WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Eye Care, Vision Care, Vision Impairment And Blindness

Visit an eye doctor Get eyes checked at least once a year and be aware of any hereditary eye conditions. Protect eyes from sun damage Avoid looking directly into the sun. Excessive UV rays may harm eyes and cause blindness. Wear sunglasses.

Key facts

- Globally, at least 2.2 billion people have a near or distance vision impairment. In at least 1 billion or almost half of these cases, vision impairment could have been prevented or has yet to be addressed.
- The leading causes of vision impairment and blindness are

uncorrected refractive errors and cataracts.

- The majority of people with vision impairment and blindness are over the age of 50 years; however, vision loss can affect people of all ages.
- Vision impairment poses an enormous global financial burden with the annual global costs of productivity losses associated with vision impairment from uncorrected myopia and presbyopia alone estimated to be US\$ 244 billion and US\$ 25.4 billion.

Strategies to address eye conditions to avoid vision impairment

While a large number of eye diseases can be prevented (e.g. infections, trauma, unsafe traditional medicines, perinatal diseases, nutrition-related diseases, unsafe use or self-administration of topical treatment), this is not possible for all.

Each eye condition requires a different, timely response. There are effective interventions covering promotion, prevention, treatment and rehabilitation which address the needs associated with eye conditions and vision impairment; some are among the most cost-effective and feasible of all health care interventions to implement. For example, uncorrected refractive error can be corrected with spectacles or surgery while cataract surgery can restore vision.

Treatment is also available for many eye conditions that do not typically cause vision impairment, such as dry eye, conjunctivitis and blepharitis, but generate discomfort and pain. Treatment of these conditions is directed at alleviating the symptoms and preventing the evolution towards more severe diseases.

Vision rehabilitation is very effective in improving functioning for people with an irreversible vision impairment that can be caused by eye conditions such as diabetic retinopathy, glaucoma, consequences of trauma and age-related macular degeneration.

EPI WEEK 52



SENTINEL SURVEILLANCE SUMMARY



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GASTROENTERITIS

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CLASS 1 DISEASES PAGE 5



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DENGUE FEVER PAGE 7



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

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 –
49, 2021 to 52 of 2021

Parish health departments submit reports weekly by 3 p.m. on Tuesdays. Reports submitted after 3 p.m. are considered late.

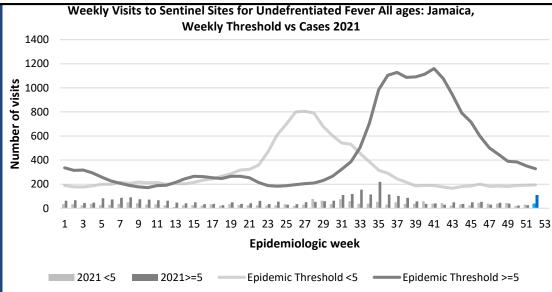
Epi week	Kingston and Saint Andrew	Saint Thomas	Saint Catherine	Portland	Saint Mary	Saint Ann	Trelawny	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
2021													
49													
	On Time	On Time	On Time	On Time	On Time	On Time	Late (T)	On Time	Late (T)	On Time	On Time	Late (W)	Late (W)
50			_					_					
	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
51													
	On Time	On Time	On Time	On Time	On Time	Late (T)	Late (T)	Late (T)	On Time	On Time	On Time	On Time	On Time
52													
	On Time	On Time	On Time	On Time	On Time	On Time	Late (T)	On Time	On Time	On Time	On Time	On Time	On Time

REPORTS FOR SYNDROMIC SURVEILLANCE

Temperature of $>38^{\circ}C$ /100.4°F (or recent history of fever) with or without an obvious diagnosis or focus of infection.



KEY
VARIATIONS OF BLUE
SHOW CURRENT WEEK





2 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

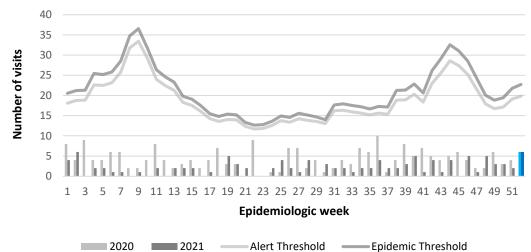


FEVER AND NEUROLOGICAL

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).



Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2020 and 2021 vs. Weekly Threshold: Jamaica

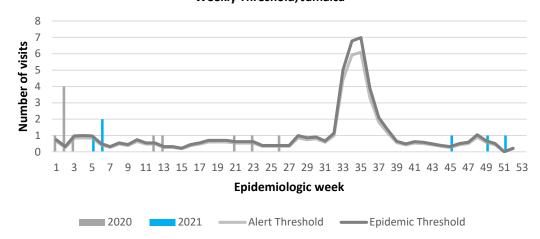


FEVER AND HAEMORRHAGIC

Temperature of $>38^{\circ}C$ $/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.



Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2020 and 2021 vs Weekly Threshold; Jamaica



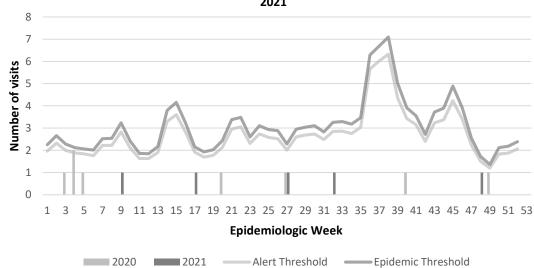
FEVER AND JAUNDICE

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.



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2020 and 2021







NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



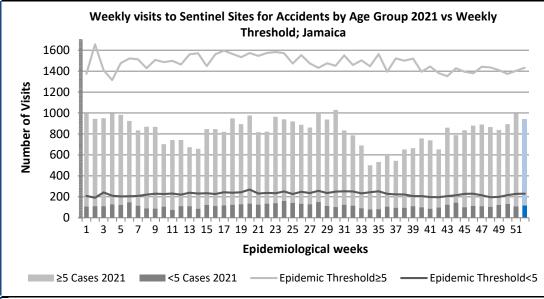
ACCIDENTS

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

KEY

VARIATIONS OF BLUE SHOW CURRENT WEEK



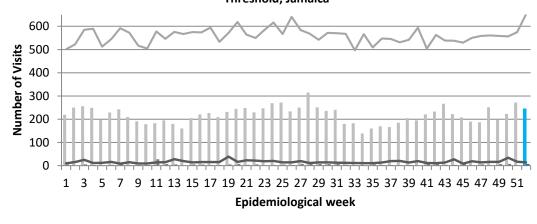


VIOLENCE

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 2021 vs Weekly Threshold; Jamaica



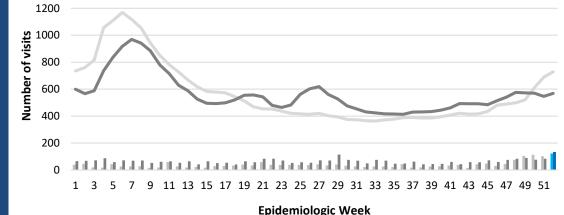
GASTROENTERITIS

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





<5 Epidemic Threshold





2021 <5

≥5 y.o

<5 y.o</p>

2021 >=5

Epidemic Threshold <5

Epidemic Threshold >5

≥5 Epidemic Threshold



4 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirm	$^{ m ned}~{ m YTD}^{lpha}$	AFP Field Guides from		
	CLASS 1 EVENTS		CURRENT YEAR 2021	PREVIOUS YEAR 2020	WHO indicate that for an effective surveillance system,		
	Accidental P	oisoning	179 ^β	106	detection rates for AFP		
VAL	Cholera		0	0	should be 1/100,000 population under 15 years old (6 to 7) cases annually.		
NATIONAL /INTERNATIONAL INTEREST	Dengue Hem	norrhagic Fever ^γ	See Dengue page below	See Dengue page below			
L /INTERN INTEREST	Hansen's Dis	sease (Leprosy)	0	0	Pertussis-like syndrome and Tetanus are clinically		
/IN/	Hepatitis B		2	3			
ÄÄL	Hepatitis C		0	0			
TIO	HIV/AIDS		NA	NA	confirmed classifications.		
Z A	Malaria (Im	ported)	0	0			
	Meningitis (0	Clinically confirmed)	30	1	^γ Dengue Hemorrhagic Fever data include		
EXOTIC/ UNUSUAL	Plague		0	0	Dengue related deaths;		
ľY/ TY	Meningococ	cal Meningitis	0	0	δ Figures include all		
H IGH MORBIDITY, MORTALITY	Neonatal Tetanus		0	0	deaths associated with pregnancy reported for		
H 1 ORB ORT	Typhoid Fever		0	0	the period.		
ΣΣ	Meningitis H	I/Flu	0	0	ε CHIKV IgM positive		
	AFP/Polio		0	0	cases		
	Congenital Rubella Syndrome		0	0	^θ Zika PCR positive		
	Congenital S	yphilis	0	0	cases		
MES	Fever and Rash	Measles	0	0	^β Updates made to prior weeks in 2020.		
SPECIAL PROGRAMIV		Rubella	0	0	^α Figures are		
OGR	Maternal De	aths $^{\delta}$	81	52	cumulative totals for		
L PR	Ophthalmia 1	Neonatorum	216	38	all epidemiological weeks year to date.		
CIA	Pertussis-like	e syndrome	0	0			
SPE	Rheumatic F	'ever	0	0			
	Tetanus		0	0			
	Tuberculosis		34	29			
	Yellow Feve	r	0	0			
	Chikungunya	3	0	0			
	Zika Virus ^θ		0	0	NA- Not Available		
= F NOTIF	ICATIONS.	INVESTIGATION	HOS	PITAL 👍	SENTINEL		







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

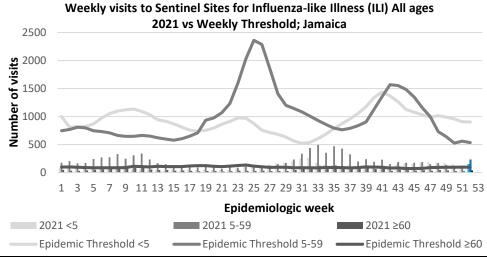


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 52

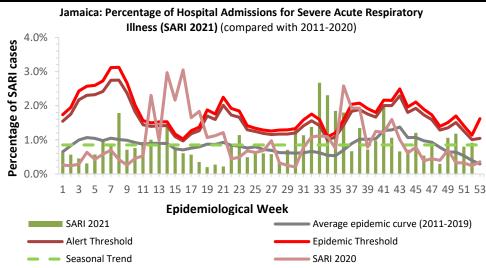
December 26 – January 1, 2022 Epidemiological Week 52

	EW 52	YTD
SARI cases	10	713
Total Influenza positive Samples	0	0
Influenza A	0	0
H3N2	0	0
H1N1pdm09	0	0
Not subtyped	0	0
Influenza B	0	0
Parainfluenza	0	0



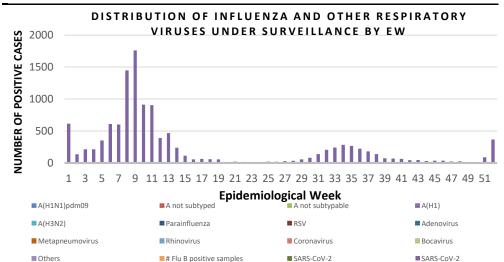
Epi Week Summary

During EW 52, ten (10) SARI admissions were reported.



Caribbean Update EW 52

Caribbean: Influenza activity remained low. In Belize, SARS-CoV-2 and RSV detections continued to increase and in Haiti, SARS-CoV-2 activity continued elevated and increasing.





6 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting

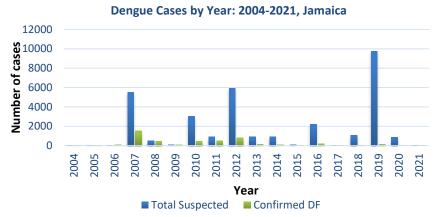
Positive

Dengue Bulletin

December 19 - 25, 2021 Epidemiological Week 52

Epidemiological Week 52





Reported suspected and confirmed dengue with symptom onset in week 52 of 2021

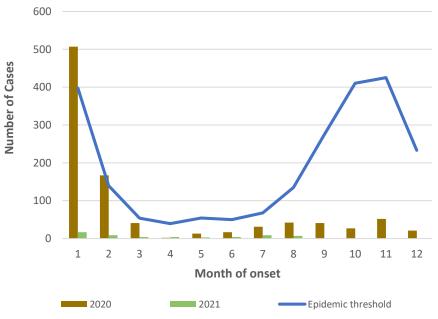
	2021*			
	EW 52	YTD		
Total Suspected Dengue Cases	0	60		
Lab Confirmed Dengue cases	0	5		
CONFIRMED Dengue Related Deaths	0	0		

Symptoms of Dengue fever Febrile phase sudden-onset fever Critical phase hypotension headache pleural effusion ascites 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:

- *Figure as at November 30, 2021
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

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





7 NOTIFICATIONS-All clinical sites



INVESTIGATION
REPORTS- Detailed Follow
up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



RESEARCH PAPER

Abstract

Entada gigas: Underutilized Plant for Food and Nutrition from an Indigenous Community in Jamaica

Foster S R, Randle M M, Bozra D, Riley C K, Watson C T Scientific Research Council, Kingston, Jamaica

Background: *Entada gigas* (cacoon) is a leguminous plant used by the Accompong maroons from St. Elizabeth, Jamaica, for medicinal and nutritional purposes. The plant seeds contain high protein levels, but are underutilized due to the anti-nutrients present.

Objectives: The effects of three processing methods (soaking, cooking and autoclaving) on proximate composition, anti-nutritional compounds and mineral content of *E. gigas* seeds collected were investigated.

Methods: Qualitative and quantitative evaluations of active phytochemical constituents, proximate and mineral analyses were performed on differentially processed *E. gigas* seed extracts using standard assays.

Results: Nutritional composition of mature *E. gigas* seeds corresponds with most edible legumes containing per 100 g edible portion: carbohydrate 50-55 g, protein 21-26 g, fat 15-20 g, crude fibre 5.3 g, and moisture 4.4 -5.9 g. Essential minerals including calcium (84.87 mg/L), iron (3.24 mg/L), potassium (793 mg/L), magnesium (112 mg/L), manganese (0.94 mg/L), sodium (7.24 mg/L) and zinc (1.49 mg/L) were also detected. Flavonoids, glycosides, steroids, terpenoids, saponins, tannins and phenols were among the phytochemicals present. Anti-nutritional substances present in the raw seeds, were effectively diminished after soaking for 21 days without significantly affecting the nutritionally beneficial compounds.

Conclusion: *Entada gigas* has nutritive values, comparable to other plant protein sources. Hence, its utilization is encouraged provided that an appropriate processing method is used to reduce the anti-nutrient content.



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8 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

