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

Tobacco

EFFECTS OF TOBACCO USE

- Acute bronchitis
 Chronic bronchitis
- Pneumonia
- Emphysema
- Cardiovascular disease
- (hypertension and stroke)
- Cancer
- Periodontal disease
- Osteoporosis



Key facts

- •Tobacco kills up to half of its users.
- •Tobacco kills more than 8 million people each year. More than 7 million of those deaths are the result of direct tobacco use while around 1.2 million are the result of nonsmokers being exposed to second-hand smoke.
- Over 80% of the world's 1.3 billion tobacco users live in low- and middle-income countries.

Key measures to reduce the demand for tobacco

- Second-hand smoke kills
- Second-hand smoke is the smoke that fills enclosed spaces when people burn tobacco products such as cigarettes, bidis and water-pipes.
- There is no safe level of exposure to second-hand tobacco smoke, which causes more than 1.2 million premature deaths per year and serious cardiovascular and respiratory diseases.
- Almost half of children regularly breathe air polluted by tobacco smoke in public places, and 65 000 die each year from illnesses attributable to second-hand smoke.
- In infants, it raises the risk of sudden infant death syndrome. In pregnant women, it causes pregnancy complications and low birth weight.
- Smoke-free laws protect the health of non-smokers and are popular, as they do not harm business and they encourage smokers to quit.



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



Released December 22, 2021

SENTINEL SYNDROMIC SURVEILLANCE Sentinel Surveillance in



Table showcasing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks – 34 2021 to 37 of 2021

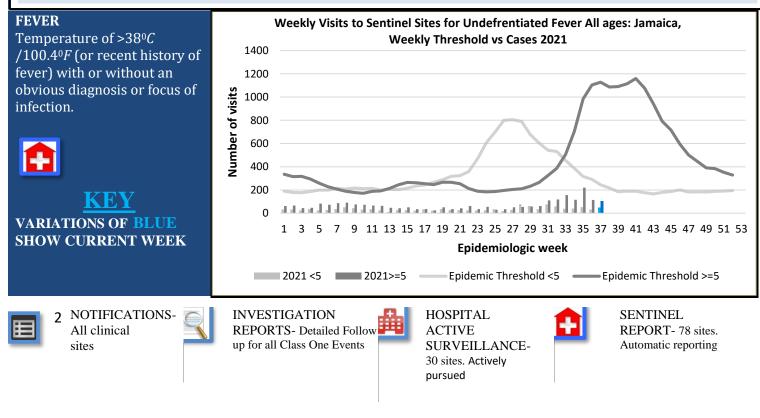
Parish health departments submit reports weekly by 3 p.m. on Tuesdays (T). Reports submitted after 3 p.m. are considered late e.g. Wednesdays (W). A syndromic surveillance system is good for early detection of and response to public health events.

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
2021													
34	Late	On	On	Late	On	On	On	On	On	On	On	Late	Late
	(W)	Time	Time	(W)	Time	Time	Time	Time	Time	Time	Time	(W)	(T)
35	Late	On	On	Late	On	On	Late	On	On	On	On	Late	Late
	(W)	Time	Time	(W)	Time	Time	(T)	Time	Time	Time	Time	(W)	(W)
36	On	On	On	Late	On	On	On	Late	On	On	On	Late	Late
	Time	Time	Time	(W)	Time	Time	Time	(W)	Time	Time	Time	(W)	(W)
37	On	On	On	On	On	On	Late	On	On	On	On	On	On
	Time	Time	Time	Time	Time	Time	(T)	Time	Time	Time	Time	Time	Time

REPORTS FOR SYNDROMIC SURVEILLANCE



Released December 22, 2021

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

 $/100.4^{\circ}F$ (or recent history of

fever) in a previously healthy

person presenting with at

least one haemorrhagic (bleeding) manifestation with

FEVER AND JAUNDICE

previously healthy person

presenting with jaundice.

per week plus 2 standard

deviations.

Temperature of $>38^{\circ}C/100.4^{\circ}F$

(or recent history of fever) in a

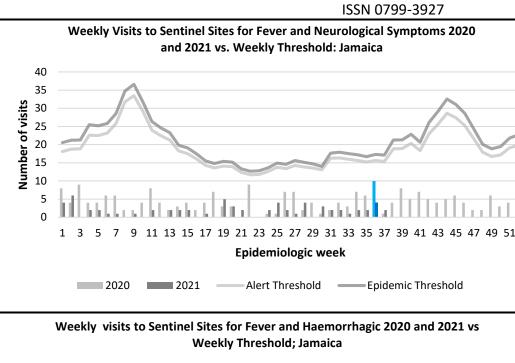
The epidemic threshold is used

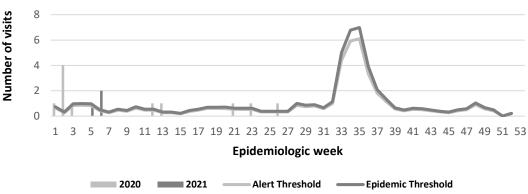
to confirm the emergence of an

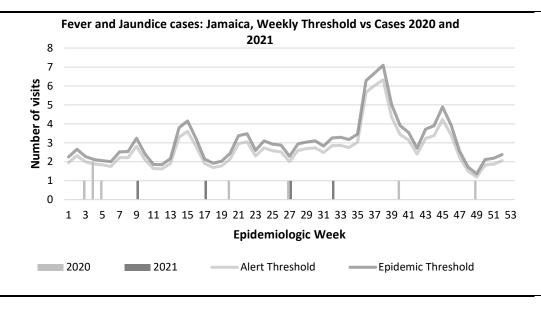
epidemic in order to implement

control measures. It is calculated using the mean reported cases

or without jaundice.









3 NOTIFICATIONS-All clinical sites



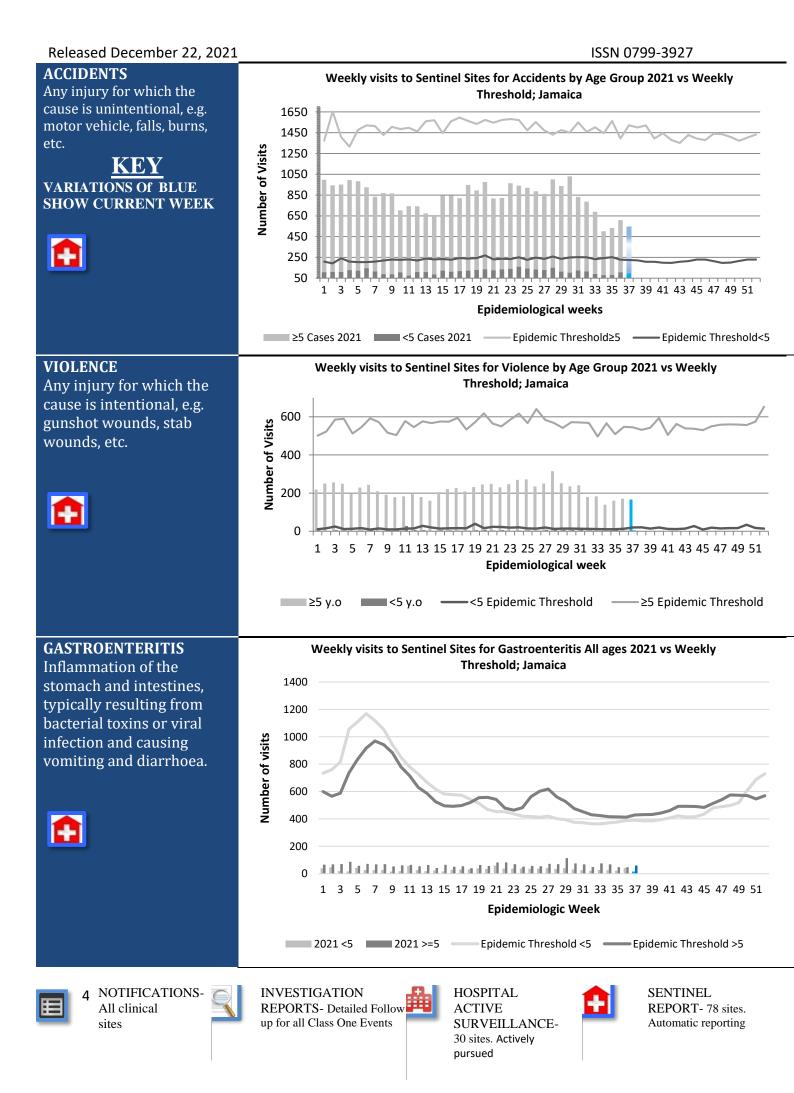
INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting



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CLASS ONE NOTIFIABLE EVENTS

CLASS ONE NOTIFIABLE EVENTS Comments								
			Confirm	ned YTD^{α}	AFP Field Guides from			
	CLASS 1 EV	/ENTS	CURRENT YEAR 2021	PREVIOUS YEAR 2020	WHO indicate that for an effective surveillance system,			
	Accidental P	oisoning	85	<u>82</u> β	detection rates for AFP			
VAL	Cholera		0	0	should be 1/100,000 population under 15			
NATIONAL /INTERNATIONAL INTEREST	Dengue Hem	orrhagic Fever ^γ	See Dengue page below	See Dengue page below	years old (6 to 7) cases annually.			
L /INTERN INTEREST	Hansen's Dis	sease (Leprosy)	0	0				
/IN7	Hepatitis B		2	3	Pertussis-like syndrome and Tetanus			
NAL	Hepatitis C		0	0	are clinically			
IOIT	HIV/AIDS		NA	NA	confirmed classifications.			
NA	Malaria (Im	ported)	0	0				
	Meningitis (Clinically confirmed)	30	1	^γ Dengue Hemorrhagic Fever data include			
EXOTIC/ UNUSUAL	Plague		0	0	Dengue related deaths;			
TY/ TY	Meningococ	cal Meningitis	0	0	$^{\delta}$ Figures include all			
H IGH Morbidity, Mortality	Neonatal Tet	tanus	0	0	deaths associated with pregnancy reported for			
H ORF	Typhoid Fev	er	0	0	the period.			
ΣΣ	Meningitis H	I/Flu	0	0	^ε CHIKV IgM positive			
	AFP/Polio		0	0	cases			
	Congenital R	Rubella Syndrome	0	0	^θ Zika PCR positive			
	Congenital S	yphilis	0	0	cases			
MES	Fever and Rash	Measles	0	0	$^{\beta}$ Updates made to prior weeks in 2020.			
AMD		Rubella	0	0	α Figures are			
OGR	Maternal De	aths ^δ	39	29	cumulative totals for all epidemiological weeks year to date.			
SPECIAL PROGRAMMES	Ophthalmia	Neonatorum	0	38				
CIAI	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			
5 NOTIF	ICATIONS-	INVESTIGATION REPORTS- Detailed up for all Class One F	l Follow 🕮 🛛 ACT	PITAL IVE VEILLANCE-	SENTINEL REPORT- 78 sites. Automatic reporting			

All clinical sites



REPORTS- Detailed Follow up for all Class One Events



ACTIVE SURVEILLANCE-30 sites. Actively pursued

REPORT- 78 sites. Automatic reporting

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SARI cases

Total Influenza

positive Samples

H3N2

Influenza A

H1N1pdm09

Not subtyped

Parainfluenza

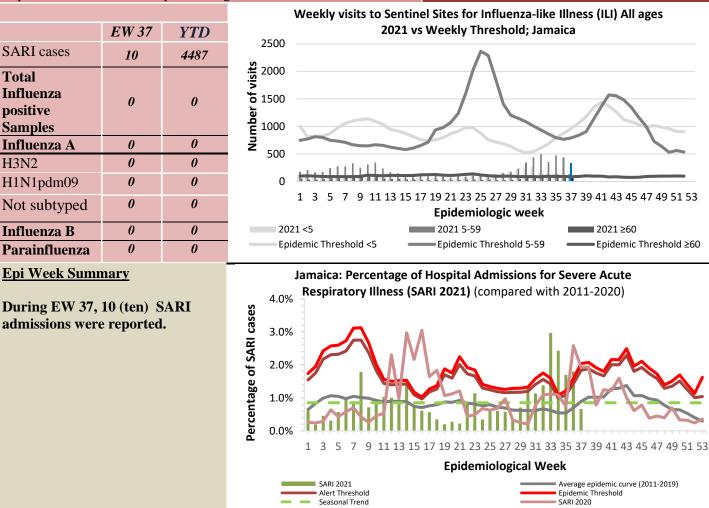
Influenza B

NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

EW 37

ISSN 0799-3927

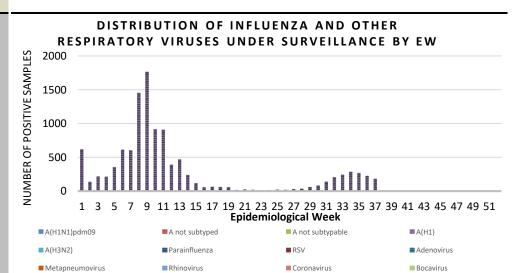
September 12 - 18, 2021 Epidemiological Week 37



Alert Threshold Seasonal Trend

Caribbean Update EW 37

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.





NOTIFICATIONS-All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

Others

HOSPITAL ACTIVE

Flu B positive samples

SURVEILLANCE-30 sites. Actively pursued

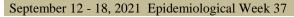
SARS-CoV-2

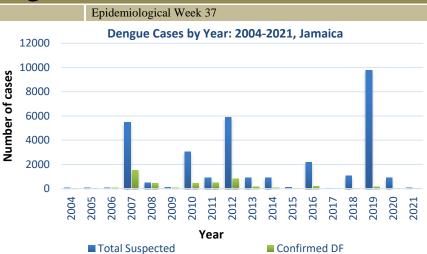
Positive

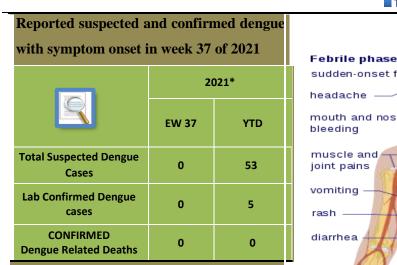
SENTINEL REPORT- 78 sites. Automatic reporting

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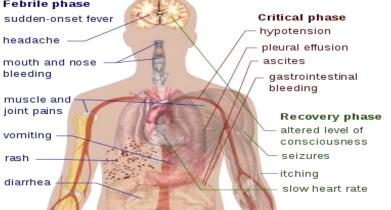
Dengue Bulletin



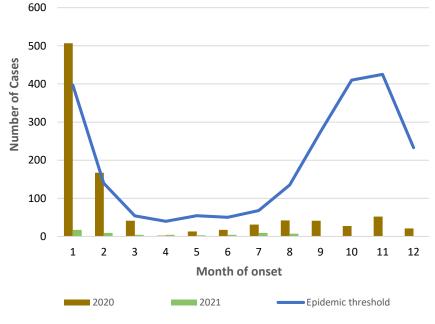




Symptoms of Dengue fever



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



Points to note:

- *Figure as at September 7, 2021
- **Only PCR positive dengue cases** are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

7

All clinical

sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

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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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