Week ending April 1, 2016

Epidemiology Week 13

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

Weekly Spotlight Radical increase in water and sanitation investment required

Countries are not increasing spending fast enough to meet the water and sanitation targets under the Sustainable Development Goals (SDGs), says a new report published by WHO on behalf of UN-Water - the United Nations inter-agency coordination mechanism for all freshwater-related issues, including sanitation.



"Today, almost two billion people use a source of drinking-water contaminated with faeces, putting them at risk of contracting cholera, dysentery, typhoid and polio," says Dr Maria Neira, WHO Director, Department of Public Health, Environmental and Social Determinants of Health.

"Contaminated drinking-water is estimated to cause more than 500 000 diarrhoeal deaths each year and is a major factor in several neglected tropical diseases, including intestinal worms, schistosomiasis, and trachoma," added Neira.

The report stresses that countries will not meet global aspirations of universal access to safe drinking-water and sanitation unless steps are taken to use financial resources more efficiently and increase efforts to identify new sources of funding.

According to the UN-Water Global Analysis and Assessment of Sanitation and Drinking-Water (GLAAS) 2017 report, countries have increased their budgets for water, sanitation and hygiene at an annual average rate of 4.9% over the last three years. Yet, 80% of countries report that water, sanitation and hygiene (WASH) financing is still insufficient to meet nationally-defined targets for WASH services.

In many developing countries, current national coverage targets are based on achieving access to basic infrastructure, which may not always provide continuously safe and reliable services. Planned investments have vet to take into account the much more



ambitious SDG targets, which aim for universal access to safely managed water and sanitation services by 2030.

In order to meet the SDG global targets, the World Bank estimates investments in infrastructure need to triple to US \$114 billion per year a figure which does not include operating and maintenance costs. Source: www.who.int/mediacentre/factsheets/fs102/en/









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HOSPITAL ACTIVE SURVEILLANCE-30





SENTINEL REPORT- 79 sites*. Automatic reporting

*Incidence/Prevalence cannot be calculated

WEEK 13



SYNDROMES

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CLASS 1 DISEASES

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INFLUENZA

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DENGUE FEVER

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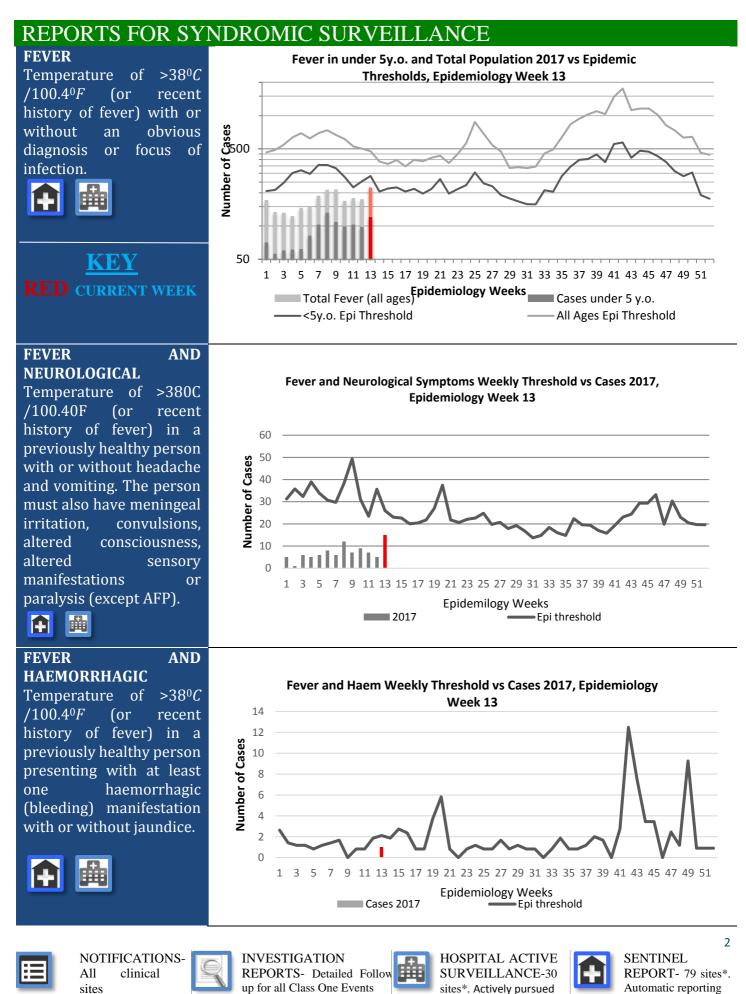


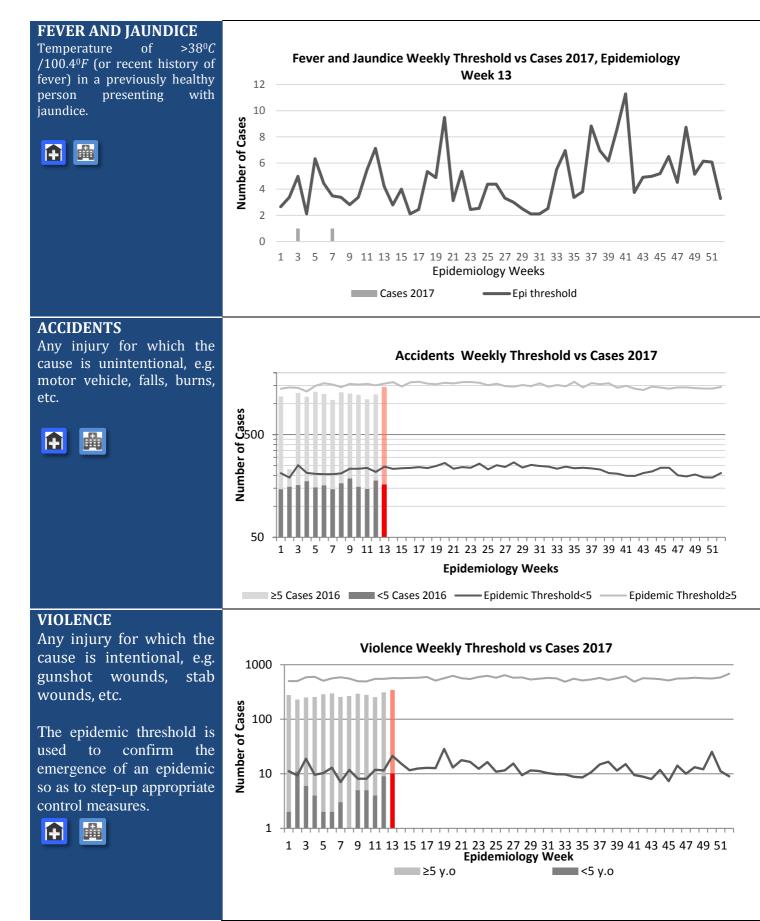
GASTROENTERITIS

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RESEARCH PAPER

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NOTIFICATIONS-All clinical sites



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CLASS ONE NOTIFIABLE EVENTS

Comments

			CONFIRI	AFP Field Guides		
	CLASS 1 EVENT	S	CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective	
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		19	43	surveillance system, detection	
	Cholera		0	0	rates for AFP	
	Dengue Hemorrha	gic Fever ¹	0	0	should be 1/100,000 population under 15 years old (6 to 7) cases annually.	
	Hansen's Disease	(Leprosy)	0	0		
L /INTERN INTEREST	Hepatitis B		2	2		
INT L/I	Hepatitis C		1	0		
ANC	HIV/AIDS - See H	IIV/AIDS Natio	onal Programme Re	port	Pertussis-like	
ATIC	Malaria (Imported)		2	1	syndrome and Tetanus are	
ź	Meningitis (Clinically confirmed)		6	17	Tetanus are clinically	
EXOTIC/ UNUSUAL	Plague		0	0	confirmed classifications.	
/L	Meningococcal Meningitis		0	0		
H IGH MORBIDIT/ MORTALIY	Neonatal Tetanus		0	0	The TB case detection rate	
H IGH ORBID ORTAI	Typhoid Fever		0	0	established by	
ΣX	Meningitis H/Flu		0	0	PAHO for Jamaica is at least 70% of their calculated estimate of cases in the island, this is	
	AFP/Polio		0	0		
	Congenital Rubella Syndrome		0	0		
	Congenital Syphilis		0	0	180 (of 200) cases	
MMES	Fever and Mea	sles	0	0	per year.	
	Rash	ella	0	0	1	
JGR	Maternal Deaths ²		6	5	*Data not available	
SPECIAL PROGRA	Ophthalmia Neonatorum		55	139	1 Dengue Hemorrhagic	
	Pertussis-like syndrome		0	0	Fever data include	
	Rheumatic Fever		1	1	Dengue related deaths;	
	Tetanus		0	0	2 Maternal Deaths include early and late deaths.	
	Tuberculosis		0	8		
	Yellow Fever		0	0		
	Chikungunya		0	0		
	Zika Virus		0	8		





All



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EW 13

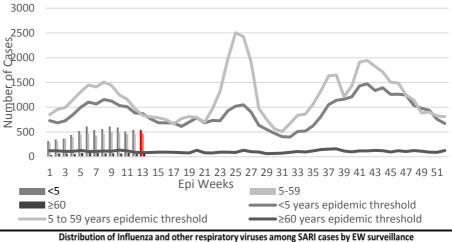
NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

March 26- April 1, 2017

April 2017 EW 13 **YTD SARI** cases 17 163 Total Influenza positive 5 0 Samples Influenza A 0 0 H3N2 0 0 H1N1pdm09 0 0 Not subtyped 0 0 Influenza B 0 5 Other 0 0

Fever and Respiratory 2017

Epidemiology Week 13

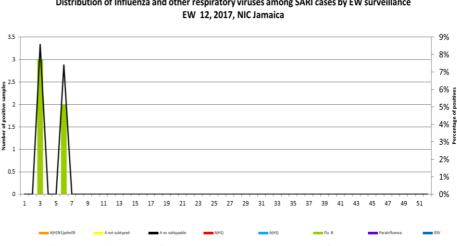


Comments:

During EW 12, SARI activity decreased and remained below the alert threshold and the average epidemic curve.

During EW 12, pneumonia casecounts decreased, and were at same levels observed in 2015 and lower than the prior season.

During EW 13, no influenza activity was reported.



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

INDICATORS

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.**

Prevalence

Not respiratory conditions.

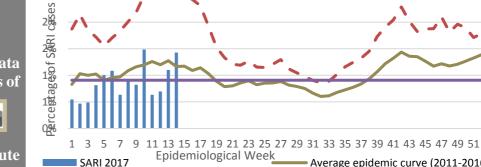


4%

3%

3%

applicable acute to



Average epidemic curve (2011-2016) Seasonal Trend



NOTIFICATIONSclinical sites

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Alert Threshold



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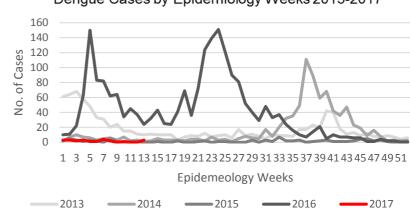
Dengue Bulletin

March 26- April 1, 2017

Dengue Cases by Epidemiology Weeks 2013-2017

Epidemiology Week 13



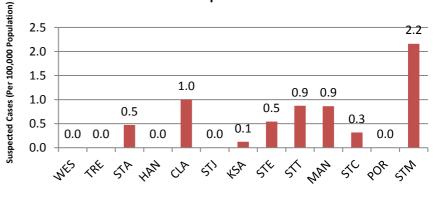


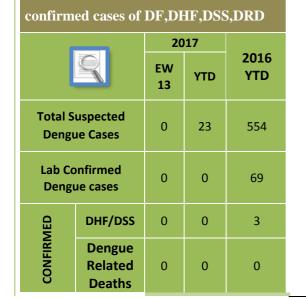
DISTRIBUTION

Year-to-Date Suspected Dengue Fever							
	М	F	Un- know n	Total	%		
<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	0	0	0	0		
TOTAL	12	10	1	23	100		

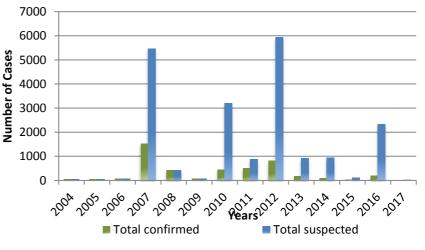
Weekly Breakdown of suspected and

Suspected Dengue Fever Cases per 100,000 Parish Population





Dengue Cases by Year: 2007-2017, Jamaica







All

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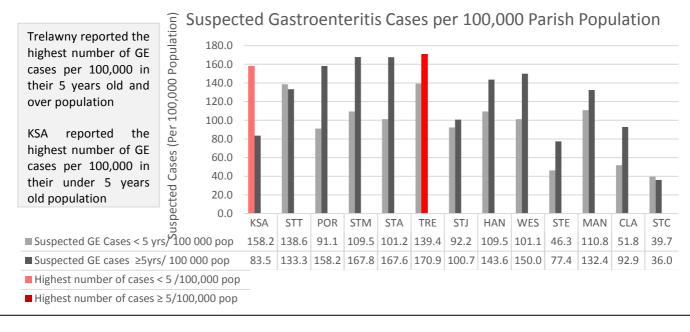


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	Gastroenteritis Bulletin							EW		
Marc	March 26- April 1, 2017 Epidemiology Week 13						13 13			
W	Weekly Breakdown of Gastroenteritis cases					Gastroenteritis: In Epidemiology Week 13, 2017, the total				
Y	ear		EW 13		YTD		number of reported GE cases showed an			
		<5	≥5	Total	<5	≥5	Total		pared to EW 13 of the	
20	017	210	225	435	3,481	3,545	7,026	- previous year. The year to date figure showed a 28% increase in cases for the period.		
20	016	139	202	341	2,080	2,926	5,006			
Number of Cases	200 - .000 - 800 - 600 - 400 - 200 - 0			Gastro			hreshold v	rs Cases 2017		
	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 Epidemiology Weeks ≤5 Cases									









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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.



The Ministry of Health 24-26 Grenada Crescent Kingston 5, Jamaica Tele: (876) 633-7924 Email: surveillance@moh.gov.jm







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