WEEKLY EPIDEMIOLOGY BULLETIN NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH & WELLNESS, JAMAICA EPI WEEK 33



Water safety and quality are fundamental to human development and wellbeing. Providing access to safe water is one of the most effective instruments in promoting health and reducing poverty.

As the international authority on public health and water quality, WHO leads global efforts to prevent transmission of waterborne disease. This is achieved by promoting health-based regulations to governments and working with partners to promote effective risk management practices to water suppliers, communities and households.

WHO produces international norms on water quality and human health in the form of guidelines that are used as the basis for regulation and standard setting world-wide.

The Guidelines for drinking-water quality (GDWQ) promote the protection of public health by advocating for the development of locally relevant standards and regulations, adoption of preventive risk management approaches covering catchment to consumer and independent surveillance to ensure that Water Safety Plans are being implemented and effective and that national standards are being met.

Emergency situations, including those due to natural hazards, technological hazards, complex situations and outbreaks, lead to health-related diseases and affect populations in all contexts. Depending upon the nature of the event, vulnerability of the people affected and capacity of local and national systems, deterioration in environmental conditions often results in a steep increase in WASH-related diarrhoeal disease. In particular, in emergencies WHO has the mandate to work with the Ministry of Health to ensure water quality and minimize water-related health risks and support provision of WASH in health care facilities.



SYNDROMES

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DENGUE FEVER

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GASTROENTERITIS PAGE 7



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SENTINEL SYNDROMIC SURVEILLANCE





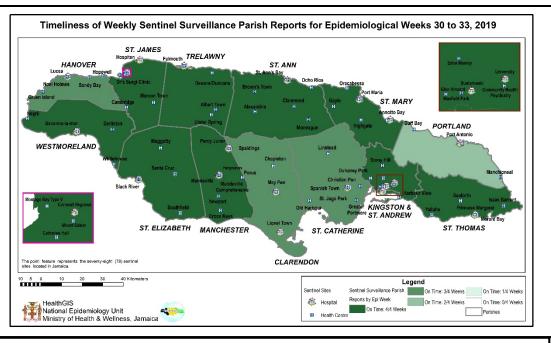


Parish health departments submit reports weekly by 3 p.m. on Tuesdays. **Reports submitted after 3** p.m. are considered late.

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.



Weekly Visits to Sentinel Sites for Undifferentiated Fever All ages: Jamaica,

Weekly Threshold vs Cases 2019

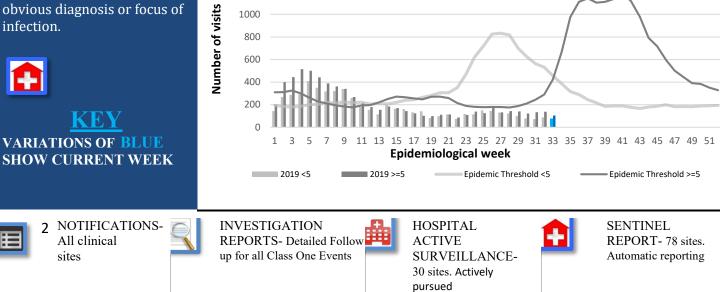
REPORTS FOR SYNDROMIC SURVEILLANCE

1400

1200

FEVER

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



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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).



Weekly Visits to Sentinel Sites for Fever and Neurological Symptoms 2018 vs. Weekly Threshold: Jamaica 40 35 30 Number of visits 25 20 15 10 5 0 3 5 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 1

Epidemiological week

2019 Epidemic Threshold

FEVER AND HAEMORRHAGIC

Temperature of $>38^{\circ}C$ /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. 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.

sites



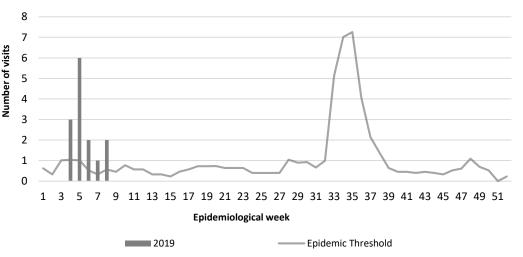


INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

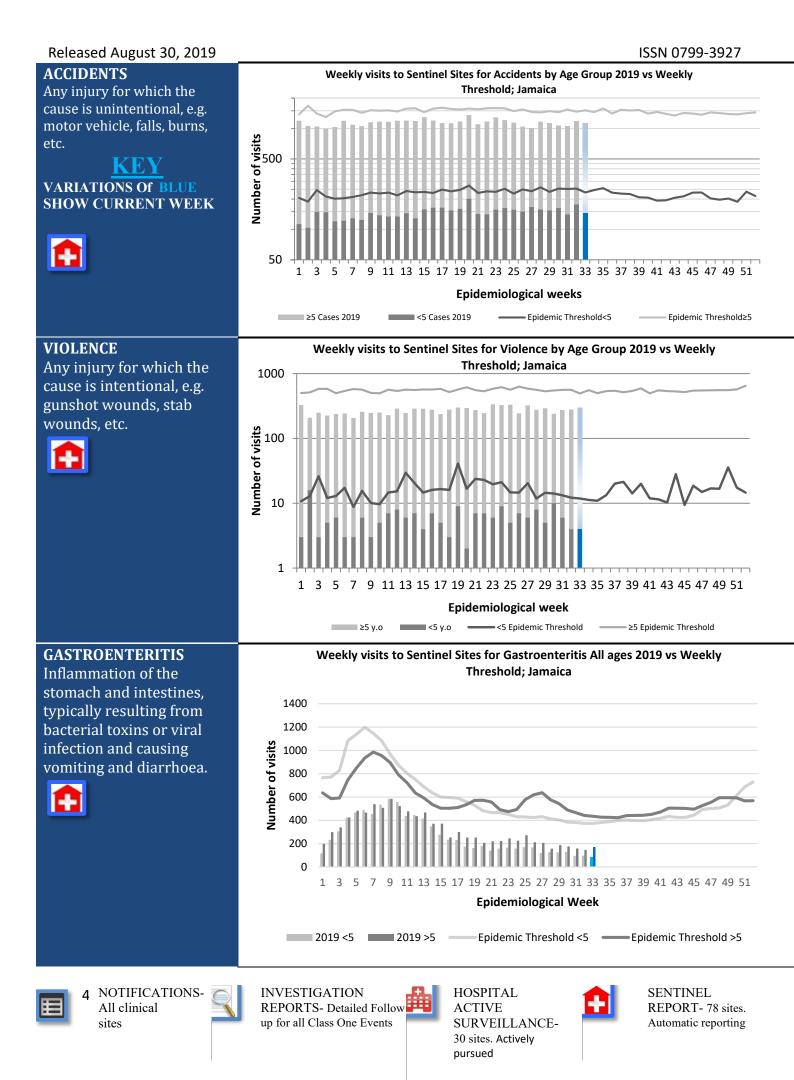




Weekly Visits to Sentinel Sites for Fever and Jaundice 2019 vs. Weekly Threshold 8 7 6 Number of visits 5 4 3 1 Λ 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 1 3 5 7 **Epidemiological Week** Epidemic Threshold 2019



SENTINEL REPORT- 78 sites. Automatic reporting



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CLASS ONE NOTIFIABLE EVENTS

Comments

CERSS ONE NOTHINABLE EVENTS Comments							
			Confirmed YTD		AFP Field Guides		
	CLASS 1 EV	/ENTS	CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective		
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		40	143	surveillance system, detection rates for AFP should be 1/100,000 population under 15 years old (6 to 7) cases annually.		
	Cholera		0	0			
	Dengue Hemorrhagic Fever*		NA	NA			
	Hansen's Disease (Leprosy)		0	0			
	Hepatitis B		11	26			
	Hepatitis C		2	2	Pertussis-like		
	HIV/AIDS		NA	NA	syndrome and Tetanus are clinically confirmed classifications.		
ATI	Malaria (Imported)		0	2			
Z	Meningitis (Clinically confirmed)		15	37			
EXOTIC/ UNUSUAL	Plague		0	0	 * Dengue Hemorrhagic Fever data include Dengue related deaths; ** Figures include all deaths associated with pregnancy 		
/LI	Meningococcal Meningitis		0	0			
H IGH MORBIDIT/ MORTALIY	Neonatal Tetanus		0	0			
	Typhoid Fever		0	0			
	Meningitis H/Flu		0	0			
	AFP/Polio		0	0	reported for the		
	Congenital Rubella Syndrome		0	0	period.		
	Congenital Syphilis		0	0	*** CHIKV IgM positive		
SPECIAL PROGRAMMES	Fever and Rash	Measles	0	0	cases		
		Rubella	0	0			
	Maternal Deaths**		40	44	PCR positive cases		
	Ophthalmia Neonatorum		161	201			
	Pertussis-like syndrome		0	0			
	Rheumatic Fever		0	0			
	Tetanus		0	0			
	Tuberculosis		33	43	_		
	Yellow Fever		0	0			
	Chikungunya ^{***}		1	0			
	Zika Virus ^{***}	*	0	0	NA- Not Available		
					SENTINEL REPORT- 78 sites. Automatic reporting		

30 sites. Actively pursued

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August 11– August 17, 2019

NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

Epidemiological Week 33

EW 33

	EW 33	YTD
SARI cases	1	352
Total Influenza positive Samples	1	366
Influenza A	1	324
H3N2	1	90
H1N1pdm09	0	226
Not subtyped	0	5
Influenza B	0	42
Parainfluenza	0	5

During EW 33, 1 case of influenza

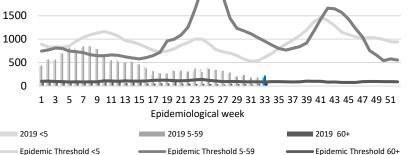
was detected. Percent positivity

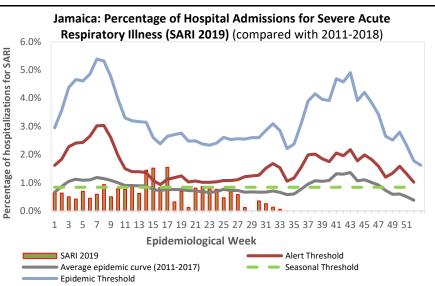
During EW 33, 1 (one) SARI admission was reported.

Caribbean: Influenza and SARI

activity were low and continue to decrease in the sub-region.

Weekly visits to Sentinel Sites for Influenza-like Illness (ILI) All ages 2019 vs Weekly Threshold; Jamaica 3000 2500 2000 Number of visits 1500



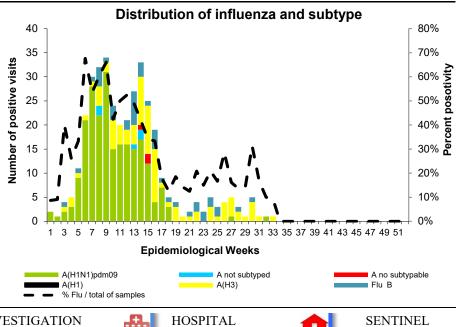


Global Update EW33

Epi Week Summary

remained low.

Worldwide, the majority of the detections were seasonal influenza A viruses.





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NOTIFICATIONS-All clinical sites



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ACTIVE SURVEILLANCE-30 sites. Actively pursued

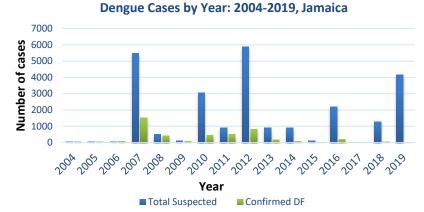
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REPORT- 78 sites. Automatic reporting

Dengue Bulletin

August 11- August 17, 2019 Epidemiological Week 33 Epidemiological Week 33



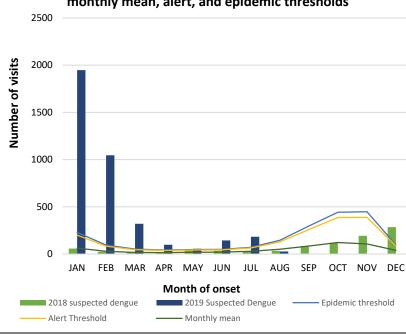


Reported suspected and confirmed dengue with symptom onset in weeks 1-33, 2019

		2019		2010
		EW 33	YTD	2018 YTD
Total Suspected Dengue Cases		1	4183	200
Lab Confirmed Dengue cases		1	34	1
CONFIRMED	Dengue Related Deaths	0	6	0

Symptoms of 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:

- **Only PCR positive dengue** • cases are reported as confirmed.
- IgM positive cases are 0 classified as presumed dengue.



All clinical

sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 78 sites. Automatic reporting

RESEARCH PAPER

Working Women and Household Fast-food Consumption

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Abstract

Objectives:

This study examined how the participation of married women in the workforce affected household consumption of food away from home (FAFH) in Jamaica. The main hypothesis was that there was a positive relationship between hours worked by married females and household consumption of FAFH.

Method:

This study employed a backward step logistic regression on data collected during the 2012 Jamaica Survey of Living Conditions. Data came from households in which the female was in a married or common-law relationship with another household member. The predictors included employment data for bot h the husband and wife; household size, composition, economy and location; as well as the status of the female in the household. The outcome variable was a dummy variable indicating the decision to consume any meal away from home (breakfast, lunch or dinner).

Results:

Participation of the wife in the workforce significantly affected the household consumption of FAFH. Thelo nger the wife worked outside the home the more likely it was for the household to purchase and consume FAFH. The most important predictor was the economy of the household, while the age and status of the female and household size were also significant.

Conclusion:

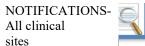
Participation of married females in the workforce increased household consumption of FAFH, even whenco ntrolling for various characteristics of the household. Traditional household divisions of labour along gender lines persist in the developing country, and could possibly pose a threat to nutrition and wellbeing.



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All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL **REPORT-** 78 sites. Automatic reporting