WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL SURVEILLANCE UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Scabies



Scabies is one of the commonest dermatologyical conditions, accounting for a substantial proportion of skin disease in many low- and middle-income countries. Globally, it is estimated to affect more than 200 million people at any time and more than 400 million people every year. Scabies is caused by infestation of the skin with a microscopic mite (Sarcoptes scabiei

var. hominis) characterized by itch and a skin eruption. Scabies is frequently complicated by bacterial skin infection (impetigo). In turn, impetigo may result in abscesses, sepsis and invasive infections with bacteria, most frequently Staphylococcus aureus and Streptococcus pyogenes, the latter of which may result in kidney disease and rheumatic heart disease. Scabies also impacts quality of life: itch and visible rash often lead to poor sleep, stigmatization and social exclusion, interrupting school and work attendance.

Scabies affects the world's most disadvantaged populations, especially people living in crowded and impoverished conditions, from island communities in the Pacific to favelas of Latin America, remote and rural communities across Africa and Australia, and displaced populations living in camps. In resource-poor settings, scabies and its complications impose a major cost on health care systems. In high-income countries, cases are sporadic, yet outbreaks in health institutions and vulnerable communities contribute to significant economic costs for national health services.

Scabies mites burrow under the upper layer of the skin to lay their eggs, resulting in intense itching. Characteristics of scabies are papules or burrows in typical locations, including the web spaces of the fingers and toes, wrists, buttocks, breasts in females, and genitals. In young children and the elderly, scabies lesions may also be present on the palms, soles and scalp. The itching and rash cause poor sleep, stigmatization and social exclusion, as well as absenteeism from education and employment, resulting in reduced learning potential for children and economic impacts for families and communities. Presence of redness, pus or crusts may indicate a secondary bacterial infection. This should be differentiated from crusted scabies, a severe form of scabies, that is characterized by thick, scaly, plaques over the skin and, in severe cases, deep fissures.

Primary management of affected individuals involves application of a topical scabicide such as 5% permethrin, 0.5% malathion in aqueous base, 10–25% benzyl benzoate emulsion or 5–10% sulfur ointment. Oral ivermectin is also highly effective and is approved in several countries. The safety of ivermectin in pregnant women or children below 15 kg body weight has not been established, so ivermectin should not be used in these groups until more safety data are available. Itch commonly intensifies with effective treatment for 1–2 weeks and treated individuals should be informed accordingly.

Because people in the early stage of new infestation may be asymptomatic, it is critical to treat the whole household at the same time as the diagnosed case. Repeating treatment in the time frame appropriate for the chosen medication (typically after 7–14 days) will lead to a higher efficacy, particularly for oral ivermectin, which does not kill mite eggs.

Taken from WHO website on 28/August/2024 https://www.who.int/health-topics/scabies#tab=tab_1 https://www.who.int/health-topics/scabies#tab=tab_2 https://www.who.int/health-topics/scabies#tab=tab_3

EPI WEEK 33



Syndromic Surveillance

Accidents

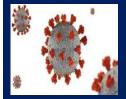
Violence

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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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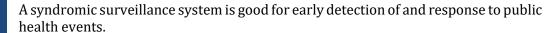


Research Paper

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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 –
30 to 33 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

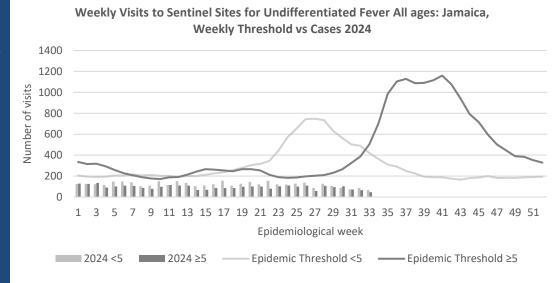
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
2024													
30	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
31	On	On	On	Late	On	Late	On	Late	On	On	On	On	On
	Time	Time	Time	(W)	Time	(W)	Time	(W)	Time	Time	Time	Time	Time
32	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
33	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

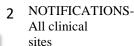
REPORTS FOR SYNDROMIC SURVEILLANCE

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

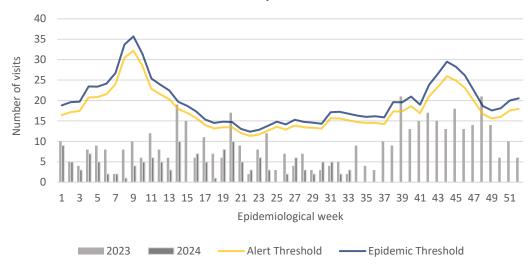
Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

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.

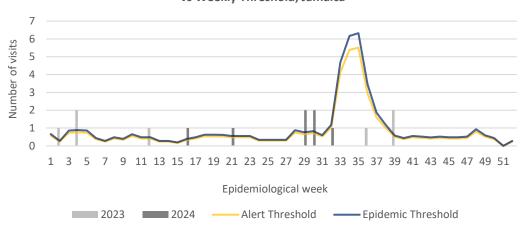


Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2023 and 2024 vs. Weekly Threshold: Jamaica

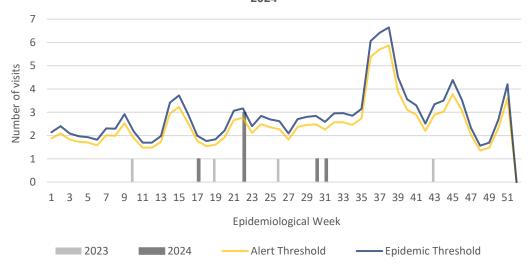
ISSN 0799-3927



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









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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

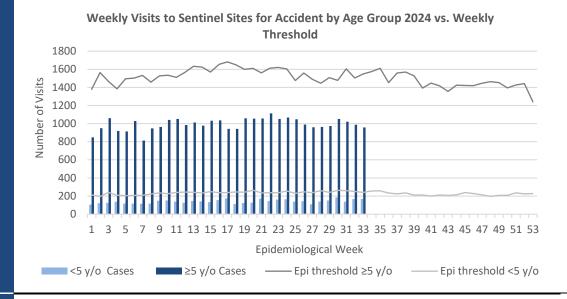




ACCIDENTS

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



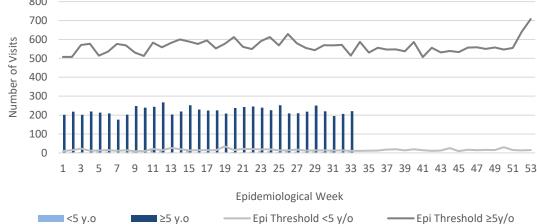


VIOLENCE

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 2024 vs. Weekly **Threshold** 800

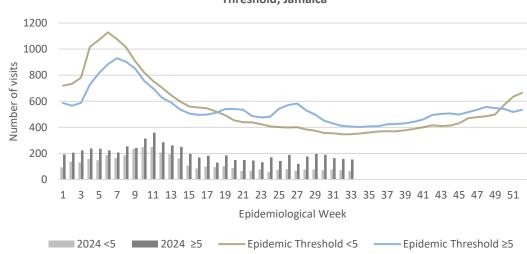


GASTROENTERITIS

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

021100	JNE NOTIF				Comments	
			Confirm	ed YTD ^α	AFP Field Guides from	
	CLASS 1 EVENTS		CURRENT YEAR 2024	PREVIOUS YEAR 2023	WHO indicate that for an effective surveillance system, detection rates for	
H	Accidental P	Poisoning	206^{β}	246^{β}	AFP should be 1/100,000 population under 15 years old (6 to 7) cases annually. ——————————————————————————————————	
	Cholera		0	0		
√NC	Severe Deng	gue ^y	See Dengue page below	See Dengue page below		
ATI	COVID-19 (SARS-CoV-2)	590	3393		
NATIONAL /INTERNATIONAL INTEREST	Hansen's Di	sease (Leprosy)	0	0		
L /INTERN INTEREST	Hepatitis B		14	50		
	Hepatitis C		3	24	──── [∨] Dengue Hemorrhagic	
7NO	HIV/AIDS		NA	NA	Fever data include Dengue	
ATI	Malaria (Im	ported)	1	0	related deaths;	
Z	Meningitis		9	20	δ Figures include all deaths	
	Monkeypox		0	3	associated with pregnancy	
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.	
74	Meningococ	cal Meningitis	0	0	 ^εCHIKV IgM positive cases ^θ Zika PCR positive cases ^β Updates made to prior weeks. ^α Figures are cumulative totals for all epidemiologic weeks year to date. 	
SH	Neonatal Te	tanus	0	0		
H IGH MORBIDITY/ MORTALITY	Typhoid Fev	er	0	0		
M M	Meningitis H	I/Flu	1	2		
	AFP/Polio		0	0		
	Congenital F	Rubella Syndrome	0	0		
	Congenital S	Congenital Syphilis		0		
MES	Fever and Rash	Measles	0	0		
3AMI		Rubella	0	0		
OGE	Maternal De	Maternal Deaths ^δ		36		
PR	Ophthalmia	Neonatorum	72	91		
SPECIAL PROGRAMM	Pertussis-like	e syndrome	0	0		
	Rheumatic F	Sever	0	0		
	Tetanus		0	0		
	Tuberculosis	3	19	45		
	Yellow Feve		0	0		
	Chikunguny	aε	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

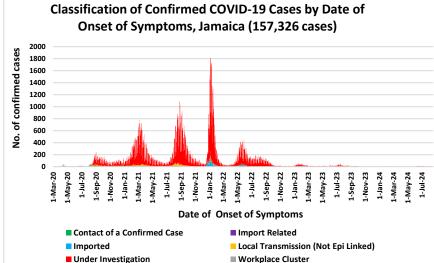


August 30, 2024 ISSN 0799-3927

COVID-19 Surveillance Update

		COAID
CASES	EW 33	Total
Confirmed	21	157326
Females	9	90660
Males	12	66663
Age Range	38 days to 79 years old	1 day to 108 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.



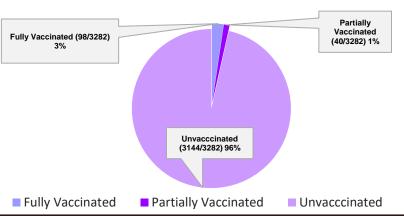
COVID-19 Outcomes

Outcomes	EW 33	Total
ACTIVE *2 weeks*		43
DIED – COVID	0	3845
Related Died - NON	0	200
COVID Died - Under	0	380
Investigation	0	164
Recovered and discharged	0	103226
Repatriated	0	93
Total		157326

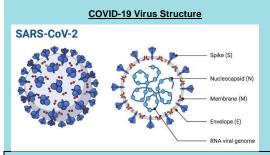
*Vaccination programme March 2021 - YTD

* Total as at current Epi week

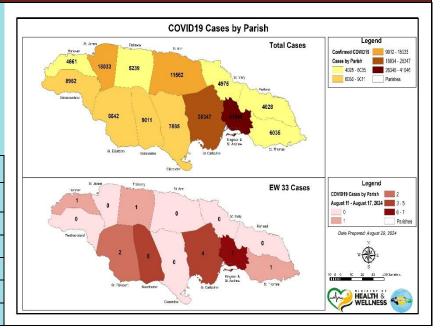
3282 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statistics EW 30-33, 2024				
Epi Week	Confirmed Cases	Deaths		
30	52800	854		
31	57300	998		
32	48800	987		
33	42800	903		
Total (4weeks)	201700	3742		



6 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

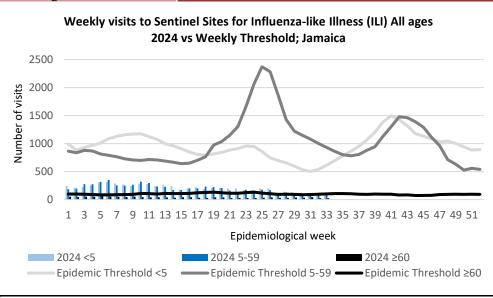


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 33

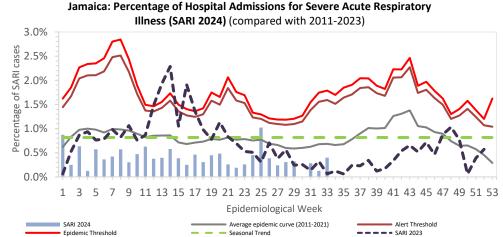
August 11, 2024 - August 17, 2024 Epidemiological Week 33

	EW 33	YTD
SARI cases	6	206
Total Influenza positive Samples	0	128
Influenza A	0	123
H3N2	0	32
H1N1pdm09	0	91
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	0	34



Epi Week Summary

During EW 33, six (6) SARI admissions were reported.

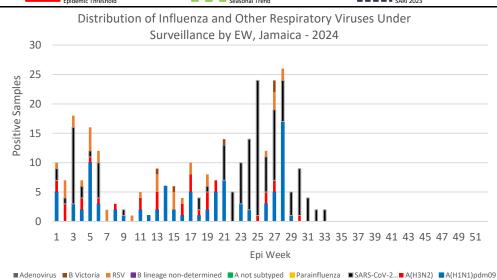


Caribbean Update EW 33

Caribbean: Following the rise observed in previous weeks, ILI cases have shown a decreasing trend over the past four EW, associated with a higher proportion of positive influenza cases. SARI cases have remained low. Influenza activity has fluctuated, though declining at moderate levels over the past four Ew, with A(H3N2) being predominant, followed by A(H1N1)pd09. RSV activity has remained low, though showing a slight increase and SARS-CoV-2 activity remains high.

By country: In the last four EW, influenza activity has been observed in Belize, the Dominican Republic and Guyana. Additionlly, SARS-CoV-2 activity has been recorded in Belize, Jamaica, Saint Lucia, Barbados, Guyana, the Cayman Islands and Saint Vincent and the Grenadines. RSV activity has also been observed in Suriname

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



7 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

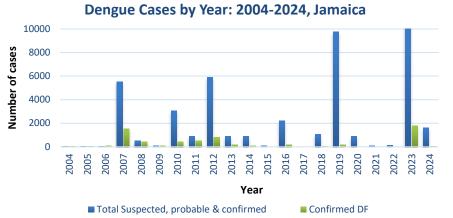


Dengue Bulletin

August 11, 2024 - August 17, 2024 Epidemiological Week 33

Epidemiological Week 33





Reported suspected, probable and confirmed dengue with symptom onset in week 33 of 2024

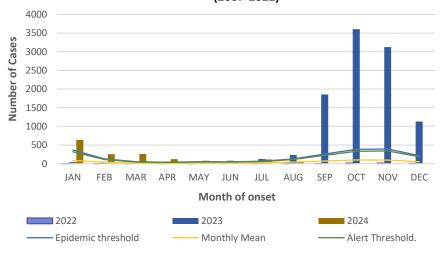
	2024*			
	EW 33	YTD		
Total Suspected, Probable & Confirmed Dengue Cases	8	1597		
Lab Confirmed Dengue cases	0	36		
CONFIRMED Dengue Related Deaths	0	1		

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 August 28, 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



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



August 30, 2024 ISSN 0799-3927

RESEARCH PAPER

Abstract

NHRC-23-013

Impact of the COVID-19 Pandemic on the Utilization of Jamaican Health Clinics

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Objective: The objective of this study was to determine the impact of COVID-19 Family Planning (FP), Antenatal (ANC), Postnatal (PNC), Child Health (CHC) Psychiatry, and NCD- Curative Clinics by comparing their utilisations during the first ten months of the pandemic March-December 2020, with the corresponding non-COVID reference period March-December 2019.

Method: Retrospective data from the MCSR was extracted for the clinics evaluated, and patient count was compared between the COVID-19 and non-COVID-19 reference period by calculating the per cent change in utilisation. Utilisation was analysed by Parish, Health Region, Age, Sex, and Service. Bivariate (X2) and multivariate analyses (Poisson regression models) were conducted to test statistical significance and to calculate incidence risk ratios (IRR).

Results: There was a significant decline in CHC (-19.3%) and PNC (-4.77%) attendance. All other clinics showed an increase in utilisation. This increase was not seen across all parishes and Regions. For Curative Clinics, marginal differences were observed for Diabetes and Hypertension Clinics. However, there was an increase in patients presenting with Uncontrolled Diabetes and Uncontrolled Hypertension.

The results of the bivariate analyses were corroborated by the IRR for Child Health (0.74 (C.I. 0.74-0.75)), indicating a 26% decline.

Conclusion: The COVID-19 pandemic affected healthcare utilisation in Jamaica, and Child Health Clinics were the most affected. Increases in the utilisation of family planning, antenatal and psychiatric services are notable. The declines in utilisation of clinic services found by Region and Parish require further investigation.



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

