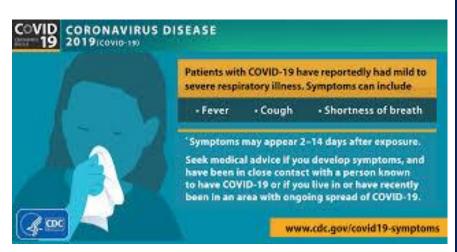
WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA

Coronaviruses

Coronaviruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV). Coronavirus disease (COVID-19) is a new strain that was discovered in 2019 and has not been previously identified in humans. Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS-CoV was transmitted from civet cats to humans and MERS-CoV from dromedary camels to humans. Several known coronaviruses are circulating in animals that have not yet infected humans. Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death. Standard recommendations to prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.







SENTINEL SYNDROMIC SURVEILLANCE

Sentinel Surveillance in Jamaica



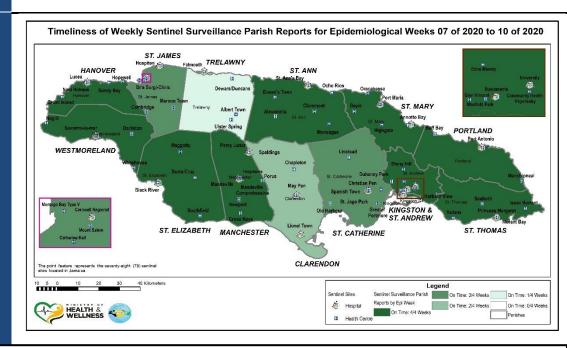
A syndromic surveillance system is good for early detection of and response to public health events.

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 - 7 to 10 of 2020

Parish health departments submit reports weekly by 3 p.m. on Tuesdays. Reports submitted after 3 p.m. are considered <u>late</u>.



REPORTS FOR SYNDROMIC SURVEILLANCE

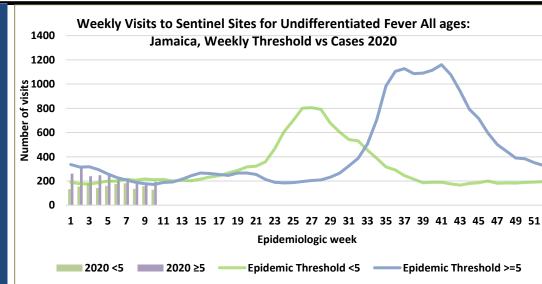
FEVER

Temperature of $>38^{\circ}C$ /100.4°*F* (or recent history of fever) with or without an obvious diagnosis or focus of infection.



<u>KEY</u>

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).



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.



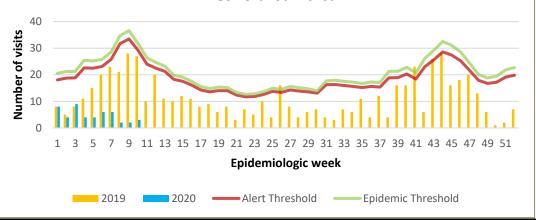
FEVER AND JAUNDICE

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

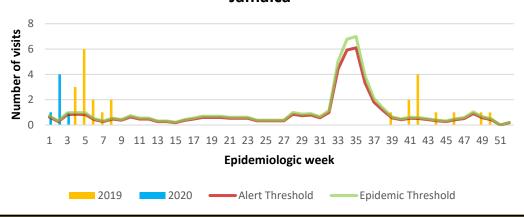
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



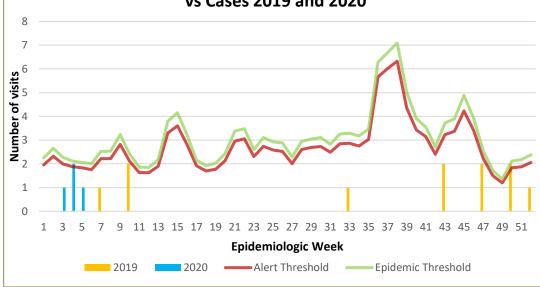
Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2019 and 2020 vs. Weekly Threshold: Jamaica



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



Fever and Jaundice cases: Jamaica, Weekly Threshold vs Cases 2019 and 2020





3 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



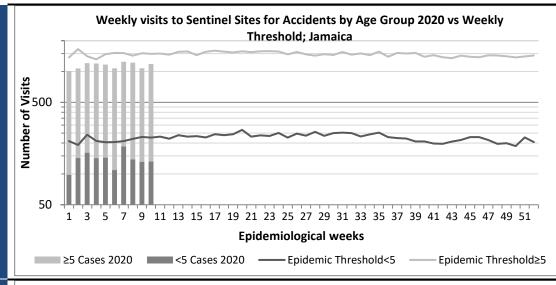
ACCIDENTS

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

KEY

VARIATIONS OF BLUE SHOW CURRENT WEEK



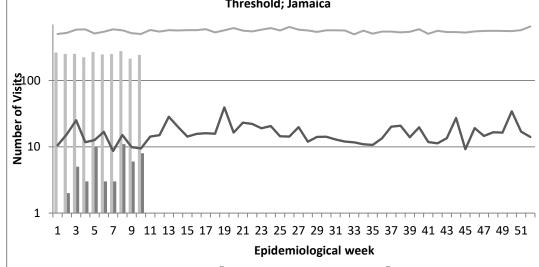


VIOLENCE

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



Weekly visits to Sentinel Sites for Violence by Age Group 2020 vs Weekly Threshold; Jamaica



≥5 y.o

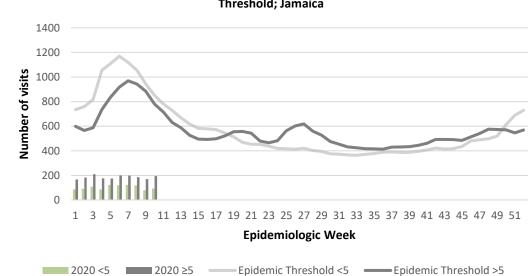
<5 y.o

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 2020 vs Weekly Threshold; Jamaica





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	/ENTS	CURRENT YEAR 2020	PREVIOUS YEAR 2019	from WHO indicate that for an effective	
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		5	5	surveillance system, detection rates for AFP should be 1/100,000	
	Cholera		0	0		
	Dengue Hemorrhagic Fever*		NA	NA	population under 15	
	Hansen's Disease (Leprosy)		0	0	years old (6 to 7) cases annually.	
	Hepatitis B		0	1		
	Hepatitis C		0	1	Pertussis-like	
	HIV/AIDS		NA	NA	syndrome and Tetanus are clinically confirmed classifications.	
	Malaria (Imported)		0	0		
	Meningitis (Clinically confirmed)		1	1		
EXOTIC/ UNUSUAL	Plague		0	0	* Dengue Hemorrhagic Fever	
H IGH MORBIDIT/ MORTALIY	Meningococcal Meningitis		0	0	data include Dengue related deaths;	
	Neonatal Tetanus		0	0		
	Typhoid Fever		0	0	** Figures include	
	Meningitis H/Flu		0	0	all deaths associated with pregnancy	
SPECIAL PROGRAMMES	AFP/Polio		0	0	reported for the	
	Congenital Rubella Syndrome		0	0	period. * 2019 YTD figure was updated.	
	Congenital S	yphilis	0	0	*** CHIKV IgM	
	Fever and	Measles	0	0	positive	
	Rash	Rubella	0	0	cases **** Zika	
	Maternal Deaths**		10	10	PCR positive cases	
	Ophthalmia Neonatorum		12	53		
	Pertussis-like syndrome		0	0		
	Rheumatic Fever		0	0		
	Tetanus		0	0		
	Tuberculosis		0	5		
	Yellow Fever		0	0		
	Chikungunya***		0	0		
	Zika Virus****		0	0	NA- Not Available	







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

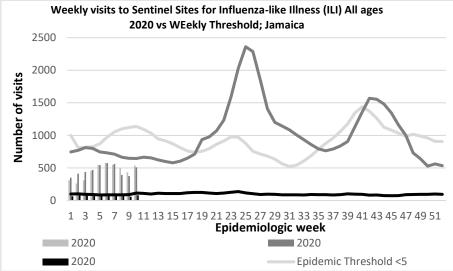


NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

EW 10

March 01, 2020–March 07, 2020 Epidemiological Week 10

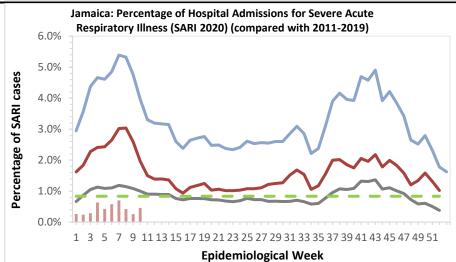
	EW 10	YTD
SARI cases	6	70
Total Influenza positive Samples	2	52
Influenza A	2	34
H3N2	0	1
H1N1pdm09	2	32
Not subtyped	0	0
Influenza B	0	18
Parainfluenza	0	0



Epi Week Summary

During EW 10, 6 (six) SARI admissions were reported.

11.1% positivity for EW 10



Caribbean Update EW 10

Overall, influenza activity was elevated in the subregion. 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 co-circulating. In Saint Lucia, influenza-like illness was above the epidemic threshold with influenza A(H1N1)pdm09 virus circulating in recent weeks.







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



SARI 2020

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



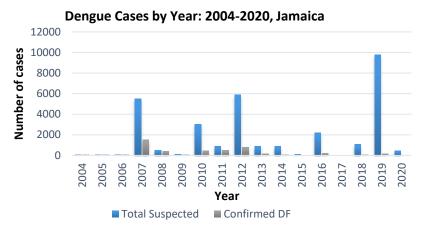
Alert Threshold

Dengue Bulletin

March 1, 2020-March 7, 2020 Epidemiological Week 10



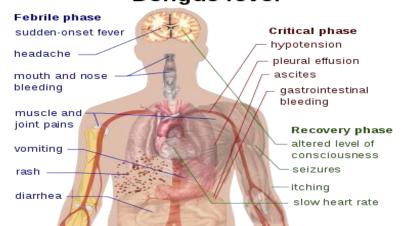
Epidemiological Week 10



Reported suspected and confirmed dengue with symptom onset in week 10 of 2020

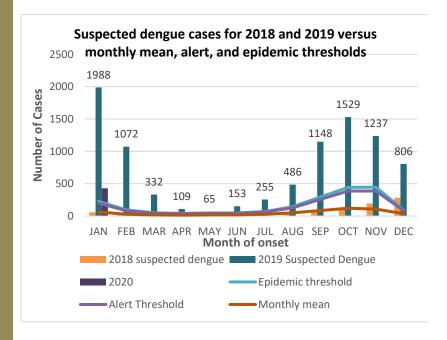
	2020		
	EW 10	YTD	
Total Suspected Dengue Cases	4**	530**	
Lab Confirmed Dengue cases	0**	1**	
CONFIRMED Dengue Related Deaths	0**	1**	

Symptoms of Dengue fever



Points to note:

- ** figure as at March 13, 2020
- 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

Using the Beck Depression Inventory to Identify Depressive Symptoms in Jamaican Youths

Ms. Denise Simpson – Citizen Security and Justice Programme, Ministry of National Security (dendenson@gmail.com)

Mr. Kenneth Barnes - Citizen Security and Justice Programme, Ministry of National Security

Objectives:

This study examined the prevalence of depressive symptoms in youths and seeks to find the symptoms that tend to occur most frequently within this sample. The assessments were done at a treatment site within the Central Region of the Citizen, Security and Justice Program (CSJP) under the Ministry of National Security (MNS).

Methods:

Participants ages 18 to 30 years completed the Beck Depression Inventory II (BDI-II; Beck, Steer, & Brown, 1996), over the period January 2017 to December 2018. Other measures of socio-demographic background were also collected. Data gathered from the 21 categories of the BDI-II instrument were then entered into SPSS for analysis.

Results:

A wide cross-section of at risk youths from four (4) parishes in rural Jamaica were sampled (n=154; 61% male, 39% females; mean age =22.7. An analysis of the data showed that approximately seven in every ten participant (71.4%) reported some symptoms of depression with 16.9% reporting mild symptoms; 22.7% reporting moderate symptoms and 31.8% reporting severe symptoms of depression. Symptoms that were most prevalent in this sample included sadness (73.9%); punishment feelings (70.7%); and guilty feelings (67.5%)

Results also show that there were significant differences in gender in their prevalence of depressive symptoms. Females were more likely to report depressive symptoms than males (p=.004). Additionally, the analysis revealed significant differences in educational levels for depressive symptoms. Participants who reported having primary/all age as the highest level of education were more likely to report depressive symptoms than those who reported having secondary/high school education (p=.024).

Conclusion:

The use of the Beck Depression Inventory II (BDI-II) to assess depressive symptoms in youths in Jamaica is an effective way to identify prevalent symptoms that impact mental health for that population. Gender differences in depression scores are consistent with studies in other countries (Lowe, 2005). In comparison to previous studies (Beck 1967) this sample had a higher percentage of youths scoring in the "none to minimal" depressive and severely depressed ranges.

These findings warrant closer examination of the contributing factors of depression among Jamaican youths. This information should be useful for practitioners working with similar populations.



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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

