Week ending August 12, 2017

Epidemiology Week 32

**WEEK 32** 

**SYNDROMES** 

**CLASS 1 DISEASES** 

PAGE 2

PAGE 4

PAGE 5

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

## **Weekly Spotlight**

How can water-related diseases be prevented during hurricanes?

The three top priorities concerning drinking water and sanitation during an emergency situation such as a hurricane are:

- ensuring the provision of enough safe water for drinking and • for personal hygiene to the people affected by the crisis;
- ensuring that all people affected by the crisis have access to hygienic sanitation facilities;
- promoting good hygiene behaviors.

Following damage to existing sanitation

systems or increased pressure due to large numbers of displaced or homeless people, effective and well-coordinated action by all those involved in the emergency response is critical.

The first priority is to provide a sufficient quantity of water, even if its safety cannot be guaranteed, and to protect water sources from contamination. A minimum of 15 litres per person per day should be provided as soon as possible.



During emergencies, people may use untreated water for laundry or bathing. Waterquality improvements should be made over succeeding days or weeks as a matter of urgency.

Inadequate disposal of human

excreta is a major health risk in emergency situations. It is essential to organize sanitation facilities immediately, such as designated defecation fields or collective trench latrines. Emergency facilities need to be progressively improved or replaced with simple pit latrines, ventilated improved pit latrines, or poor-flush latrines as the situation develops. All types of latrines need to be properly cleaned, disinfected and maintained.

The provision of drinking water and sanitation services in health facilities is a top priority. Safe drinking water, basic sanitation facilities and safe disposal of infectious wastes will prevent the spread of disease and improve health conditions.

In all cases, good hygiene practices are key to preventing disease transmission. Water should be provided in sufficient quantities to enable proper hygiene. Hands should be washed immediately after defecation, after handling babies' faeces, before preparing food and before eating.

Downloaded from: http://www.who.int/features/ga/31/en/



NOTIFICATIONS-All clinical sites



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**INFLUENZA** 



## GASTROENTERITIS

PAGE 7



### **RESEARCH PAPER**

PAGE 8

HOSPITAL ACTIVE SURVEILLANCE-30 sites\*. Actively pursued





1 REPORT- 79 sites\*. Automatic reporting





All

sites



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2



All

sites



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3

### CLASS ONE NOTIFIABLE EVENTS

### Comments

			CONFIRMED YTD		AFP Field Guides	
	CLASS 1 EV	VENTS	CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an	
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		65	100	effective 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 <sup>1</sup>		0	3		
	Hansen's Disease (Leprosy)		0	2		
	Hepatitis B		32	22		
	Hepatitis C		6	4		
	HIV/AIDS - See HIV/AIDS National Programme Report					
	Malaria (Imported)		7	2	Pertussis-like syndrome and Tetanus are	
	Meningitis (Clinically confirmed)		28	42		
EXOTIC/ UNUSUAL	Plague		0	0	clinically confirmed	
H IGH MORBIDIT/ MORTALIY	Meningococcal Meningitis		0	0	classifications.	
	Neonatal Tetanus		0	0	The TB case detection rate established by PAHO for Jamaica is at least 70% of their calculated estimate of cases in the island, this is	
	Typhoid Fever		0	0		
	Meningitis H/Flu		0	0		
SPECIAL PROGRAMMES	AFP/Polio		0	0		
	Congenital Rubella Syndrome		0	0		
	Congenital Syphilis		0	0		
	Fever and Rash	Measles	0	0	per year.	
		Rubella	0	0		
	Maternal Deaths <sup>2</sup>		18	25	<ol> <li>Dengue Hemorrhagic Fever data include Dengue related deaths;</li> <li>Maternal Deaths include early and late deaths.</li> </ol>	
	Ophthalmia Neonatorum		167	268		
	Pertussis-like syndrome		0	0		
	Rheumatic Fever		3	6		
	Tetanus		1	0	Hep B increase for wk 29, 2017 due to results received from NRTS/NPHI	
	Tuberculosis		29	39		
	Yellow Fever		0	0		
	Chikungunya		0	4		
	Zika Virus		0	145		



All

sites





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4

*EW 32* 

## NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

#### August 6-12, 2017

July 2017					
	EW 32	YTD			
SARI cases	2	306			
Total Influenza positive Samples	2	26			
Influenza A	0	0			
H3N2	0	0			
H1N1pdm09	0	0			
Not subtyped	0	0			
Influenza B	4	26			
Other	0	0			

### **Comments:**

During EW 32, the proportion of SARI hospitalizations among all hospitalizations decreased below the average epidemic curve and the alert threshold as compared to previous weeks

During EW 31, the number of SARI cases slightly increased as compared to previous weeks and was lower than the previous seasons for the same period.

31, few influenza During EW detections were reported, with slightly decreased activity (9% positivity) and influenza B predominating.

#### **INDICATORS**

#### Burden

Year to date. respiratory syndromes account for 4.4% of visits to health facilities.

#### Incidence

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

**Prevalence** applicable Not to respiratory conditions.

All

sites



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acute

## INVESTIGATION

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\*Incidence/Prevalence cannot be calculated



Epidemiology Week 32



#### Jamaica: Percentage of Hospital Admissions for Severe Acute Respiratory Illness (SARI 2017) (compared with 2011-2016)



## Dengue Bulletin

August 6-12, 2017

#### Epidemiology Week 32



DISTRIBUTION

Year-to-Date Suspected Dengue Fever

F

0

1

11

8

6

4

0

1

31

Μ

2

4

6

7

14

4

0

1

38

<1

1-4

5-14

15-24

25-44

45-64

>65

Unknown

TOTAL

Un-

known

0

0

0

0

1

0

0

0

1

Total

2

5

17

15

21

8

0

2

70

%

2.9

7.1

24.3

21.4

30

11.4

0

2.9

100



Suspected Dengue Fever Cases per 100,000 Parish Population





#### Dengue Cases by Year: 2007-2017, Jamaica





All





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In Epidemiology Week 32, 2017, the

total number of reported GE cases showed an 13% decrease compared to

The year to date figure showed a 11%

## Gastroenteritis Bulletin

#### August 6-12, 2017

### Epidemiology Week 32

**Gastroenteritis:** 

EW 32 of the previous year.

increase in cases for the period.

# 32

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#### Weekly Breakdown of Gastroenteritis cases **EW 32** Year YTD <5 ≥5 Total <5 ≥5 Total 2017 62 139 201 5,975 7,187 13,162 71 2016 179 250 4,480 7,329 11.809

### Figure 1: Total Gastroenteritis Cases Reported 2016-2017







All





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## **RESEARCH PAPER**

## **HIV Case-Based Surveillance System Audit** S. Whitbourne, Z. Miller

**Objectives:** Evaluate the Public Health Surveillance System for HIV reporting, to help ensure that the data collected is accurate and useful for understanding epidemiological trends.

**Background:** Public health programmes focus on the monitoring, control and reduction in the incidence of target diseases, conditions or health events through various interventions and actions. The surveillance system is the primary mechanism through which specific disease information is collected and needs to be periodically assessed.

**Methodology:** In 2016, an audit was conducted of the HIV Case-Based Surveillance System in Jamaica. Laboratory records were reviewed from seven major health care facilities representing all four Regional Health Authorities. Cases with a positive HIV test in 2014 were noted and comparisons of positive cases were made with the cases that had been reported to the National Surveillance Unit. Qualitative data was also collected from key personnel in the form of questionnaires related to the processes involved in diagnosis, detection, investigation and reporting of HIV positive cases, but this paper will focus on the quantitative findings.

Findings: Preliminary data analysis reveals a high level of underreporting of HIV cases to the national level.

**Conclusions:** Audits and other forms of assessment need to be conducted on surveillance systems to ensure that the data supporting a public health programme is reliable and accurate, for effective delivery of services to target populations.



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All

sites





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8