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

New WHO-led study says majority of adolescents worldwide are not sufficiently physically active, putting their current and future health at risk



The first ever global trends for adolescent insufficient physical activity show that urgent action is needed to increase physical activity levels in girls and boys aged 11 to 17 years. The study finds that more than 80% of schoolgoing adolescents globally did not meet current recommendations of at least one hour of physical activity per day – including 85% of

girls and 78% of boys.

The difference in the proportion of boys and girls meeting the recommendations was greater than 10 percentage points in almost one in three countries in 2016, with the biggest gaps seen in the United States of America and Ireland. Most countries in the study saw this gender gap widen between 2001-2016.



The health benefits of a physically active lifestyle during adolescence include improved cardiorespiratory and muscular fitness, bone and cardiometabolic health, and positive effects on weight. There is also growing evidence that physical activity

has a positive impact on cognitive development and socializing. Current evidence suggests that many of these benefits continue into adulthood.

To improve levels of physical activity among adolescents, the study recommends that:

- Urgent scaling up is needed of known effective policies and programmes to increase physical activity in adolescents;
- Multisectoral action is needed to offer opportunities for young people to be active, involving education, urban planning, road safety and others;



Downloaded from: <u>https://www.who.int/news-room/detail/22-11-2019-new-who-led-study-says-majority-of-</u> adolescents-worldwide-are-not-sufficiently-physically-active-putting-their-current-and-future-health-at-risk

EPI WEEK 46



SYNDROMES

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SENTINEL SYNDROMIC SURVEILLANCE



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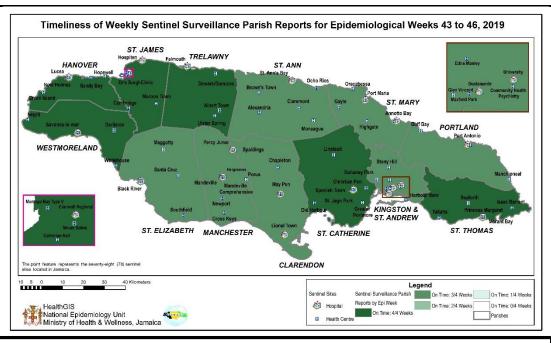


Parish health departments submit reports weekly by 3 p.m. on Tuesdays. **Reports submitted after 3** p.m. are considered late.

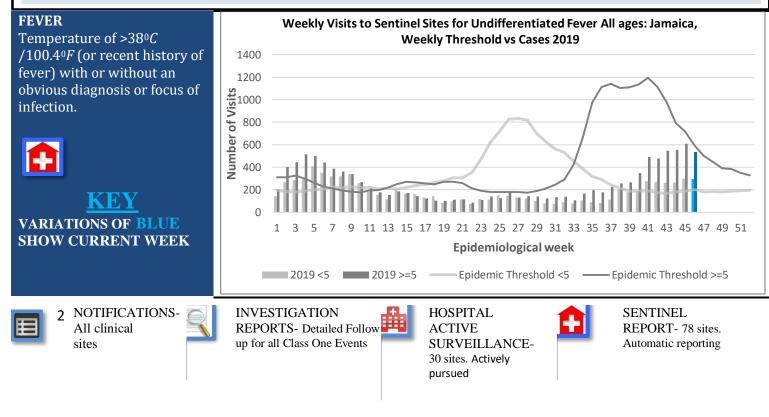
A syndromic surveillance system is good for early detection of and response to public health events.

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 November 29, 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

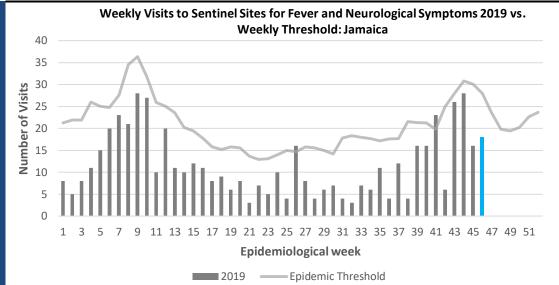
Temperature of >38°C /100.4°F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice. Visits for Fever and Haemorrhagic symptoms were reported in weeks 4 to 8, 39,41,42, and 44, year to date.



FEVER AND JAUNDICE

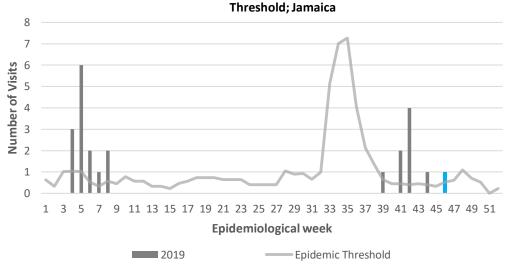
Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.

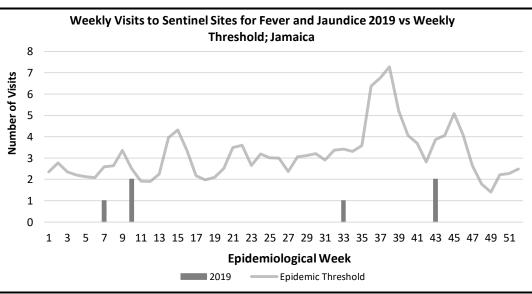
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations. Visits to sentinel sites for Fever and Jaundice were reported in weeks 7, 10, 33 and 43 only, year to date.



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Weekly Visits to Sentinel Sites for Fever and Haemorrhagic 2019 vs Weekly





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NOTIFICATIONS-All clinical sites

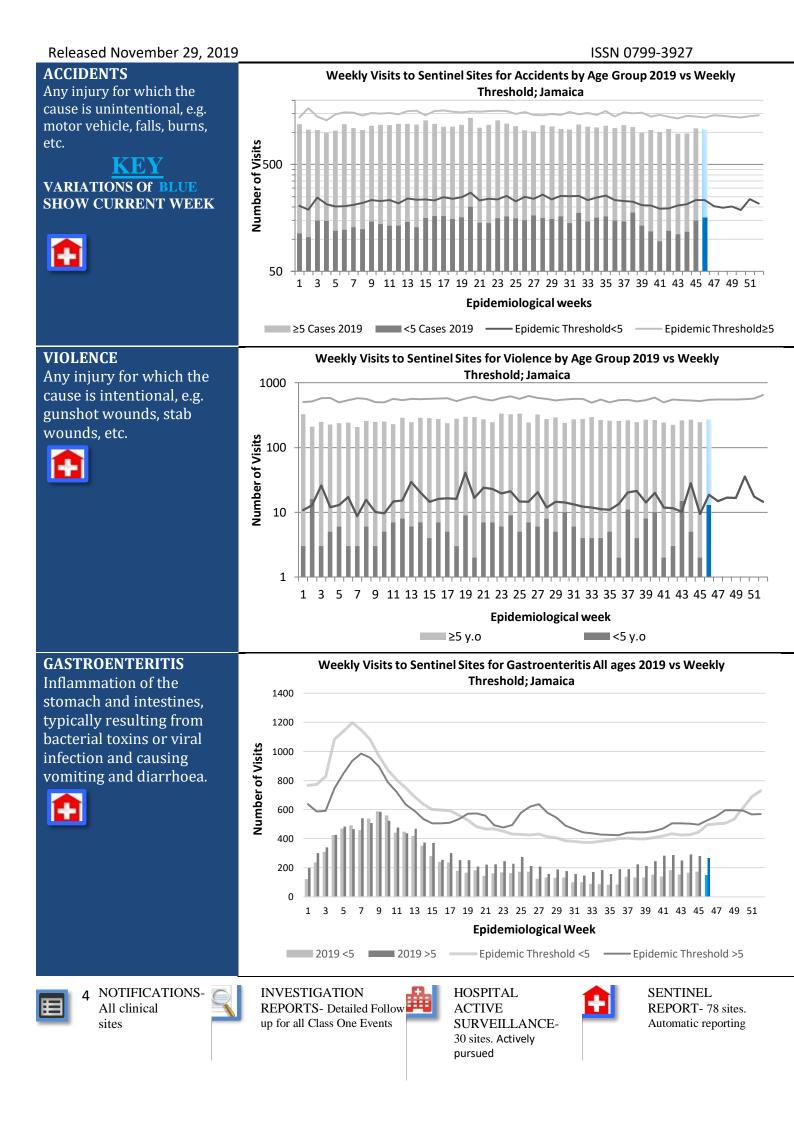


INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued





Comments

CLASS ONE NOTIFIABLE EVENTS

_			Confirmed YTD		AFP Field Guides	
	CLASS 1 EV	VENTS	CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective surveillance system,	
T	Accidental P	Poisoning	64	177	detection rates for	
NO/NO	Cholera		0	0	AFP should be 1/100.000	
NATIONAL /INTERNATIONAL INTEREST	Dengue Hemorrhagic Fever*		NA	NA	population under 15 years old (6 to 7) cases annually.	
	Hansen's Disease (Leprosy)		0	0		
	Hepatitis B		23	85		
	Hepatitis C		2	7	Pertussis-like	
	HIV/AIDS		NA	NA	syndrome and Tetanus are	
ATIC	Malaria (Imported)		0	5	clinically confirmed	
Ż	Meningitis (Clinically confirmed)	20	37	classifications.	
EXOTIC/ UNUSUAL	Plague		0	0	* Dengue Hemorrhagic Fever	
/LI	Meningococcal Meningitis		0	0	data include Dengue related deaths; ** Figures include all deaths associated with pregnancy	
H IGH MORBIDIT/ MORTALIY	Neonatal Tetanus		0	0		
H I OR OR	Typhoid Fever		0	0		
ΣΣ	Meningitis H/Flu		0	0		
	AFP/Polio		0	0	reported for the	
	Congenital Rubella Syndrome	0	0	period.		
\sim	Congenital S	yphilis	0	0	*** CHIKV IgM	
SPECIAL PROGRAMMES	Fever and Rash	Measles	0	0	positive cases	
		Rubella	0	0		
	Maternal Deaths ^{**}		53	59	PCR positive cases	
L PR	Ophthalmia	Neonatorum	222	272		
CIAJ	Pertussis-lik	e syndrome	0 0			
BEG	Rheumatic Fever		0	0		
	Tetanus		0	0		
	Tuberculosis		54	72		
	Yellow Fever		0	0		
	Chikunguny	a ^{***}	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 November 29, 2019

NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

ISSN 0799-3927

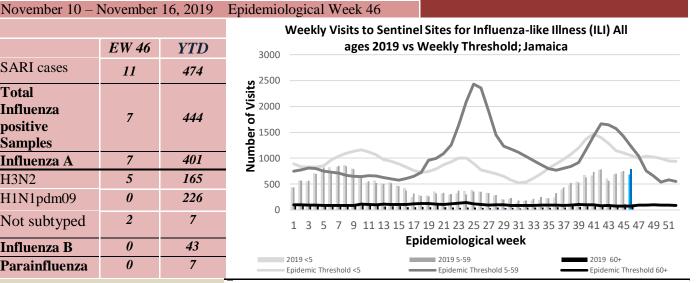
EW 46

	EW 46	YTD	
SARI cases	11	474	
Total			
Influenza	7	444	
positive	,		
Samples			
Influenza A	7	401	
H3N2	5	165	
H1N1pdm09	0	226	
Not subtyped	2	7	
Influenza B	0	43	
Parainfluenza	0	7	

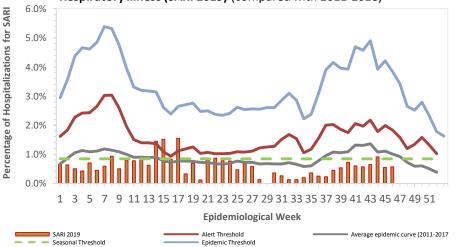
Epi Week Summary

During EW 46, 7 cases of influenza were detected. Percent positivity is 25%.

During EW 46, 11 (eleven) SARI admissions were reported.



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



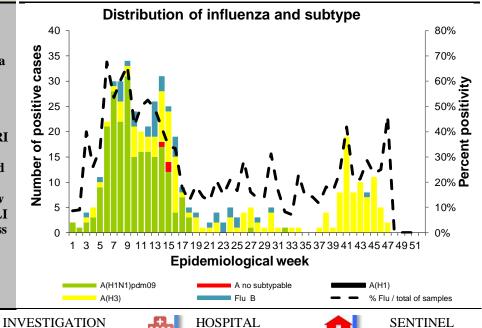
Caribbean Update EW 46

Influenza and SARI activity continued at low levels with influenza A(H3N2), A(H1N1)pdm09, and influenza B viruses co-circulating in the subregion. In Cuba, influenza activity decreased with influenza **B**/Victoria virus predominance; SARI cases remained at a low level. In Jamaica, influenza activity decreased with influenza A(H3N2) virus predominance and SARI cases at low levels. In St. Lucia, the number of ILI cases increased among those aged less than five years of age and was above the alert threshold.

NOTIFICATIONS-

All clinical

sites



REPORTS- Detailed Follow up for all Class One Events

ACTIVE SURVEILLANCE-30 sites. Actively pursued

REPORT- 78 sites. Automatic reporting

Dengue Bulletin

November 10 – November 16, 2019 Epidemiological Week 46

Epidemiological Week 46 Dengue Cases by Year: 2004-2019, Jamaica





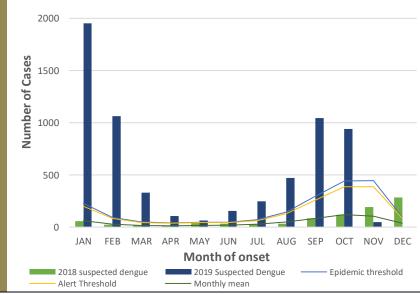
Reported suspected and confirmed dengue with symptom onset in weeks 1-46 2019					
_	2019				
	EW 46	YTD	2018 YTD		
Total Suspected Dengue Cases	0	6792	377		
Lab Confirmed Dengue cases	0	55	8		
CONFIRMED Dengue Related Deaths	0	15	1		

Symptoms of Dengue fever Febrile phase sudden-onset fever Critical phase 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:

- ****figure as at November** 21, 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

2500

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

RESEARCH PAPER

ABSTRACT

Title: Complementary and alternative therapies used by patients with

hypertension and type 2 diabetes mellitus in western Jamaica

Samuel Owusu 1, Yai-Ellen Gaye 1, Skyla Hall 1, Anna Junkins 1, Sarah Franklin, Maung Aung, Pauline E. Jolly 1

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Objective: This study examined prevalence and predictors of complementary and alternative medicine (CAM) use among clinic patients with Hypertension (HTN) and/or Type 2 Diabetes Mellitus (DM) in western Jamaica.]

Methods: An investigator-administered questionnaire was used to collect data on sociodemographic factors, CAM use, and knowledge and perceptions of CAM.

Results: Of the 345 participants, 311 had HTN, 130 had Type 2 DM, and 96 had both; 79% of those with HTN and 65% with Type 2 DM reported current use of CAM. Multivariable logistic regression revealed that participants with HTN or Type 2 DM who reported none/poor knowledge of CAM were 67% less likely to use CAM compared to those who reported average/good/excellent CAM knowledge (HTN - AOR=0.33, 95% CI=0.13-0.87; Type 2 DM -AOR= 0.06, 95% CI=0.01-0.37). Patients with HTN who believed that CAM is a natural method for treating HTN were 3.9 times more likely to use CAM (AOR = 3.9, 95% CI=1.26-12.00) and patients with Type 2 DM who believed that it is acceptable to use both prescription medication and CAM simultaneously were 7.19 times more likely to use CAM (CI=1.34-38.52).

Conclusions: A high proportion of patients in western Jamaica use CAM for treating HTN and Type 2 DM and most do not discuss CAM use with healthcare providers. Several factors were found to be significantly associated with CAM use among the patients. These results can be used in designing patient and educational interventions to ensure proper use, and mitigation of harmful effects, of CAM.



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All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

