WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Foodbourne Diseases



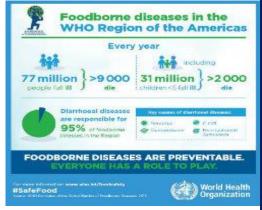
Foodborne and waterborne diarrhoeal diseases are a problem for every country in the world but they can be prevented. Diarrhoea is the acute, most common symptom of foodborne illness, but other serious consequences include kidney and liver failure, brain and neural disorders, reactive arthritis, cancer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

EPI WEEK 50



SYNDROMES

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CLASS 1 DISEASES

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INFLUENZA

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DENGUE FEVER

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GASTROENTERITIS

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SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Iamaica



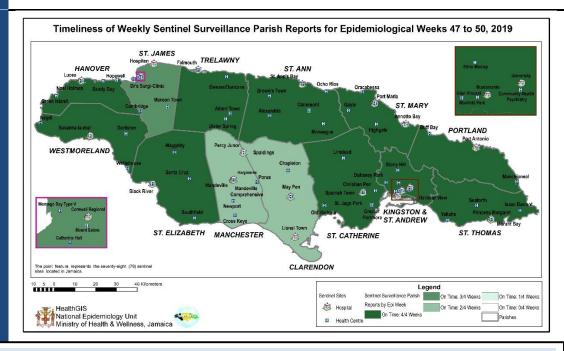
A syndromic surveillance system is good for early detection of and response to public health events.

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.

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.



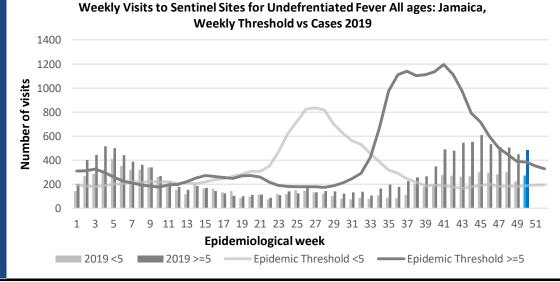
REPORTS FOR SYNDROMIC SURVEILLANCE

FEVER

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



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).



vs. Weekly Threshold: Jamaica 40 35 Number of visits 30 25 20 15 10 5 27 29 31 33 35 37 39 41 43 45 47 49 51 **Epidemiological week** 2019 - Epidemic Threshold

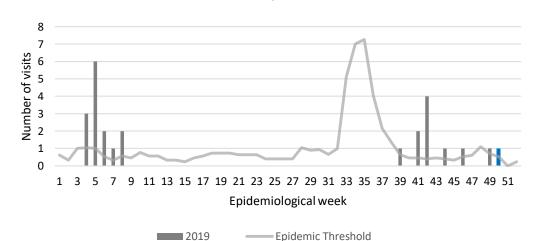
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2019

FEVER AND HAEMORRHAGIC

Temperature of >38°C /100.40F (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.



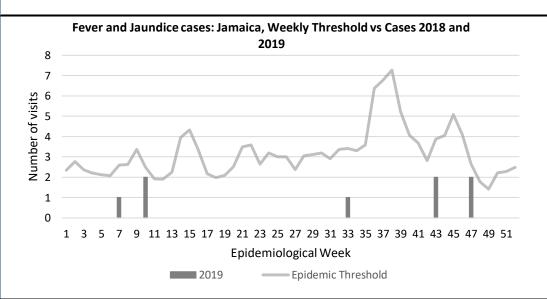
Weekly visits to Sentinel Sites for Fever and Haemorrhagic 2019 vs Weekly Threshold; Jamaica



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.





NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



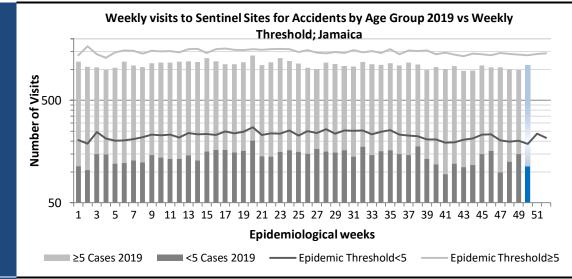
ACCIDENTS

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

KEY

VARIATIONS OF BLUE SHOW CURRENT WEEK

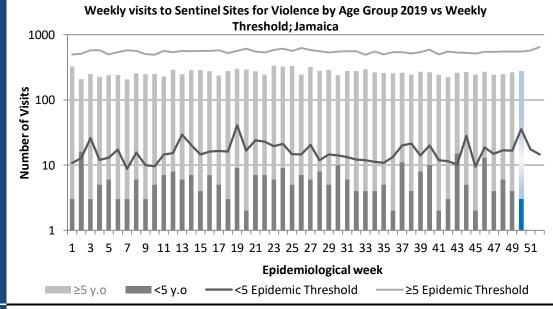




VIOLENCE

Any injury for which the cause is intentional, e.g. gunshot wounds, stab wounds, etc.





GASTROENTERITIS
Inflammation of the stomach and intestines, typically resulting from bacterial toxins or viral infection and causing vomiting and diarrhoea.



Weekly visits to Sentinel Sites for Gastroenteritis All ages 2019 vs Weekly Threshold; Jamaica 1400 1200 **Number of visits** 1000 800 600 400 200 0 11 13 15 17 19 **Epidemiological Week** 2019 < 5 2019 >5 Epidemic Threshold <5 Epidemic Threshold >5



4 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



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
	Cholera		0	0	AFP should be 1/100,000 population under 15 years old (6 to 7) cases annually.
	Dengue Hemorrhagic Fever*		NA	NA	
	Hansen's Disease (Leprosy)		0	0	
	Hepatitis B		24	90	
	Hepatitis C		2	9	Pertussis-like syndrome and Tetanus are clinically confirmed classifications.
	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.
	Neonatal Tetanus		0	0	
	Typhoid Fever		0	0	
	Meningitis H/Flu		0	0	
	AFP/Polio		0	0	
	Congenital Rubella Syndrome		0	0	Î
Ñ	Congenital Syphilis		0	0	*** CHIKV IgM positive
SPECIAL PROGRAMMES	Fever and Rash	Measles	0	0	cases **** Zika
		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







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

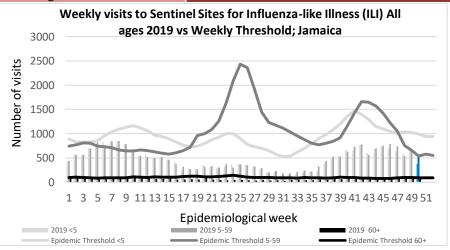


NATIONAL SURVEILLANCE UNIT INFLUENZA REPOR

EW 50

December 8- December 14, 2019 Epidemiological Week 50

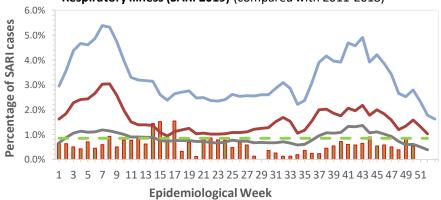
	EW 50	YTD
SARI cases	10	515
Total		
Influenza	5	477
positive		.,,
Samples		
Influenza A	4	433
H3N2	0	189
H1N1pdm09	0	228
Not subtyped	4	13
Influenza B	1	44
Parainfluenza	0	7



Epi Week Summary

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

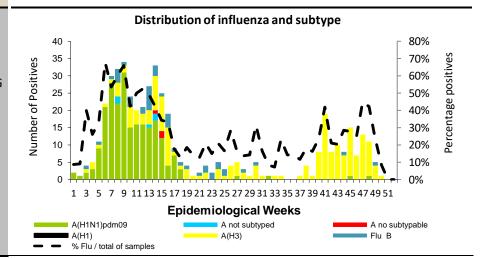
Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2019) (compared with 2011-2018)



SARI 2019
Average epidemic curve (2011-2017)
Epidemic Threshold
Epidemic Threshold

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





6 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

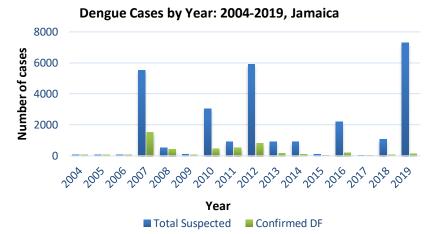


Dengue Bulletin

December 8– December 14, 2019 Epidemiological Week 50

Epidemiological Week 50



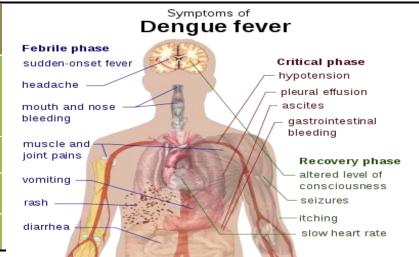


with symptom onset in weeks 1-50 2019						
	2019		2010			
	EW 50	YTD	2018 YTD			
Total Suspected Dengue Cases	0	7291	710			
Lab Confirmed Dengue cases	1	193	16			

15

4

Reported suspected and confirmed dengue



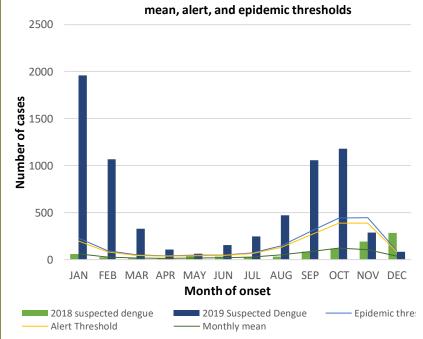
Suspected dengue cases for 2018 and 2019 versus monthly

Points to note:

CONFIRMED

Dengue Related Deaths

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





7 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



RESEARCH PAPER

ABSTRACT

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

Authors: S. Robinson, S. Dawson

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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.



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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

