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

Measles cases spike globally due to gaps in vaccination coverage



Reported measles cases spiked in 2017, as multiple countries experienced severe and protracted outbreaks of the disease. This is according to a new report published today by leading health organizations. Because of gaps in vaccination coverage, measles outbreaks

occurred in all regions, while there were an estimated 110 000 deaths related to the disease.

Using updated disease modelling data, the report provides the most comprehensive estimates of measles trends over the last 17 years. It shows that since 2000, over 21 million lives have been saved through measles immunizations. However, reported cases increased by more than 30 percent worldwide from 2016.

The Americas, the Eastern Mediterranean Region, and Europe experienced the greatest upsurges in cases in 2017, with the Western Pacific the only World Health Organization (WHO) region where measles incidence fell.

Measles is a serious and highly contagious disease. It can cause debilitating or fatal complications, including encephalitis (an infection that leads to swelling of the brain), severe diarrhoea and dehydration, pneumonia, ear infections and permanent vision loss. Babies and young children with malnutrition and weak immune systems are particularly vulnerable to complications and death. The disease is preventable through two doses of a safe and effective vaccine. For several years, however, global coverage with the first

dose of measles vaccine has stalled at 85 percent. This is far short of the 95 percent needed to prevent outbreaks, and leaves many people, in many communities, susceptible to the disease. Second dose coverage stands at 67 percent. Responding to the recent outbreaks, health agencies are



calling for sustained investment in immunization systems, alongside efforts to strengthen routine vaccination services. These efforts must focus especially on reaching the poorest, most marginalized communities, including people affected by conflict and displacement.

The agencies also call for actions to build broad-based public support for immunizations, while tackling misinformation and hesitancy around vaccines where these exist.

Source: https://www.who.int/news-room/detail/29-11-2018-measles-cases-spike-globally-due-to-gaps-in-vaccination-coverage

EPI WEEK 47



SYNDROMES

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CLASS 1 DISEASES

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INFLUENZA

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DENGUE FEVER

PAGE 6

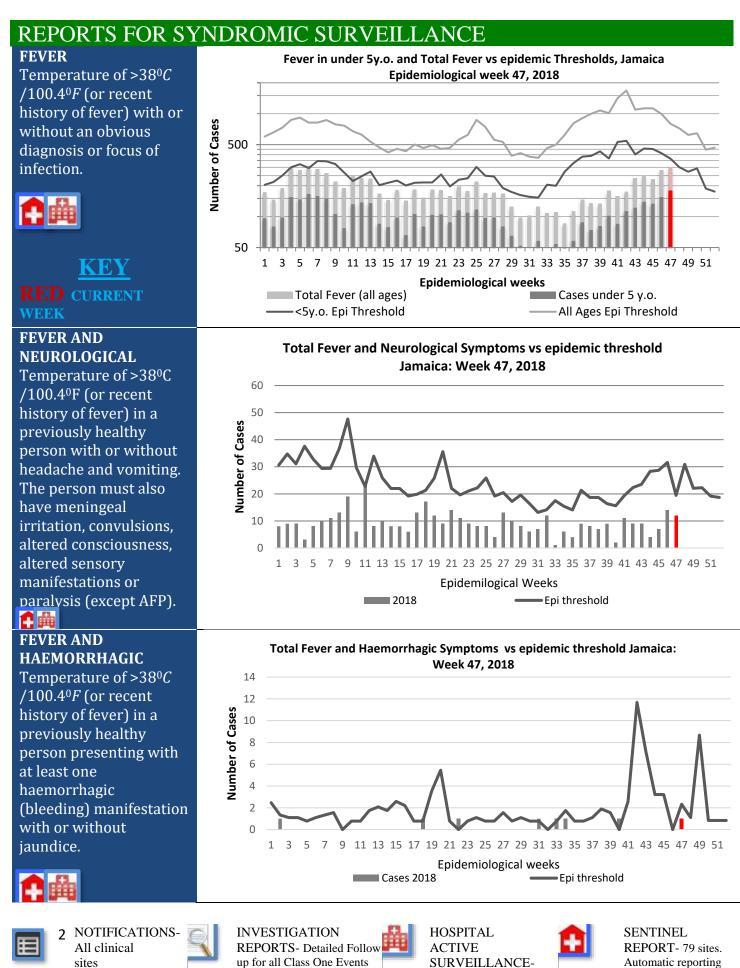


GASTROENTERITIS PAGE 7



RESEARCH PAPER

PAGE 8



30 sites. Actively pursued

Number of Cases

FEVER AND JAUNDICE

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

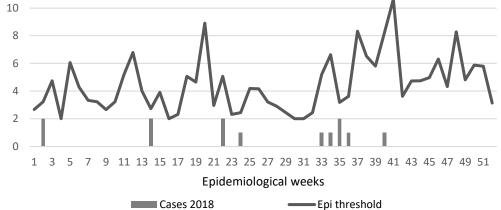
The epidemic threshold is used to confirm the emergence of an epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.

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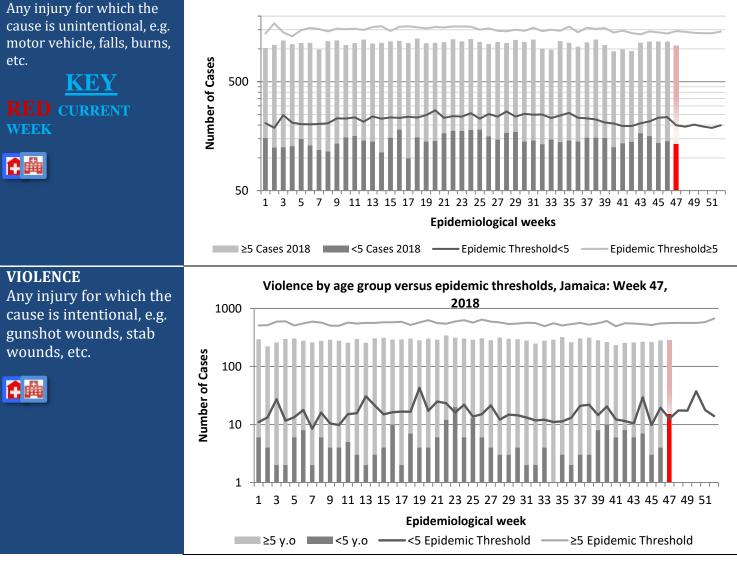
ACCIDENTS

12 ______ 10 _____

Total Fever and Jaundice vs epidemic threshold, Jamaica: Week 47, 2018







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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



- CLAS	SS ONE NO	TIFIABLE EVEN	ГS		Comments		
			CONFIRM	MED YTD	AFP Field Guides		
	CLASS 1 E	VENTS	CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective		
AL	Accidental F	Poisoning ¹	(439) 135	(466) 192	surveillance		
0N/	Cholera		0	0	system, detection		
NATIONAL /INTERNATIONAL INTEREST	Dengue Hen	norrhagic Fever ²	2	3	rates for AFP should be		
	Hansen's Di	sease (Leprosy)	0	2	1/100,000		
L /INTERN INTEREST	Hepatitis B		43	53	population under 15 years old (6 to		
	Hepatitis C		7	10	7) cases annually.		
√NC	HIV/AIDS		NA	NA			
ATIC	Malaria (Im	ported)	5	0	Pertussis-like syndrome and		
Ż	Meningitis (Clinically confirmed)	35	102	Tetanus are		
EXOTIC/ UNUSUAL	Plague		0	0	clinically confirmed		
۲ ۲	Meningococ	cal Meningitis	0	0	classifications.		
H IGH MORBIDIT MORTALIY	Neonatal Te	tanus	0	0	¹ Numbers in brackets		
H I ORI ORI	Typhoid Fev	ver	0	0	indicate combined		
ΜM	Meningitis H	I/Flu	0	0	suspected and confirme Accidental Poisoning		
	AFP/Polio		0	0	cases ² Dengue Hemorrhagic		
	Congenital F	Rubella Syndrome	0	0	Fever data include Dengue related deaths;		
-	Congenital S	Syphilis	0	0	³ Figures include all		
MES	Fever and Rash	Measles	0	0	deaths associated with pregnancy reported for		
AM		Rubella	0	0	the period.		
)GR	Maternal De	aths ³	56	46	⁴ CHIKV IgM positive cases		
SPECIAL PROGRAMMES	Ophthalmia	Neonatorum	275	331	⁵ Zika IgM		
IAL	Pertussis-lik	e syndrome	0	0	positive cases		
PEC	Rheumatic F	Fever	0	0			
SI	Tetanus		0	0			
	Tuberculosis	3	41	113			
	Yellow Feve	er	0	0			
	Chikunguny	a ⁴	10	0			
	Zika Virus ⁵		1	0	NA- Not Available		
4 NOTIFICATIONS- All clinical sites INVESTIGATION REPORTS- Detailed up for all Class One E		vents SURV	VE EILLANCE- s. Actively	SENTINEL REPORT- 79 site Automatic reporti			

*EW*47

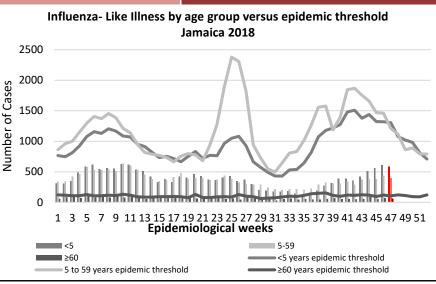
NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

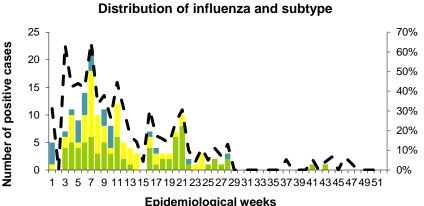
November 18-24, 2018 Epidemiological Week 47

November 2018									
	EW 47	YTD							
SARI cases	21	329							
Total Influenza positive Samples	0	170							
Influenza A	0	141							
H3N2	0	65							
H1N1pdm09	0	76							
Not subtyped	0	1							
Influenza B	0	29							
Parainfluenza	0	7							

Comments:

During EW 47 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





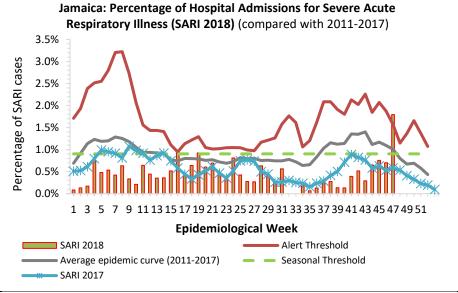
A not subtyped

A(H3)



<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.



NOTIFICATIONS-All clinical sites

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INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

A(H1N1)pdm09

- % Flu / total of samples

A(H1)



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



SENTINEL REPORT- 79 sites. Automatic reporting

A no subtypable

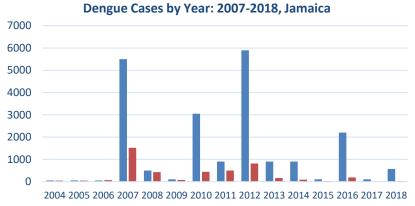
Flu B

Dengue Bulletin

November 18-24, 2018



Weekly Breakdown of suspected and



Epidemiological Week 47

Total Suspected Confirmed DF

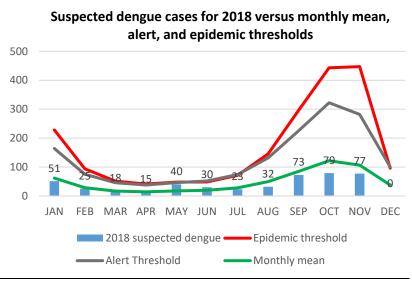
confirmed cases of DF, DHF, DSS									
		20	18	2017					
		EW 47	YTD	YTD					
•	cted Dengue ises	7	570	151					
Lab Confirmed Dengue cases		0	11	6					
£	*DHF/DSS	0	4	3					
CONFIRMED	Dengue Related Deaths	0	0	0					



*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.



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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



EW

47

Gastroenteritis Bulletin

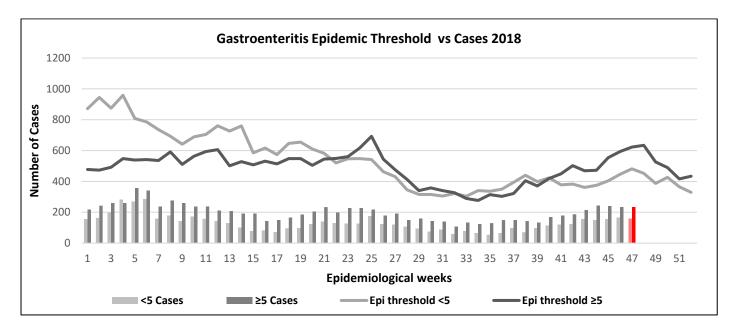
November 18-24, 2018

Weekly Breakdown of Gastroenteritis cases										
Year		EW 47		YTD						
	<5	≥5	Total	<5	≥5	Total				
2018	160	233	393	6,172	9,444	15,616				
2017	136	207	343	7,288	9,369	16,657				

Epidemiological Week 47

Gastroenteritis: In epidemiological week 47, 2018, the total number of reported GE cases showed a 15% increase compared to EW 47 of the previous year. The year to date figures showed a 6% decrease in cases for the period.

Figure 1: Total Gastroenteritis Cases Reported 2017-2018



Total number of GE cases per parish for Week 47, 2018

Parishes	KSA	STT	POR	STM	STA	TRE	STJ	HAN	WES	STE	MAN	CLA	STC
<5	2076	154	104	421	643	355	355	228	260	211	554	437	374
≥5	1665	313	168	736	1216	615	812	350	511	374	963	856	856



NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



RESEARCH PAPER

Knowledge, Attitudes, and Practices regarding screening for Cervical Cancer of Female Health Care Workers age 20-60 years employed to Manchester Health Services.

By: Thompson-Nelson K

Southern Regional Health Authority

Recent statistics highlighted that there is a problem of low compliance in cervical cancer screening among women of reproductive age in Manchester.

Objectives : To assess the knowledge, attitudes and practices of female health care workers regarding screening for cervical cancer, to assess level of compliance to the screening guidelines and to identify barriers to screening.

Methods: This study was a cross-sectional descriptive one, utilizing both quantitative and qualitative designs. Quantitative design was done using a researcher to administer the questionnaires. These study participants were selected using random sampling (N=150) and the staff lists were coded using numbers to ensure anonymity of subjects. The qualitative design included in-depth interviews of four participants who were not included in the quantitative phase of the study.

Results: There was a high awareness of cervical cancer and Pap smear among the group in that 99% and 100% respectively heard about cervical cancer and Pap smear. More than 50% scored, "poor to very poor." regarding knowledge of risk factors for the disease. Of the sample 55% were in compliance with the cervical cancer screening guidelines and 91% displayed a positive attitude to screening while 89% had ever done a Pap smear. Fear, comfort and privacy were the most outstanding barriers to screening mentioned, and the majority of the smears were done at private facilities.

Conclusion : This study has revealed information that will help Coordinators at the National and Local level to devise strategies necessary to strengthen the existing screening programme, educate re risk factors of the disease as well as to empower health care workers to improve compliance to the screening guidelines and uptake of screening in the public health care facilities.



NOTIFICATIONS All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

