**WEEK 35** 

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

# What to do in a storm



A storm is a rotating, organized system of clouds and thunderstorms that originates over tropical or subtropical waters and has a closed low-level circulation that rotate counterclockwise in the Northern Hemisphere and its classify in 4 different categories:

1. Tropical depression is defined as a tropical cyclone with rinds of 38 mph

- maximum sustained winds of 38 mph.
- 2. Tropical Storm is a tropical cyclone with maximum sustained winds of 39 to 73 mph.
- 3. Hurricane is a tropical cyclone with maximum sustained winds of 74 mph.
- 4. Major Hurricane is a tropical cyclone with maximum sustained winds of 111 mph or higher, corresponding to a Category 3, 4 or 5 on the Saffir-Simpson Hurricane Wind Scale.

The number of people affected by destructive winds and heavy rains from hurricanes is growing. Hurricanes cause the destruction and collapse of infrastructure, with adverse effects on health in the form of injury, trauma, and drowning. House damages generates loss of critical services (water, power) and population displacement to shelter can be prolonged for a long period of time. They also have an impact in the mental health of the affected population, and a have a huge effect on health services, causing an increased risk of vector and waterborne diseases.

Due to the vulnerability of the exposed populations, some extreme phenomena such as prolonged rains, can trigger



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SYNDROMES

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EPI



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INFLUENZA

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## Released September 13, 2019

# SENTINEL SYNDROMIC SURVEILLANCE



ETI

**Parish Reports for the Four** 

**Epidemiological Weeks -**

**Parish health departments** submit reports weekly by 3 p.m. on Tuesdays.

**Reports submitted after 3** 

p.m. are considered late.

Map representing the

**Timeliness of Weekly Sentinel Surveillance** 

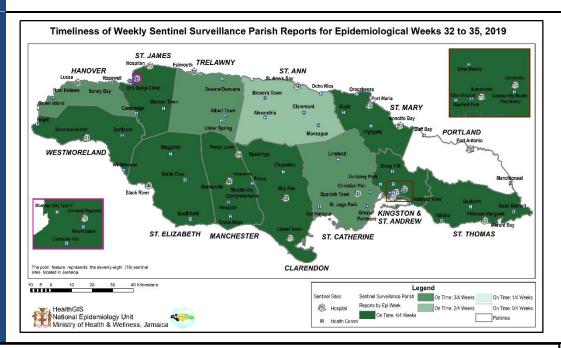
**Most Recent** 

Weeks 32 to 35

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.

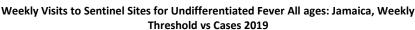
> A syndromic surveillance system is good for early detection of and response to

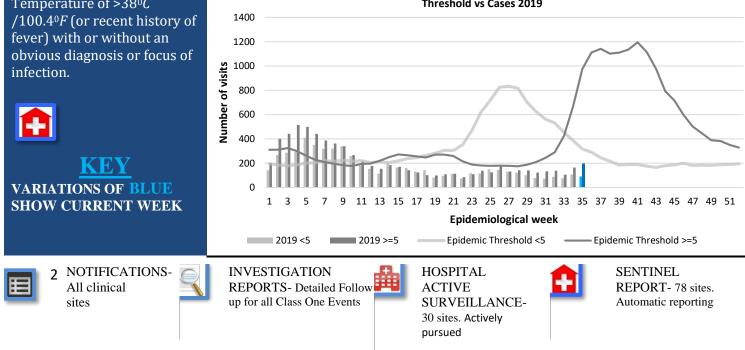


## REPORTS FOR SYNDROMIC SURVEILLANCE

### **FEVER**

Temperature of >38°C



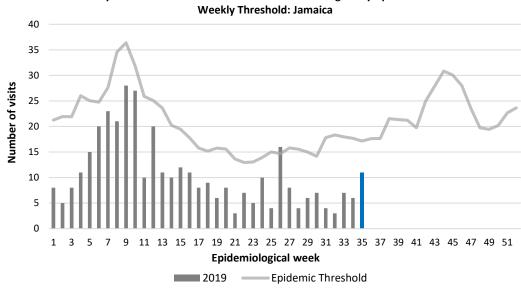


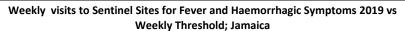
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## **FEVER AND NEUROLOGICAL**

Temperature of >38°C /100.4<sup>o</sup>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

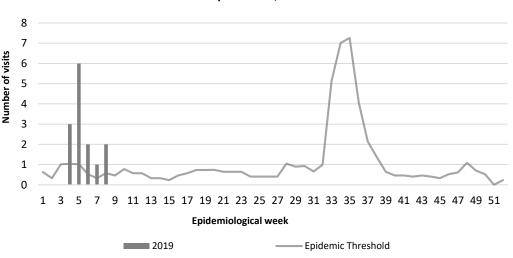
Temperature of  $>38^{\circ}C$ /100.4<sup>o</sup>*F* (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice. Visits for Fever and Haemorrhagic symptoms were reported in weeks 4 to 8 only, year to date.



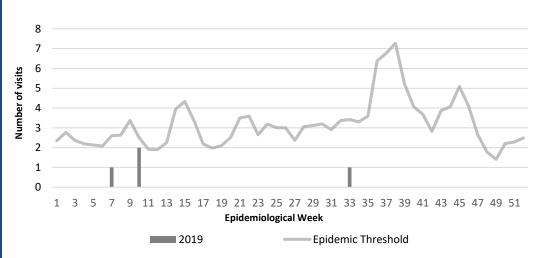
### **FEVER AND JAUNDICE**

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 and 10 only, year to date.







NOTIFICATIONS-All clinical sites



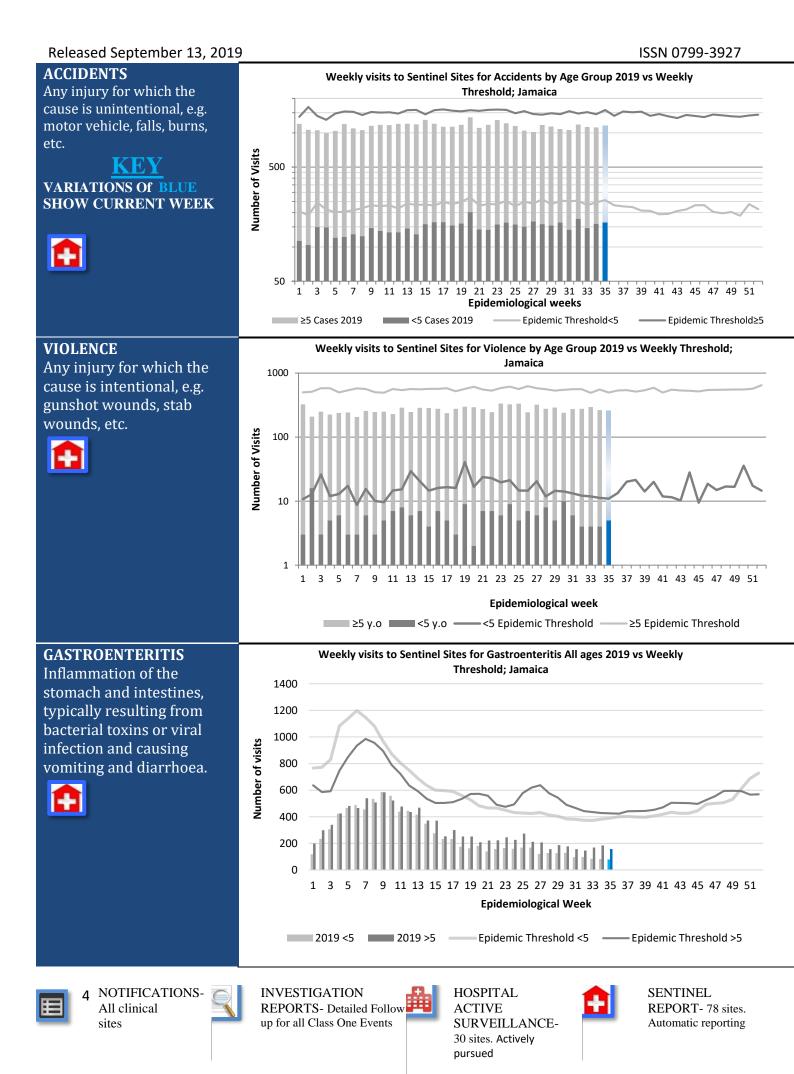
**INVESTIGATION REPORTS-** Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



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



## CLASS ONE NOTIFIABLE EVENTS

### ISSN 0799-3927

- CLASS ONE NOTIFIABLE EVENTS Comments						
			Confirmed YTD		AFP Field Guides	
	CLASS 1 EV	/ENTS	CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective surveillance system,	
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		48	152	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		11	33		
	Hepatitis C		2	5		
	HIV/AIDS		NA	NA		
	Malaria (Imported)		0	2		
	Meningitis (Clinically confirmed)		17	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 Sika **** Zika PCR positive cases	
		Rubella	0	0		
	Maternal Deaths <sup>**</sup>		42	48	TCK positive cases	
	Ophthalmia Neonatorum		161	201	-	
	Pertussis-like syndrome		0	0	-	
	Rheumatic Fever		0	0	-	
	Tetanus		0	0		
	Tuberculosis		33	45		
	Yellow Fever		0	0		
	Chikungunya <sup>***</sup>		1	9		
	Zika Virus <sup>****</sup>		0	0	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

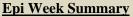


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## NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

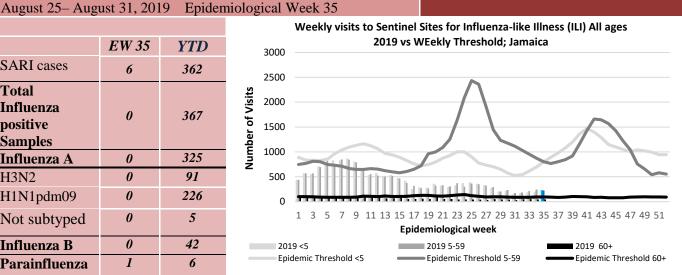
EW 35

	EW 35	YTD
SARI cases	6	362
Total Influenza positive Samples	0	367
Influenza A	0	325
H3N2	0	91
H1N1pdm09	0	226
Not subtyped	0	5
Influenza B	0	42
Parainfluenza	1	6

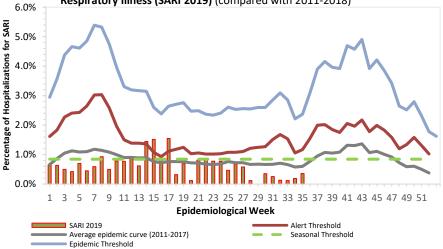


During EW 35, 0 cases of influenza were detected. Percent positivity remained low.

During EW 35, 6 (six) SARI admissions were reported.

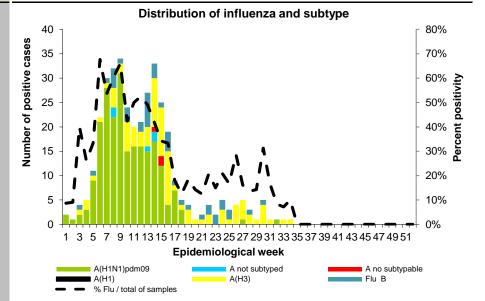






### **Caribbean Update EW 35**

Influenza and SARI activity were low and continue to decrease in the sub-region. In Cuba, influenza activity increased with the circulation of influenza A, although was at a low level of intensity. RSV activity decreased in Cuba and the Dominican **Republic.** 





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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

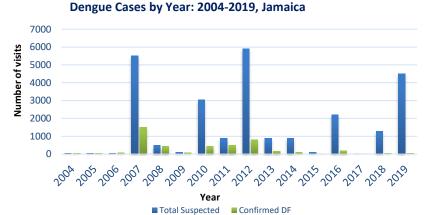


# Dengue Bulletin

August 25- August 31, 2019 Epidemiological Week 35

## Epidemiological Week 35





Reported suspected and confirmed dengue with symptom onset in weeks 1-35, 2019 2019 2018 EW YTD YTD 35 **Total Suspected Dengue** 17 \*\*4514 211 Cases Lab Confirmed Dengue 1 37 1 cases Dengue

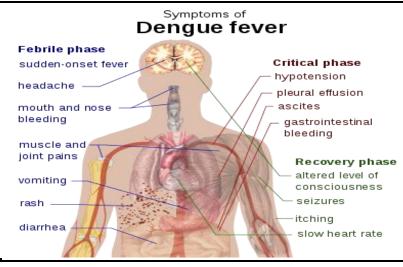
0

6

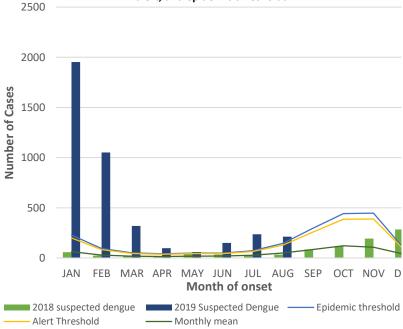
0

Related

Deaths



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



## **Points to note:**

CONFIRMED

- \*\*figure as at September 10, 2019
- Only PCR positive dengue cases are reported as confirmed.
- IgM positive cases are classified as presumed dengue.



NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



# **RESEARCH PAPER**

# Reduction in Default of Second HIV DNA-PCR Screening of HIV Exposed Infants through Improved Patient Tracking and Information Systems

M Hamiltoni, C Browni, K Guerraz, C Williams, D Smith-Winti, J Thamei, L Richardsi National Public Health Laboratory, Ministry of Health, Jamaica Clinton Health Access Initiative

**Objectives**: To develop a low cost tracking tool for the monitoring of infant HIV-DNA screens and to determine its effect on the reduction of second test defaults of HIV-exposed infants.

**Methods:** Data from all infants screened since the introduction of DNA-PCR testing was collated and entered on an Excel based platform. The database created utilized four critical elements for sample identification, mother's full name and patient's full name, date of birth, and gender. It provided the following outputs: total testing levels and results; patient testing history; sample result turnaround time analysis; and second test de-fault reports. There optional tracking by health regions and sub-regions, and testing sites. Data for two six month periods, one each before and after the introduction of the database, were compared.

**Results:** Within the first six months of implementation of the database, second DNA-PCR test defaults reduced by approximately 16%.

**Conclusions:** Utilization of low cost measures such as the EID Database & Tracking Tool can improve the tracking and management of HIV exposed infants. This system is a low cost solution which does not require major IT infrastructure overhauls, can be developed in a relatively short time, and is not labor intensive.



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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

