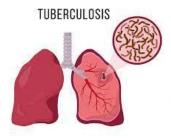
WEEKLY EPIDEMIOLOGY BULLETIN NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Weekly Spotlight

Tuberculosis



Tuberculosis (TB) is caused by bacteria(Mycobacterium tuberculosis) that most often affect the lungs. Tuberculosis is curable and preventable.TB is spread from person

to person through the air. When people with lung TB cough, sneeze or spit, they propel the TB germs into the air. A person needs to inhale only a few of these germs to become infected. When a person develops active TB disease, the symptoms (such as cough, fever, night sweats, or weight loss) may be mild for many months. This can lead to delays in seeking care, and results in transmission of the bacteria to others.

People with active TB can infect 5–15 other people through close contact over the course of a year. Without proper treatment, 45% of HIV-negative people with TB on average and nearly all HIV-positive people with TB will die.People infected with TB bacteria have a 5–10% lifetime risk of falling ill with TB. Those with compromised immune systems, such as people living with HIV, malnutrition or diabetes, or people who use tobacco, have a higher risk of falling ill.

Who is most at risk?

Tuberculosis mostly affects adults in their most productive years. However, all age groups are at risk. Over 80% of cases and deaths are in low- and middle-income countries.People who are infected with HIV are 18 times more likely to develop active TB (see TB and HIV section below). The risk of active TB is also greater in persons suffering from other conditions that impair the immune system. People with undernutrition are 3 times more at risk. Globally in 2021, there were 2.2 million new TB cases that were attributable to undernutrition.

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



Sentinel Surveillance in Iamaica



Table showcasing the **Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four** Most Recent Epidemiological Weeks -41 to 44 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 2022	Saint James	Hanover	Westmoreland	Saint Elizabeth	Manchester	Clarendon
41	On Time	On Time	On Time	On Time	Late (W)	On Time	On Time	On Time	On Time	On Time	On Time	On Time	Late (W)
42	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
43	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
44	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

Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica, Weekly Threshold vs Cases 2022

> 30 sites. Actively pursued

REPORTS FOR SYNDROMIC SURVEILLANCE

UNDIFFERENTIATED FEVER

Temperature of >38°C /100.4°F (or recent history of fever) obviou infecti

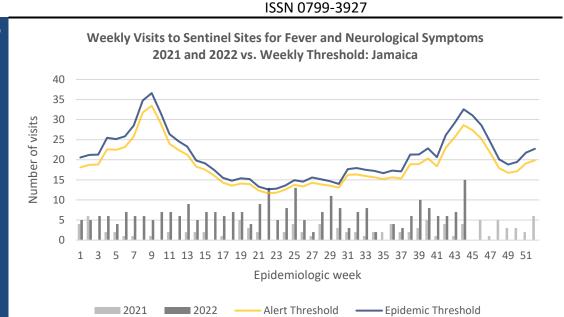
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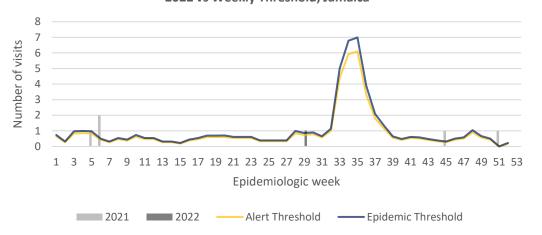
) with or without an ous diagnosis or focus of tion.	1200 1000 800 600 400 200 0 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 Epidemiologic week 2022 <5 2022≥5 Epidemic Threshold <5 Epidemic Threshold ≥5	
2 NOTIFICATIONS- All clinical sites	INVESTIGATION REPORTS- Detailed Follow up for all Class One Events HOSPITAL ACTIVE SURVEILLANCE- SURVEILLANCE- SURVEILLANCE-	-

FEVER AND NEUROLOGICAL

Temperature of >38°C /100.4^oF (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^o*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

All clinical sites

NOTIFICATIONS-

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

2021



2022

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting

Epidemic Threshold

2022 8 7 6 Number of visits 5 4 3 1 0 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 1 3 5 7 9

Epidemiologic Week

Alert Threshold

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



ACCIDENTS

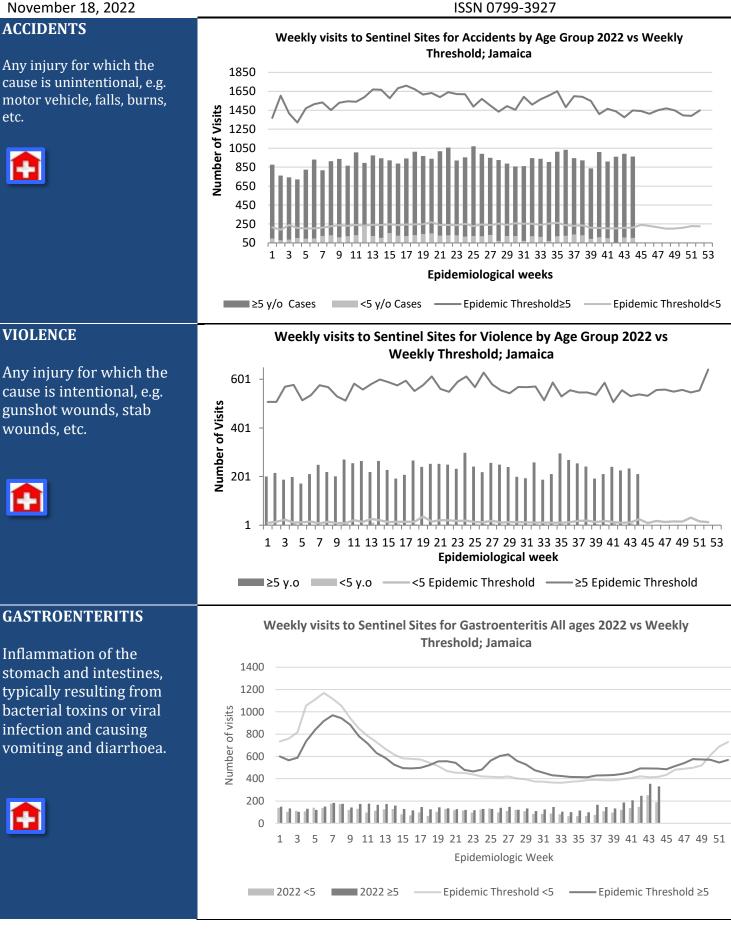
Any injury for which the cause is unintentional, e.g. motor vehicle, falls, burns, etc.



VIOLENCE

wounds, etc.

-



sites

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NOTIFICATIONS-All clinical



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



November 18	, 2022			ISSN 0799-3927	7		
- CLASS OI	NE NOTIFL	ABLE EVENTS	Comments				
			. Confirm	ned YTD ^a	AFP Field Guides from		
	CLASS 1 EV	VENTS	CURRENT YEAR 2022	PREVIOUS YEAR 2021	WHO indicate that for an effective surveillance system, detection rates for		
	Accidental Po	bisoning	196 ^β	152 ^β	AFP should be 1/100,000		
Ц	Cholera		0	0	population under 15 years old (6 to 7) cases annually.		
NATIONAL /INTERNATIONAL INTEREST	Dengue Heme	orrhagic Fever ⁷	See Dengue page below	See Dengue page below	old (0 to 7) cases annually.		
ATI	COVID-19 (S	SARS-CoV-2)	55304	76545	Pertussis-like syndrome and		
L /INTERN	Hansen's Dis	ease (Leprosy)	0	0	Tetanus are clinically confirmed classifications.		
TER	Hepatitis B		8	6			
	Hepatitis C		2	4	γ Dengue Hemorrhagic Fever		
ION	HIV/AIDS		NA	NA	data include Dengue related deaths;		
VAT	Malaria (Imp	oorted)	0	0			
4	Meningitis (C	Clinically confirmed)	17	34	⁸ Figures include all deaths associated with pregnancy		
	Monkeypox		16	NA	reported for the period.		
EXOTIC/ UNUSUAL	Plague		0	0	^ε CHIKV IgM positive cases		
XT YT	Meningococc	al Meningitis	0	0	$^{\theta}$ Zika PCR positive cases		
H IGH Morbidity, Mortality	Neonatal Teta	anus	0	0	^{β} Updates made to prior		
H1 ORB ORT	Typhoid Feve	er	0	0	weeks in 2020.		
MM	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.		
Ŋ	Congenital Sy	yphilis	0	0	-		
1ME	Fever and Rash	Measles	0	0			
SPECIAL PROGRAMMES	Kasii	Rubella	0	0			
SOG	Maternal Dea	ths ^δ	54	76			
T bl	Ophthalmia N	leonatorum	48	40			
GCIA	Pertussis-like	syndrome	0	0			
SPH	Rheumatic Fe	ever	0	0	-		
	Tetanus		0	0			
	Tuberculosis		34	37			
	Yellow Fever		0	0			





Chikungunya

Zika Virus^{θ}

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



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HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

0

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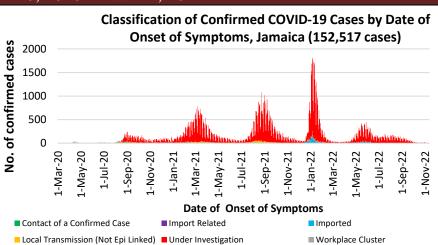


NA- Not Available

ISSN 0799-3927

COVID-19 Surveillance Update March 10, 2020 – EW 44, 2022

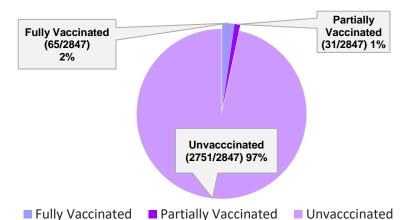
CASES	EW 44	Total			
Confirmed	92	152517			
Females	44	87998			
Males	48	64516			
Age Range	27 days old– 103 years	1 day to 108 years			
* 3 positive cases had no gender specification * PCR or Antigen tests are used to confirm cases					



COVID-19 Outcomes

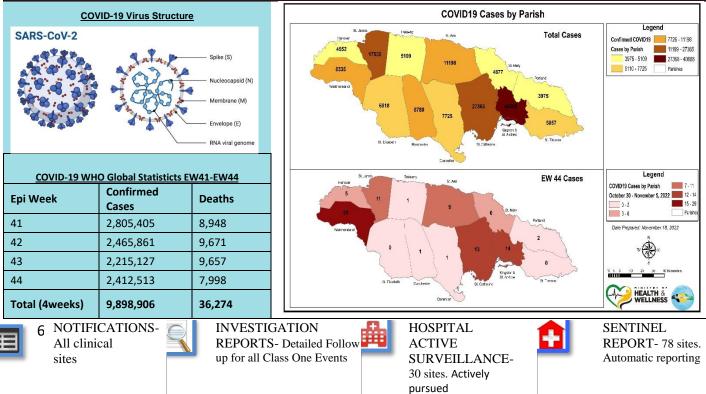
COVID-19 Outcomes					
Outcomes	EW 44	Total			
ACTIVE		123			
past 2 weeks DIED – COVID		3399			
Related	0				
Died - NON COVID	0	291			
Died - Under	1	293			
Investigation					
Recovered and discharged	33	101566			
Repatriated	0	93			
Total		152517			
Repatriated	0				

2847 COVID-19 Related Deaths since March 1, 2021 – YTD Vaccination Status among COVID-19 Deaths



*Vaccination programme March 2021 – YTD

COVID-19 Parish Distribution and Global Statistics



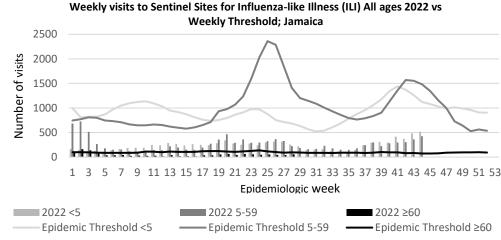
NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

ISSN 0799-3927

EW 44

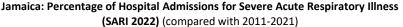
October 30 - Nov 5, 2022 Epidemiological Week 44

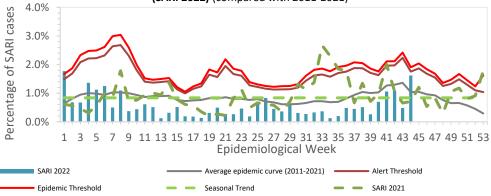
	EW 44	YTD
SARI cases	29	400
Total		
Influenza	0	27
positive	U	27
Samples		
Influenza A	1	27
H3N2	0	25
H1N1pdm09	1	2
Not subtyped	0	0
Influenza B	0	0
Parainfluenza	0	0



Epi Week Summary

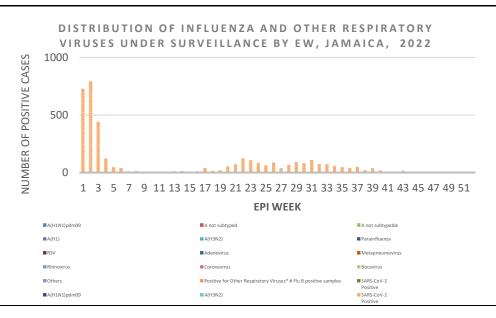
During EW 44 twenty-nine (29) SARI admissions were reported.





Caribbean Update EW 44

Caribbean : Influenza activity remained low across the subregion with A(H3N2) virus predominance. Influenza activity is increasing in Jamaica and Puerto Rico. The SARS-CoV-2 activity was raised in Dominica.





NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



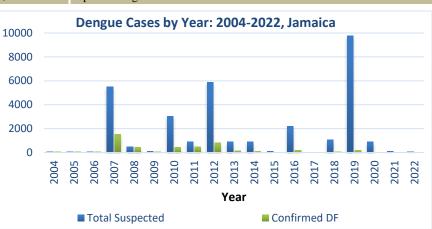
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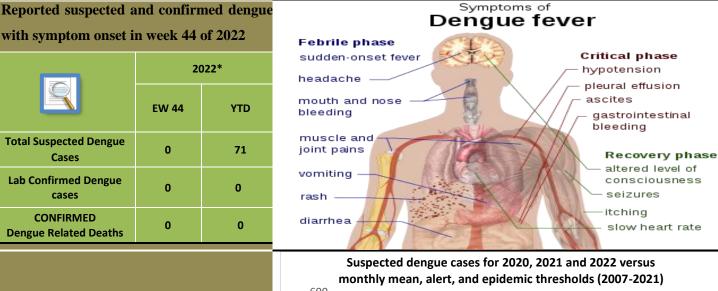
Dengue Bulletin

October 30- November 5, 2022 Epidemiological Week 44

Epidemiological Week 44

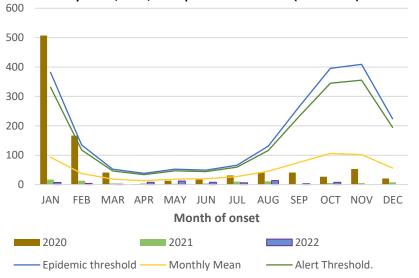






Points to note:

- *Figure as at Nov 5, 2022
- 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

Number of Cases



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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NOTIFICATIONS All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

