	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
4	On	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
5	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
6	On	On	On	On	On	Late	On	On	On	On	On	On	Late
	Time	Time	Time	Time	Time	(T)	Time	Time	Time	Time	Time	Time	(T)

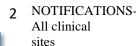
REPORTS FOR SYNDROMIC SURVEILLANCE

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.



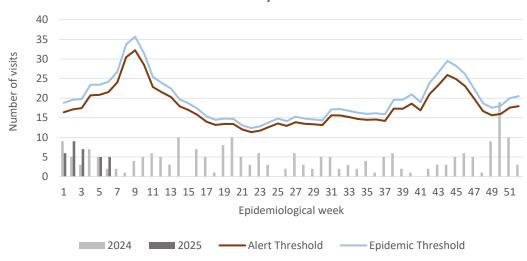
FEVER AND JAUNDICE

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

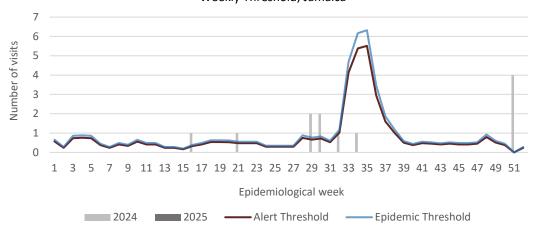
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



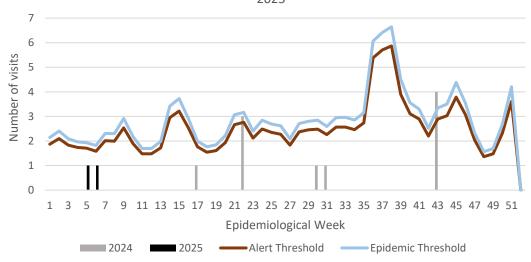
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2024 and 2025 vs. Weekly Threshold: Jamaica

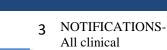


Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2024 and 2025 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2024 and 2025





sites



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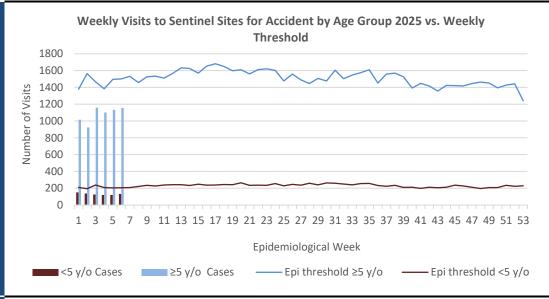
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



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.

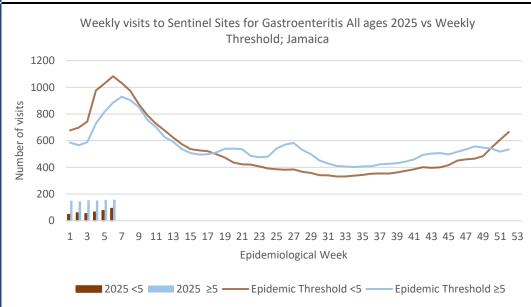


Weekly Visits to Sentinel Sites for Violence by Age Groups 2025 vs. Weekly **Threshold** 800 700 **Number of Visits** 600 500 400 300 200 100 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 Epidemiological Week ■<5 y.o Epi Threshold <5 y/o - Epi Threshold ≥5y/o ≥5 v.o

GASTROENTERITIS

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









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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



CLASS ONE NOTIFIABLE EVENTS

Comments

		ADLE EVENTS			Comments
			Confirm	ed YTD ^α	AFP Field Guides from
	CLASS 1 EVENTS		CURRENT YEAR 2025	PREVIOUS YEAR 2024	WHO indicate that for an effective surveillance system, detection rates for
	Accidental P	oisoning	4^{β}	54β	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. To Dengue Hemorrhagic
Ę	Cholera		0	0	
√NO	Severe Deng	ue ^y	See Dengue page below	See Dengue page below	
ATIO	COVID-19 (SARS-CoV-2)	16	111	
NATIONAL /INTERNATIONAL INTEREST	Hansen's Di	sease (Leprosy)	0	0	
L /INTERN INTEREST	Hepatitis B		0	8	
L/ IN	Hepatitis C		0	1	
ON,	HIV/AIDS		NA	NA	Fever data include Dengue
ATI	Malaria (Im	ported)	0	0	related deaths;
Z	Meningitis		1	1	δ Figures include all deaths
	Monkeypox		0	0	associated with pregnancy reported for the period. ^ε CHIKV IgM positive cases ^θ Zika PCR positive cases
EXOTIC/ UNUSUAL	Plague		0	0	
7.4	Meningococ	cal Meningitis	0	0	
H IGH MORBIDITY. MORTALITY	Neonatal Tet	anus	0	0	
H I DRB DRT	Typhoid Fev	er	0	0	Ť.
MM	Meningitis H	I/Flu	0	0	^β Updates made to prior weeks.
	AFP/Polio		0	0	^α Figures are cumulative totals for all epidemiologic
	Congenital R	Rubella Syndrome	0	0	
70	Congenital Syphilis		0	0	weeks year to date.
MES	Fever and Rash	Measles	0	0	
RAM		Rubella	0	0	
(OG)	Maternal De	Maternal Deaths ^δ		8	
L PR	Ophthalmia l	Neonatorum	0	23	
SPECIAL PROGRAMMES	Pertussis-like	e syndrome	0	0	
	Rheumatic F	'ever	0	0	
	Tetanus		0	0	
	Tuberculosis		0	11	
	Yellow Feve		0	0	
	Chikungunya	aε	0	0	
	Zika Virus ^θ		0	0	NA- Not Available







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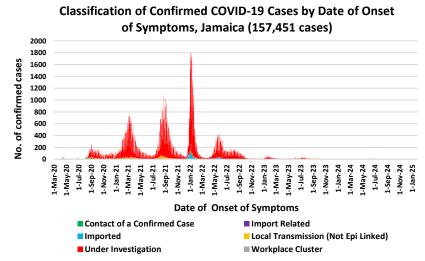
HOSPITAL ACTIVE SURVEILLANCE- $30\ sites.$ Actively pursued



COVID-19 Surveillance Update

CASES	EW 6	Total		
Confirmed	3	157451		
Females	1	90718		
Males	2	66730		
Age Range	4 to 70 years	1 day to 108 years		
* 0				

- * 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.

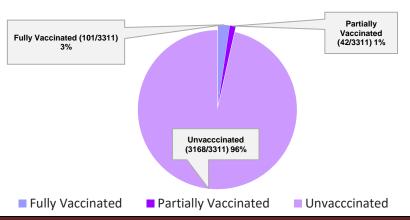


COVID-19 Outcomes

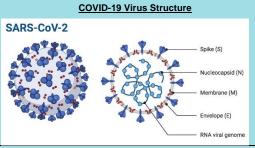
Outcomes	EW 6	Total
ACTIVE *2 weeks*		6
DIED – COVID Related	0	3875
Died - NON COVID	0	396
Died - Under Investigation	0	142
Recovered and discharged	0	103226
Repatriated	0	93
Total		157451

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

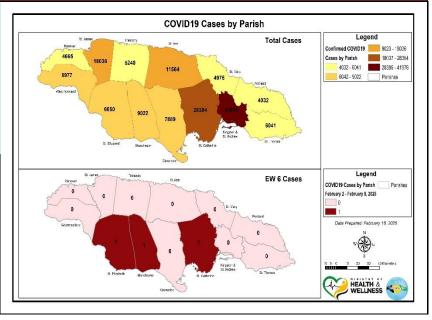
3311 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statistics EW 3 - 6, 2025					
Epi Week	Confirmed Cases	Deaths			
3	23600	1100			
4	19500	1100			
5	16100	910			
6	15300	736			
Total (4weeks)	74500	3846			







INVESTIGATION
REPORTS- Detailed Follow
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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

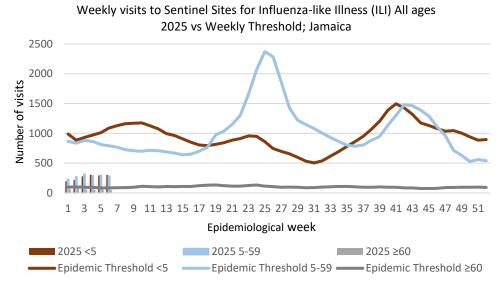


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 6

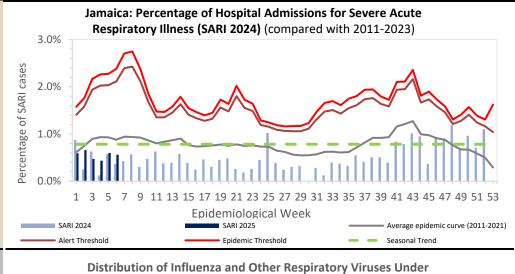
February 2, 2025 - February 8, 2025 Epidemiological Week 6

	EW 6	YTD
SARI cases	11	54
Total Influenza positive Samples	1	75
Influenza A	1	70
H3N2	0	25
H1N1pdm09	1	45
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	1	22



Epi Week Summary

During EW 6, eleven (11) SARI admissions were reported.

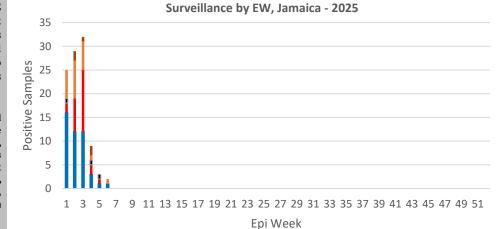


Caribbean Update EW 6

Caribbean: ILI cases for SARS-CoV-2 remain low, while RSV shows a slight increase. Influenza remains high but is trending downward and SARI cases linked to influenza have decreased compared to the previous EWs. A(H1N1)pdm09 was as the predominant subtype.

By country: Over the past four epidemiological weeks, influenza activity has increased in the Dominican Republic, Suriname, Barbados, Guyana and Saint Vincent and the Grenadines while declining in Belize, Haiti, Jamaica, Saint Lucia and the Cayman Islands. Additionally, RSV activity, after reaching seasonal peaks, continues to decline. SARS-CoV-2 circulation remains low.

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



A not subtype

7 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

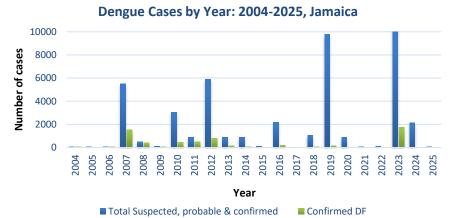


Dengue Bulletin

February 2, 2024 – February 8, 2025 Epidemiological Week 6

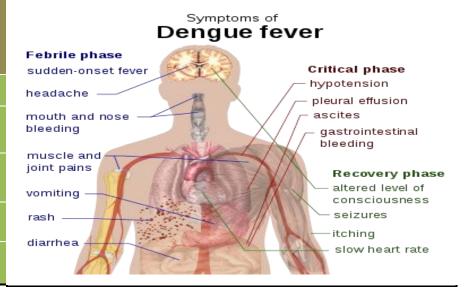
Epidemiological Week 6





Reported suspected, probable and confirmed dengue with symptom onset in week 6 of 2025

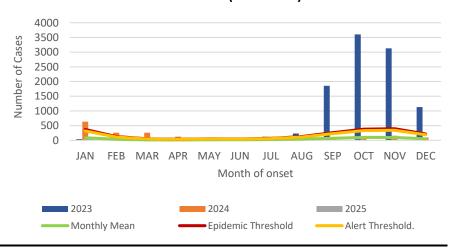
	2025*		
	EW 6	YTD	
Total Suspected, Probable & Confirmed Dengue Cases	1	48	
Lab Confirmed Dengue cases	0	0	
CONFIRMED Dengue Related Deaths	0	0	



Points to note:

- Dengue deaths are reported based on date of death.
- *Figure as at February 18, 2025
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

Suspected, probable and confirmed dengue cases for 2023-2025 versus monthly mean, alert and epidemic threshold (2007-2022)



NOTIFICATIONS-All clinical



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





February 21, 2025 ISSN 0799-3927

RESEARCH PAPER

Abstract

NHRC-23-O03

The prevalence of elevated blood pressure and hypertension in adolescents 10-14 years old in Kingston and St. Andrew, Jamaica—a pilot study

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Objectives: This study aimed to determine the prevalence of elevated blood pressure (EBP) and hypertension (HTN) in early adolescents (10-14 years) in the Kingston metropolitan area and investigate associated sociodemographic and anthropometric factors.

Methods: A cross-sectional study was conducted in randomly selected schools in the Kingston metropolitan region. Requisite consent and assent were obtained with institution approvals. Participants completed self-administered questionnaires collecting sociodemographic data, medical and family histories. Participants' weight, height, and blood pressure were measured using standardized procedures. Logistic regression was used to evaluate factors associated with prevalent EBP (SBP and/or DBP ≥ 90th < 95th percentile for sex, age, and height). Obesity is defined as a BMI ≥95th percentile. Statistical significance was at the 5% level.

Results: Two hundred and seventy-six adolescents participated (male: n=123, 44.6%, mean (SD) age 11.34 (1.20) y; female: n=153, 55.4%; mean (SD) age 11.67 (1.20) y). Most participants (n=213, 77.7%) visited the doctor or nurse in the past year; 39% (n=106) had checked their BP in the past 12 months. Participants' nutritional status was categorised as underweight (n=6, 2.2%); normal weight (n=165, 59.8%); overweight (n=46, 16.7%); and obesity (n=59, 21.4%).

Five participants (n=3 males, 2 females; 1.8%) met criteria for systolic hypertension (4th report). Overweight/obesity was the only variable significantly associated with hypertension (OR 4.1, 95%CI 1.42-11.91; p<0.01) in early adolescents.

Conclusion: Elevated blood pressure and hypertension are health concerns for early Jamaican adolescents and are positively correlated with overweight or obesity. Suboptimal screening of BP by health care providers occurs and should be encouraged.



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

