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

Weekly Spotlight

HEALTHY DIET



healthy diet helps Α protect against malnutrition in all its forms and is a foundation for health and development. It also helps to prevent noncommunicable diseases including diabetes. cardiovascular diseases. some cancers and other conditions linked to obesity. Together with a

lack of physical activity, an unhealthy diet is one of the leading global risks to health.

Evidence shows the benefits of a diet high in fruit, vegetables, legumes, nuts and grains, but lower in salt, free sugars and fats, particularly saturated and trans fats. Developing a healthy diet begins early in life with breastfeeding and educational initiatives for young children and parents. These benefits are reflected in higher educational outcomes, productivity and lifelong health.



However, there are many ways in which a healthy diet can be inaccessible, particularly in low- and middle-income countries and in situations with high rates of food insecurity such as armed conflict. Around the world, an estimated 2 billion people lack access to safe, nutritious and sufficient food. The proliferation of highly processed food, rapid unplanned urbanization and changing lifestyles has also contributed to more people eating unhealthy diets high in energy, fats, free sugars and salt.

https://www.who.int/health-topics/healthy-diet#tab=tab_1

EPI WEEK 48







- Accidents

- Violence

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Research Paper

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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 -**45 to 48 of 2022

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
45	On	On	Late	Late	On	On	On	On	On	On	On	On	On
	Time	Time	(T)	(T)	Time	Time	Time	Time	Time	Time	Time	Time	Time
46	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
47	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
48	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°C /100.4°F (or recent histo fever) with or without an obvious diagnosis or foc infection.



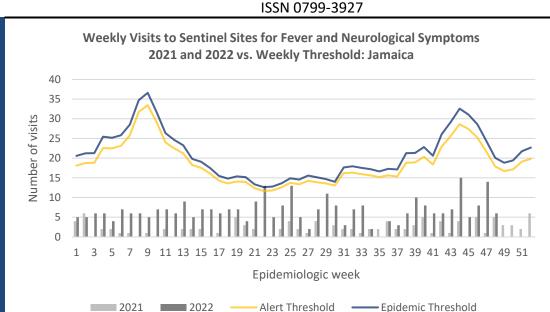
IFFERENTIATED FEVER	We		el Sites for Undifferentia Veekly Threshold vs Case		ges: Jamaica,				
perature of >38°C	1400 ———		veekiy illieshold vs case	5 2022					
.4°F (or recent history of) with or without an	1200 ———			\sim	<u>^</u>				
ous diagnosis or focus of	of 000								
tion.									
_	มือ 600 – – – – – – – – – – – – – – – – – –			\checkmark					
	2 400								
-									
	1 3	5 7 9 11 13 15	17 19 21 23 25 27 29 33	1 33 35 37 39	41 43 45 47 49 51 53				
			Epidemiologic we	ek					
	2022	2022≥5	—— Epidemic Threshold	<5 — Epide	emic Threshold ≥5				
2 NOTIFICATIONS- All clinical sites	INVESTIGA REPORTS- D up for all Class	etailed Follow	HOSPITAL ACTIVE SURVEILLANCE- 30 sites. Actively	RI RI	ENTINEL EPORT- 78 sites. atomatic reporting				

pursued

December 16, 2022

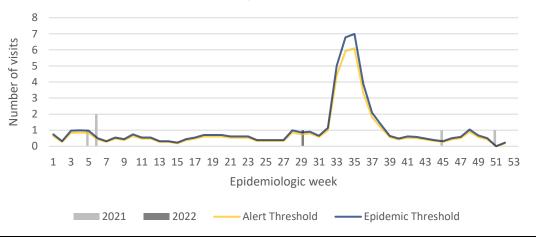
FEVER AND NEUROLOGICAL

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).

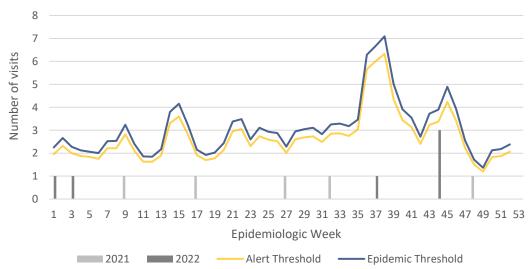


Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2021 and

2022 vs Weekly Threshold; Jamaica



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2021 and 2022



3

deviations.

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- 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



FEVER AND

HAEMORRHAGIC

Temperature of >38°C

/100.4^o*F* (or recent history of

fever) in a previously healthy

(bleeding) manifestation with

person presenting with at

least one haemorrhagic

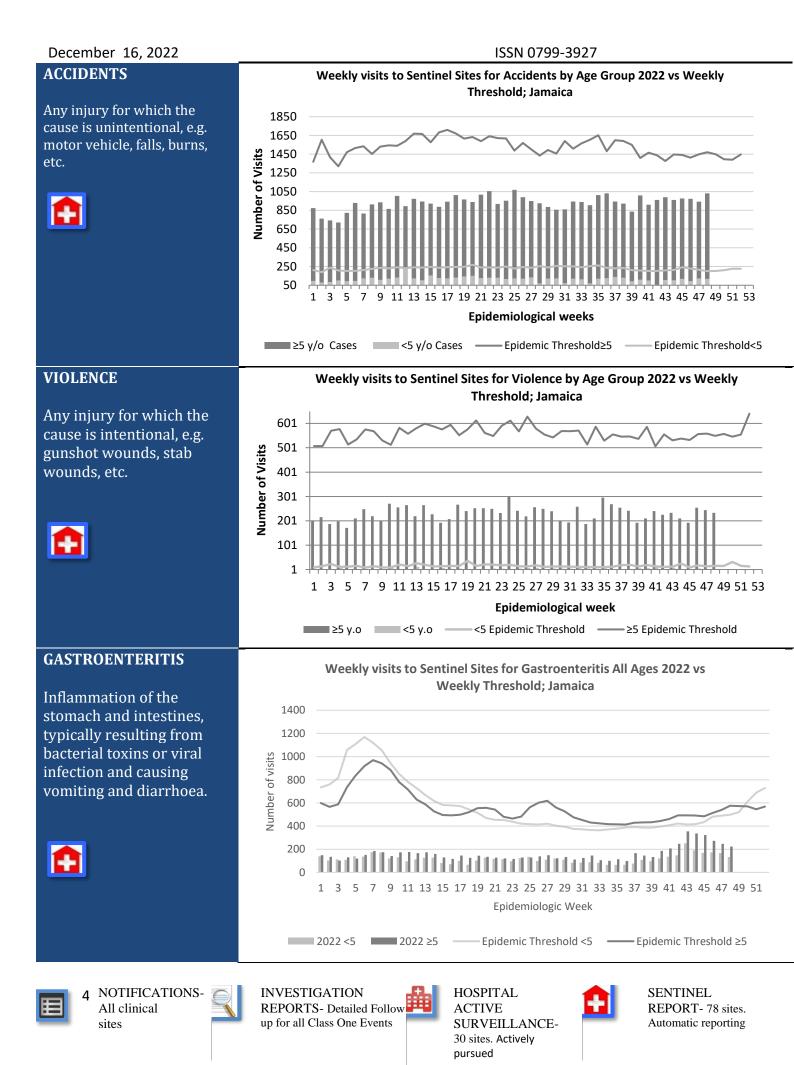
or without jaundice.

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



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- CLASS O	NE NOTIFI	ABLE EVENTS			Comments
			Confirm	ned YTD ^α	AFP Field Guides from
	CLASS 1 EVENTS			PREVIOUS YEAR 2021	WHO indicate that for an effective surveillance system, detection rates for
	Accidental P	oisoning	196 ^β	168 ^β	AFP should be 1/100,000
-J	Cholera		0	0	population under 15 years old (6 to 7) cases annually.
NATIONAL /INTERNATIONAL INTEREST	Dengue Hem	orrhagic Fever ⁹	See Dengue page below	See Dengue page below	
IAT	COVID-19 (3	SARS-CoV-2)	55508	78263	Pertussis-like syndrome and
L /INTERN INTEREST	Hansen's Dis	sease (Leprosy)	0	0	Tetanus are clinically confirmed classifications.
TER	Hepatitis B		8	6	
AL , IN	Hepatitis C		2	4	γ Dengue Hemorrhagic Fever
NOI	HIV/AIDS		NA	NA	data include Dengue related deaths;
VAT	Malaria (Imp	ported)	0	0	
4	Meningitis (0	Clinically confirmed)	18	34	⁸ Figures include all deaths associated with pregnancy
	Monkeypox		18	NA	reported for the period.
EXOTIC/ UNUSUAL	Plague		0	0	^ε CHIKV IgM positive cases
TY TY	Meningococo	cal Meningitis	0	0	
H IGH 0RBIDI7 0RTALI	Neonatal Tet	anus	0	0	^{θ} Zika PCR positive cases
H IGH Morbidity Mortality	Typhoid Feve	er	0	0	^β Updates made to prior weeks in 2020.
M(Meningitis H	/Flu	0	0	$^{\alpha}$ Figures are cumulative
	AFP/Polio		0	0	totals for all epidemiological
	Congenital R	ubella Syndrome	0	0	weeks year to date.
	Congenital S	yphilis	0	0	
MES	Fever and	Measles	0	0	
SPECIAL PROGRAMMES	Rash	Rubella	0	0	
SOG	Maternal Dea	aths ^δ	59	81	
L PR	Ophthalmia I	Neonatorum	48	40	
CIA	Pertussis-like	e syndrome	0	0	
SPE	Rheumatic F	ever	0	0	
	Tetanus		2	0	
	Tuberculosis		45	38	
	Yellow Fever		0	0	
	Chikungunya ⁸		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



December 16,	2022		ISSN 0799-3927					
			ID-19 Surveillance Update					
		Ma	rch 10, 2020 – EW 48 , 2022					
CASES	EW 48	Total	Classification of Confirmed COVID-19 Cases by Date of Onset of Symptoms, Jamaica (152,715 cases)					
Confirmed	52	152715						
Females	28	88104	2000 1500 1000 500 0 0 0 0 0 0 0 0 0 0 0 0					
Males	24	64608	0.0. 28-Jan-20 28-May-20 28-May-20 28-Nov-20 28-Nov-21 28-Jul-21 28-Jul-21 28-Jul-22 28-Jul-22 28-Jul-22 28-Nov-21 28-Nov-21 28-Nov-21 28-Nov-22 28-Nov-22 28-Nov-22 28-Nov-22 28-Nov-22 28-Nov-22					
Age Range	2 months – 92 years	1 day to 108 years	Date of Onset of Symptoms Contact of a Confirmed Case Import Related					
* 3 positive cases had no gender specification * PCR or Antigen tests are used to confirm cases			 Imported Local Transmission (Not Epi Linked) Under Investigation Workplace Cluster 					
OVID-19 Out	comes							
Outcomes	EW 48	Total	2898COVID-19 Related Deaths since March 1, 2021 – YTD					
ACTIVE *past 2 weeks*		107	Vaccination Status among COVID-19 Deaths					
DIED – COVID Related	0	3452	Fully Vaccinated					
Died - NON COVID	0	295	(66/2898) 2% (31/2898) 1%					
Died - Under Investigation	0	349						
Recovered and discharged	3	101964	Unvacccinated (2801/2898) 97%					
Repatriated	0	93						
Total		152715						
*Vaccination progra	amme March 2021 – Y	TD	Fully Vaccinated					
COVID-19 Par	ish Distributio	n and Global	Statistics					
<u>cov</u>	/ID-19 Virus Structure	2	COVID19 Cases by Parish					
SARS-CoV-2		Spike (S) Nucleocapsid (N) Membrane (M) Envelope (E) RNA viral genome	Spans Total Cases 4556 1783 6116 11223 0					
COVID-19 WH	O Global Statisticts E	W45-EW48	St.James Tablery St.Am EW 48 Cases Legend Parcer St.James 1 Tablery St.Am St.A					
Epi Week	Confirmed Cases	Deaths	2 5 2 12 3 13 Asy 1 1 2 3 13 Asy 1 2 9 Partshes					
45	2,533,370	8,071	Viormand Date Prepared: December 16, 2022					

Epi Week	Cases	Deatils
45	2,533,370	8,071
46	2,746,939	8533
47	3,010,501	7981
48	3,455,814	10,077
Total (4weeks)	11,746,624	34,662

6 NOTIFICATIONS-All clinical

sites

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INVESTIGATION REPORTS- Detailed Follow



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

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SENTINEL REPORT- 78 sites. Automatic reporting

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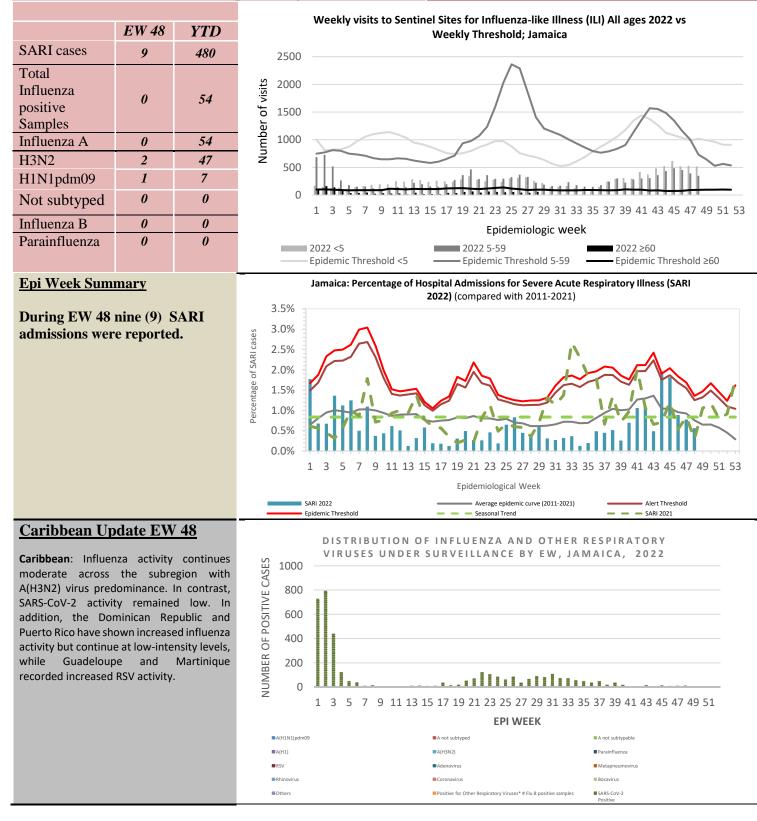
December 16, 2022

NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

ISSN 0799-3927

EW 48

November 27- December 3, 2022 Epidemiological Week 48



 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

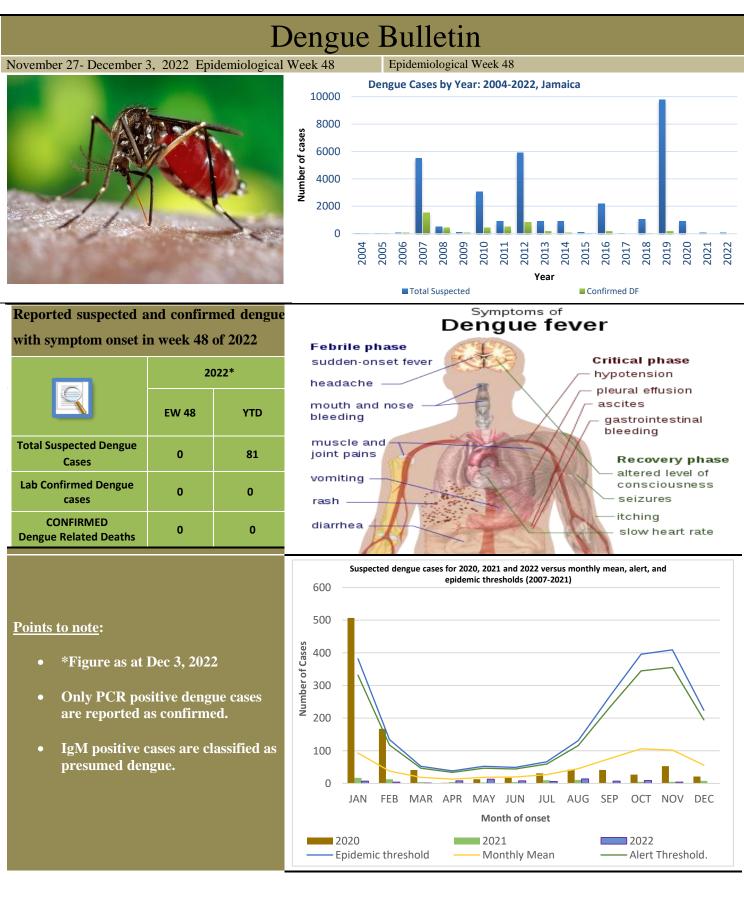


ACTIVE SURVEILLANCE-30 sites. Actively pursued

HOSPITAL



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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



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.

(Funded by Scientific Research Council)



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ONOTIFICATIONS All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

