EPI

Week ending October 22, 2016

WEEK 42

SYNDROMES

CLASS 1 DISEASES

PAGE 2

PAGE 4

INFLUENZA

DENGUE FEVER

GASTROENTERITIS

RESEARCH PAPER

PAGE 5

PAGE 6

PAGE 7

PAGE 8

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

Weekly Spotlight **World Diabetes Day**

Theme: Eyes on Diabetes

WDD is the world's largest diabetes awareness campaign reaching a global audience of over 1 billion people in more than 160 countries. The campaign draws attention to issues of paramount importance to the diabetes world and keeps diabetes firmly in the public and political spotlight.

The World Diabetes Day campaign aims to:

Be the global driver to promote the importance of taking coordinated and concerted actions to confront diabetes as a critical global health issue.



The campaign is represented by a blue circle logo that was adopted in 2007 after the passage of the **UN** Resolution on diabetes. The blue circle is the global symbol for diabetes awareness. It signifies the unity of the global diabetes community in

response to the diabetes epidemic.

Over 640 million of us may be living with type 2 diabetes by 2040. Delayed diagnosis means that many people with type 2 diabetes suffer from at least one complication by the time they are diagnosed with diabetes.

A healthy lifestyle could prevent up to 70% of type 2 diabetes, healthy eating can help reduce risks.

Source: http://www.idf.org/WDD15-guide/ . https://www.google.com.jm/search?q=WDD+2016+banner&rlz=1C1KMZB_enJM682J M683&espv=2&biw=1366&bih=638&source=lnms&tbm=isch&sa=X&ved=0ahUKEwjd 6Kf0pY QAhVBSWMKHd5FBt8Q AUIBigB#imgrc=xTF42dq7t fRpM%3A







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

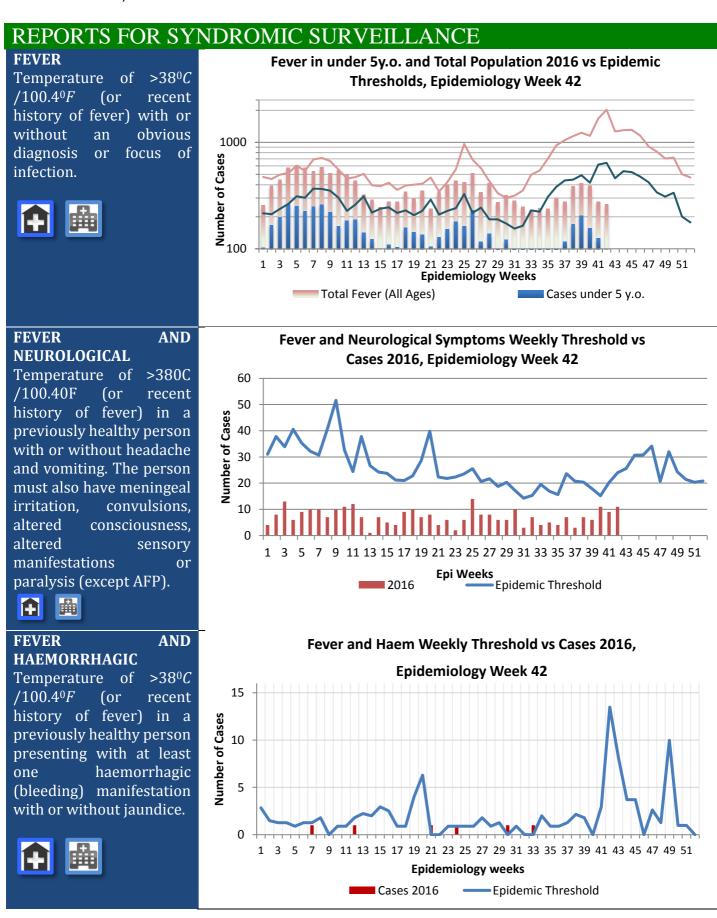








REPORT- 79 sites*. Automatic reporting









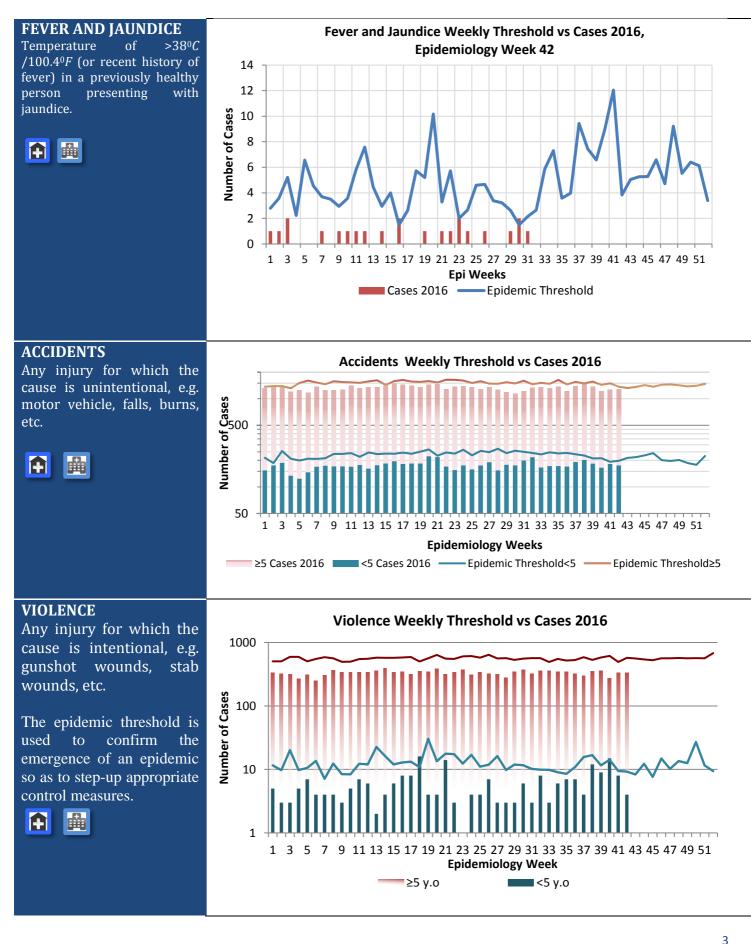
INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



2







clinical



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued

SENTINEL

REPORT- 79 sites*. Automatic reporting

CLASS ONE NOTIFIABLE EVENTS

Comments

	CLASS 1 EVENTS		CONFIRI	AFP Field Guides	
			CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective surveillance
AL	Accidental Poisoning		62	128	system, detection rates for AFP
NO/	Cholera		0	0	rates for AFP should be
NATIONAL /INTERNATIONAL INTEREST	Dengue Hemorrhagic Fever ¹		2	0	1/100,000 population under
	Hansen's Disease (Leprosy)		1	0	population under 15 years old (6 to 7)
L /INTERN	Hepatitis B		26	30	cases annually.
INI T	Hepatitis C		4	8	
NO	HIV/AIDS -	See HIV/AIDS Natio	onal Programme Re	port	Pertussis-like syndrome and
ATI	Malaria (Imported)		1	0	Tetanus are
Z	Meningitis		31	66	clinically confirmed
EXOTIC/ UNUSUAL	Plague		0	0	classifications.
	Meningococcal Meningitis		0	0	The TB case
H IGH MORBIDIT/ MORTALIY	Neonatal Tetanus		0	0	detection rate
H I IORI IOR	Typhoid Fever		1	0	established by PAHO for Jamaica
ΣΣ	Meningitis H	Meningitis H/Flu		0	is at least 70% of
	AFP/Polio		0	0	their calculated estimate of cases in
	Congenital Rubella Syndrome		0	0	the island, this is
\sim	Congenital Syphilis		0	0	180 (of 200) cases per year.
SPECIAL PROGRAMMES	Fever and	Measles	0	2	per year.
	Rash	Rubella	0	0	*Data not available
	Maternal Deaths ²		23	24	
	Ophthalmia Neonatorum		343	245	1 Dengue Hemorrhagic Fever data include
	Pertussis-like syndrome		0	0	Dengue related deaths;
	Rheumatic Fever		1	9	2 Maternal Deaths
	Tetanus		0	1	include early and late deaths.
	Tuberculosis		0	0	
	Yellow Fever		0	0	
	Chikungunya Zika Virus		0	1	
			158	0	



All

sites





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



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



SENTINEL REPORT- 79 sites*. Automatic reporting

4

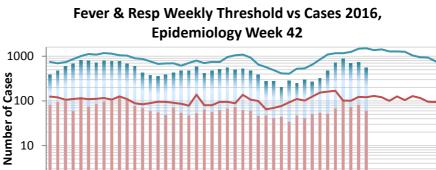
NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

Oct. 16-22, 2016

Epidemiology Week 42



September 2016				
	EW 42	YTD		
SARI cases	20	918		
Total Influenza positive Samples	1	133		
Influenza A	0	113		
H3N2	1	10		
H1N1pdm09	0	80		
Not subtyped	1	42		
Influenza B	0	0		
Other	0	1		



1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51

2016 ≥60

→≥60 year old's, Epidemic Threshold

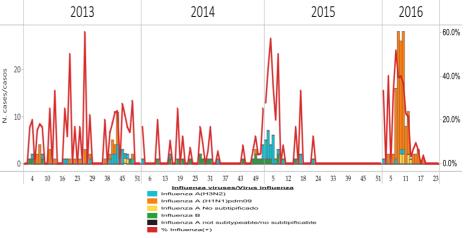
Epi Weeks

<5 year old's, Epidemic Threshold -

The percent positivity among all 2013 samples tested from EW 1 to EW 8, 2016 is 40.3% (N=77) A(H1N1)pdm09 20 cases/casos continued to circulate in EWs 1 to

1

2016 < 5



INDICATORS

8 as the predominant virus at 97%. No Influenza B viruses have been

detected since 2016. In addition, there has been no detection of the

influenza A/H3v or A/H1v variant

viruses, or avian H5 and H7

viruses among human samples

Burden

tested.

Comments:

Influenza

Year to date. respiratory syndromes account for 4.2% of visits to health facilities.

Incidence

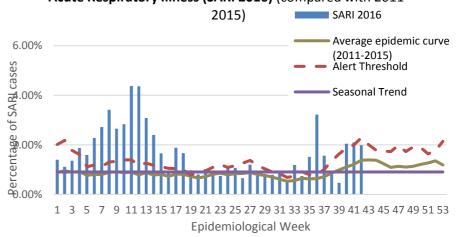
Cannot be calculated, as data sources do not collect all cases of **Respiratory illness.**

Prevalence Not applicable to respiratory conditions.

acute

HHH

Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2016) (compared with 2011-



*Additional data needed to calculate Epidemic Threshold





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



SENTINEL REPORT- 79 sites*. Automatic reporting

5

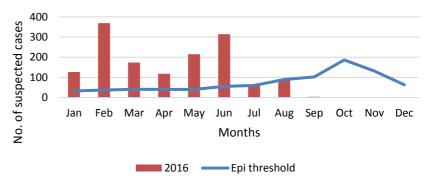
Oct. 16-22, 2016

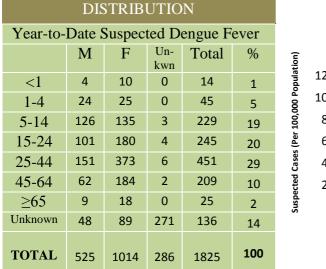
ISSN 0799-3927

Dengue Bulletin

Epidemiology Week 42

2016 Cases vs. Epidemic Threshold

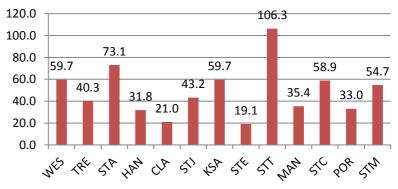




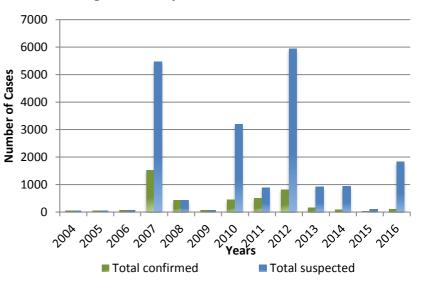
Weekly Breakdown of suspected and confirmed cases of DF,DHF,DSS,DRD

		2016			
		EW 42	YTD	2015 YTD	
Total Suspected Dengue Cases		1	1825	30	
Lab Confirmed Dengue cases		0	110	2	
CONFIRMED	DHF/DSS	0	2	0	
	Dengue Related Deaths	0	0	0	

Suspected Dengue Fever Cases per 100,000 Parish Population



Dengue Cases by Year: 2004-2016, Jamaica





All



INVESTIGATION

REPORTS- Detailed Follow up for all Class One Events



SENTINEL REPORT- 79 sites*. Automatic reporting

Gastroenteritis Bulletin

Oct. 16-22, 2016

Epidemiology Week 42

Weekly Breakdown of Gastroenteritis cases

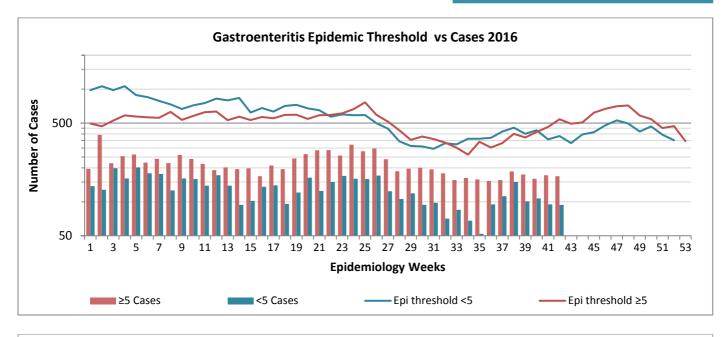
Year	EW 41			YTD		
	<5	≥5	Total	<5	≥5	Total
2016	94	169	263	5,439	8,977	14,416
2015	153	200	353	9,034	9,755	18,789

Gastroenteritis: In Epidemiology Week 42, 2016, the total number of reported GE cases showed a 19% decrease compared to EW 42 of the previous year.

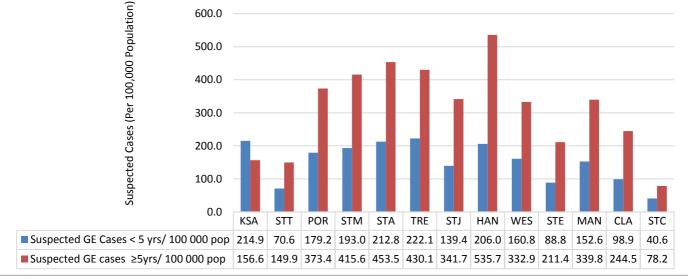
The year to date figure showed a 21.7% decrease in cases for the period.



Figure 1: Total Gastroenteritis Cases Reported 2015-2016



Suspected Gastroenteritis Cases per 100,000 Parish Population









INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



SENTINEL REPORT- 79 sites*. Automatic reporting

7

RESEARCH PAPER

A Comparison of the Nutritional Status of HIV- positive Children living in Family Homes and an 'Institutionalized' Children's Home

S Dawson, S Robinson, J DeSouza Epidemiology Research and Training Unit, Ministry of Health, Kingston, Jamaica

Objective: To assess the nutritional status of HIV-infected children living in family homes and in an institution.

Design and Method: A cross-sectional descriptive study was conducted involving 31 HIV- positive children with anthropometric measurements used as outcome indicators. The children who met the inclusion criteria were enrolled, and nutritional statuses for both sets of children were assessed and compared.

Results: Fifteen of the children (48.4%) lived in family homes and sixteen (51.6%) in the institution, with a mean age of 7.2 ± 3.2 years. Significant differences between the two settings were found for the means, Weight-For-Height, WFH (p=0.020) and Body Mass Index, BMI (p=0.005); children in family homes having significantly better WFH and BMI. Four of the children (13.3%) were underweight; 3 from the institution (18.8%) and 1 (6.7%) from a family home. Two children (6.9%) were found to be 'at risk' of being overweight.

Conclusion: Although anthropometric indices for most of these children are within the acceptable range, there seems to be significant differences in nutritional status between infected children resident in family homes, and those in the institution. The factors responsible for such differences are not immediately obvious, and require further investigation. The influence of ARV therapy on nutritional outcomes in these settings require prospective studies which include dietary, immunologic and biochemical markers, in order to provide data that may help to improve the medical nutritional management of these children.



The Ministry of Health 24-26 Grenada Crescent Kingston 5, Jamaica Tele: (876) 633-7924 Email: <u>mohsurveillance@gmail.com</u>







INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



SENTINEL REPORT- 79 sites*. Automatic reporting

8