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



Foodbourne Diseases

Foodborne and waterborne diarrhoeal diseases are a problem for every country in the world but they can be prevented. Diarrhoea is the acute, most common symptom of foodborne illness, but other serious consequences include kidney and liver failure, brain and neural disorders, reactive arthritis, cancer and death.

Diseases that people get from eating contaminated food are an

important cause of illness, disability and deaths around the world, as revealed by the first ever WHO Estimates of the Global Burden of Foodborne diseases published in December 2015. Foodborne diseasesespecially those caused by bacteria, viruses, parasites and fungi-are

preventable, and education in safe food handling is a key measure for prevention, including to contain antimicrobial resistance.

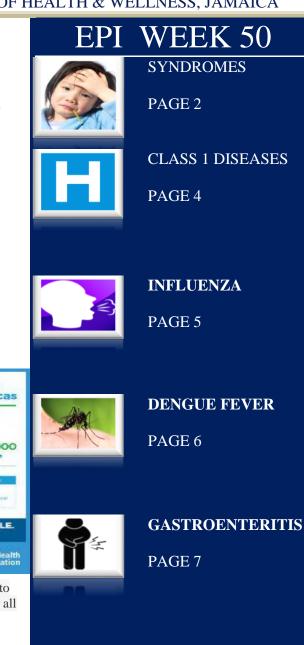
WHO built the Five Keys to Safer Food Programme to assist Member States in promoting safe food handling behaviors and educate all food handlers,



including consumers, with tools easy to adopt and adapt. The Five Keys to Safer Food explain the basic principles that each individual should know all over the world to prevent foodborne diseases. Over 130 countries have reported using the Five Keys to Safer Food. As a result, billions of food handlers, including consumers, are empowered to prevent foodborne diseases, make safe and informed choices and have a voice to push for a safer food supply.



https://www.who.int/foodsafety/areas work/foodborne-diseases/en/ https://www.who.int/foodsafety/areas work/food-hygiene/5keys/en/





RESEARCH PAPER PAGE 8

Released December 27, 2019

SENTINEL SYNDROMIC SURVEILLANCE



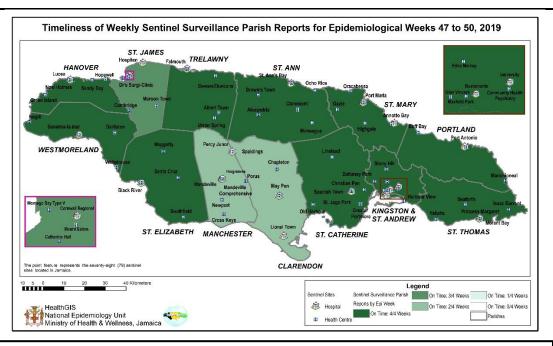


Map representing the Timeliness of Weekly Sentinel Surveillance Parish Reports for the Four Most Recent Epidemiological Weeks -Weeks 47 to 50

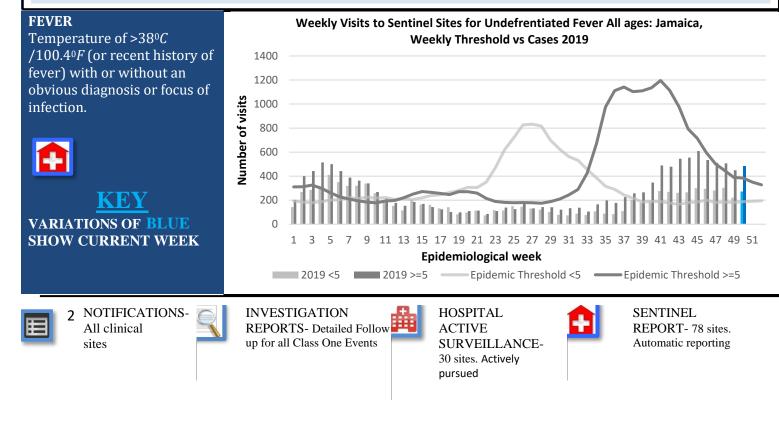
Parish health departments submit reports weekly by 3 p.m. on Tuesdays. Reports submitted after 3 p.m. are considered late. A syndromic surveillance system is good for early detection of and response to public health events.

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



Released December 27, 2019

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 $>38^{\circ}C$ /100.4°*F* (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice. Visits for Fever and Haemorrhagic symptoms were reported in weeks 4 to 8, 39,41,42, 44, 46 and 49 year to date.



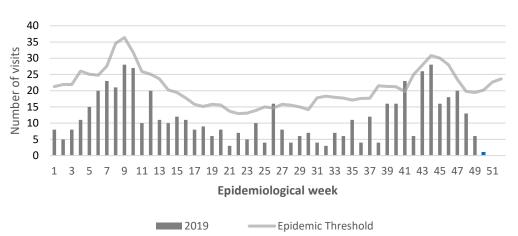
FEVER AND JAUNDICE

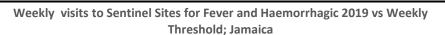
Temperature of $> 38^{\circ}C / 100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

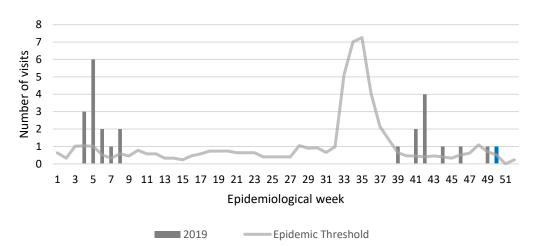
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations. Visits to sentinel sites for Fever and Jaundice were reported in weeks 7, 10, 33, 43 and 47 only, year to date.

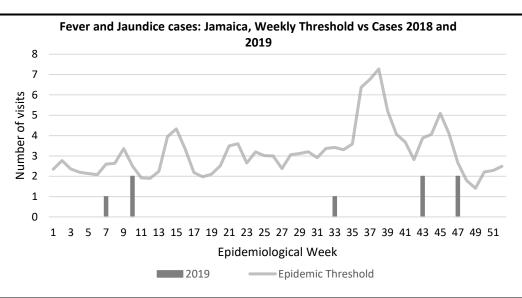


Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2019 vs. Weekly Threshold: Jamaica









Ħ

NOTIFICATIONS-All clinical sites

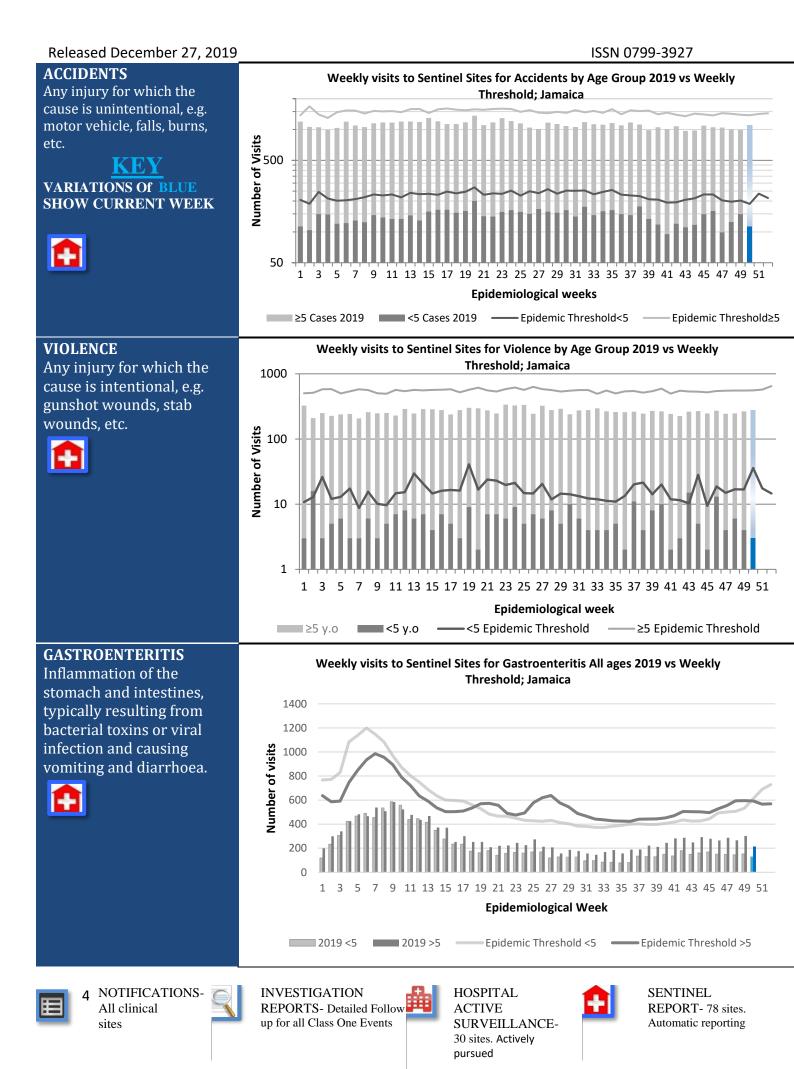


INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





ISSN 0799-3927

CLASS ONE NOTIFIABLE EVENTS

Comments

			Confirmed YTD		AFP Field Guides	
	CLASS 1 EV	VENTS	CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective surveillance system,	
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		106	184	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		24	90		
	Hepatitis C		2	9		
	HIV/AIDS		NA	NA		
	Malaria (Imported)		1	6		
	Meningitis (Clinically confirmed)		23	37		
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. *** CHIKV IgM positive	
	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	cases S	
		Rubella	0	0		
	Maternal Deaths ^{**}		60	61	PCR positive cases	
	Ophthalmia Neonatorum		222	290		
	Pertussis-like syndrome		0	0		
	Rheumatic Fever		0	0		
	Tetanus		0	0	-	
	Tuberculosis		64	73		
	Yellow Fever		0	0		
	Chikungunya ^{***}		7	10		
	Zika Virus ^{****}		0	1	NA- Not Available	



5 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



Released December 27, 2019

December 8– December 14, 2019

NATIONAL SURVEILLANCE UNIT **INFLUENZA REPOR**

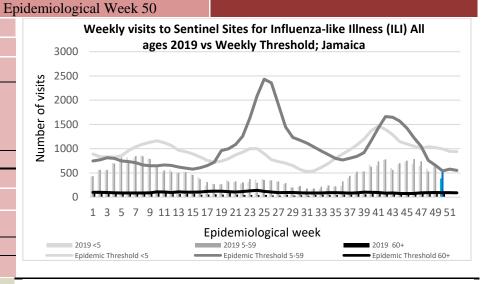
ISSN 0799-3927

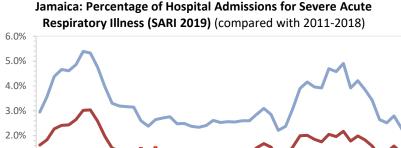
EW 50

EW 50 **YTD SARI** cases 10 515 **Total** Influenza 5 477 positive Samples 433 Influenza A 4 H3N2 0 189 H1N1pdm09 0 228 4 13 Not subtyped Influenza B 1 44 7 Parainfluenza 0

Epi Week Summary

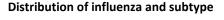
During EW 50, 10 (ten) SARI admissions were reported.





Caribbean Update EW 49

influenza activity increased in some countries of the sub-region. In Cuba, influenza activity continues to increase with the prevalence of influenza B; IRAG cases increased, but remained below the levels observed in previous seasons during the same period. Influenza activity remains high in Jamaica with the prevalence of influenza A (H3N2) and the concurrent circulation of influenza A (H1N1) virus pdm09; IRAG cases were at low levels

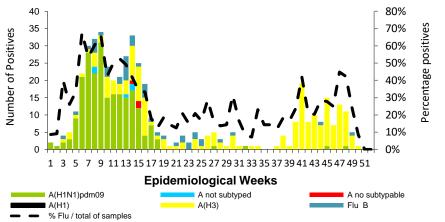


Epidemiological Week

9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51

Alert Threshold

Seasonal Threshold



sites

NOTIFICATIONS-All clinical

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

Percentage of SARI cases

1.0% 0.0%

> 1 3 5 7

> > SARI 2019

Average epidemic curve (2011-2017) Epidemic Threshold



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



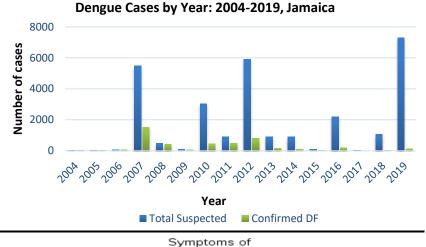


Dengue Bulletin

December 8– December 14, 2019 Epidemiological Week 50

Epidemiological Week 50



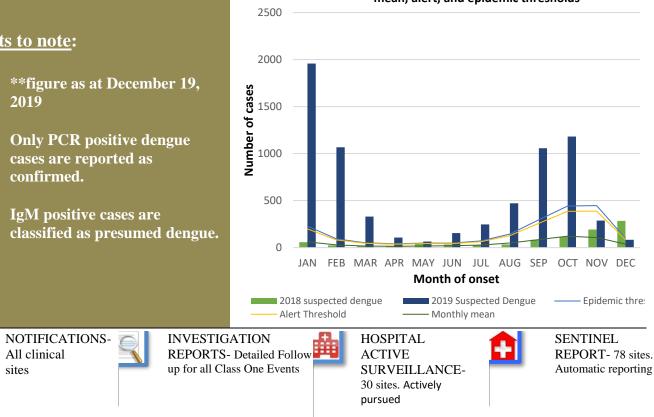


Reported suspected and confirmed dengue with symptom onset in weeks 1-50 2019

	2019		2018	
	EW 50	YTD	YTD	
Total Suspected Dengue Cases	0	7291	710	
Lab Confirmed Dengue cases	1	125	16	
CONFIRMED Dengue Related Deaths	0	15	4	

Dengue fever Febrile phase Critical phase sudden-onset fever 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

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



Points to note:

7

All clinical

sites

- **figure as at December 19, 2019
- **Only PCR positive dengue** cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.

RESEARCH PAPER

ABSTRACT

Title: "Anthropometry and food frequency in chronic non-communicable disease: associations in a clinic population"

Authors: S. Robinson, S. Dawson E-mail address: stephenrobinson29@yahoo.com

Objective:

To investigate the relation of body mass index (BMI) and waist circumference (WC) to frequency of consumption of commonly consumed foods, in patients enrolled at a Type V Health Centre in Kingston.

Method:

Twenty -four adult patients (22 females) attending the CNCD Clinic were conveniently selected for the study, with a cross-sectional analysis being conducted on these patients. Participants were selected if they were diagnosed with at least one CNCD. Their weights, heights, and waist circumferences were measured and data on the frequency of consumption of selected foods acquired utilizing an administered questionnaire. The main outcome measure was a correlation between anthropometry and food frequency.

Results:

Of the 24 subjects, 23 had a BMI >25.0 with 22 having a waist circumference exceeding the recommended limit (Females= 89 cm and Males = 101 cm). Mean BMI was 34.3 ± 7.4 with mean WC being 104.9 ± 17.7 cm.

Neither BMI nor WC was significantly associated with frequency of consumption of any food item from the different Food Groups, but positive correlations were identified between BMI and age (p<0.0001), and BMI and WC (p=0.00051).

Conclusion:

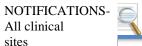
No statistically significant associations were found between BMI, Waist Circumference and food frequency in this population. A follow-up study (larger sample size, other food intake measures) is recommended to demystify whatever link may exist between anthropometry and food intake. Alongside BMI measurements, WC could be used routinely in the nutritional assessment of CNCD patients at Health facilities.



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



All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

