WEEKLY EPIDEMIOLOGY BULLETIN NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Cervical Cancer



Worldwide, cervical cancer is the fourth most frequent cancer in women with an estimated 604 000 new cases in 2020. Of the estimated 342 000 deaths from cervical cancer in 2020, about 90% of these occur in low- and middle-income countries.

Screening

Cervical cancer screening involves testing for HPV infection to detect pre-cancer and cancer, followed by treatment as appropriate. Testing is done among women who have no symptoms and may feel perfectly healthy. When screening detects an HPV infection or pre-cancerous lesions, these can easily be treated and cancer can be avoided. Screening can also detect cancer at an early stage where treatment has a high potential for cure. Screening should start from 30 years of age in the general population of women, with regular screening with a validated HPV test every 5 to 10 years, and from 25 years of age for women living with HIV. Women living with HIV also need to be screened more frequently, every 3 to 5 years.

Symptoms of cervical cancer

Symptoms of early-stage cervical cancer may include:

- irregular blood spotting or light bleeding between periods in women of reproductive age;
- postmenopausal spotting or bleeding;
- bleeding after sexual intercourse; and
- increased vaginal discharge, sometimes foul smelling.

As cervical cancer advances, more severe symptoms may appear including:

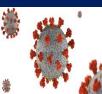
- persistent back, leg or pelvic pain;
- weight loss, fatigue, loss of appetite;
- foul-smell discharge and vaginal discomfort; and
- swelling of a leg or both lower extremities.

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

EPI WEEK 15 - Syndromic Surveillance - Accidents - Violence Pages 2-4

Class 1 Notifiable Events

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Influenza

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re-search

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April 28, 2023

SENTINEL SYNDROMIC SURVEILLANCE

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Sentinel Surveillance in Iamaica



Table showcasing the **Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four** Most Recent **Epidemiological Weeks -**12 to 15 of 2023

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

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.

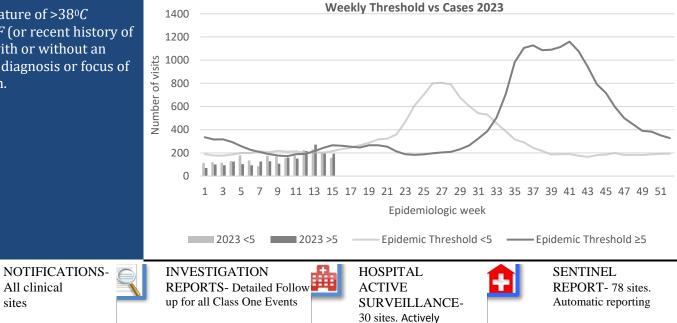
	Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
1	.2	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
1	.3	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
1	4	On Time	On Time	late (w)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time
1	.5	On Time	On Time	late (t)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time	On Time

Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica,

REPORTS FOR SYNDROMIC SURVEILLANCE

UNDIFFERENTIATED FEVER

Temperature of >38°C /100.4°F (or recent history of fever) with or without an obvious diagnosis or focus of infection.



pursued



2

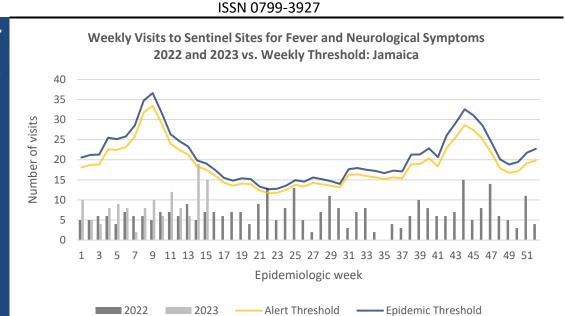
All clinical

sites

April 28 , 2023

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°*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.



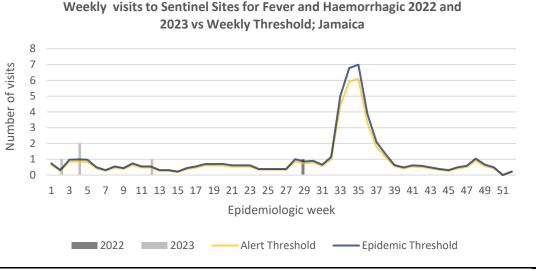
3 NOTIFICATIONS-All clinical sites

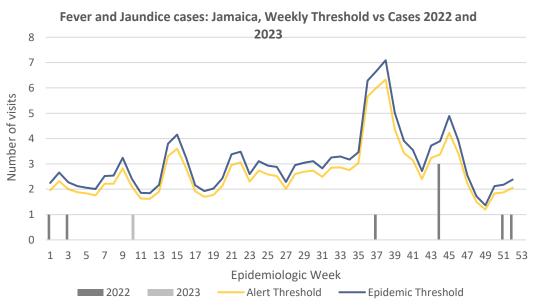
INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

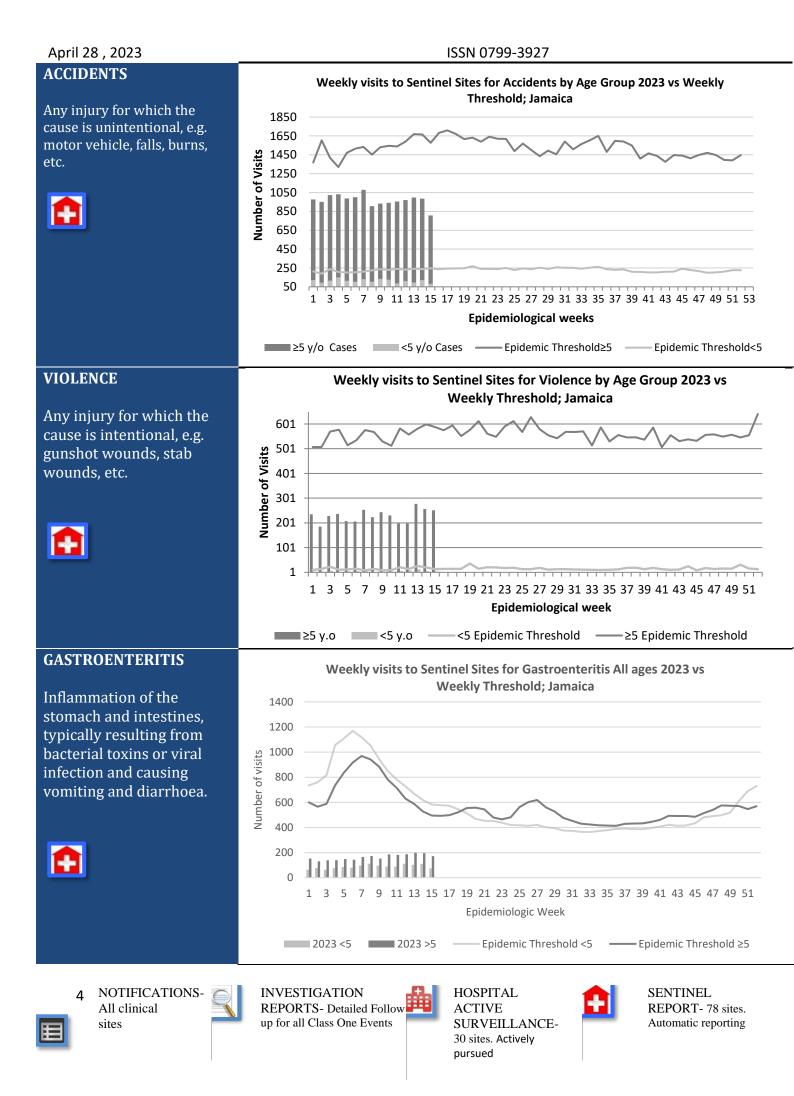


HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued









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CLASS ONE NOTIFIABLE EVENTS

Comments

	CLASS 1 EVENTS		. Confirm	ed YTD ^{α}	AFP Field Guides from	
			CURRENT YEAR 2023	PREVIOUS YEAR 2022	WHO indicate that for an effective surveillance system, detection rates for	
	Accidental Po	bisoning	88 ^β	78 ^β	AFP should be 1/100,000	
Ţ	Cholera		0	0	population under 15 years old (6 to 7) cases annually.	
/NO	Dengue Hem	orrhagic Fever ^{γ}	See Dengue page below	See Dengue page below	old (0 to 7) cases annually.	
ATI	COVID-19 (S	SARS-CoV-2)	1862	32174	Pertussis-like syndrome	
EST	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically confirmed classifications.	
L /INTERN INTEREST	Hepatitis B		12	3		
NATIONAL /INTERNATIONAL INTEREST	Hepatitis C		3	1	γ Dengue Hemorrhagic	
ON/	HIV/AIDS		N/A	N/A	Fever data include Dengue	
ATI	Malaria (Imp	ported)	0	0	related deaths;	
Z	Meningitis (C	Clinically confirmed)	10	7	δ Figures include all deaths	
	Monkeypox		3	N/A	associated with pregnancy	
EXOTIC/ UNUSUAL	Plague		0	0	reported for the period.	
۲۲ ۲۲	Meningococc	al Meningitis	0	0	^ε CHIKV IgM positive	
GH IDIT	Neonatal Teta	anus	0	0	cases	
H IGH MORBIDITY/ MORTALITY	Typhoid Feve	er	0	0	$^{\theta}$ Zika PCR positive cases	
MC	Meningitis H	/Flu	0	0	^β Updates made to prior weeks in 2020.	
	AFP/Polio		0	0	$^{\alpha}$ Figures are cumulative	
	Congenital R	ubella Syndrome	0	0	totals for all	
	Congenital Syphilis		0	0	epidemiological weeks year to date.	
MES	Fever and	Measles	0	0		
SPECIAL PROGRAMI	Rash	Rubella	0	0		
SOG	Maternal Deaths ^{δ}		12	20		
L PF	Ophthalmia N	Veonatorum	34	29	-	
CIA	Pertussis-like	syndrome	0	0	-	
SPE	Rheumatic Fe	ever	0	0	-	
	Tetanus		0	0	-	
	Tuberculosis		4	10		
	Yellow Fever		0	0		
	Chikungunya	3	0	0		
	Zika Virus ^θ		0	0	NA- Not Available	

NOTIFICATIONS-5 All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

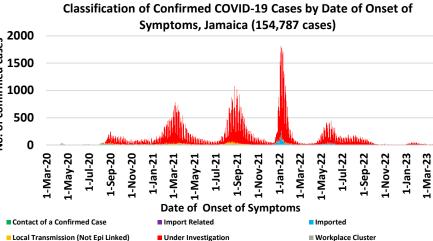




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COVID-19 Surveillance Update March 10, 2020 - EW 15, 2023

CASES		EW 15	Total	Classi	
Confirme	ed	53	154787	2000 9 1500	
Female	S	32	89290	99 1000 9 500 500	
Males		21	65494	No. 1-Mar-20 1-May-20 1-Jul-20	
Age Rang	ge	83 days old to 91 years	1 day to 108 years		
* 3 positive ca	itive cases had no gender specification				

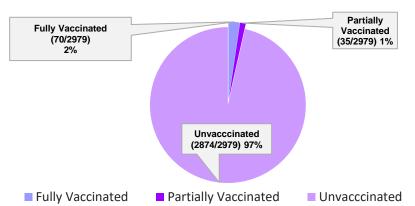


* PCR or Antigen tests are used to confirm cases

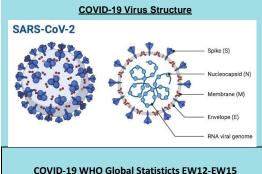
COVID-19 Outcomes

Outcomes	EW 15	Total			
ACTIVE		96			
past 2 weeks					
DIED – COVID	0	2526			
Related	0	3536			
Died - NON	0	300			
COVID	0	300			
Died - Under	0	350			
Investigation	0	550			
Recovered and	0	102803			
discharged	0	102805			
Repatriated	0	93			
Total		154787			
*Vaccination programme March 2021 – YTD					

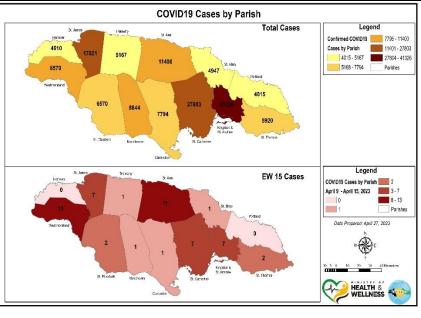
2979 COVID-19 Related Deaths since March 1, 2021 - YTD Vaccination Status among COVID-19 Deaths



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statisticts EW12-EW15					
Epi Week	Confirmed Cases	Deaths			
12	781,563	1,546			
13	705,447	4,540			
14	691,495	4,174			
15	594,269	2,835			
Total (4weeks)	2,772,774	13,095			



NOTIFICATIONS-6 All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



ACTIVE SURVEILLANCE-30 sites. Actively pursued





April 28, 2023

NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

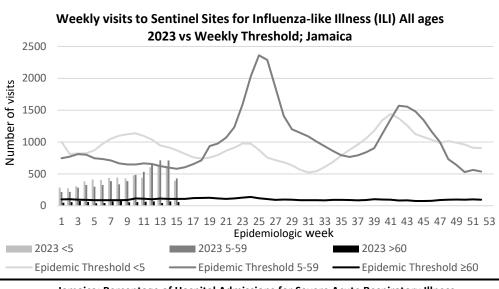
EW 15

April 9 - April 15, 2023 Epidemiological Week 15

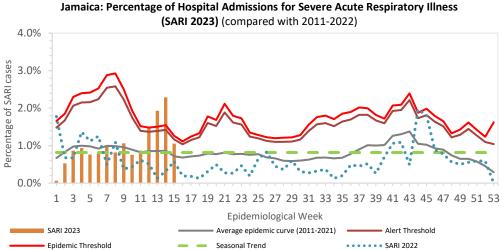
	EW 15	YTD
SARI cases	17	250
Total Influenza positive Samples	0	46
Influenza A	0	12
H3N2	0	1
H1N1pdm09	0	10
Not subtyped	0	1
Influenza B	2	34
B lineage not determined	0	2
B Victoria	2	32
Parainfluenza	0	1
Adenovirus	0	2
RSV	0	13

Epi Week Summary

During EW 15, seventeen (17) SARI admissions were reported.

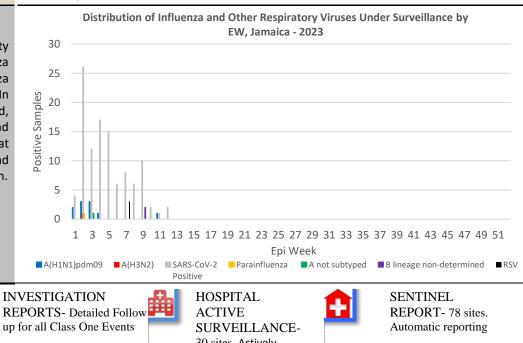


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Caribbean Update EW 15

Caribbean:Influenza percent positivity was moderate, driven by influenza B/Victoria lineage viruses; influenza A(H1N1)pdm09 virus co-circulated. In Belize, influenza activity was increased, with influenza B/Victoria lineage and influenza A(H3N2) co-circulation, at low-intensity levels. SARS-CoV-2 and RSV activity were low in the subregion.



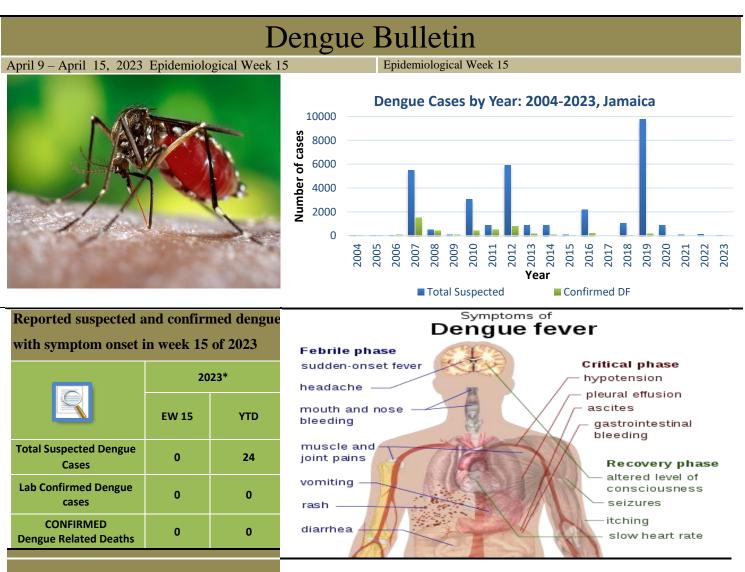


REPORTS- Detailed Follow up for all Class One Events

30 sites. Actively

pursued

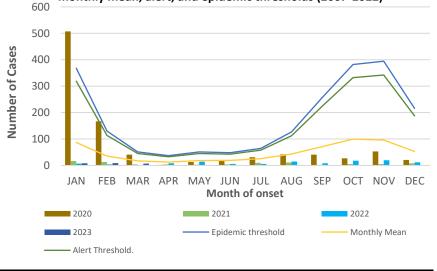
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Suspected dengue cases for 2020, 2021, 2022 and 2023 versus monthly mean, alert, and epidemic thresholds (2007-2022)

Points to note:

- *Figure as at April 15, 2023
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.



8 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





RESEARCH PAPER

Abstract

NHRC-21-O3

The Neurodevelopmental Outcomes of Congenital Zika Syndrome in Jamaican Children

R Melbourne-Chambers^{1,5}, P Palmer⁵, Y Brown², T James-Powell^{3,5}, J Tapper⁴, 5, L Mowatt^{1,5}, I Siqueira⁶, C Thorne⁷, ZIKAction Paediatric Registry Study Group, CDC Christie^{1,5}

¹University Hospital of the West Indies, ²Victoria Jubilee Hospital, ³Spanish Town Hospital, ⁴Bustamante Hospital for Children, ⁵The University of the West Indies, ⁶Instituto Gonçalo Moniz-Fiocruz, Brazil, ⁷UCL Great Ormond Street Institute of Child Health, University College London This project has received funding from the European Union's Horizon 2020 research and Innovation Program under grant

This project has received funding from the European Union's Horizon 2020 research and Innovation Program under grant agreement No. 734857.

Introduction: As part of a multicentre registry, this study aimed to characterize the clinical, radiological, neurodevelopmental and laboratory features of children antenatally exposed to ZIKV and/or presenting with suspected congenital zika syndrome (CZS) in Jamaica.

Methods: Retrospective study of children potentially exposed to Zika antenatally and attended clinics at/ admitted to either of four public hospitals in the Kingston and St Andrew (KSA) region and St. Catherine, Jamaica who met >/= 1 inclusion criteria: 1. Microcephalic at birth, 2. Features of CZS 3. Exposed to Zika in utero. Data: maternal demography, antenatal, labour, delivery history, newborn anthropometry, results of hearing, vision screening, neurodevelopmental assessment, laboratory, radiologic investigations were extracted from hospital records. Descriptive and Chi square analyses were performed. Ethical approval was obtained.

Results: 55 participants; 34 (61.8%) female; 4 (7.3%) born premature; 4 (7.2%) neonates -lab confirmed Zika; 6 (10.9%) mothers - lab confirmed Zika, 6 (10.9%) mothers Zika symptomatic (no lab confirmation); 31 (56.4%) congenital microcephaly, 14 (25.9%) severe; 20 (36.3%) craniofacial disproportion, 3 (5.4%) arthrogryposis. 9/34 (26.5%) abnormal ophthalmology findings; 6/12 (50.0%) abnormal hearing. 26/33 (78.8%) had abnormal neuroimaging findings. 8 (33.3%) ventriculomegaly, 7 (29.2%) cerebral/basal ganglia calcifications, 5 (20.8%) migrational abnormalities, 5 (20.8%) cortical atrophy, 3 (12.5%) cerebellar malformations. 20/36 (55.5%) had developmental delay. There was one death. Developmental delay was associated with abnormal neuroimaging (p=0.003), ophthalmology abnormalities (p=0.023) and hearing abnormalities (p=0.005) but not with head circumference (p=0.89).

Conclusions: CZS was more common in Jamaican females. Half developed developmental delay significantly associated with abnormal neuroimaging, ophthalmology and hearing.



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9 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



