Released April 21, 2017

Epidemiology Week 14

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





NOTIFICATIONS-A11 clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events





SENTINEL REPORT- 79 sites*. Automatic reporting



up for all Class One Events

sites

REPORT- 79 sites*. Automatic reporting

*Incidence/Prevalence cannot be calculated

sites*. Actively pursued









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HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



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CLASS ONE NOTIFIABLE EVENTS

Comments

	CLASS 1 EVENTS		CONFIRMED YTD		AFP Field Guides	
			CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective	
L /INTERNATIONAL INTEREST	Accidental Poisoning		20	46	surveillance system, detection rates for AFP	
	Cholera		0	0		
	Dengue Hemorrhagic Fever ¹		0	0	should be 1/100.000	
	Hansen's Disease (Leprosy)		0	0	population under 15 years old (6 to 7) cases annually.	
	Hepatitis B		2	7		
	Hepatitis C		1	2		
∀NC	HIV/AIDS -	Pertussis-like				
ATIC	Malaria (Imported)		2	1	syndrome and Tetanus are clinically	
Z	Meningitis (Clinically confirmed)		7	17		
EXOTIC/ UNUSUAL	Plague		0	0	confirmed classifications.	
)T XI	Meningococcal Meningitis		0	0		
GH	Neonatal Tetanus		0	0	The TB case	
H IG MORB MORT	Typhoid Fever		0	0	established by	
	Meningitis H/Flu		0	0	PAHO for Jamaica	
	AFP/Polio		0	0	their calculated	
	Congenital Rubella Syndrome		0	0	estimate of cases in	
IAL PROGRAMMES	Congenital Syphilis		0	0	180 (of 200) cases	
	Fever and	Measles	0	0	per year.	
	Rash	Rubella	0	0		
	Maternal Deaths ²		6	5	*Data not available	
	Ophthalmia Neonatorum		58	142		
	Pertussis-like syndrome		0	0	Fever data include	
PEC	Rheumatic F	Pertussis-like syndrome00Rheumatic Fever11	Dengue related deaths;			
SI	Tetanus		0	0	include early and late	
	Tuberculosis		0	8		
	Yellow Fever		0	0		
	Chikungunya		0	0		
	7ika Virus		0	10		





All



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EW 14

9%

8%

7%

6%

5%

4%

3%

2%

1%

0%

40 51

<5 years epidemic threshold</p>

≥60 years epidemic threshold

43

NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

≥60

9 11 13 15 17 19 21 23

3.5

3

2.5

2

isod jo 1.5

1

0.5

4%

3%

3%

cestagesof S&RI cases

Numbei

5 to 59 years epidemic threshold

April 2-8, 2017

April 2017						
	EW 14	YTD				
SARI cases	14	177				
Total Influenza positive Samples	0	5				
Influenza A	0	0				
H3N2	0	0				
H1N1pdm09	0	0				
Not subtyped	0	0				
Influenza B	0	5				
Other	0	0				



Distribution of Influenza and other respiratory viruses among SARI cases by EW surveillance

EW 12, 2017, NIC Jamaica

27

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

31

Comments:

During EW 14, SARI activity increased and was above the seasonal threshold and the average epidemic curve, but remained below the alert threshold.

During EW 14, SARI cases were most frequently reported among adults aged from 50 to 64 years of age. During EW 14, pneumonia case-counts slightly decreased (~110 cases in EW 14), and were higher tan the levels observed in 2015 and the prior season.

activity was reported.

Burden

Year to date. respiratory syndromes account for 3.3% of visits to health facilities.

Incidence

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

曲 **Prevalence** Not applicable to respiratory conditions.

All







acute

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SARI 2017

Alert Threshold

1



Epidemiological Week

Seasonal Trend

Average epidemic curve (2011-2016)

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



During EW 13, no influenza **INDICATORS**

Dengue Bulletin

April 2-8, 2017

Epidemiology Week 14





DISTRIBUTION

Year-to-Date Suspected Dengue Fever									
	Μ	F	Un- know	Total	%				
			n						
<1	1	0	0	1	4.4				
1-4	1	1	0	2	8.7				
5-14	3	1	0	4	17.4				
15-24	2	3	0	5	21.7				
25-44	4	4	1	9	39.1				
45-64	1	1	0	2	8.7				
≥65	0	0	0	0	0				
Unknown	0	1	0	0	1				
TOTAL	12	11	1	23	100				



Weekly Breakdown of suspected and

Suspected Dengue Fever Cases per 100,000 Parish Population





All

sites



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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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