# WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH, JAMAICA

# Noncommunicable diseases and their risk factors

Launch of new global estimates on levels of physical activity in adults



#### 1 in 4 adults are inactive

5 SEPTEMBER 2018 - New data published in The Lancet Global Health today show that more than one in four adults globally (28% or 1.4 billion people) are physically inactive. However this can be as high as one in three adults inactive in some counties.

The paper, authored by four World Health Organization experts, reports data that update 2008 estimates on levels of activity and, for the first time, reports trend analyses showing that overall, the global level of inactivity in adults remains largely unchanged since 2001.

Women were less active than men, with an over 8% difference at the global level (32% men vs 23%, women). High income countries are more inactive (37%) compared with middle income (26%) and low income countries (16%).

These data show the need for all countries to increase the priority given to national and sub-national actions to provide the environments that support physical activity and increase the opportunities for people of all ages and abilities, to be active every day.

The new Global Action Plan on Physical Activity sets the target to reduce physical inactivity by 10% by 2025 and 15% by 2030. Regular physical inactivity increases peoples risk of poor health, including cardiovascular disease, several types of cancer and diabetes, falls, as well as mental health conditions. Publication of levels of participation in children and young people are forthcoming.



 $Source: \underline{http://www.who.int/ncds/prevention/physical-activity/lancet-global-health-insufficient-physical-activity-2001-2016/en/$ 

## EPI WEEK 35



**SYNDROMES** 

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CLASS 1 DISEASES

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**INFLUENZA** 

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## REPORTS FOR SYNDROMIC SURVEILLANCE

#### FEVER

Temperature of >38°C /100.4°F (or recent history of fever) with or without an obvious diagnosis or focus of infection.



# KEY RED CURRENT WEEK

# FEVER AND NEUROLOGICAL

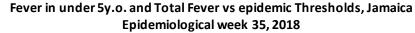
Temperature of >38°C /100.4°F (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal irritation, convulsions, altered consciousness, altered sensory manifestations or paralysis (except AFP).

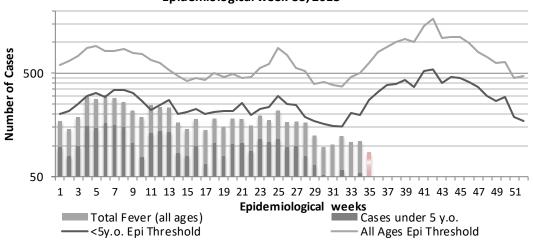
# FEVER AND HAEMORRHAGIC

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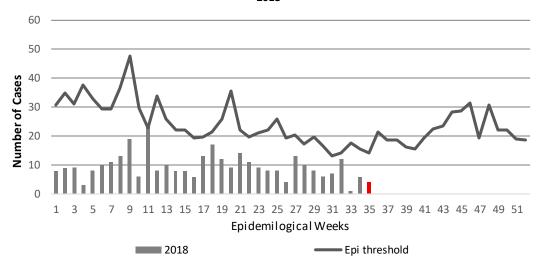
Temperature of >38°C /100.4°F (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.

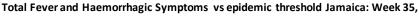


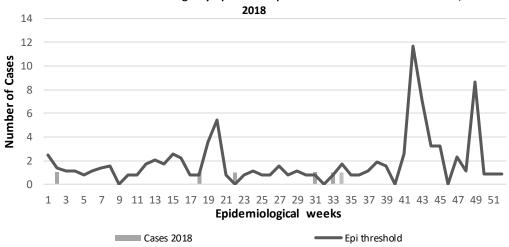




## Total Fever and Neurological Symptoms vs epidemic threshold Jamaica: Week 35, 2018









2 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



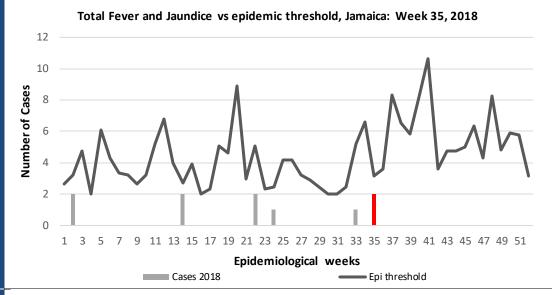
HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



## FEVER AND JAUNDICE

Temperature of  $>38^{\circ}C$  /100.4°*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.





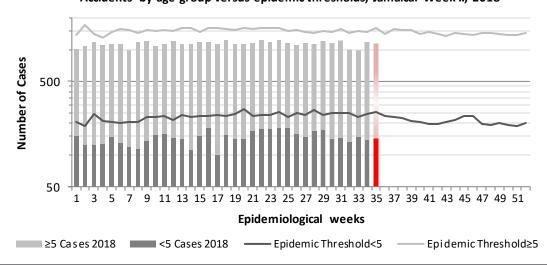
### **ACCIDENTS**

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

KEY
RED CURRENT
WEEK



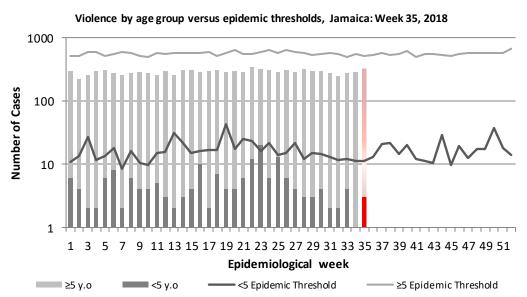
## Accidents by age group versus epidemic thresholds, Jamaica: Week .., 2018



### **VIOLENCE**

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







3 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

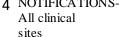


CLASS ONE NOTIFIABLE EVENTS

Comments

#### **CONFIRMED YTD** AFP Field Guides from WHO CURRENT **PREVIOUS** CLASS 1 EVENTS indicate that for an YEAR YEAR effective (302)94(360) 142Accidental Poisoning<sup>1</sup> NATIONAL /INTERNATIONAL surveillance system. detection Cholera 0 0 rates for AFP Dengue Hemorrhagic Fever<sup>2</sup> 0 3 should be INTEREST 1/100,000 Hansen's Disease (Leprosy) 0 2 population under Hepatitis B 33 33 15 years old (6 to 7) cases annually. 5 8 Hepatitis C HIV/AIDS NA NA Pertussis-like 2 0 Malaria (Imported) syndrome and 32 70 Tetanus are Meningitis (Clinically confirmed) clinically EXOTIC/ 0 0 Plague confirmed UNUSUAL classifications. 0 0 Meningococcal Meningitis MORBIDIT Neonatal Tetanus 0 0 1 Numbers in brackets indicate combined 0 0 Typhoid Fever suspected and confirmed 0 0 **Accidental Poisoning** Meningitis H/Flu AFP/Polio <sup>2</sup> Dengue Hemorrhagic Fever data include Congenital Rubella Syndrome Dengue related deaths; Congenital Syphilis <sup>3</sup> Figures include all SPECIAL PROGRAMMES deaths associated with Fever and Measles pregnancy reported for Rash the period. Rubella <sup>4</sup>CHIKV IgM positive Maternal Deaths<sup>3</sup> 44 39 cases 191 Ophthalmia Neonatorum 212 Pertussis-like syndrome Rheumatic Fever Tetanus **Tuberculosis** 25 0 Yellow Fever 0 Chikungunya<sup>4</sup> 9 0 NA- Not Available 0 0 Zika Virus NOTIFICATIONS-INVESTIGATION HOSPITAL **SENTINEL**







REPORTS- Detailed Follow up for all Class One Events



**ACTIVE** SURVEILLA NCE-30 sites. Actively pursued



REPORT- 79 sites. Automatic reporting

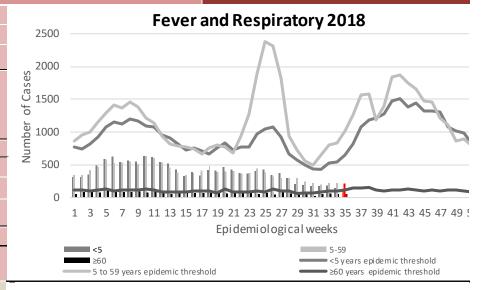
# NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

Epidemiological Week 35

## EW 35

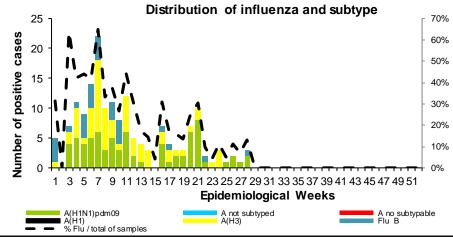
September 2018								
	EW 35	YTD						
SARI cases	1	232						
Total Influenza positive Samples	0	168						
Influenza A	0	139						
H3N2	0	65						
H1N1pdm09	0	74						
Not subtyped	0	1						
Influenza B	0	29						
Parainflue nza	0	7						

August 26- September 1, 2018



### **Comments:**

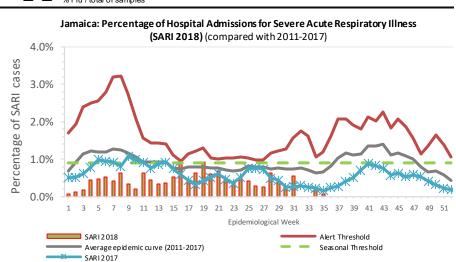
During EW 35, SARI activity remained below the seasonal threshold, similar to the previous seasons for the same period. Decreased influenza activity was reported; with influenza A(H1N1)pdm09 predominating in previous weeks



# GLOBAL AND REGIONAL UPDATES

<u>Worldwide</u>: Seasonal influenza subtype A accounted for the majority of influenza detections.

Caribbean: Influenza virus activity slightly increased, and low RSV activity was reported throughout most of the sub-region. In Jamaica, influenza activity decreased, with influenza A(H1N1)pdm09 and A(H3N2) cocirculating.





5 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

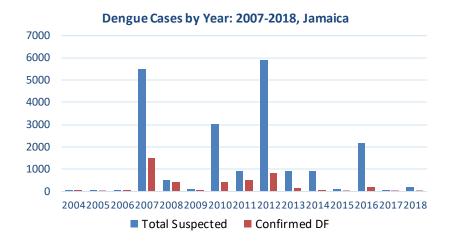


# Dengue Bulletin

August 26- September 1, 2018

Epidemiological Week 35

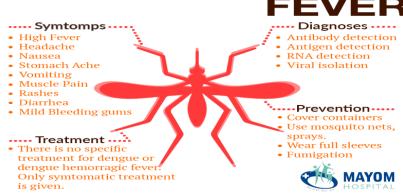




# Weekly Breakdown of suspected and confirmed cases of DF, DHF, DSS

		20	2017		
L	<b>~</b>	<b>EW</b> 35	YTD	YTD	
-	cted Dengue ises	3	211	95	
Lab Confirmed Dengue cases		0	1	1	
CONFIRMED	*DHF/DSS	0	0	0	
	Dengue Related Deaths	0	0	0	

# DENGUE

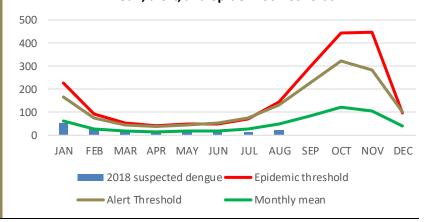


\*DHF/DSS: Dengue Haemorrhagic Fever/ Dengue Shock Syndrome

#### **Points to note:**

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

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





6 NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



## Gastroenteritis Bulletin

August 26 – September 1, 2018

Epidemiological Week 35

## Weekly Breakdown of Gastroenteritis cases

Year		EW 35		YTD			
	<5	≥5	Total	<5	≥5	Total	
2018	54	130	184	4,683	7,172	11,855	
2017	50	122	172	6,163	7,575	13,738	

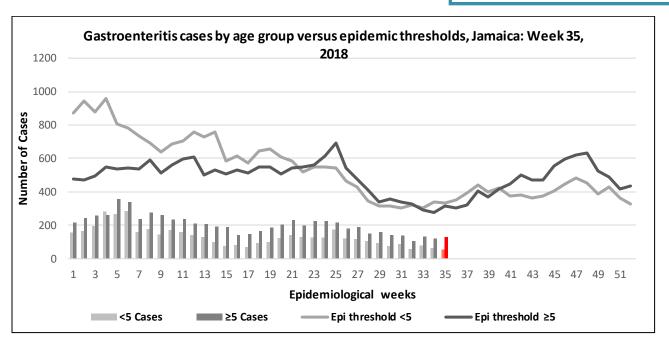
Gastroenteritis:

In epidemiological week 35, 2018, the total number of reported GE cases showed a 6.5% increase compared to EW 35 of the previous year.

The year to date figures showed a 14 % decrease in cases for the period.



Figure 1: Total Gastroenteritis Cases Reported 2017-2018



## Total number of GE cases per parish for Week 35, 2018

Parishes	KSA	STT	POR	STM	STA	TRE	STJ	HAN	WES	STE	MAN	CLA	STC
<5	1522	119	85	307	485	285	304	197	196	172	448	296	267
≥5	1203	240	136	566	911	476	664	290	366	287	772	606	655





## **RESEARCH PAPER**

## Measles Rapid Coverage Survey in Jamaican Schools 2015

D Chin<sup>1</sup>, A Grant<sup>1</sup>, K Webster-Kerr<sup>1</sup>, S Spence<sup>1</sup> Ministry of Health, Kingston, Jamaica

Presenting Author e-mail: ChinD@moh.gov.jm

## **Abstract**

**Objective:** The aim of the survey was to determine the success of the Measles Prevention Campaign 2015.

**Design and Methods:** A school-based survey was conducted targeting children aged 1-6 years. The study employed a two stage design in which Early Childhood Institutions (ECI) and Primary / Preparatory / All-Age (PPA) schools were randomly selected within each parish, after which ten students were randomly selected from each institution. Seven hundred and fifty (750) students from seventy-five schools were targeted. Immunization teams located within parishes visited schools to obtain dates of MMR1 and MMR2 vaccinations for each child using a standard survey tool. Coverage was calculated after adjusting for "card not seen" and migration out of parish.

**Results:** Data on 741 students from 75 schools were used for analysis. Jamaica's MMR1 coverage moved from 99% to 100% while MMR2 coverage increased by 40% from 58% to 98% during the campaign and in mopup activities.

**Conclusion:** The campaign was successful. Jamaica's MMR1 coverage increased from 99% to 100% and MMR2 coverage increased by 40% from 58% to 98%. The improvement in MMR2 coverage was a result of both the campaign and mop-up exercise. Consequently, the post campaign MMR2 coverage rate could be 94% (not considering mop-up) to 98%.

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