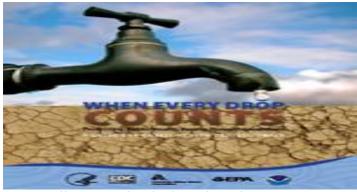
WEEKLY EPIDEMIOLOGY BULLETIN

EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH, JAMAICA

Weekly Spotlight

Drought



http://www.cdc.gov/nceh/ehs/images/photos/drought_cover.jpg

Drought is a natural phenomenon in which rainfall is lower than average for an extended period of time, resulting in inadequate water supply. Drought can lead to public health problems.

Some drought-related health effects are experienced in the short-term and can be directly observed and measured. However, the slow rise or chronic nature of drought can result in longer term, indirect health implications that are not always easy to anticipate or monitor.

Drought can impact surface water quality in many ways. Reduced stream and river flows can increase the concentration of pollutants in water and cause stagnation. Higher water temperatures in lakes and reservoirs lead to reduced oxygen levels, which can affect aquatic life and water quality.

Severe drought conditions can negatively affect air quality. During drought, there is an increased risk for wildfires. Particulate matter suspended in the air from these events can irritate the bronchial passages and lungs. This can make chronic respiratory illnesses worse and increase the risk for respiratory infections like bronchitis and pneumonia.

Source: http://www.cdc.gov/nceh/ehs/publications/Drought.htm

EPI WEEK 30



SYNDROMES

PAGE 2



CLASS 1 DISEASES

PAGE 5



INFLUENZA

PAGE 7



DENGUE FEVER

PAGE 8



GASTROENTERITIS

PAGE 9





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



SENTINEL 1 REPORT- 79 sites*. Automatic reporting

REPORTS FOR SYNDROMIC SURVEILLANCE

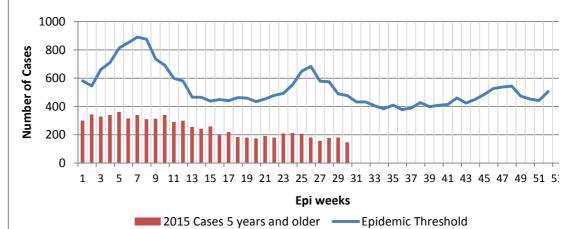
GASTROENTERITS

Three or more loose stools within 24 hours.

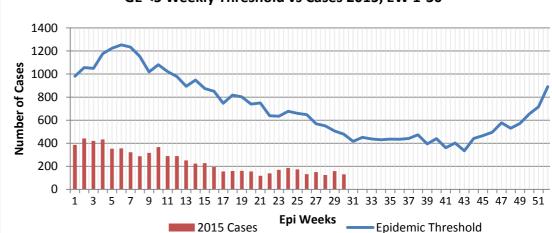




GE ≥5 Weekly Threshold vs Cases 2015, EW 1-30



GE <5 Weekly Threshold vs Cases 2015, EW 1-30

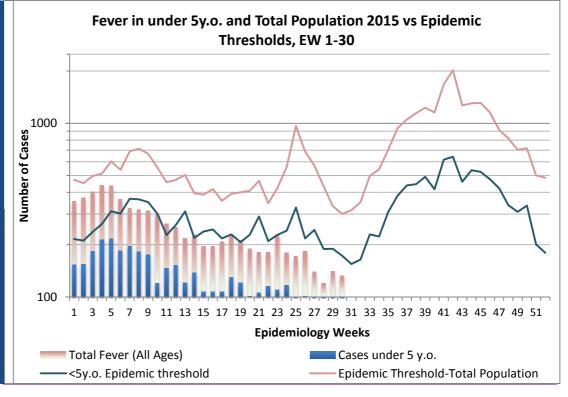


FEVER

Temperature of $>38^{0}C/100.4^{0}F$ (or recent history of fever) with or without an obvious diagnosis or focus of infection.











INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



SENTINEL 2 REPORT- 79 sites*. Automatic reporting

*Incidence/Prevalence cannot be calculated

REPORTS FOR SYNDROMIC SURVEILLANCE

FEVER AND RESPIRATORY

Temperature of $>38^{0}C/100.4^{0}F$ (or recent history of fever) in a previously healthy person with or without respiratory distress presenting with either cough or sore throat.





FEVER AND HAEMORRHAGIC

Temperature of $>38^{\circ}C/100.4^{\circ}F$ (or recent history of fever) in a previously healthy person presenting with at least one haemorrhagic (bleeding) manifestation with or without jaundice.



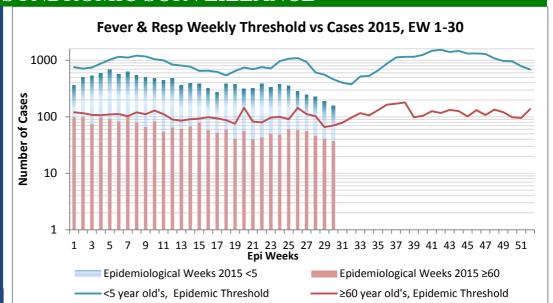


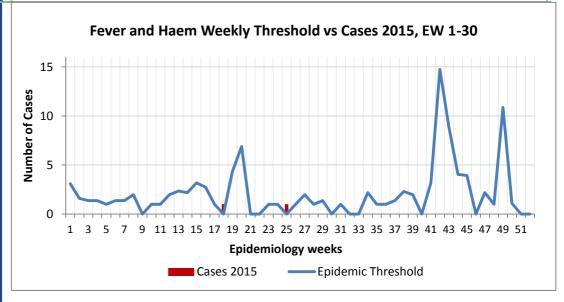
FEVER AND JAUNDICE

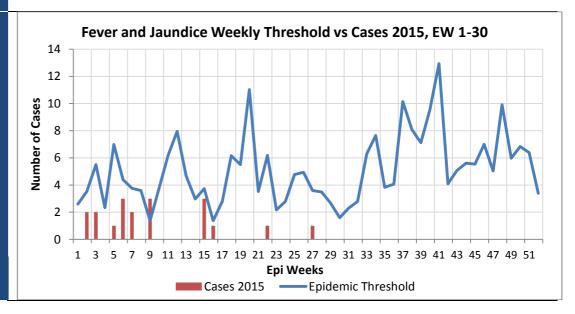
Temperature of $>38^{0}C/100.4^{0}F$ (or recent history of fever) in a previously healthy person presenting with jaundice.















INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



SENTINEL 3 REPORT- 79 sites*. Automatic reporting

FEVER AND NEUROLOGICAL

Temperature of >38°C /100.4°F (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal irritation, convulsions, altered consciousness, altered sensory manifestations or paralysis (except AFP).



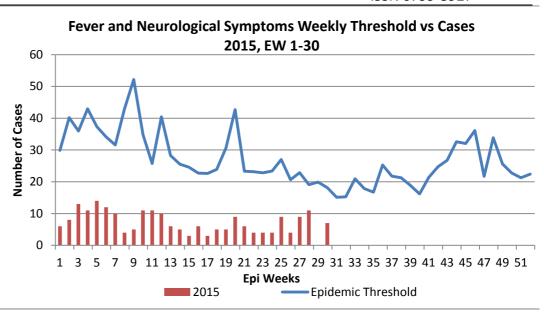


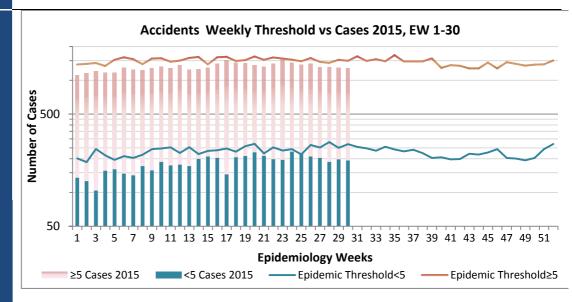
ACCIDENTS

Any injury for which the cause is unintentional, e.g. motor vehicle, falls, burns, etc.







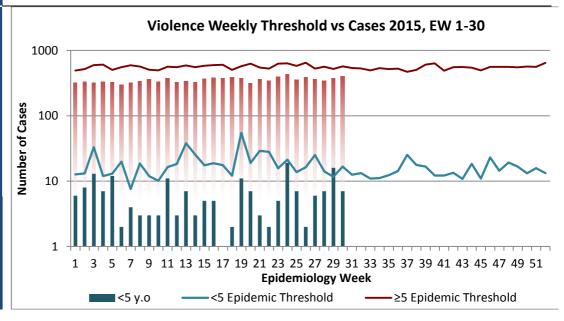


VIOLENCE

Any injury for which the cause is intentional, e.g. gunshot wounds, stab wounds, etc.











INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



SENTINEL 4
REPORT- 79 sites*.
Automatic reporting

CLASS ONE NOTIFIABLE EVENTS and LEPTOSPIROSIS

Comments

			CONFIRI	AFP Field Guides	
	CLASS 1 EVENTS		CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective surveillance system,
4L	Accidental Poisoning		353	366	detection rates for AFP should be
NATIONAL /INTERNATIONAL INTEREST	Cholera		0	0	1/100,000 population
ATI	Dengue Hemorrhagic Fever ¹		0	0	under 15 years old (6
ERN EST	Hansen's Disease (Leprosy)		0	1	to 7) cases annually.
L /INTERN INTEREST	Hepatitis B		9	44	Pertussis-like
	Hepatitis C		2	6	syndrome and Tetanus
√NC	HIV/AIDS -	See HIV/AIDS Natio	onal Programme Re	port	are clinically confirmed
ATI	Malaria (Im	ported)	2	1	classifications.
Z	Meningitis		210	435	
EXOTIC/ UNUSUAL	Plague		0	0	The TB case detection rate established by
Ή	Meningococcal Meningitis		0	0	PAHO for Jamaica is at least 90% of their
H IGH MORBIDIT/ MORTALIY	Neonatal Tetanus		0	0	calculated estimate of
H I ORI ORJ	Typhoid Fever		3	0	cases in the island, this is 180 (of 200)
$\Sigma \Sigma$	Meningitis H/Flu		0	0	cases per year.
	AFP/Polio		0	0	
	Congenital Rubella Syndrome		0	0	*Data not available
S ₂	Congenital Syphilis		0	0	
MMES	Fever and	Measles	0	0	**Leptospirosis is
&AM	Rash	Rubella	0	0	awaiting classification as class 1, 2 or 3
OGE	Maternal De	Maternal Deaths ²		30	
, PR	Ophthalmia	Neonatorum	142	178	1 Dengue Hemorrhagic Fever data include Dengue
IAI	Pertussis-lik	e syndrome	0	0	related deaths;
SPECIAL PROGRA	Rheumatic F	Rheumatic Fever		6	2 Maternal Deaths include early and late deaths.
	Tetanus		1	0	earry and late deaths.
	Tuberculosis		25	39	
	Yellow Fever		0	0	
UNCLASSED**	Leptospirosis		12	9	







NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

July 26 – August 1, 2015 Epidemiology Week 30

EW 30

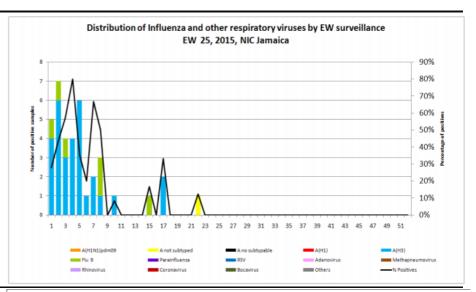
July, 2015					
	EW 30	YTD			
SARI cases	17	541			
Total Influenza positive	0	27			
Samples	0	37			
Influenza A	0	31			
H3N2	0	30			
H1N1pdm09	0	0			
Influenza B		6			

Admitted Lower Resp	iratory Tract	Infection an	d LRTI-	related Deat	ths

.0.	Curre	Current year Pro		vious year	
E#8	Week 30 2015	YTD 2015	Week 30 2014	YTD 2014	
Admitted Lower Respiratory Tract Infections	70	2421	72	2052	
Pneumonia-related Deaths	1	40	5	44	

Comments:

The current circulation of influenza viruses is sporadic with Influenza viruses detected between epidemiological weeks 1 and 22 consisting of A/H3N2 (81%) and Influenza B, Yamagata Lineage (16%). Both viruses are components of the 2014 -2015 Influenza Vaccines for the Northern Hemisphere.



INDICATORS

Burden

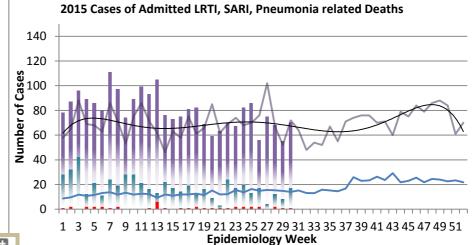
Year to date, respiratory syndromes account for 3.6% of visits to health facilities.

Incidence

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

Prevalence

Not applicable to acute respiratory conditions.



Admitted LRTI 2015
Pneumonia-related Deaths 2015
Admitted LRTI 2014*

No. of SARI cases for 2015

Mean of SARI cases 2010-2013*

2013 Admitted LRTI seasonal trend

*Additional data needed to calculate Epidemic Threshold





INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued

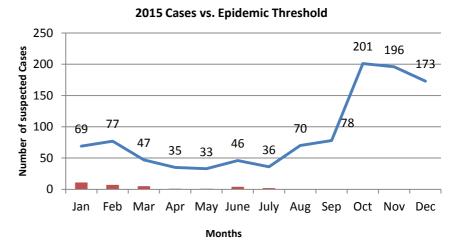


SENTINEL 6 REPORT- 79 sites*. Automatic reporting

Dengue Bulletin

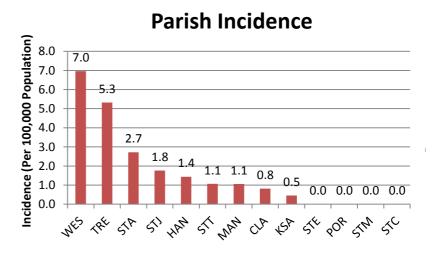
July 26 – August 1, 2015

Epidemiology Week 30

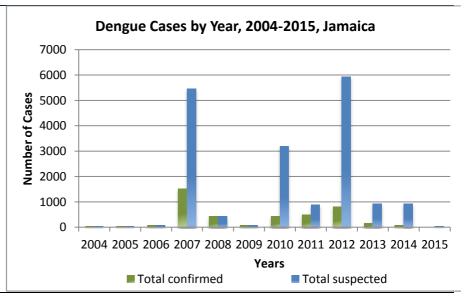


Total Dengue 2015 ——Epidemic Threshold

DISTRIBUTION							
Year-to-Date Suspected Dengue Fever							
	M F Total %						
<1	3	2	5	15.2			
1-4	1	0	1	3.0			
5-14	3	3	6	18.2			
15-24	3	3	6	18.2			
25-44	6	5	11	33.3			
45-64	2	1	3	9.1			
≥65	1	0	1	3.0			
Unknown	0	0	0	0			
TOTAL	19	14	33	100			



Weekly Breakdown of suspected and confirmed cases of DF,DHF,DSS,DRD					
9		2015		2014	
		EW 30	YTD	YTD	
Total Suspected Dengue Cases		0	33	124	
Lab Confirmed Dengue cases		0	3	4	
<u> </u>	DHF/DSS	0	0	0	
CONFIRMED	Dengue Related Deaths	0	0	0	











Gastroenteritis Bulletin

EW

July 26 – August 1, 2015

Epidemiology Week 30

30

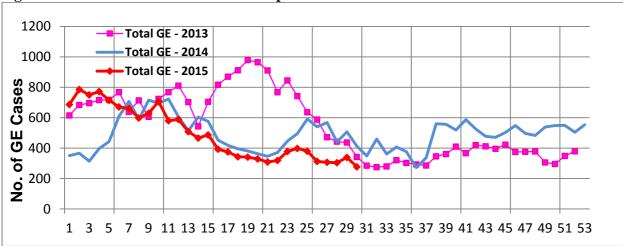
Weekly Breakdown of Gastroenteritis cases

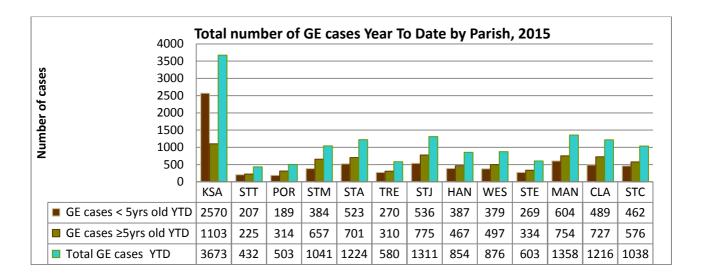
Year	EW 30				YTD		
	<5	≥5	Total	<5	≥5	Total	
2015	130	147	277	7269	7440	14709	
2014	222	191	413	7635	7284	14919	

In Epidemiology Week 30, 2015, the total number of reported GE cases showed a 33% decrease compared to EW 30 of the previous year.

The year to date figure showed a 1% decrease in cases for the period.

Figure 1: Total Gastroenteritis Cases Reported 2013-2015











RESEARCH PAPER

Reduction in Default of Second HIV DNA-PCR Screening of HIV Exposed Infants through Improved Patient Tracking and Information Systems

M Hamiltoni, C Browni, K Guerraz, C Williams, D Smith-Winti, J Thamei, L Richardsi National Public Health Laboratory, Ministry of Health, Jamaica Clinton Health Access Initiative

Objectives: To develop a low cost tracking tool for the monitoring of infant HIV-DNA screens and to deter-mine its effect on the reduction of second test defaults of HIV-exposed infants.

Methods: Data from all infants screened since the introduction of DNA-PCR testing was collated and entered on an Excel based platform. The database created utilized four critical elements for sample identification, mother's full name and patient's full name, date of birth, and gender. It provided the following outputs: total testing levels and results; patient testing history; sample result turnaround time analysis; and second test de-fault reports. There optional tracking by health regions and sub-regions, and testing sites. Data for two six month periods, one each before and after the introduction of the database, were compared.

Results: Within the first six months of implementation of the database, second DNA-PCR test defaults reduced by approximately 16%.

Conclusions: Utilization of low cost measures such as the EID Database & Tracking Tool can improve the tracking and management of HIV exposed infants. This system is a low cost solution which does not require major IT infrastructure overhauls, can be developed in a relatively short time, and is not labor intensive.



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