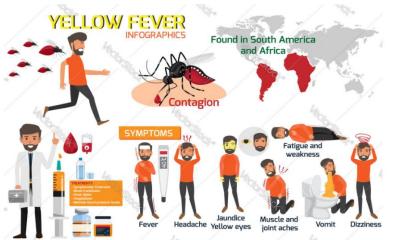
WEEKLY EPIDEMIOLOGY BULLETIN NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Yellow fever

Yellow fever is an acute viral haemorrhagic disease that is endemic in tropical areas of Africa and Latin America. Cases can be difficult to distinguish from other viral hemorrhagic fevers such as arenavirus, hantavirus or dengue.

Symptoms of yellow fever usually appear 3 to 6 days after the bite of an infected mosquito. In the initial phase, they include fever, muscle pain, headache, shivers, loss of appetite, and nausea or vomiting. For most patients, these symptoms disappear after 3 to 4 days. However, 15% of patients enter a second, more toxic phase within 24 hours of the initial remission. High fever returns, and several body systems are affected, including the kidneys. Half of patients who enter this toxic phase die within 10 to 14 days, while the rest recover without significant organ damage.

Treatment is symptomatic, aimed at reducing symptoms for the comfort of the patient. Vaccination is the most important preventive measure against yellow fever. The vaccine is safe, affordable and highly effective, providing effective immunity within 30 days for 99% of those vaccinated. A single dose is sufficient to confer sustained immunity and lifelong protection, with no need for a booster.

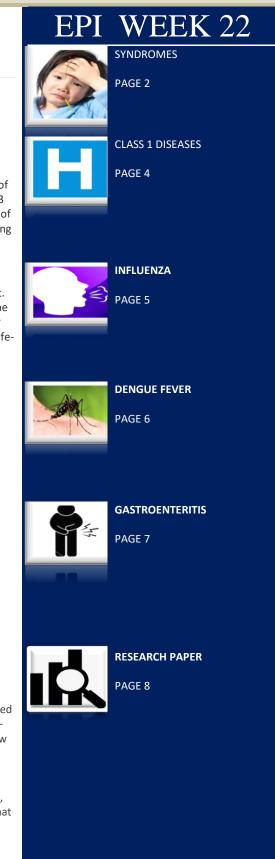




Forty seven countries in Africa (34) and Central and South America (13) are either endemic for, or have regions that are endemic for, yellow fever. A modelling study based on African data sources estimated the burden of yellow fever during 2013 was 84 000– 170 000 severe cases and 29 000–60 000 deaths.Occasionally travellers who visit yellow fever endemic countries may bring the disease to countries free from yellow fever. In order to prevent such importation of the disease, many countries require proof of vaccination against yellow fever before they will issue a visa, particularly if travellers come from, or have visited yellow fever endemic areas.In past centuries (17th to 19th), yellow fever was transported to North America and Europe, causing large outbreaks that disrupted economies, development and in some cases decimated populations.

https://www.paho.org/en/topics/yellow-fever

https://www.vectorstock.com/royalty-free-vector/yellow-fever-infographic-elementssymptoms-vector-26891791



Released June 12, 2020

SENTINEL SYNDROMIC SURVEILLANCE Sentinel Surveillance in





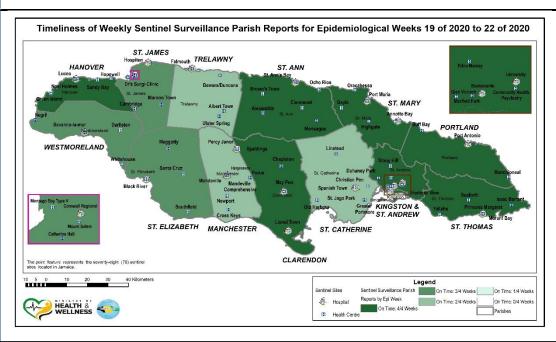


Parish health departments submit reports weekly by 3 p.m. on Tuesdays. **Reports submitted after 3** p.m. are considered late.

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.



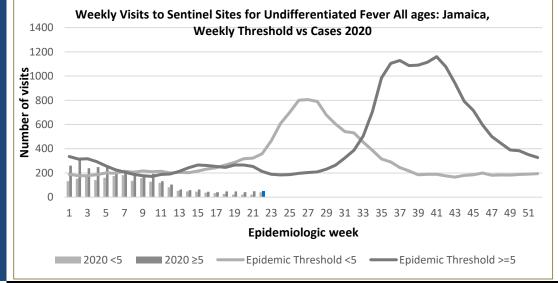
REPORTS FOR SYNDROMIC SURVEILLANCE

FEVER

Temperature of >38°C /100.4^oF (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



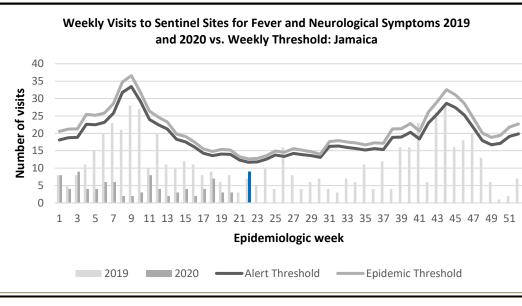
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



Released June 12, 2020

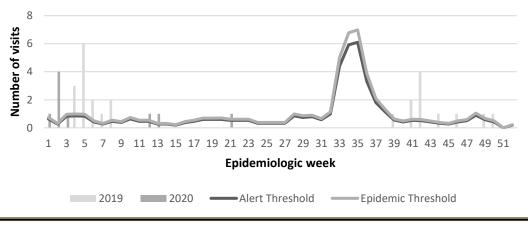
FEVER AND NEUROLOGICAL

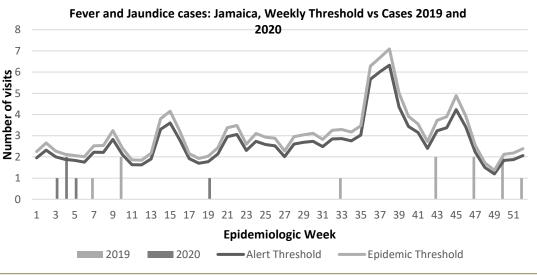
Temperature of >38°C /100.4^oF (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal irritation, convulsions, altered consciousness, altered sensory manifestations or paralysis (except AFP).



ISSN 0799-3927

Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2019 and 2020 vs Weekly Threshold; Jamaica







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.



All clinical sites



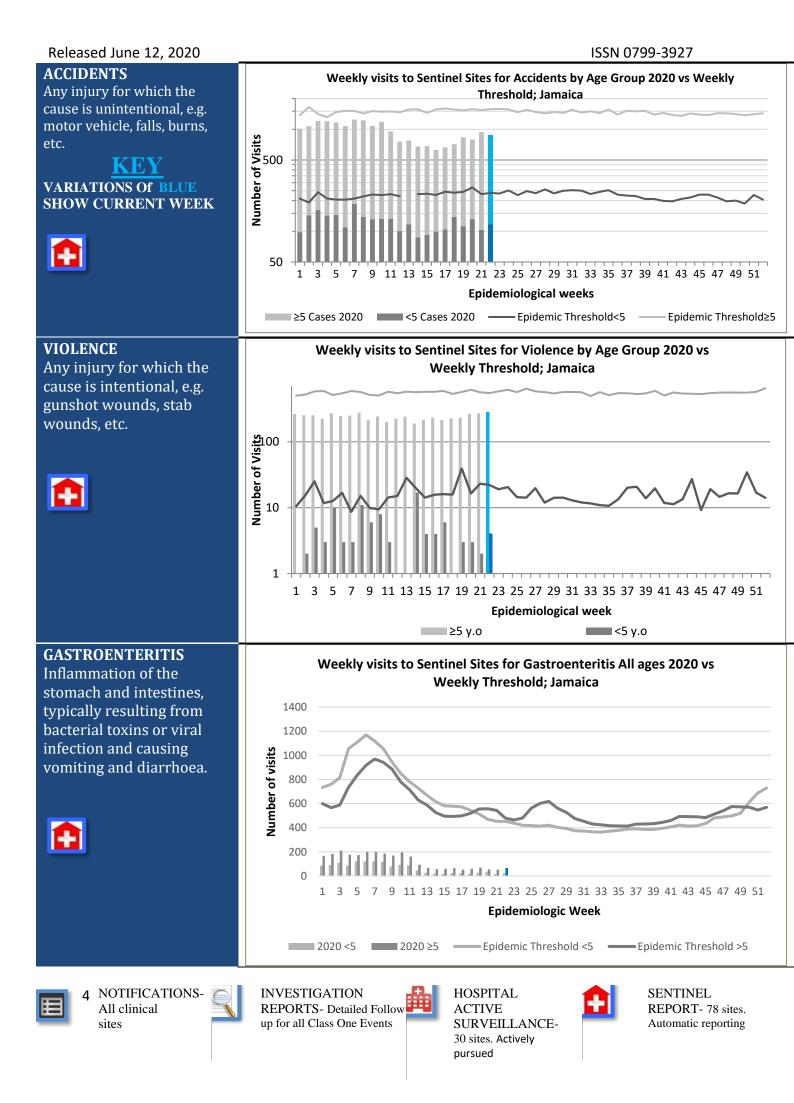


INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





ISSN 0799-3927

CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirmed YTD		AFP Field Guides
	CLASS 1 EVENTS		CURRENT YEAR 2020	PREVIOUS YEAR 2019	from WHO indicate that for an effective
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		5	18	surveillance system, detection rates for AFP should be 1/100,000 population under 15 years old (6 to 7) cases annually. Pertussis-like syndrome and Tetanus are clinically confirmed classifications.
	Cholera		0	0	
	Dengue Hemorrhagic Fever*		NA	NA	
	Hansen's Disease (Leprosy)		0	0	
	Hepatitis B		0	11	
	Hepatitis C		0	2	
	HIV/AIDS		NA	NA	
	Malaria (Imported)		0	0	
	Meningitis (Clinically confirmed)		1	5	
EXOTIC/ UNUSUAL	Plague		0	0	* Dengue Hemorrhagic Fever
H IGH MORBIDIT/ MORTALIY	Meningococcal Meningitis		0	0	data include Dengue related deaths; ** Figures include all deaths associated with pregnancy reported for the period. * 2019 YTD figure was updated. *** CHIKV IgM
	Neonatal Tetanus		0	0	
	Typhoid Fever		0	0	
	Meningitis H/Flu		0	0	
SPECIAL PROGRAMMES	AFP/Polio		0	0	
	Congenital Rubella Syndrome		0	0	
	Congenital Syphilis		0	0	
	Fever and Rash	Measles	0	0	positive cases
		Rubella	0	0	
	Maternal Deaths**		16	27	PCR positive cases
	Ophthalmia Neonatorum		23	95	-
	Pertussis-like syndrome		0	0	-
	Rheumatic Fever		0	0	
	Tetanus		0	0	-
	Tuberculosis		0	11	
	Yellow Fever		0	0	
	Chikungunya ^{***}		0	0	
	Zika Virus ^{****}		0	0	NA- Not Available



All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



Released June 12, 2020

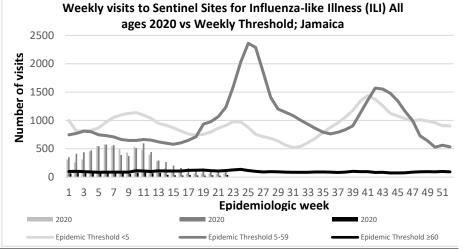
NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 22

ISSN 0799-3927

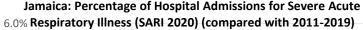
May 24 2020-May 30, 2020 Epidemiological Week 22

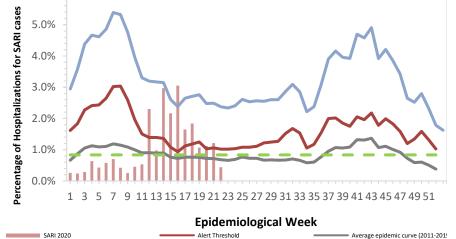
	EW 22	VTD
	<i>EW 22</i>	YTD
SARI cases	6	285
Total Influenza positive Samples	0	69
Influenza A	0	45
H3N2	0	4
H1N1pdm09	0	38
Not subtyped	0	3
Influenza B	0	24
Parainfluenza	0	0



Epi Week Summary

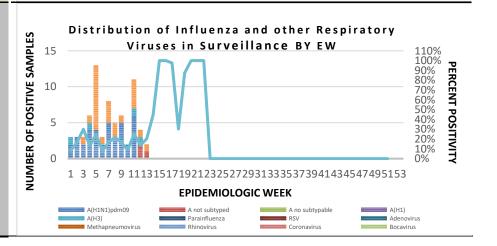
During EW 22, 6 (six) SARI admissions were reported.





Caribbean Update EW 22

Caribbean: Overall, influenza activity was elevated in the sub-region. In Cuba, influenza activity increased with influenza A and B viruses co-circulating. Influenza activity decreased in Belize with influenza A(H1N1)pdm09 and influenza B viruses co-circulating. All the French Territories are in the epidemic phase with a continued increase in influenza activity observed in Guadeloupe and Martinique. In Saint-Barthélémy influenza activity was stable. In the Dominican Republic, influenza activity slightly decreased with influenza A(H1N1)pdm09 predominance and influenza B/Yamagata cocirculating. In Saint Lucia, influenza-like illness was above the epidemic threshold with influenza A(H1N1)pdm09 virus circulating in recent weeks.



Epidemic Threshold



6 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

Seasonal Threshold



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

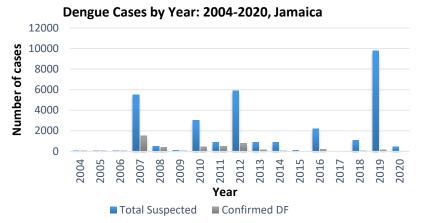


Dengue Bulletin

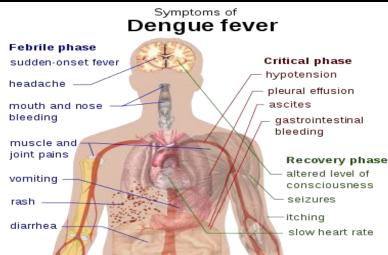
May 24, 2020-May 30, 2020 Epidemiological Week 22

Epidemiological Week 22

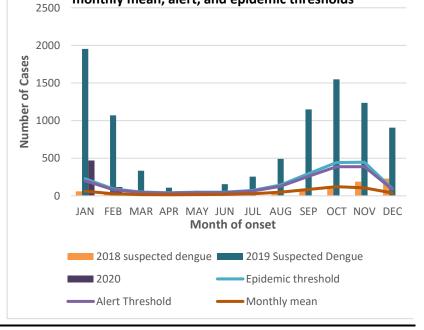




Reported suspected and confirmed dengue with symptom onset in week 22 of 2020 2020 EW YTD 22 **Total Suspected Dengue** 0** 633** Cases Lab Confirmed Dengue 0** 1** cases CONFIRMED 0** 1** **Dengue Related Deaths**



Suspected dengue cases for 2018 and 2019 versus monthly mean, alert, and epidemic thresholds



Points to note:

- ****** figure as at June 4 , 2020
- **Only PCR positive dengue cases** are reported as confirmed.
- IgM positive cases are classified as presumed dengue.



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)



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



3 NOTIFICATIONS All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

