WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Anaemia



Anaemia is a condition in which the number of red blood cells or the haemoglobin concentration within them is lower than normal. It mainly affects women and children.Anaemia occurs when there isn't enough haemoglobin

in the body to carry oxygen to the organs and tissues. The population groups most vulnerable to anaemia include children under 5 years of age, particularly infants and children under 2 years of age, menstruating adolescent girls and women, and pregnant and postpartum women.

Anaemia may be caused by several factors: nutrient deficiencies, inadequate diet (or the inadequate absorption of nutrients), infections, inflammation, chronic diseases, gynaecological and obstetric conditions, and inherited red blood cell disorders. Iron deficiency, primarily due to inadequate dietary iron intake, is considered the most common nutritional deficiency leading to anaemia. Deficiencies in vitamin A, folate, vitamin B12 and riboflavin can also result in anaemia due to their specific roles in the synthesis of haemoglobin and/or erythrocyte production. Additional mechanisms include nutrient losses (e.g. blood loss from parasitic infections, haemorrhage associated with childbirth, or menstrual loss), impaired absorption, low iron stores at birth, and nutrient interactions affecting iron bioavailability.

Infections can be another important cause of anaemia, depending on the local burden of infectious diseases, such as malaria, tuberculosis, HIV and parasitic infections. Infections can impair nutrient absorption and metabolism (e.g. malaria, ascariasis) or can cause nutrient loss (e.g. schistosomiasis, hookworm infection). Many different chronic conditions can cause inflammation and lead to anaemia of inflammation or anaemia of chronic disease. HIV infection causes anaemia through a wide range of mechanisms including ineffective production or excessive destruction of red blood cells, blood loss, and side effects of the drug treatment.

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

EPI WEEK 19



- Syndromic Surveillance
- Accidents
- Violence

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Class 1 Notifiable Events

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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 –
16 to 19 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

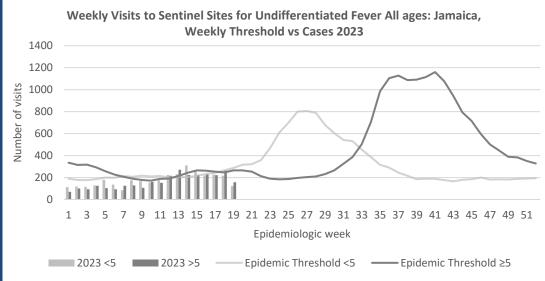
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
	2023												
16	On	On	On	On	On	On	On	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
17	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
18	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
19	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.





2 NOTIFICATIONS-All clinical sites



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.



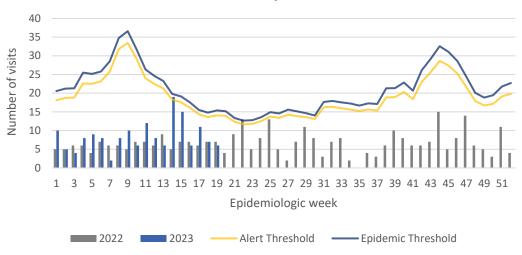
FEVER AND JAUNDICE

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

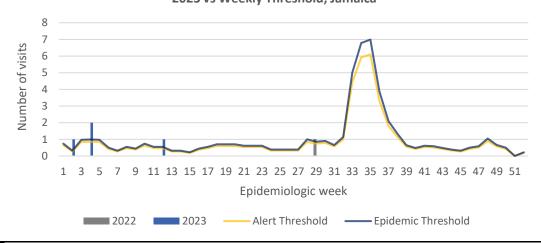
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



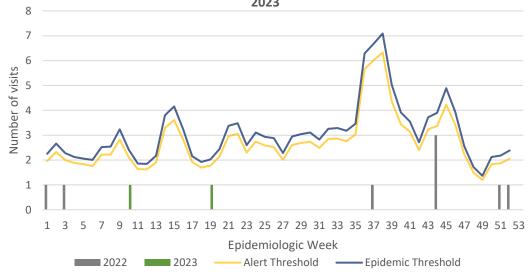
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2022 and 2023 vs. Weekly Threshold: Jamaica



Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2022 and 2023 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2022 and 2023







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REPORTS- Detailed Follow
up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

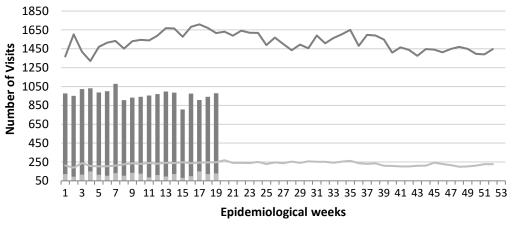


ACCIDENTS

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



Weekly visits to Sentinel Sites for Accidents by Age Group 2023 vs Weekly Threshold; Jamaica



≥5 y/o Cases

<5 y/o Cases —

— Epidemic Threshold≥5

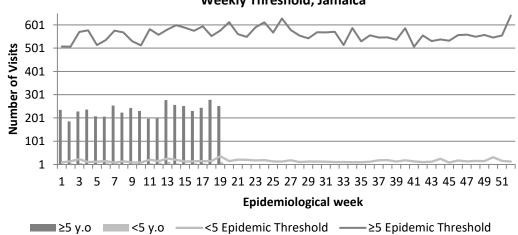
Epidemic Threshold<5

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 Group 2023 vs Weekly Threshold; Jamaica

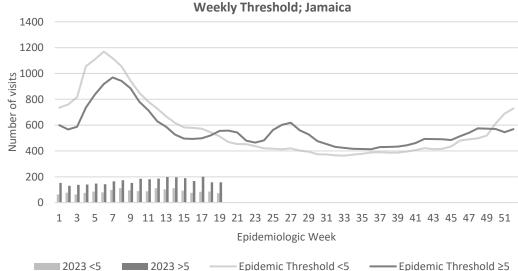


GASTROENTERITIS

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 2023 vs Weekly Threshold: Jamaica







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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





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CLASS ONE NOTIFIABLE EVENTS

Comments

				1 X/mp (l			
			. Confirm CURRENT	ed YTD ^{α}	AFP Field Guides from WHO indicate that for an		
	CLASS 1 EVENTS			PREVIOUS YEAR 2022	effective surveillance		
			YEAR 2023		system, detection rates for		
	Accidental Po	oisoning	124^{β}	91 ^β	AFP should be 1/100,000		
7	Cholera		0	0	population under 15 years old (6 to 7) cases annually.		
ON	Dengue Hem	orrhagic Fever ⁹	See Dengue page below	See Dengue page below	old (0 to 7) cases annually.		
ATI	COVID-19 (S	SARS-CoV-2)	2054	36110	Pertussis-like syndrome		
L /INTERN INTEREST	Hansen's Dis	ease (Leprosy)	0	0	and Tetanus are clinically		
N TI	Hepatitis B		22	6	confirmed classifications.		
NATIONAL /INTERNATIONAL INTEREST	Hepatitis C		8	2	—————————————————————————————————————		
√NC	HIV/AIDS		N/A	N/A	Fever data include Dengue		
ATI	Malaria (Imp	orted)	1	0	related deaths;		
Z	Meningitis (C	Clinically confirmed)	12	9	δ Figures include all deaths		
	Monkeypox	•	3	N/A	associated with pregnancy		
EXOTIC/	Plague		0	0	reported for the period.		
UNUSUAL					ε CHIKV IgM positive		
H IGH MORBIDITY, MORTALITY	Meningococo		0	0	cases		
H IGH RBIDI RTAL)	Neonatal Teta		0	0	^θ Zika PCR positive cases		
H IOR IOR	Typhoid Feve	er	0	0	β Updates made to prior		
2 2	Meningitis H	/Flu	0	0	weeks in 2020.		
	AFP/Polio		0	0	^α Figures are cumulative		
	Congenital R	ubella Syndrome	0	0	totals for all		
S	Congenital Sy	yphilis	0	0	epidemiological weeks year to date.		
MES	Fever and	Measles	0	0			
SPECIAL PROGRAMM	Rash	Rubella	0	0			
10G	Maternal Dea	$aths^{\delta}$	17	25			
. PR	Ophthalmia N	Neonatorum	42	47			
CIA	Pertussis-like	syndrome	0	0			
SPE	Rheumatic Fe	ever	0	0			
	Tetanus		0	2			
	Tuberculosis		10	13			
	Yellow Fever		0	0			
	Chikungunya	3	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

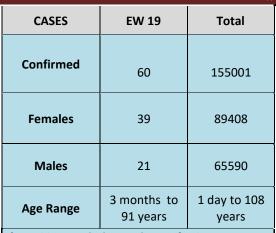


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COVID-19 Surveillance Update

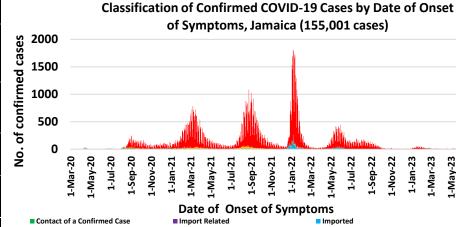
March 10, 2020 – EW 19, 2023

Local Transmission (Not Epi Linked)





^{*} PCR or Antigen tests are used to confirm cases



COVID-19 Outcomes

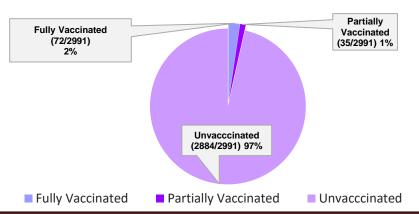
Outcomes	EW 19	Total	
ACTIVE *past 2 weeks*		110	
DIED – COVID Related	1	3549	
Died - NON COVID	0	301	
Died - Under Investigation	0	345	
Recovered and discharged	4	102964	
Repatriated	0	93	
Total		155001	

*Vaccination programme March 2021 – YTD

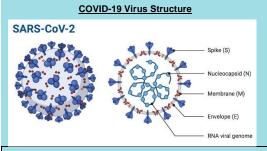
2991 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths

■ Workplace Cluster

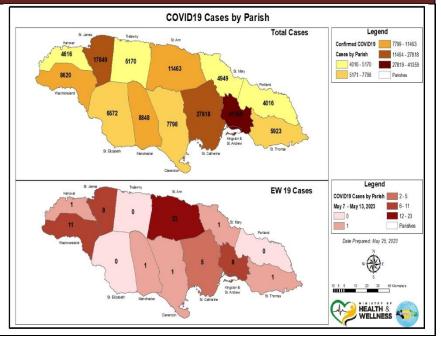
Under Investigation



COVID-19 Parish Distribution and Global Statistics



COVID-19 WHO Global Statisticts EW16-EW19					
Epi Week	Confirmed Cases	Deaths			
16	689,720	4407			
17	617,010	4167			
18	559,589	4434			
19	424,032	1977			
Total (4weeks)	2,290,351	14,985			



6 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



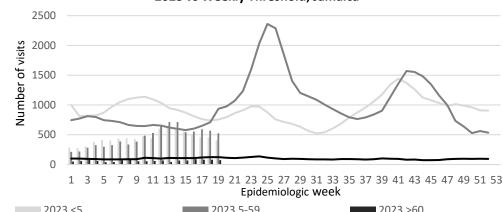
NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 19

May 7 - May 13, 2023 Epidemiological Week 19

	EW 19	YTD
SARI cases	13	326
Total Influenza positive Samples	0	82
Influenza A	0	13
H3N2	0	1
H1N1pdm09	0	11
Not subtyped	0	1
Influenza B	0	69
B lineage not determined	0	2
B Victoria	0	67
Parainfluenza	0	1
Adenovirus	0	2
RSV	0	13

Weekly visits to Sentinel Sites for Influenza-like Illness (ILI) All ages 2023 vs Weekly Threshold; Jamaica



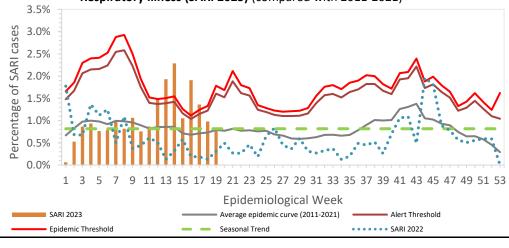
2023 <5 Epidemic Threshold <5

■ 2023 5-59 ■ Epidemic Threshold 5-59 ■ 2023 >60 — Epidemic Threshold ≥60

Epi Week Summary

During EW 19, thirteen (13) SARI admissions were reported.

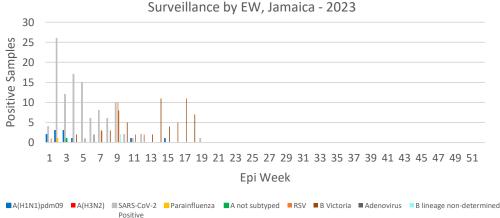
Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2023) (compared with 2011-2021)



Caribbean Update EW 19

Caribbean: Influenza activity has shown a rise in recent weeks with medium levels of activity. During the last 4 EW, the predominant influenza viruses have been B/Victoria, with less circulation of influenza A (mostly A(H1N1)pdm09). RSV activity has remained low. SARSCoV- 2 activity has shown a decrease and is currently at low levels of circulation.

Distribution of Influenza and Other Respiratory Viruses Under Surveillance by FW Jamaica - 2023



7 NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

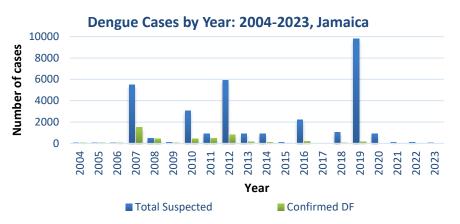


Dengue Bulletin

May 7 – May 13, 2023 Epidemiological Week 19

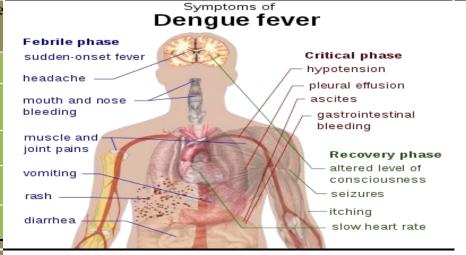
Epidemiological Week 19





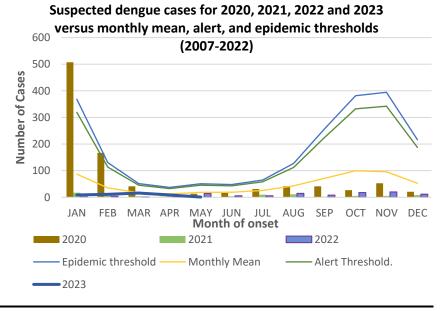
Reported suspected and confirmed dengue with symptom onset in week 19 of 2023

	2023*				
	EW 19	YTD			
Total Suspected Dengue Cases	1	46			
Lab Confirmed Dengue cases	0	0			
CONFIRMED Dengue Related Deaths	0	0			



Points to note:

- *Figure as at May 13, 2023
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.







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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



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RESEARCH PAPER

Abstract

Title: Paternal Parenting and Depressive Symptoms in Adolescents

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Institution: The University of Technology, Jamaica

Objectives

This current research seeks to examine the relationship between adolescents' perception of paternal parenting and self-reported depressive symptoms. Hence, this study aimed to answer the following research questions: 1)What is the degree of nurturance, monitoring and discipline adolescents perceive they receive from their paternal parent? 2) Which paternal parenting style is most prevalent in Jamaica? 3) Which paternal parenting style is associated with higher levels of depressive symptoms among Jamaican adolescents? and 4) Which paternal parenting style is associated with lower levels of depressive symptoms among Jamaican adolescents?

Method

Stratified random sampling technique was used to obtain participants from three traditional high schools in Jamaica (Merl Grove High, Calabar High and Camperdown High). A total of 120 fourth form students participated in this study.

Results

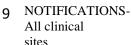
The results revealed that the majority of the sample (56.7%) reported that their paternal parent's style of parenting as being highly authoritative. Authoritarian paternal parenting style was associated with a higher level of depressive symptoms while authoritative paternal parenting style was associated with a lower level of depressive symptoms.

Conclusion

It may be deduced that the majority of the fathers in Jamaica are effective in their style and dimensions of parenting. However while most fathers appear to be parenting in a healthy manner, there is still need for concern for those adolescents who are exposed to authoritarian and permissive parenting since the style of parenting used has the potential to impact children's emotional health.



The Ministry of Health and Wellness 24-26 Grenada Crescent Kingston 5, Jamaica Tele: (876) 633-7924 Email: surveillance@moh.gov.jm





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

